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Report of

OPERATION

FITZWILLIAM

[redacted]

UNITED STATES AIR FORCE

VOLUME II COPY No. 28

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NUCLEAR DETECTION BY AIRBORNE FILTERS

UNITED STATES AIR FORCE

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Report
of
Operation FITZWILLIAM

Vol. II Introduction Copy No. 23

NUCLEAR DETECTION
BY
AIRBORNE FILTERS

UNITED STATES AIR FORCE

[redacted]

Report of Operation FITZWILLIAM

Introduction to Volume II

NUCLEAR DETECTION BY AIRBORNE FILTERS

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II. ABSTRACT

Airborne particulate bomb debris from the three test explosions at Eniwetok in 1948 (SANDSTONE) (Unclassified) was collected by means of aerial filtering [redacted] many days following each test. The atomic clouds were partially delineated at several points along their paths. Samples of the collected particles have been examined for size. A study of the meteorological conditions accompanying the transport of the atomic clouds has shown some correlation between the observed wind conditions, the theoretical gravitational settling of the particles, and the observed movement of the clouds.

III. INTRODUCTION

This volume is concerned with the physical nature of the long range atomic clouds produced by the SANDSTONE (Unclassified) atomic tests conducted at Eniwetok, Marshall Islands, during April and May 1948, as determined by the collection of particulate radioactive material from the atmosphere by aerial filtering.

Each of the three SANDSTONE (Unclassified) test explosions produced a huge, visible column of debris. A sizeable portion of the debris from each of these clouds remained suspended in the atmosphere for a long period of time and was transported to great distances by the complex circulation of the atmosphere. This suspension and transport of the bomb debris is in agreement with the well-documented phenomena associated with the Krakatoa eruption of 1883.

Extensive aerial filtering, as a phase of Operation FITZWILLIAM [redacted], resulted in collection of samples of fission products from each of the three atomic clouds and in the partial delineation of these clouds at great distances from the site of the explosions. A small portion of these collected samples was examined to determine the physical and chemical properties of the explosion debris.

The purpose of aerial filtering during Operation FITZWILLIAM [redacted] was to test the effectiveness of this method for long range detection of atomic explosions from which fission debris might be released into the atmosphere. Previously, fission debris from the CROSSROADS (Unclassified) ABLE explosion (Bikini, 1946) [redacted]

The techniques employed in the isolation and examination of the collected radioactive particles from the SANDSTONE (Unclassified) atomic clouds were, of necessity, developed during the course of investigation subsequent to the test. It is therefore not surprising that many of the conclusions which were drawn and disseminated during the investigation have been invalidated by later findings. These techniques have now been developed to a point where the results can be accepted with confidence. However, the presently available data on particle size cannot be used to substantiate particle fall-out theories because of the relatively small number of filter papers for which particle size studies could be made. A large portion of the most important filter papers, from the viewpoint of time and location of filtering, were destroyed in chemical analyses immediately following the tests.

The SANDSTONE (Unclassified) tests, consisting of the explosion of three atomic bombs, code names "XRAY", "YOKE", and "ZEBRA" in chronological order of their detonations, were conducted at Eniwetok Atoll, Marshall Islands, North Pacific Ocean, in the Spring of 1948. These tests originally had been planned for weapons and weapons-effect

studies, and could not be altered for the specific requirements for testing of long range detection techniques due to the last-minute entrance of Operation FITZWILLIAM [redacted] into the test program. The location of Eniwetok with respect to nearby islands is shown for the convenience of the reader in Figure 1.

Each of the SANDSTONE (Unclassified) bombs was exploded from the top of a steel tower approximately 200 feet in height and approximately 50 tons in weight. Pertinent data on the SANDSTONE (Unclassified) detonations are presented in Figure 2.

	XRAY	YOKE	ZEBRA
DATE/TIME (GMT) 1948	14 April/1817	30 April/1809	14 May/1804
LOCATION	11°40' N Lat 162°14' E Long	11°37' N Lat 162°19' E Long	11°33' N Lat 162°21' E Long
ESTIMATED HEIGHT OF VISIBLE ATOMIC CLOUD	56,000 ft. *	56,000 ft. *	33,000 ft.
APPROXIMATE ENERGY KTE	38	48	19

* Approximate height of tropopause.

FIGURE 2.

The complete listing of flight and nuclear data, together with a description of the data, is included in Vol II, Tab B, in tabular form. Results of a detailed correlation of the associated meteorological factors with these data, made by a unit of the Special Services Division of the U. S. Weather Bureau, are given in Vol II, Tab A.

IV. INSTRUMENTATION

A. General.

In order to collect samples of the bomb debris at great distances from the site of the explosions, aircraft equipped with air filters were placed at strategic locations along the expected paths of the atomic clouds. Aircraft placed at Guam and Kwajalein were assigned the task of intercepting and obtaining samples of the bomb debris which remained at low altitudes where light winds caused a slow, semi-stagnant, westward movement of the bomb debris. In addition, these aircraft at Guam and Kwajalein performed routine and special weather reconnaissance for the SANDSTONE (Unclassified) [redacted] Eniwetok. These aircraft exposed filter papers on all of the weather reconnaissance missions. Other aircraft which were based in Hawaii, Alaska, and California were located to intercept the high-altitude, fast-moving portions of the clouds. A number of these aircraft were later moved to Panama, Bermuda, the Azores, and to Tripoli to be dispatched for interception of the atomic clouds at positions and times predicted by meteorological means. The relatively small number of aircraft available for this project made operational planning most difficult. Numerous compromises between scientific requirements and operational capabilities had to be made.

B. Pre-SANDSTONE (Unclassified) Operations.

The exposing of filter papers on regularly scheduled USAF weather reconnaissance flights began a short time before the detonation of the first SANDSTONE (Unclassified) bomb. A sufficient number of filter papers were exposed and measured for radioactivity prior to the detonation of XRAY so that a statistical analysis of the ambient level of the relatively "clean" atmosphere could be made. In addition, the characteristics of the measurement apparatus could be examined at that time in the absence of contamination of the instrument and surrounding objects from fission products. The data from these early flights, together with a discussion of the statistics of the activity measurements therefrom, are included in Tab B of this volume.

C. Filter Device.

The filter device was designed so as to expose a pair of filter papers simultaneously, one in each side of the assembly. The unit was mounted on the underside of the fuselage of the B-29 aircraft in the rear turret position. Photographs of this unit and its installation are included in Vol I, Tab D. Each of the two sides of the filter unit, with paper inserted, had a flow capacity of approximately 450 cubic feet of air per minute at the normal cruising speed of the aircraft. The filter device was designed to operate on the venturi principle.

Comparison of the measurement data from two simultaneously exposed filter papers often revealed greatly different activities, varying in some cases by a factor of ten. Investigations revealed that the entrance slots of the filter device were not uniform and that the exit flow was not stable. Consequently, in this investigation, when the activity measurements for a pair of "twin" filter papers differed markedly, the higher of the two activities has been assumed to be the most representative of the activity present in the air. Frequently, only one filter paper was exposed at a time for reasons which were not documented. Obviously, the measurement data from these singly exposed papers must be treated circumspectly, since the side of the filter unit which was used might have had impaired flow during all or part of the exposure time.

D. Filter Paper.

U. S. Army Chemical Warfare Service type V-5 filter paper was used. It was cut into pieces each 8" x 18" for insertion into the filter paper holder. The average efficiency of this filter paper was determined, by testing subsequent to the operation, to have been approximately 85% for the sizes of radioactive particles known to have been collected during the operation.

E. Measurement Device.

The exposed filter papers were measured for radioactivity by a special wrap-around Geiger-Mueller counter designed specifically for this purpose. Measured activities of filter papers at any one station, or between stations, are only relatively comparable due to the individual differences in the G-M tubes used for the measurements.

A complete description of this unit is contained in Vol III, Tabs C and D of this report. The measurement procedure is discussed in Vol II, Tab B, and in Vol III, Tab C of this report.

F. Quality of Recorded Data.

In general, only the supervisory personnel involved in exposing and measuring the filter papers had received adequate training or had previous experience in the type of work involved. Even more important, it is doubtful whether many of the personnel in the field could fully appreciate the amount of care demanded in the observational and instrumental phases of this experiment. It is not surprising, therefore, that the resultant data are, in places, of rather poor quality. The flight data (i.e., time and location of insertion and extraction of papers, altitude, climbs and descents of aircraft during filter paper exposure) were found to contain many errors, omissions, and inconsistencies. These errors were found and the data were corrected by comparison of the flight data with the more detailed weather reconnaissance records which were made apparently by a different member of the aircraft crew. Roughly two-thirds of these accompanying weather records could be located and checked against the flight data recorded

with the filter paper while the remaining third of the flight data could in no way be checked for accuracy. Some of the most critical flights (e.g., the first flight under and into the XRAY cloud within an hour after detonation) are in this latter category. The collection of weather records and the cross-checking of these records with the flight data were time-consuming, requiring many months for completion.

The counting procedure in the field required a large amount of manual arithmetical computation. Where the basic data were recorded legibly and completely, the values given for the activity measurements could be checked for such errors in computations. In cases where the basic data were either partially or wholly missing, not legible, or internally inconsistent, the measurement data have been omitted from the listing in Tab B of this volume. The accompanying flight data for these filters, however, have been included for purposes of continuity.

[redacted]

G. Natural Radioactivity.

One of the most disturbing problems which arose during this operation and in the post-operational analysis was the presence of significant amounts of radioactivity on certain filter papers which had been exposed at times and places where fission products from the SANDSTONE (Unclassified) bombs could not have possibly arrived, at least by any known meteorological factors involved. Each such instance, however, appeared to have been accompanied by the following circumstances:

a. The filter paper was exposed either partially or wholly over a land mass at altitudes of about 1,000 to 5,000 feet, or during ascent or descent of the aircraft over or near a large land mass.

b. The filter paper was measured shortly after extraction from the filter unit (e.g., a time-delay of less than five hours). Most of these papers had apparently collected natural activity (probably RaB), but this was not suspected at the time of measurement because virtually all of the papers were counted only once, thereby precluding identification by decay measurements. Only the initial measurement is entered in the tabular listing of data in Vol II, Tab B.

H. Radioautography of Filter Papers.

Radioautographs of all available aerial filter papers from this experiment were made a little over a year after the completion of the operation. A preliminary inspection of selected filter papers has

pointed up several problems which had not been anticipated. Frequently the results of the radioautographs were not consistent with the G-M counter data for the same paper. Several possible explanations for these inconsistencies, excluding that of counting error, have been advanced. A few of these are:

a. Cross-contamination between filter papers when placed, stacked, or rubbed against one another.

b. Presence in the atmosphere of particles from previous atomic tests and operations. These particles, in spite of their low activity, could possibly have been capable of producing "spots" on a radioautograph of long exposure.

c. Filter papers may have been numbered incorrectly or, in measurement, data may have been recorded incorrectly.

d. Film-exposure time, approximately one month, may not have been sufficiently long for very small particles to produce spots on the film.

V. PHYSICAL PROPERTIES OF COLLECTED FISSION PRODUCTS

The size, shape, and density of the particulate fission products contained in an atomic cloud is of interest in that these properties may have a bearing upon the suspension and transport of these particles by the atmosphere.

A large number of radioactive particles were removed from selected aerial filter papers and isolated by Tracerlab, Inc., at Boston. In brief, the process of isolation and measurement of the particles consisted of:

a. Radioautography of entire filter paper.

b. Placing of developed radioautograph on filter paper and punching out small area through film and filter paper where "spots" on film appeared.

c. Dispersal of each punched out portion of filter paper on glass slide.

d. Radioautograph of dispersed material by dental X-Ray film "hinged" to glass slide.

e. Attempt to locate active particle under microscope by reference to "spot" on radioautograph "hinged" to glass.

f. Removal of active particle from dispersal to clean slide and apply transparent adhesive material.

g. Radioautograph slide to locate isolated particle under microscope.

h. Measure particle. All measurements were made with 97 X objective and 12.5 filar micrometer which had been calibrated with an American Optical stage micrometer.

The isolation and measurement of these particles were accomplished during a period of time ranging from roughly one to two and a half years following the SANDSTONE (Unclassified) tests. This was naturally a handicap. Many of the filter papers for which particle-size data would be most interesting were destroyed in radiochemistry long before any particles could have been removed. Among these papers are those from "leading edges" of the YOKE and ZEBRA clouds south of Hawaii. It is particularly unfortunate that particle-size data are not available for these papers since meteorologically it was possible to make an estimate of the rate of settling of those particular particles from maximum wind consideration (See Vol II, Tab A).

The particle-size data are shown in Figure 3. Particle-size distribution is shown for each test. Only those particles which could be identified with reasonable assurity as to their source are included in this compilation.

Since the particles from SANDSTONE (Unclassified) were composed in large part of iron, presumably as oxide, the figure of 3.6 gm/cc is used for the density in computing the theoretical rate of gravitational settling. Additionally, nearly every isolated particle was found to be spherical. The theoretical rates are shown in Figure 4. It should be noted that the fall-out rates estimated by meteorological means (reference Tables I and II, Vol II, Tab A, of this report), are generally consistent for the range of particle sizes dealt with here.

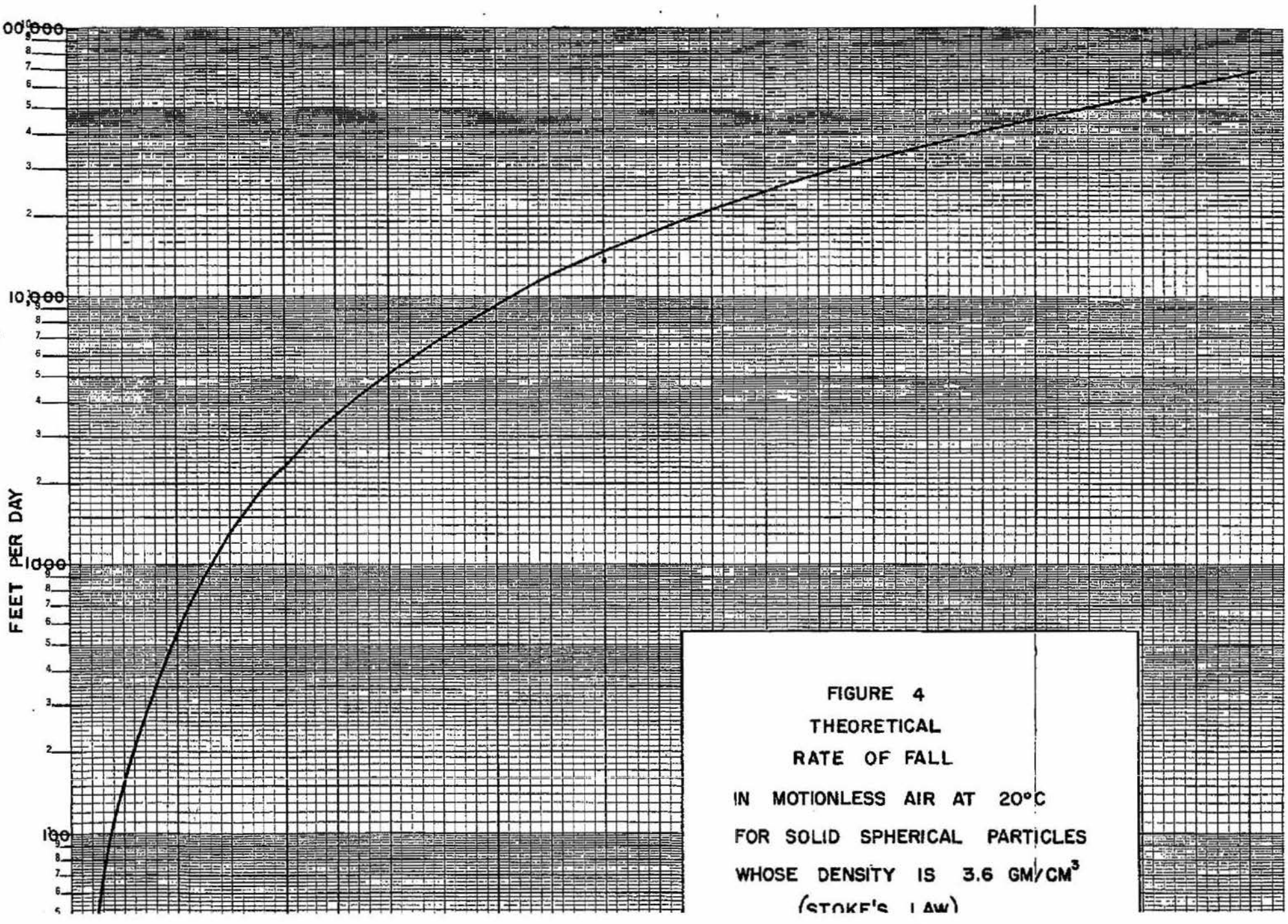

FIGURE 4
THEORETICAL
RATE OF FALL
IN MOTIONLESS AIR AT 20°C
FOR SOLID SPHERICAL PARTICLES
WHOSE DENSITY IS 3.6 GM/CM^3
(STOKE'S LAW)

VI. TRANSPORT OF AIRBORNE FISSION PRODUCTS

The manner in which the bomb debris are injected into the atmosphere is of considerable interest in the problem of long range detection by aerial filtering. Accounts of the detonations of the SANDSTONE (Unclassified) and previous atomic bombs, where detonation has occurred above ground, have included photographs, descriptions, and estimates of the size of huge "atomic clouds", somewhat resembling conventional thunderheads. These clouds have been, in all cases, in the form of irregular, nearly vertical columns during their very early stages. The altitudes of the tops of these columns ranged roughly from 30,000 feet to 55,000 feet above sea level. The height of the top of this column is a prime factor in determining the manner in which the bomb debris will be subsequently dispersed throughout the atmosphere.

The ability to treat quantitatively the physical process by which the visible atomic cloud is formed immediately after detonation of a bomb might be of some value. The following factors are believed to be involved, with varying degrees of importance, in the maximum height attained by the cloud from a given atomic bomb:

a. The energy of the bomb.

b. The physical arrangement for detonation (i.e., air, surface, underground, or under water).

c. The atmospheric conditions at the time and place of detonation.

The heights of the three visible atomic clouds from Operation SANDSTONE (Unclassified) were calculated from single-theodolite observations made aboard vessels of the task force, anchored close together some miles to the south of the test sites.(1) Since each of these visible atomic clouds required approximately 10 to 15 minutes to reach maximum height, the horizontal wind components of the layers of air through which each cloud penetrated distorted the columns from the vertical. The distance of the top of the clouds from the theodolites could not be measured directly but was approximated by use of the observed vertical wind distribution at Eniwetok. The height values thus determined, as listed in Figure 2 are, therefore, not direct measurements. Also, it well may be that some of the particulate radioactive debris ascended to altitudes higher than the top of the visible atomic cloud. At this writing it has not been possible to correlate the SANDSTONE (Unclassified) cloud-height determinations with any of the factors which are believed to have been involved in the formation of the clouds.

---

(1) Meteorological Report on the Visible Atomic Clouds, Operation SANDSTONE (Unclassified), 1948. This report has been distributed to interested agencies by AFSWP.

The next phase may be thought of as beginning at the moment when each of the particles had lost its initial upward thrust and come into equilibrium with the surrounding air. The downwind transport is completely dependent upon the meteorology. The results and conclusions of a lengthy investigation by the United States Weather Bureau of the purely meteorological factors involved in this transport are presented in Vol II, Tab A.

VII. STRUCTURE OF THE SANDSTONE (UNCLASSIFIED) LONG RANGE ATOMIC CLOUDS

A. General.

The length, width, depth, and internal structure of a long range atomic cloud are factors of the greatest importance in long range detection and adequate sampling of atomic bomb debris by means of aerial filtering. These factors, if expressed as functions of type and strength of bomb, physical arrangement for detonation, particle-size, time after detonation, and meteorological conditions, could be of great assistance in determining the optimum design and operation of a system of surveillance of an area for atomic explosions by aerial filtering. For instance, the minimum length of any possible atomic cloud would prescribe the required frequency of flights along a line crossing the air streams emanating from any area under surveillance. Likewise, the minimum width of any possible atomic cloud would determine the required extent and completeness of such a network of flights. The ability to deduce the internal structure of any atomic cloud, of which detection has already been made, could be used in vectoring special aircraft into the "hot" portions of the cloud to obtain large samples of the bomb debris. Since it will not be possible to know beforehand certain of the factors involved, such as the type or strength of a possible foreign bomb, the minimum requirements for surveillance must be based on unfavorable conditions for detection.

During and immediately following Operation FITZWILLIAM [redacted] there were hopes that at least two of the atomic clouds (XRAY and YOKE) could be delineated on a daily basis for periods of approximately two weeks following each of the respective detonations. It would be highly desirable to be able to sketch, from the some 3,000 odd pieces of filter data obtained, the extent and daily progress, as well as changes in the internal structure, of each of the three atomic clouds as it spread over and around the globe. Unfortunately, the data are not suitable or of sufficient quantity for such extensive analyses. An attempt was made to fill in some of the gaps in the coverage of data by using wind data to adjust data separated in time to form synoptic pictures of the clouds. With sufficient wind data, this can be accomplished by moving the positions of filter tracks by the observed wind either forward or backward in time to provide the largest possible amount of data for each particular time at which an analysis of the cloud shape is to be made. It was no surprise to find that meteorological conditions over most of the areas in question could not be determined to any degree of accuracy since the long range atomic clouds passed, for the most part, over vast ocean areas where meteorological data were extremely sparse or nonexistent.

Possibly because of the rather pessimistic attitude, which was prevalent early in the operation, toward the capabilities of aerial filtering and because of the relatively small number of aircraft assigned for the

task, emphasis was placed entirely on merely assuring detection of the XRAY atomic cloud and the collection of large samples of the debris for radiochemical analysis. Hence, the data are not suitable for delineation and analysis of the internal structure of the XRAY cloud. However, the extent of downwind travel, as far eastward as Tripoli, was well established.

During the period when the XRAY cloud was being "chased" half-way around the world, plans were being made for the forthcoming operations connected with the YOKE detonation. For the YOKE cloud the cloud-chasing techniques so successfully employed for the XRAY cloud were retained, but, at the same time, emphasis was placed on the delineation and internal structure of the cloud. Accordingly, scheduled flights were planned along two fixed lines, one extending generally from Alaska to Hawaii to 2°S latitude 164°W longitude, the other from Alaska, through Fairfield-Suisun AFB, California, to the position 15°N latitude 107°W longitude, and thence to Albrook AFB, Canal Zone. The flights along these two lines were to have been made at one or more of four fixed altitudes, 1, 10, 20, and 30 thousand feet, daily or as often as operationally possible. On these flights each filter paper was to have been exposed for one hour or less. This plan was carried out admirably, but operational difficulties resulted in there being many gaps in the expected coverage of data. Essentially the same general operational plan was executed for the ZEBRA long range cloud as that for YOKE. However, much of the operational plan was either abandoned or modified after it was thought that the ZEBRA cloud had completely evaded the flight line south of California.

The relatively quick succession in which the three bombs were detonated, 15-day intervals, made positive delineation of the last two of the three clouds difficult or even impossible. This was due to the residual debris suspended in the air from preceding bomb(s).

For convenience, each of the three long range atomic clouds was divided into two general parts for discussion herein. These parts are listed and defined as follows:

a. High-level Cloud. Those portions of each cloud which were initially observed moving eastward from Eniwetok.

b. Low-level Cloud. Those portions of each cloud which were observed west of Eniwetok. This portion in all probability contained material from the low-altitude portion of the visible atomic cloud which initially moved westward, as well as material which had fallen from the eastward moving, high altitude portion into winds at lower altitudes which carried this same material to the west of Eniwetok.

Unfortunately, only the high level, eastward moving portions of each of the clouds can be discussed herein because the filter observations of the westward moving, low level portions of the clouds were not suitable for delineation studies. The aircraft which operated out of Kwajalein and Guam were vectored by the Staff Meteorological Officer of Joint Task Force Seven (SANDSTONE) (Unclassified), who was physically located aboard

the USS Mt. McKinley at Eniwetok. Most of the flights from these two island bases were made primarily for weather reconnaissance in the immediate area of the test site. The time-length of the filter exposures was usually too great for delineation of the cloud. In addition, it was found subsequent to the tests that the aircraft which had flown through the very "hot" parts of the clouds near Eniwetok remained contaminated for quite some time after each of the detonations. It was reasoned that active particles had become lodged in the irregularities of the metal skin of the aircraft. These particles might later have been freed from the aircraft, most likely by vibration or by washing during rainy weather, and then have been collected in the filter device mounted at the rear of the aircraft. These factors combined to make the delineation of the westward moving portions of the cloud impossible.

B. "Significant" Activity Level.

The value of 40×10^{-18} curies/gram of air filtered has been chosen as the ambient level of activity for the natural background. This value was arrived at from an examination of the pre-XRAY measurement data and from a consideration of the factors involved in the observed variations in that data (see page viii, Vol II, Tab B).

An attempt was made to refine the above criterion by applying radioautograph techniques to the problem of determining whether or not any one filter paper had collected fission products. These attempts have not shown too much promise up to this writing. The reasons for this are discussed in Section II, H of this volume.

C. Extent of Downwind Travel.

[redacted]

An attempt was made to intercept the XRAY cloud as it was computed by meteorology to have passed over the Philippine Islands after having circumnavigated the globe. The flight vectored for this purpose (on 6 May 1948, filter papers GU-0174, GU-0175, and GU-0176) succeeded in collecting "significant" amounts of radioactivity. The original data recorded on the flight data sheet fixed the flight altitude for the two "significant" papers (GU-0175 and GU-0176) at 30,000 feet, while it appeared that the air at 10,000 feet immediately below the point of "detection" was sampled and found to have been clear of activity. A close cross-check of these flight data with the accompanying weather reconnaissance forms revealed that filter paper GU-0175 had actually been inserted at 10,000 feet and that it had been exposed during the climb to 30,000 feet. Likewise, it was found that paper GU-0176 was exposed during a descent from 30,000 feet to 10,000 feet. Both of these papers may actually have collected material from the low-level portion of the XRAY cloud, which had

[redacted]

The summarized results of the "cloud-chasing" activities for each of the three atomic clouds are presented in Figures 5, 6, and 7. These figures show only flights which made first detection at any longitude. Air trajectories near the level of highest wind speed in the cloud have been included in the figures. These trajectories were computed by the U. S. Weather Bureau from meteorological considerations alone. These same trajectories are also included, together with a discussion, in Vol II, Tab A. The selected filter data as arranged in Figures 5, 6, and 7, together with the air trajectories, show the day-to-day progress of the high-level clouds in as much detail as is possible. It is well to mention that neither the air trajectories nor the filter data showing first detection at any longitude necessarily represents the leading edge of the cloud.

[redacted]

D. Time and Cross-Sectional Analysis.

a. General.

In attempting to assemble the aerial filter data for obtaining a picture of the long range atomic clouds, five parameters were involved, namely:

(1) Amount of collected radioactivity.

(2) Time of filter exposure.

(3) Latitude of filter paper exposure.

(4) Longitude of filter papers exposure.

(5) Altitude of filter paper exposure.

By arranging flights along fixed lines for delineation of YOKE and ZEBRA clouds it was possible to eliminate one parameter (longitude) in the treatment. The data gathered along these fixed flight lines were then separated into constant-altitude groups and each altitude was treated separately. In the treatment of each of the altitude groups there then remained only three parameters, namely: latitude, filter paper exposure time, and amount of collected radioactivity. These three parameters were plotted with latitude versus exposure time and a color code was employed to express amount of radioactivity collected by each filter paper. These plots are presented in Figures 8, 9, 10, and 11.

With the data thus plotted on the "horizontal" cross-sections, sketches were made of the activity in YOKE and ZEBRA clouds as each passed through the north-south vertical planes formed by the flight patterns. These horizontal sketches do not represent the true shape of the clouds; they are, roughly speaking, a time-recording of radioactivity at each point in the vertical plane formed by the flights at various altitudes on the same track.

In noting the apparent changes in structure of each of the clouds with time, caution must be exercised so as not to confuse the horizontal time cross-sections with synoptic pictures of the cloud. This is mentioned because of the possibility that the changes, with time, in the amount and extent in the activity along the flight lines might be interpreted as changes in structure of the cloud as a function of position within the cloud at a fixed time.

Only data from the following types of filters were used in this cross-sectional analysis:

a. Those filter papers exposed at constant altitude for their entire length, and

b. Those filters exposed, either partially or wholly, during ascent or descent of the aircraft when the measured activity from the paper was below the "significant" level.

During the course of this investigation it became apparent that portions of the cloud had tendencies to form in thin, horizontal layers. A filter paper exposed during a large change in altitude of the aircraft might have collected large amounts of radioactive material, whereas the aircraft may have passed only briefly through a thin, concentrated horizontal layer of material. Because of the large gradients, of activity with respect to distance travelled, observed in climbs and descents as compared with gradients of activity in the horizontal plane, it was found to be impossible to utilize these climb and descent data except as rough checks for consistency, since the altitudes at which activity was collected cannot be determined.

TIME-RECORD

MEASURED RADIO ACTIVITY
OF
MATERIAL COLLECTED
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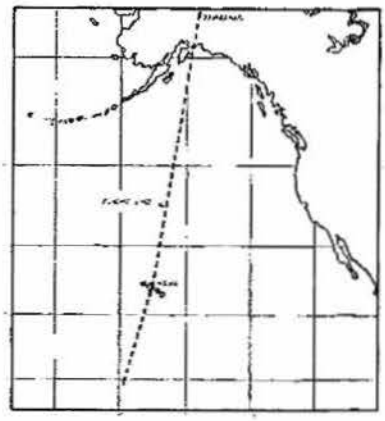

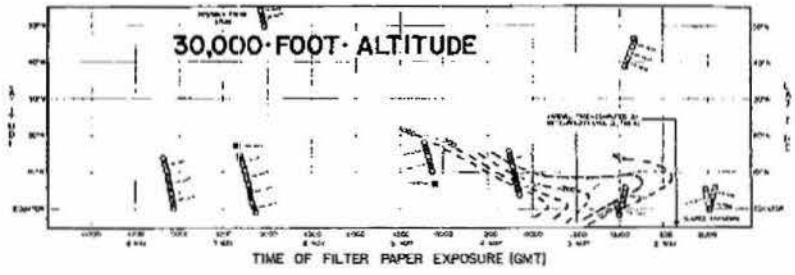

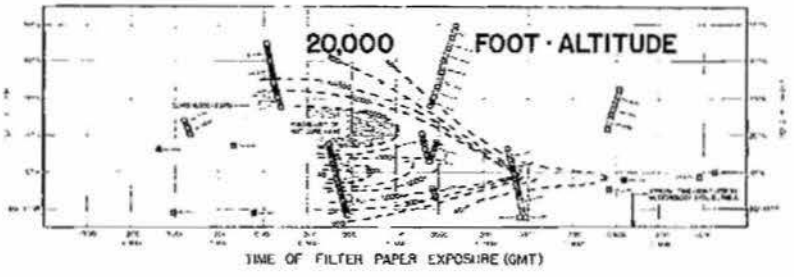

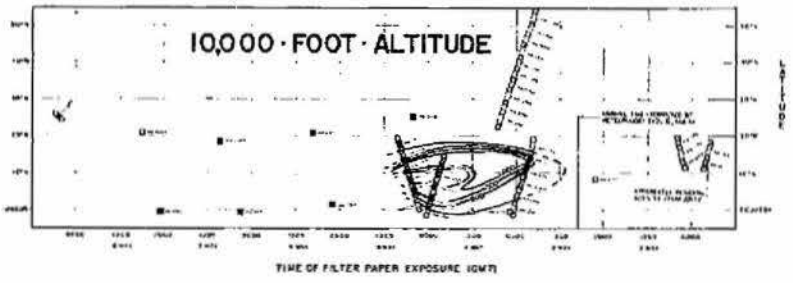

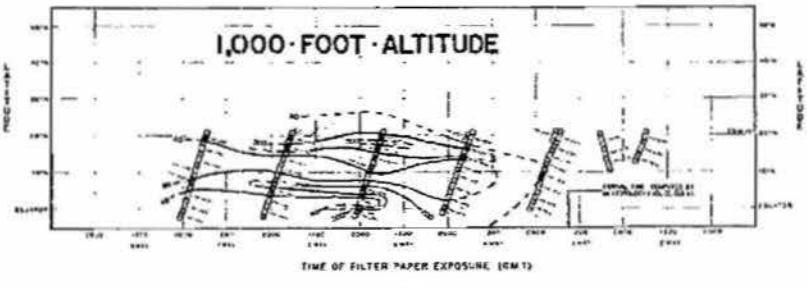

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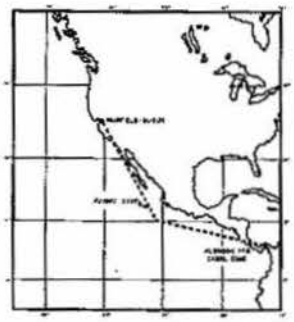

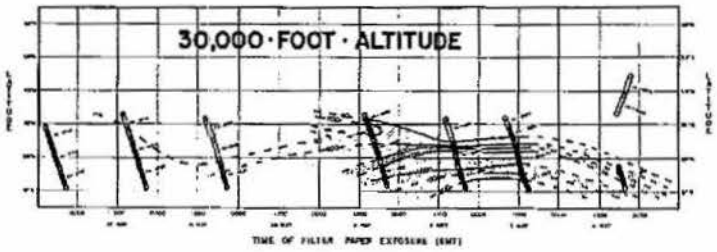

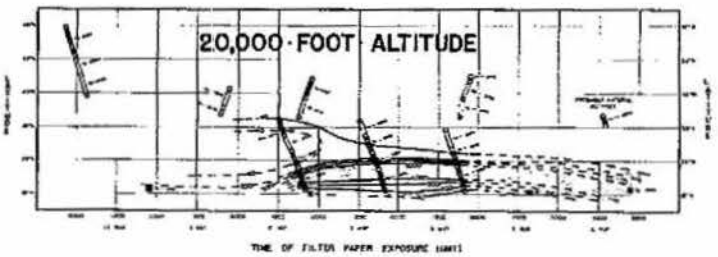

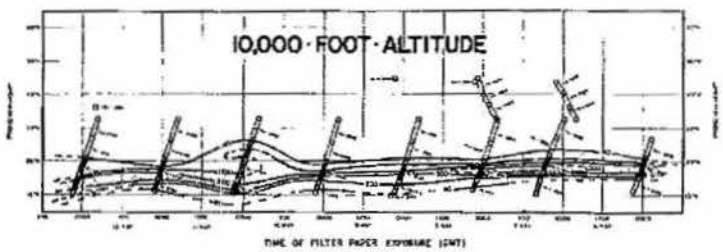

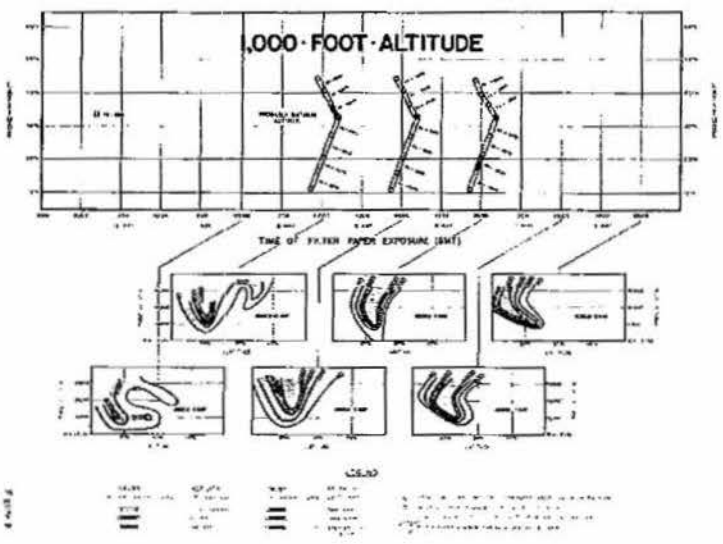

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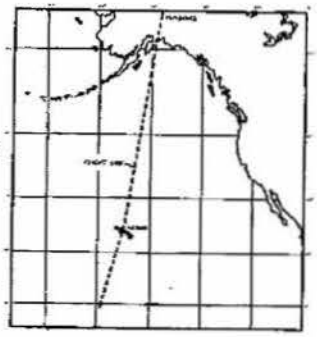

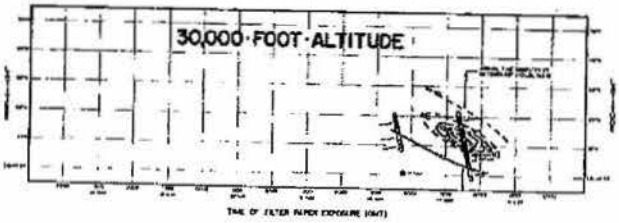

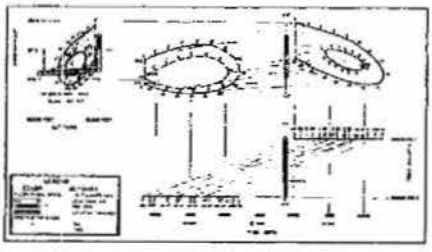

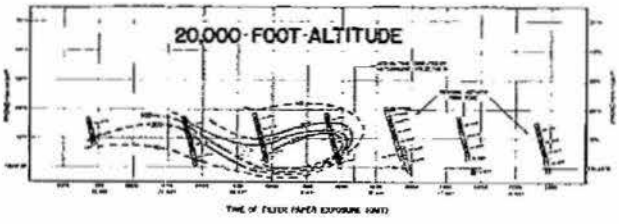

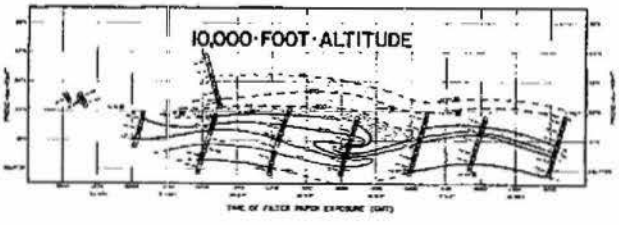

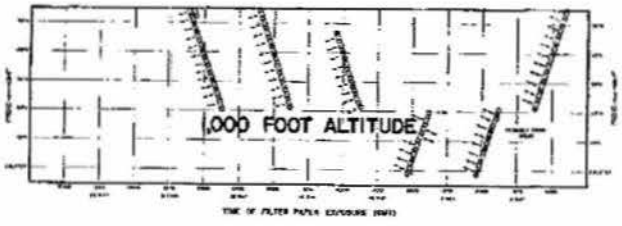

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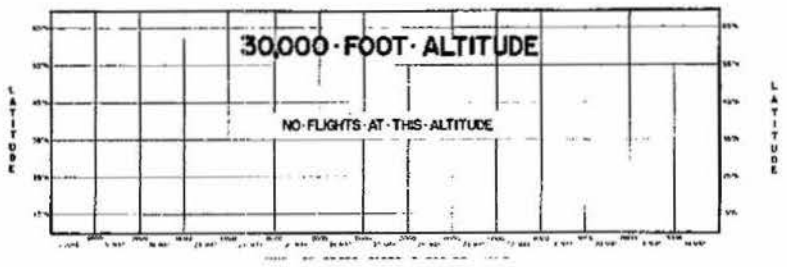

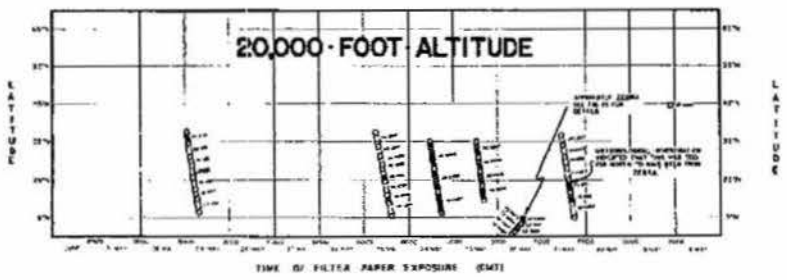

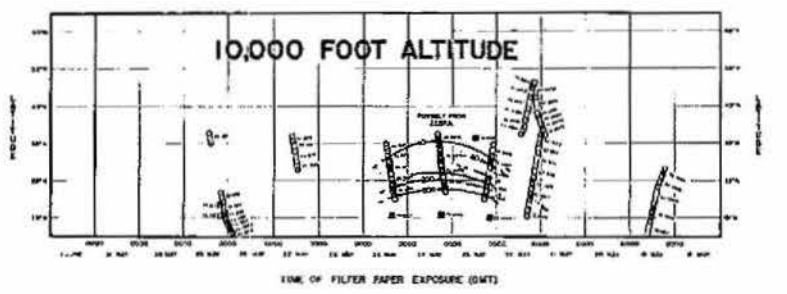

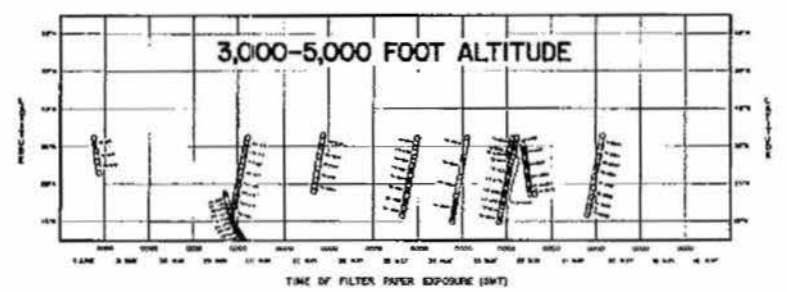

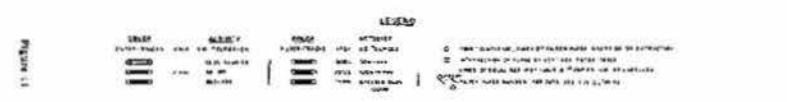

Where there were three or more adjoining (in time and space) filter papers producing different levels of activity from a flight at constant-altitude, the activity was plotted against distance, or time, travelled by the aircraft and smooth curves drawn to obtain an approximation of the true distribution of activity along the flight path of the aircraft. Figures 12a and 12b are included as illustrations. The curves were fitted by the balancing of areas.

There may be several practical applications of the technique described above. First, the completed curves are a necessity in making detailed analysis of the cloud structure. Secondly, these activity profiles may be used to compare filter results with data obtained simultaneously by instruments designed to give an instantaneous indication of the activity in the air, such as the atmospheric conductivity apparatus (reference Vol V, Tab A).

Activity profiles, as described above, were constructed for all of the significant filter data from the flights along the fixed tracks where there were three or more adjoining filters at the same altitude. The distribution of activity along the flight lines, as determined by these curves, was then transposed to the time cross-sections for use in the analysis of the cloud shape and internal structure.

On the time cross-sections, Figures 8, 9, 10, and 11, smoothed lines have been used to join points which are separated in time but are of equal activity. Each of these lines of constant activity is labeled for its value. The solid lines represent places where the value of activity has been uniquely fixed by use of an activity profile. The broken lines represent estimates.

Vertical cross-sections, altitude versus latitude, such as shown in Figure 10, have been drawn at intervals for constant values of time. The analyses on these sections have been arrived at entirely from the completed sketches on the horizontal plane. These vertical sections were useful in checking inconsistencies between different altitudes and in augmenting the analyses on certain of the horizontal sections. When viewed individually, these north-south vertical cross-sections, provide the only available pictures of the clouds having conventional dimensions and being synoptic. Each such section may be compared to a single frame on a motion picture film. By viewing a series of successive vertical sections, as in Figure 10, it is possible to visualize the change in shape and structure of the radioactive material, as a function of time, as it passed over the fixed flight lines. Here again, caution must be used in the interpretation, since the changes may have no meaning with respect to the change in structure as a function of position along the length of the cloud.

b. Discussion of Cross-Sectional Analyses for YOKE Cloud (Figures 8 and 9).

[redacted]

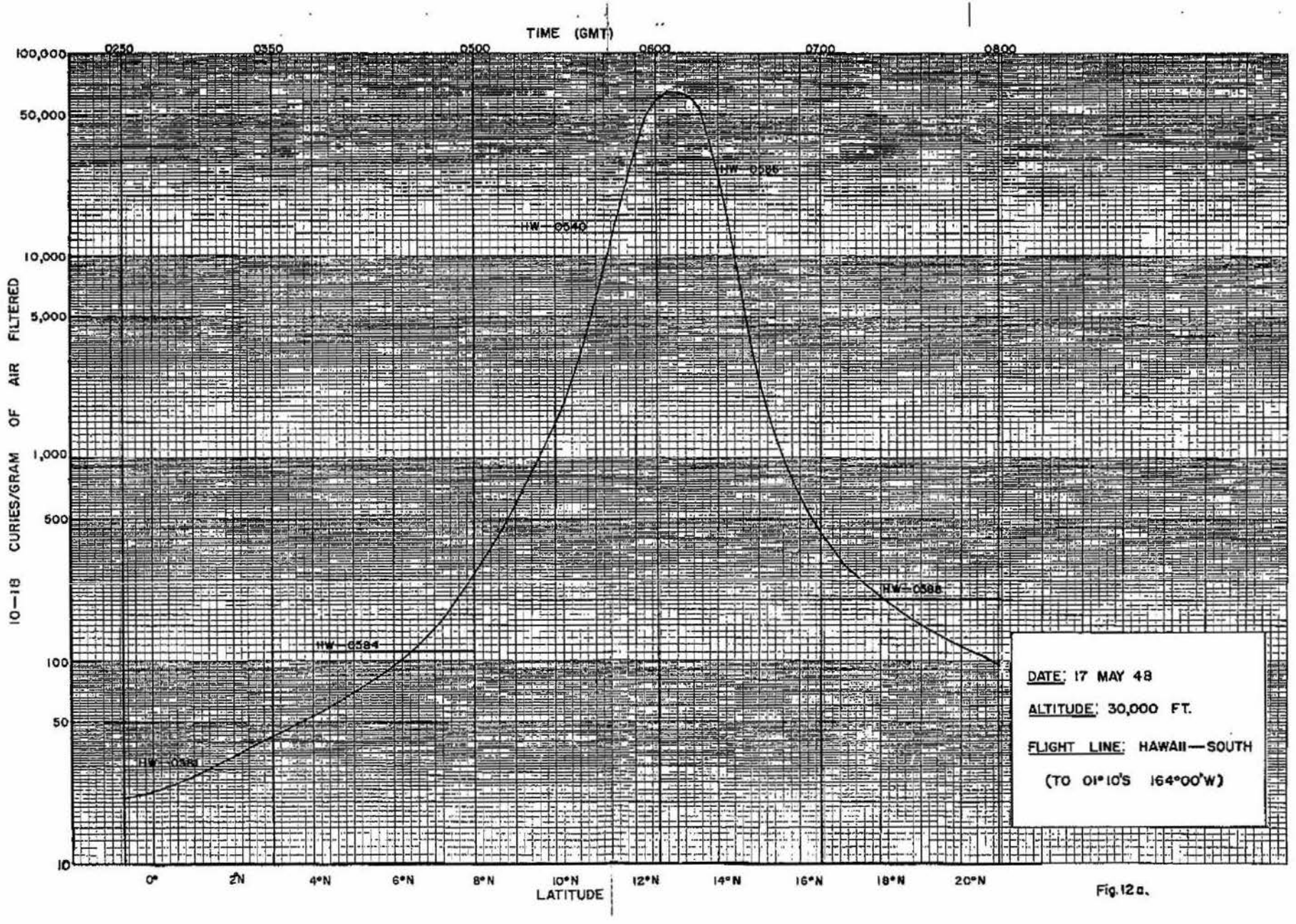
TIME (GMT)
0250
0350
0500
0600
0700
0800
100,000
50,000
10,000
5,000
1,000
500
100
50
10
10—18 CURIES/GRAM OF AIR FILTERED
HW-0540
HW-0586
HW-0584
HW-0588
HW-0581
DATE: 17 MAY 48
ALTITUDE: 30,000 FT.
FLIGHT LINE: HAWAII—SOUTH
(TO 01°10'S 164°00'W)
0°
2°N
4°N
6°N
8°N
10°N
12°N
14°N
16°N
18°N
20°N
LATITUDE

Fig. 12a.

A large number of the filters were exposed during ascent or descent of the aircraft and could not be used. Flights along this line which were made before the arrival of the YOKE cloud indicated that the air had been swept clean of XRAY material. The meteorology (Vol II, Tab A) is in agreement with this observation. However, there is some uncertainty as to where, with respect to time, the leading edge should be placed at each altitude since the early reports showed only borderline activity. Also, most of the early flights at 20,000 feet and 30,000 feet failed to make complete north-south traversals of the possible arrival area. The first arrival along the line could thus have been missed.

Of interest is the apparent "split" in this cloud on 5 May 1948. Up to the present time, no satisfactory explanation has been given for this phenomena. Lack of detailed wind information precludes the explanation of most such relatively minor features of the cloud structure. It appears likely, from activity profile studies, that a very hot "core" existed at 20,000 feet. Unfortunately, no filter aircraft passed through the cloud at this point.

c. Discussion of the Cross-Sectional Analyses for ZEBRA Cloud (Figures 10 and 11).

The ZEBRA cloud, as it was observed when passing south of Hawaii, appears to have been stretched out in the east-west direction while remaining stratified (in horizontal layers). The data to support this observation is very limited. However, the conclusions drawn from meteorology in Vol II, Tab A, Figure 14, are in agreement. The stratification of the ZEBRA cloud is even more apparent when Figures 8 and 14 of Tab A are compared. The filter flight observations which give evidence of the shallow slope and extreme thinness, in the vertical direction, of the ZEBRA cloud were made south of Hawaii. The "length", along axis of movement, of the ZEBRA cloud at 30,000 feet cannot be determined because of lack of sufficient data; however, indications are that the cloud at this level was quite "short". A "core" at 30,000 feet is well substantiated by the activity profile (see Figure 12a). Both the leading edge and the "core" at 20,000 feet are well defined. Putting these two sets of data together with simplifying assumptions, a gradually sloping "core" between 20 and 30 thousand feet can be drawn. Quite fortuitously, a pair of filter papers were exposed on a climb from 21 to 30 thousand feet (filter papers HW-0671 and HW-0672) directly through this "core". This pair of papers showed high activity. However, the filter papers exposed at level flight at both the base and the top of this climb were "cold". These data have been arranged as an insert between the 20,000 and 30,000 feet cross-sections in Figure 10, where descriptive geometry has been employed for the purpose of illustration.

The trailing portions of the ZEBRA cloud can be delineated at 20,000 feet on Figure 10; however, the ZEBRA cloud cannot be identified as such at 10,000 feet. Either the material from ZEBRA did not reach 10,000 feet at the longitude of Hawaii until after the last flight had been made at that altitude, or the ZEBRA material arrived at 10,000 feet in such small quantities that its arrival could not be distinguished against residual activity left by YOKE.

VIII. CONCLUSIONS

The aerial filtering experiments of Operation FITZWILLIAM [redacted] have proven that, under certain conditions where,

a. The time and place of detonation are known in advance,

b. The initial cloud is sufficiently high,

c. A sufficient number of filter aircraft are available and properly placed,

d. Meteorological reports along trajectory of the atomic cloud are available, and,

e. Where particulate debris, having certain sizes and densities, is produced by the fission,

[redacted]

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B	Report of Operation FITZWILLIAM [redacted] Final Report on Detection by Aerial Filtering. Tabular Listing of Flight and Nuclear-Measurement Data.

[redacted]

Report
of
Operation FITZWILLIAM

Vol II Tab A Copy No. 28

FINAL REPORT ON DETECTION BY AERIAL FILTERING
TRACKING
OF
AIRBORNE RADIOACTIVE MATERIAL
BY
METEOROLOGICAL METHODS

U. S. WEATHER BUREAU SCIENTIFIC SERVICES DIVISION

UNITED STATES AIR FORCE

[redacted]

[redacted]

Report

of

Operation FITZWILLIAM

Vol. II TAB A

Final Report on Detection by Aerial Filtering

(This document consists of 69 pages
Copy No. 28 of 125 copies, Series A)

Tracking

of

Airborne Radioactive Material

by

Meteorological Methods

U. S. Weather Bureau
F. W. Reichelderfer, Chief

Scientific Services Division
H. Wexler, Chief

UNITED STATES AIR FORCE

[redacted]

U. S. WEATHER BUREAU

SCIENTIFIC SERVICES DIVISION

SPECIAL PROJECTS SECTION

ACKNOWLEDGEMENTS

The authors wish to acknowledge the assistance rendered throughout the analysis of the data and the preparation of this report [redacted]. In particular, appreciation is expressed for the contributions of Dr. Donald H. Rock; 1st Lieutenant W. J. Malloy, USAF; and Mr. Philip Allen.

As is usual in a meteorological project of this type, a great quantity of material has been processed and prepared for analysis by assistants. The Meteorological Aids who assisted on this project were: Morris B. Braswell, James F. Cizedk, Mrs. Robert L. Kirkland, Miss Mary L. McBath, Mrs. Barbara F. Ritchie, and LeRoy R. Stapleford. Without the splendid work of these people, this report would not have been possible.

Acknowledgements are also due Mr. Harry L. Hamilton, Jr. and Mr. Robert J. List who, although not associated with the project during the period when the analysis was being made, contributed considerably to the preparation of this report.

Lester Machta
Miles F. Harris
Lester F. Hubert
Kenneth M. Nagler

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ABSTRACT

This report discusses the feasibility of employing meteorological tools for long-range tracking of radioactive clouds in the atmosphere. Material has been tracked forward from the time and place of atomic test explosions. In other cases, tracks have been started at the place and time of detection and carried back to the time of origin of the material. Trajectories traced over constant-level and over isentropic surfaces are considered. It is concluded that it is possible to utilize meteorology as a means of tracking radioactive material and that the results presented herein can be improved through more precise detection methods and through the collection of additional meteorological observations.

TRACKING RADIOACTIVE MATERIAL

BY

METEOROLOGICAL METHODS

I. INTRODUCTION

This phase of Operation FITZWILLIAM investigated the physical processes involved in the transport of radioactive material in the atmosphere and determined the meteorological techniques applicable to the long-range tracking of radioactive clouds.

During the Operation, airborne filters detected radioactive material from the Eniwetok (SANDSTONE) atomic bombs at great distances and for many days after each explosion. Meteorological processes were used in this study to explain the movement of the material from its point of origin to its point of detection. In addition, the meteorologist's ability to determine objectively the point of origin of the cloud, when given only the time and place of detection was tested.

Three (3) atomic bombs were detonated during Operation SANDSTONE. The first, given the code name X-RAY, was exploded at 1817 GMT, 14 April 1948; the resulting visible cloud rose to the base of the stratosphere, about 55,000 feet. The second, YOKE, was set off at 1807 GMT, 30 April 1948 and the cloud top likewise reached the base of the stratosphere. The third, ZEBRA, was detonated at 1804 GMT 14 May 1948; this cloud apparently rose to only about 30,000 feet.

The height to which each cloud ascended was determined by visual observations from nearby naval vessels. It is assumed that the top of the visible cloud shortly after the blast represented the maximum height reached by the radioactive matter.

II. PHYSICS OF PARTICLE TRANSPORT

The presence and configuration of the radioactive cloud at places removed from Eniwetok can be explained by reference to conventional physical laws which govern the movement and spreading of small-size particulate matter. The prime factors which must be considered are: (a) transport by the horizontal component of the wind; (b) descent of the particles that are large enough to have an appreciable fall-out speed; (c) diffusion resulting from the turbulence of the atmosphere; and (d) vertical components of large-scale atmospheric motions, which the meteorologist treats separately from the horizontal wind.

A. HORIZONTAL TRANSPORT

First in importance in the transport of particulate matter is the horizontal component of the wind. With adequate meteorological observations it is possible to prepare charts, called streamline charts, depicting the broader features of the horizontal flow. It is probable, however, that only the smaller of the particles forming

the cloud of radioactive material can move in this approximately horizontal fashion since the rate of settling of the larger ones is far from negligible.

That portion of the original cloud matter that does not experience fall-out during its trajectory, i.e., is moved by the wind only, is referred to hereafter as the primary cloud. Initially the primary cloud is approximately a vertical column, but the variation of the wind velocity with height rapidly distorts this simple structure.

B. FALL-OUT

The second factor which affects the trajectory of the radioactive cloud and which can be treated in actual cases is the gravitational settling-out of the particles. Although all particulate matter is attracted to the earth, the viscous forces of the atmosphere tend to reduce the effect of gravity on very small particles so that their rates of fall may be considered negligible. Analysis of particle sizes from the SANDSTONE tests, while not complete at this writing, suggest that the range in particle radii (from 1 to 20 microns) was sufficient to permit nearly horizontal transport and also a wide range of fall-out velocities.

It may be shown that an initially vertical column of particulate matter with varying rates of fall-out is gradually transformed into

a sheet or surface — oriented parallel to the wind flow and having a thickness equal to the diameter of the original column -- regardless of variations of wind speed and direction with height and time. The lateral growth of the cloud at a given altitude therefore cannot be considered a consequence of fall-out but must result from diffusion.

If a radioactive cloud consists of particles large and heavy enough to fall to lower levels, it is possible to compute certain data regarding the leading and trailing edges, despite the fact that the exact rate of fall of each particle is unknown. The following discussion illustrates the theory that inter-relates the time of passage of the leading edge of a cloud of particulate matter over a given observation point, the rate of fall of the particles comprising the leading edge, the rate of fall of particles comprising the trailing edge, and the location of the leading and trailing edges after any given time interval.

Assume, for simplicity, that the air motion is horizontal, from west to east at all elevations, unchanging with time, and invariant in any horizontal plane. Suppose that it is desired to find the original position of particles forming the leading edge of a cloud detected at the six-kilometer level. In order to be at the leading edge, these particles must have traveled with a higher mean speed between the explosion and detection time than any other particles at the six-kilometer level. Figure 1 - a hypothetical profile of the mean wind speed at all elevations up to 22-kilometers, shows a maximum wind speed at some level above six-kilometers. Since

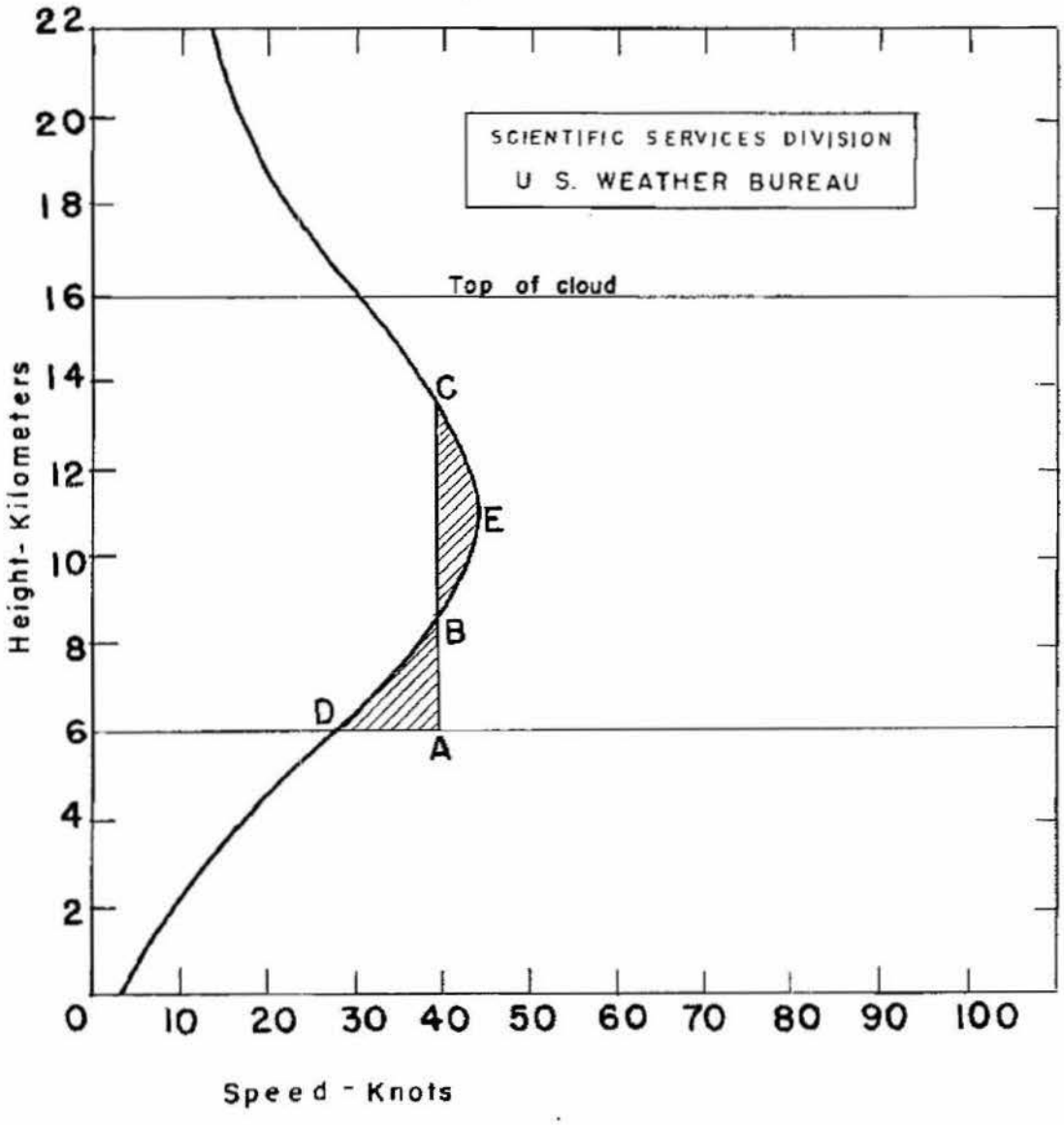


Figure 1. HYPOTHETICAL MEAN WIND PROFILE. Showing computation of mean wind speed in layer above six kilometers

slowly falling particles obtain a horizontal speed approximately equal to the speed of the wind in the layer through which they are falling, the problem becomes one of finding the layer having a base at six-kilometers, through which the mean wind speed was a maximum. The top of this layer is the elevation from which a particle descended in order to reach the six-kilometer level at the time of detection; the mean wind speed in the layer is the average speed at which the particle has traveled. This determination of the distance fallen and the mean speed of a leading edge particle at six-kilometers is shown graphically in figure 1. The areas ABD and BCE must be equal so that the ordinate AC represents the mean speed of the layer AC. The ordinate AC must be chosen so that it is the farthest to the right, i.e., represents the greatest mean speed, of all the ordinates for which the areas ABD and BCE can be made equal. In this example, the height from which the parcel descended, C, was 13.5 kilometers and the mean speed, determined by the ordinate AC, was 40 knots.

After the determination of the maximum mean speed and the height from which the particles fell, other information concerning the leading edge of the cloud may be computed. Given the time of the explosion and the distance of the observation point from the explosion, the time of passage of the six-kilometer leading edge is calculated by dividing the distance is found by multiplying the mean speed by the travel time. The rate of fall is also easily computed from the thickness of the layer through which the particle falls and the time required to pass through this layer.

It is evident that this technique can be used for other levels as well as the six-kilometer one.

Computations similar to the above for particles on the trailing edge of a cloud of particulate matter can be made by determing the particle that has been subjected to the slowest mean speed during its travel from its initial position in the cloud to its position at the time of detection. When the wind profile is typical and the cloud extends above the level of maximum wind speed, the particles last to reach the detection line are falling particles for any level of detection above a critical elevation. This critical elevation is generally somewhat below the level of the maximum wind speed and is that level at which the wind speed equals the lowest mean wind speed for the layer above through which a particle might have fallen. Below the critical elevation, the trailing edge is comprised of those particles that have traveled approximately horizontally, i.e., the primary cloud. In situations where the cloud top does not extend to the level of the maximum wind speed, the primary cloud represents the trailing edge of the particulate matter at all levels (see discussion of ZEBRA test, Section IV, B.).

Actually, air motions are neither purely horizontal, directly west-east, unchanging with time, nor invariant in a horizontal plane. Accordingly in practice this simple procedure for obtaining information concerning the leading or tailing edges must be appreciably modified. For investigation of the transport of the radioactive clouds during

the SANDSTONE tests however, it has been found that the mean wind profile technique, using the speeds along the trajectories rather than the west-east components, satisfactorily describes the airflow. The above method is applied to the YOKE and ZEBRA tests in which the cloud trajectories are determined only as far east as a line south of Honolulu.

C. DIFFUSION

A third highly significant physical process involved in the movement and growth of a cloud of particulate matter is the diffusion resulting from atmospheric turbulence. Unfortunately, little is known about diffusion in general and less about diffusion in the upper atmosphere. It is known that the spread of clouds of matter occurs in all directions and that the process is by no means isotropic. Diffusion is not specifically treated in the investigation but is used to furnish a possible explanation for the detection of radioactive matter in certain areas where its presence cannot be accounted for by horizontal transport and/or fall-out.

D. VERTICAL MOTIONS

A further complicating factor in the transport of the radioactive cloud is the existence of vertical components in atmospheric motions. The elements with which these upward and downward movements are associated range in size from those so small as to be classed as turbulence eddies to those many hundreds of miles in diameter. Only the large elements can be treated by present-day synoptic meteorological techniques.

In order to obtain a three-dimensional picture of the large-scale airflow, the meteorologist assumes that there is no exchange of heat between air parcels and their environment and that the parcels thus conserve their entropy. Using this assumption, it is possible to construct charts of isentropic surfaces, that is, surfaces composed of all air parcels having the same entropy. Tracing air movements along isentropic surfaces permits one to follow the same particles from day to day.

An isentropic surface is identified by its potential temperature -- the temperature that a parcel would acquire if compressed or expanded, without gain or loss of heat from its environment, to a pressure of 1,000 millibars. In the mid-latitudes the isentropic surfaces normally slope upward toward the north but in the tropics are approximately horizontal. This indicates that the large-scale airflow in tropical areas is almost horizontal.

A picture of the instantaneous air motions on the isentropic surfaces is found by plotting the vectors of the observed winds at the elevation of the isentropic surface and drawing a set of streamlines parallel to the wind vectors. The spacing of these lines is made inversely proportional to the wind speed.

The isentropic charts shown in this report contain streamlines in the area south of about 25° north latitude. North of this latitude a different system is employed. Based on certain theoretical considerations, it is possible to compute isentropic streamfunction values from pressure and temperature observations and from these

values to draw a set of isolines. The direction and spacing of the isolines determines the geostrophic wind, a hypothetical wind which exists if the pressure gradient and the earth's Coriolis accelerations exactly balance. The geostrophic wind is known to give a very good approximation to the observed wind north of about 25° north latitude. Through the use of observed and geostrophic wind velocities it is possible to describe the instantaneous airflow at every point on the isentropic surface even though that surface is not horizontal.

E. TRAJECTORY COMPUTATION

Defining the instantaneous wind speed and direction at every point in the atmosphere is the first step in the process of determining the trajectory of air parcels. A convenient and relatively simple technique for computing trajectories was used in this investigation. Figure 2 - shows sections from two (2) isentropic charts for the same potential temperature value, spaced twelve (12) hours apart. Suppose point A in the upper figure is a point at which radioactive material was detected at 0300 GMT, 21 April 1948, and that it is desired to trace a particle of the material backwards in time. Based upon the chart prepared for the detection time the particle would have originated at point B had the wind pattern remained constant for the twelve-hour period preceding detection time. However, as seen in the center section of the figure, which represents the chart twelve (12) hours earlier, the pattern had changed. Assuming now that this airflow pattern had persisted for the twelve (12) hours previous to detection time, the

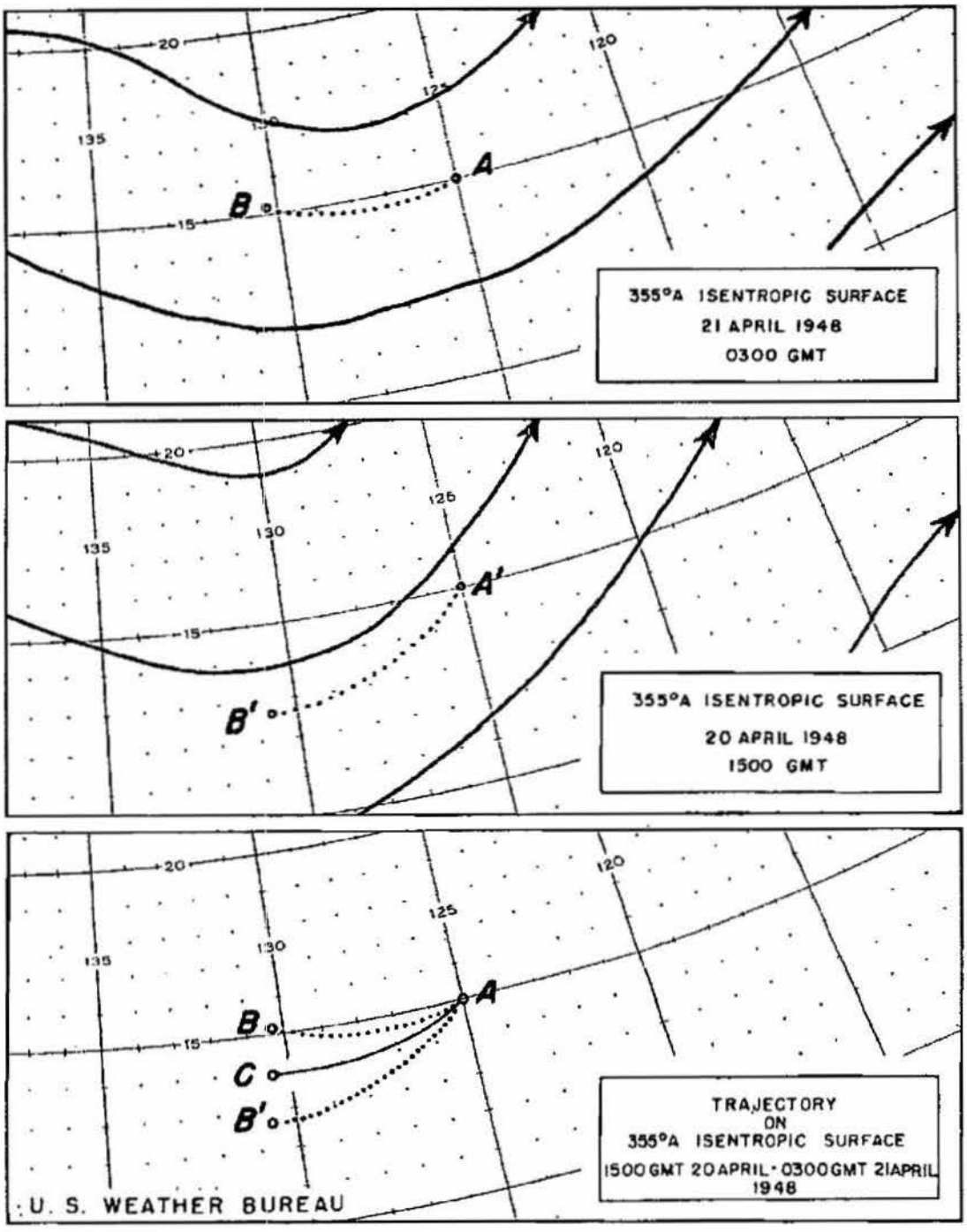


Figure 2. CHARTS SHOWING METHOD OF COMPUTING TRAJECTORIES

radioactive material would have been located at point B'. The true location twelve (12) hours prior to detection time is considered to be midway between B and B', or at point C, and the actual path is given approximately by the line CA. Using point C as a new origin it is possible to repeat this operation and locate the particle twenty-four (24) hours previous to detection time, and so forth until the time of the explosion is reached.

Certain refinements in trajectory techniques are possible, but are not worthwhile in the light of the quality and quantity of weather observations in the are being considered.

III. DATA AND ANALYSES UTILIZED

A. METEOROLOGICAL DATA AND CHARTS

All upper air observations for the northern hemisphere are employed in the study with emphasis being placed on obtaining, insofar as was possible, original records for the Pacific Ocean area. The quality of the observations taken in tropical regions is not as satisfactory as the quality of those from middle latitudes for numerous reasons. Further, as is evident from the maps shown later in this report, vast areas of the Pacific Ocean are entirely void of any meteorological observations. Since assumptions upon which the geostrophic wind equations are based are not valid in the tropics, winds computed from the pressure observations are useless, and direct wind observations are of utmost importance. Fortunately, the greater number of wind observing stations were equipped with radio direction-finding

apparatus permitting wind measurements to very high elevations. In certain areas of the Pacific Ocean the network of reconnaissance aircraft was very dense and would have proven invaluable had the reports been at all reliable.

The map analyses were not performed under operational stress but under research conditions with an emphasis on extracting as much from the meagre observations as was possible. In the course of the investigation the following tools were employed: constant-level charts, isentropic charts, time-height cross sections, reconnaissance maps, and wind profiles.

It is perhaps worth noting that the SANDSTONE explosions, because they were located in the tropics, were not ideal for meteorological study. It has already been pointed out that the geostrophic wind, which plays a vital role in mid-latitude meteorology, is of no use in the tropics. Second, nowhere in the northern hemisphere except in the tropics are there such large areas which contain no weather observation stations. Lastly, intense studies of tropical weather models as guides for analyses were begun only recently and knowledge of tropical meteorology is consequently far inferior to that of middle latitude meteorology. Only in the lack of large-scale vertical motions are the tropics better suited to trajectory studies than the middle latitudes.

B. RADIOLOGICAL DATA

The details of the radiological data are presented elsewhere in the report. TAB B, Vol II, Report of Operation FITZWILLIAM lists the

observations in tabular form. The observation flights were not well organized for the cloud detection following the X-RAY explosion; consequently, the location and delineation of the cloud by means of the radiological reports are not satisfactory. The flights made along the line south of Honolulu after YOKE and ZEBRA, while leaving much to be desired, presented a more complete picture of the cloud movement across the flight line, which could be checked by meteorological analysis. It should be noted that the flights never ascended above 30,000 feet even though the clouds were observed to have gone above 30,000 feet immediately following the explosion. It would have been very desirable to have located and delineated the clouds at the level of maximum wind speed, about 40,000 to 45,000 feet.

IV. INVESTIGATION OF YOKE AND ZEBRA TESTS

The radiological data for the YOKE and ZEBRA tests are best suited to the investigation of the following problem:

> Given the time and place of an atomic explosion, would it be possible to predict the time of passage of the radioactive cloud past a given flight line and to predict certain of its physical properties?

[redacted]

In practice it may be presumed that some method of detection will give the time and place of an atomic explosion and that the cloud will ascend to the base of the stratosphere only. Based on this premise, can the meteorologist reliably vector aircraft at the proper time and to

the proper place to filter the radioactive material originating from the explosion?

A. YOKE TEST

Following the YOKE blast, routine flights at various altitudes were made along the line south of Hickam Field, T. H., shown in Figure 3. The meteorological study is confined to the area between Eniwetok and the flight line. The location of the observation stations may also be seen in Figure 3. The features of the upper air flow pattern, as found on the isentropic charts and reconnaissance map near the time of the explosion, are displayed in Figures 4 - d and 5. Employing these isentropic charts, as well as those for succeeding days and other related meteorological data, the path of the primary cloud mass was computed until it either crossed the flight line or definitely showed that it would not. Trajectories were prepared for several heights, a few of which are illustrated in Figure 6.

As is well known to meteorologists, the lower layers of the tropical atmosphere normally move toward the west as the trade winds. The upper layers frequently, as during this period, move to the east as westerly winds along with the westerlies of the middle latitudes. The dividing level between the westerlies and easterlies for the YOKE trajectories was approximately seven-kilometers (22,000 feet). Thus the cloud below seven-kilometers moved toward the west and that portion of the initial cloud mass never passed the flight line as far as could be ascertained by this study.

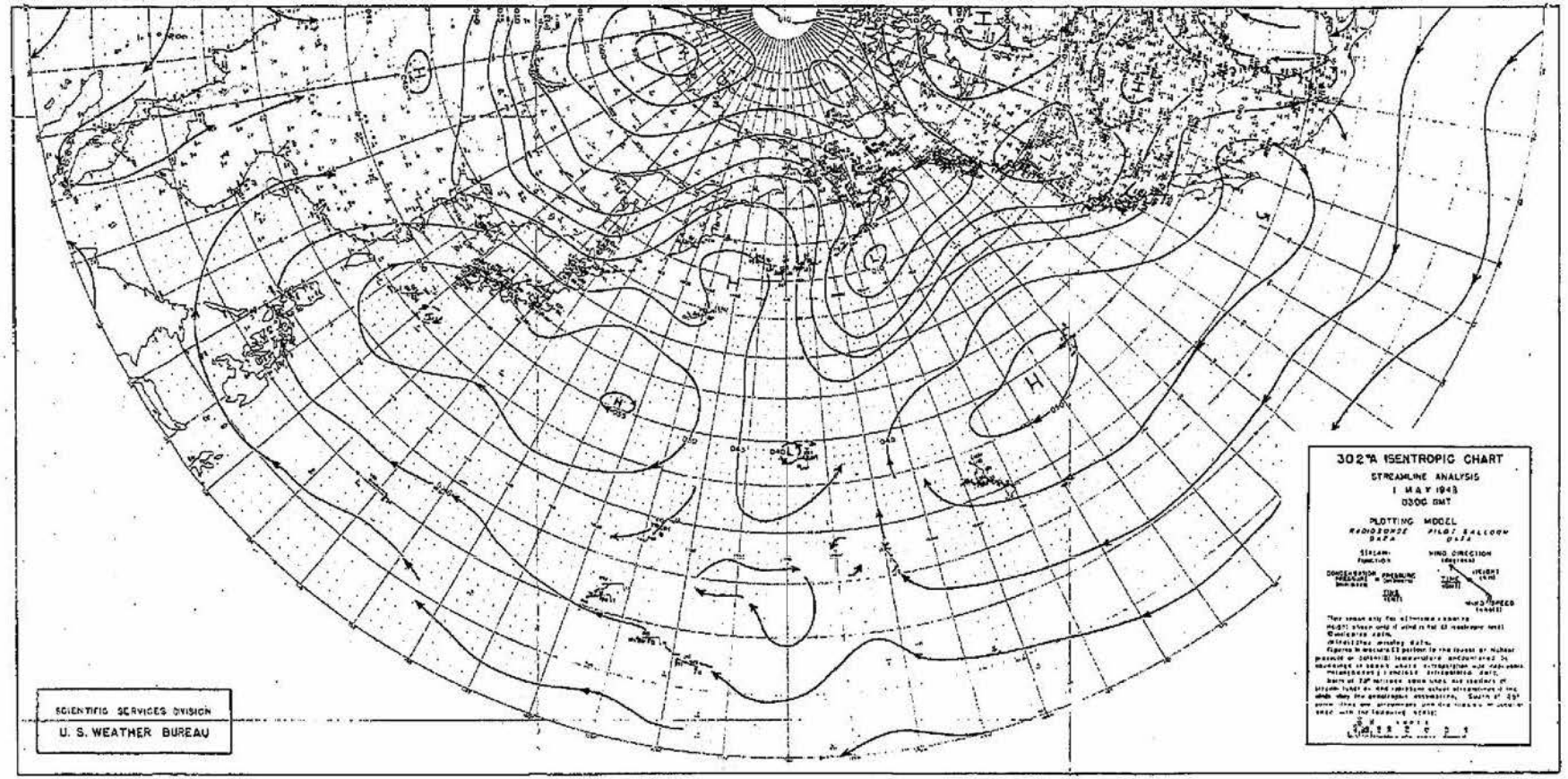


Figure 4a. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES. 0300 GMT, 1 May 1948. 302°A Surface

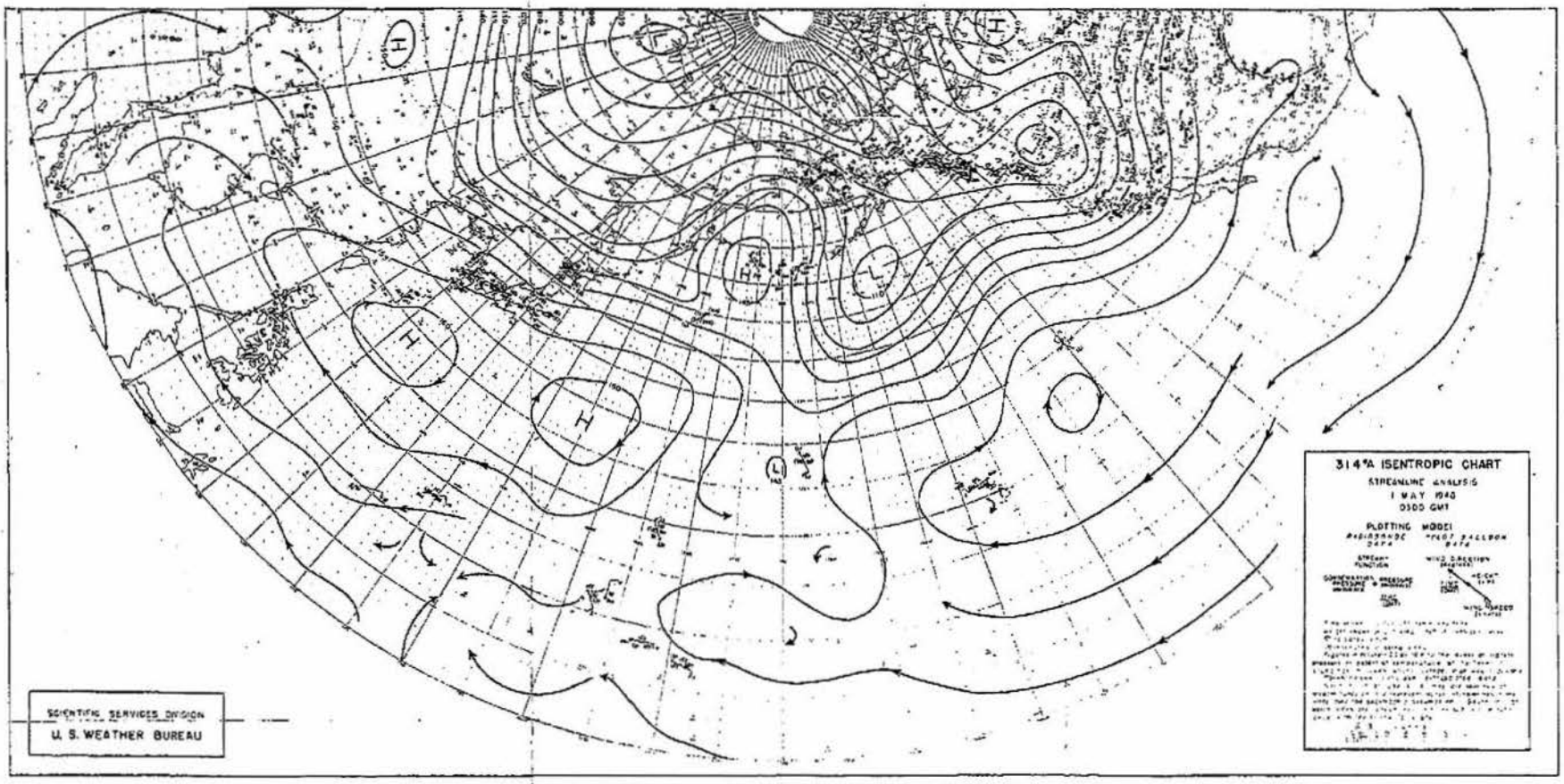


Figure 4b. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES, 0300 GMT, 1 May 1948. 314°A Surface

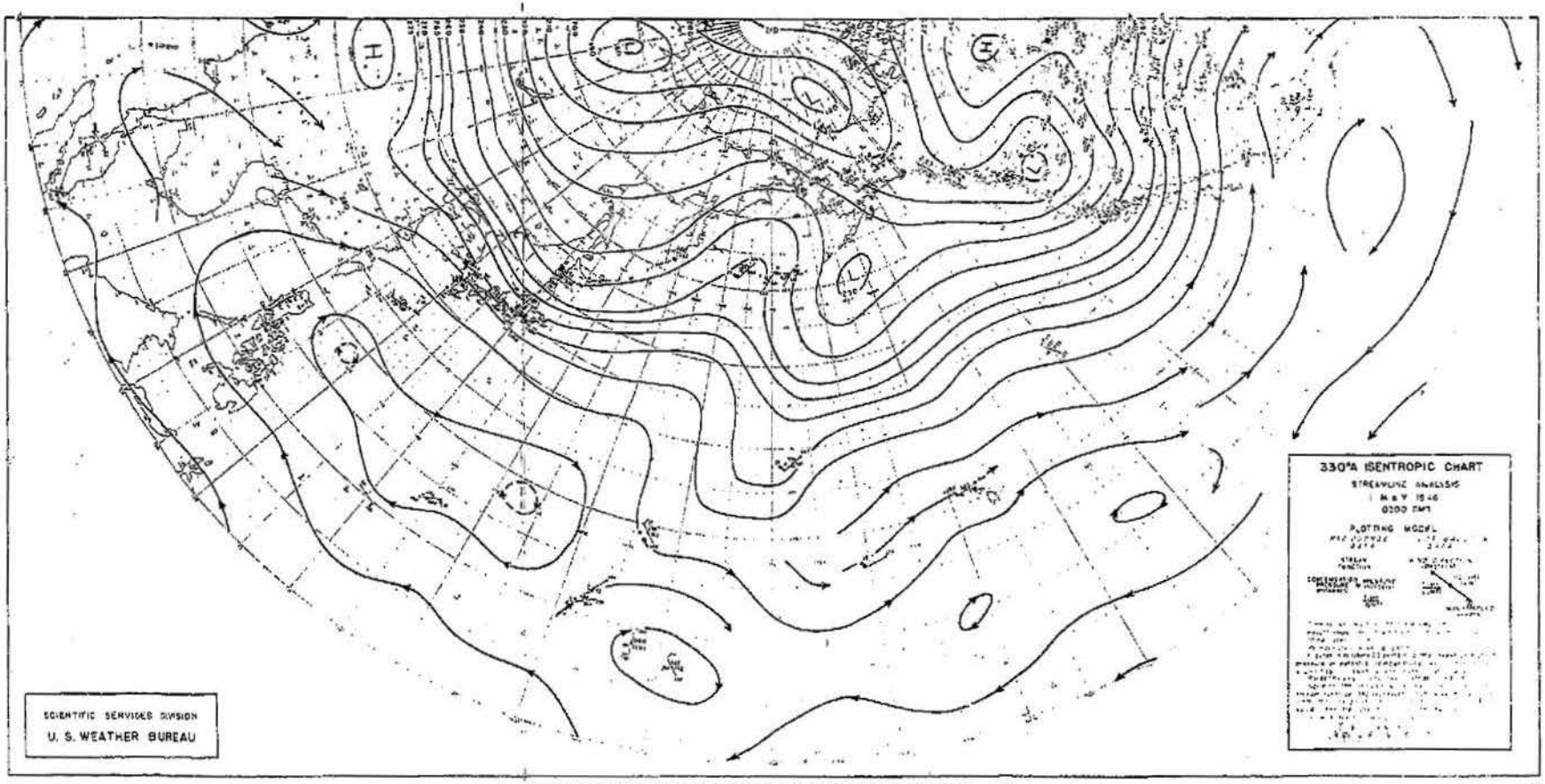


Figure 4c. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES, 0300 GMT, 1 May 1948. 330°A Surface

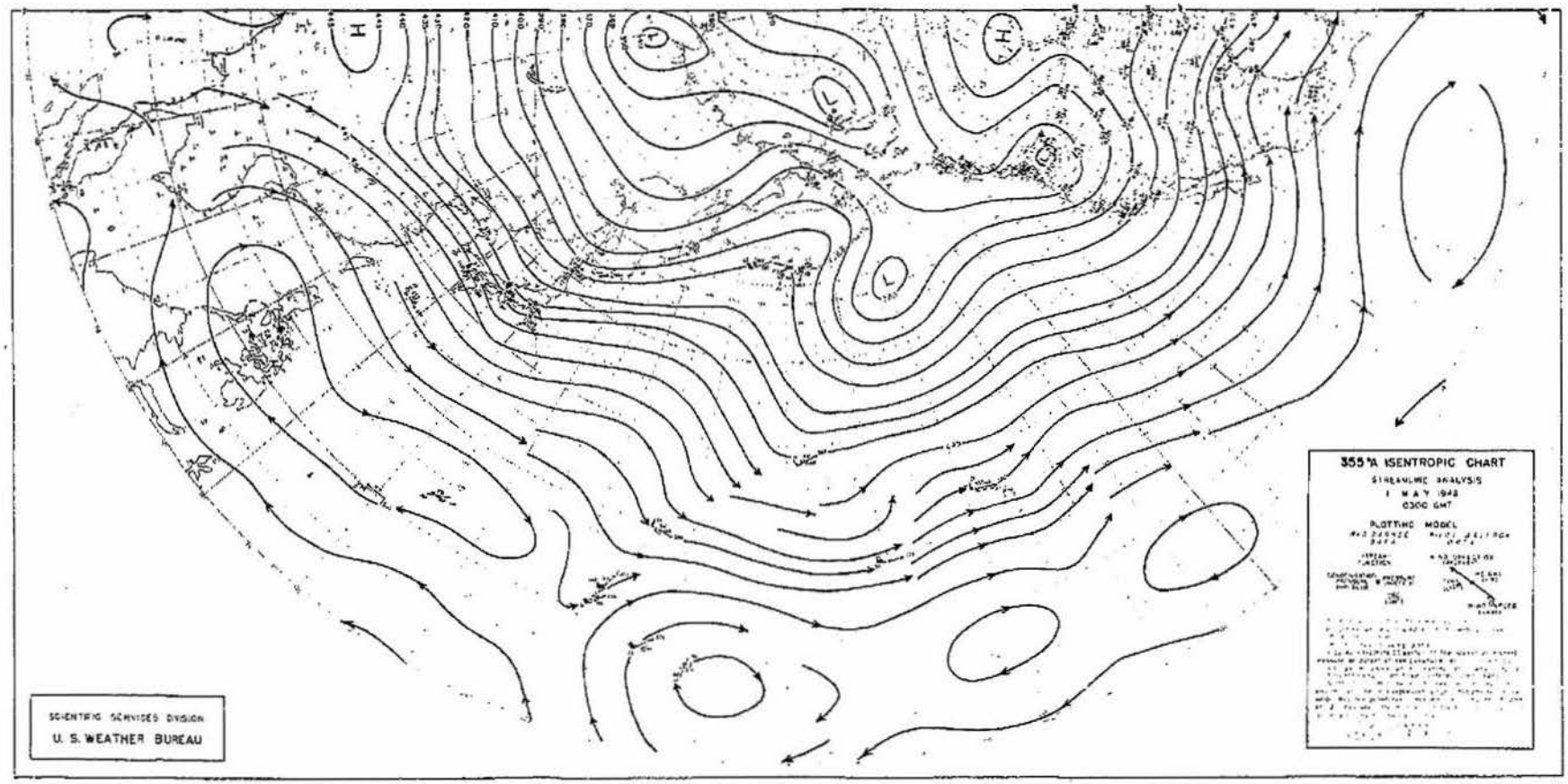


Figure 4d. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES, 0300 GMT, 1 May 1948. 355°A Surface

The top of the YOKE cloud was slightly under seventeen-kilometers (55,000 feet). It is that portion of the cloud between seven kilometers and the top that was considered in this portion of the study. The appearance of this segment of the original cloud forty-five (45) hours after H-hour is shown in Figure 7. It is seen that the cloud has undergone the most rapid motion eastward at the twelve-kilometer level and that above and below this level it trails toward the west. This figure is a schematic representation of the primary cloud mass only and shows the appearance that the cloud would have without fall-out or diffusion.

1. Leading and trailing edges of YOKE cloud.

[redacted]

The mean wind profile employed for the study is shown in Figure 8. The portion of the profile from seven to seventeen-kilometers represents the mean speed of the wind along the trajectories at each level during the first forty-

[redacted]

Figure 8 also gives an example of the method by which the arrival time of the leading edge at 30,000 feet is computed. By trial and error it is found that the particles originated at 48,300 feet and had a mean horizontal speed of 59 knots. The distance between Eniwetok and the detection line is about 2350 nautical miles. The travel time was therefore 2350 divided by 59 or about 40 hours from Eniwetok to the detection point. The rate of fall is found by dividing 18,300 feet (48,300 - 30,000 feet) by 40 hours and multiplying by 24 hours per day to yield the mean rate of fall, 11,000 feet per day.

The summary of the computations of the arrival times of the cloud at various levels along the flight line is shown in Figure 9. The solid curve indicates the time of arrival of primary cloud* mass at the flight line. These times are readily computed by dividing the distance traveled by the speed at the indicated level in Figure 8. At seventeen kilometers, it should be noted, the trajectory showed that the primary cloud came within sixty (60) miles of the flight line and then recurved. This trajectory has been extended this short distance to make it intersect the flight line.

The dashed curve in Figure 9 indicates the time of passage of the leading edge across the flight line. It is seen that above twelve (12) kilometers the leading edge and the primary cloud coincide. This follows from the fact that above twelve (12) kilometers the wind speed decreased, so a particle moving horizontally has a greater mean speed than one falling from above.

*As defined in Section II - A.

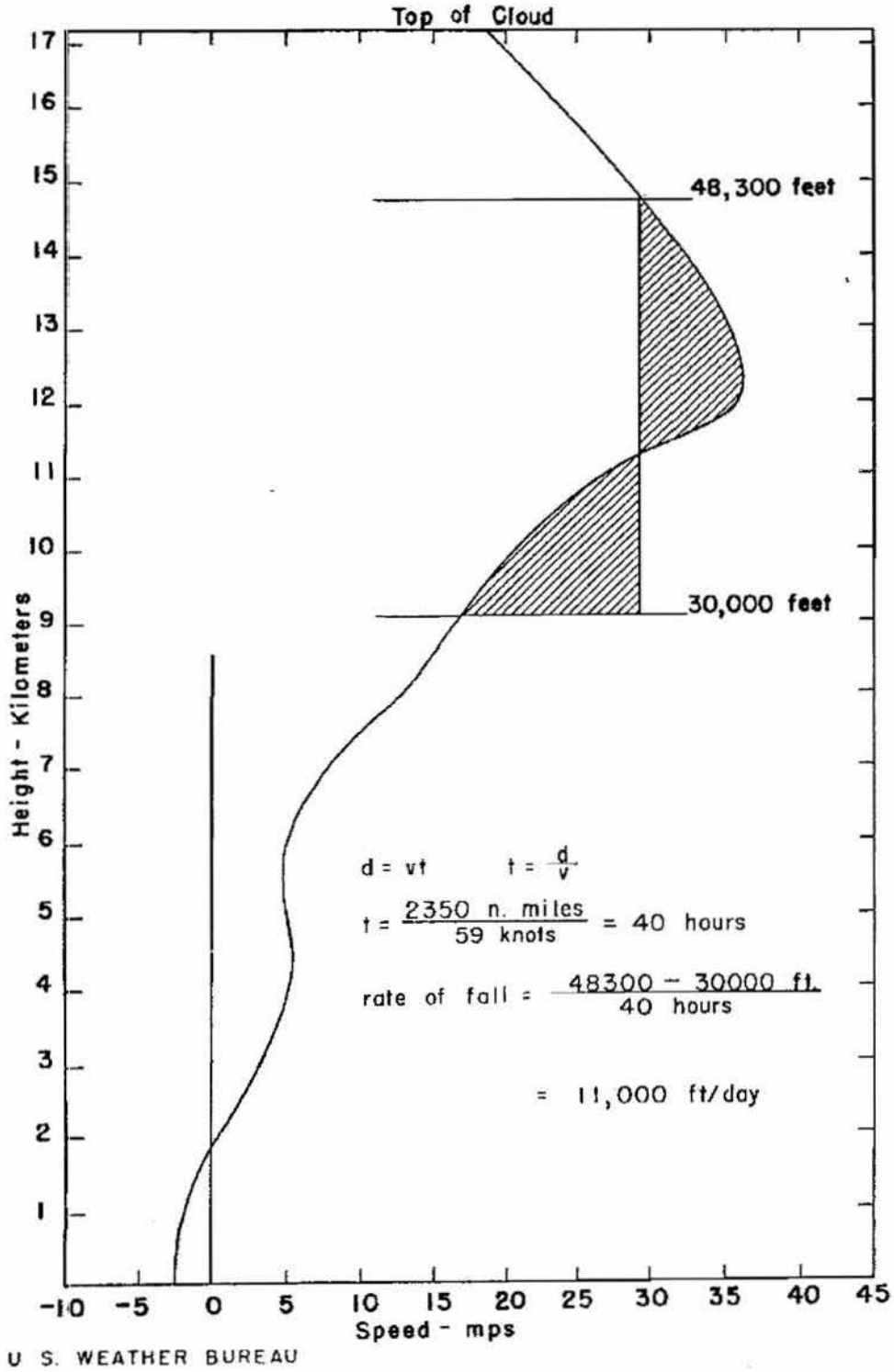


Figure 8. MEAN WIND PROFILE—*YOKE*. Showing computation of rate of fall of particles reaching the 30,000 foot level

The dotted curve in the upper part of the graph represents the trailing edge of the fall-out curtain of the cloud. It is noted that below about eleven (11) kilometers the primary cloud mass is also the trailing edge.

The time during which the cloud is passing the flight line is given by the stippled area in the figure. This area includes the primary and fall-out cloud but neglects any particles that may have been spread by diffusion. The stippled area, or at least the leading edge of the cloud, may be verified by the observed radiological data that is plotted on the graph.

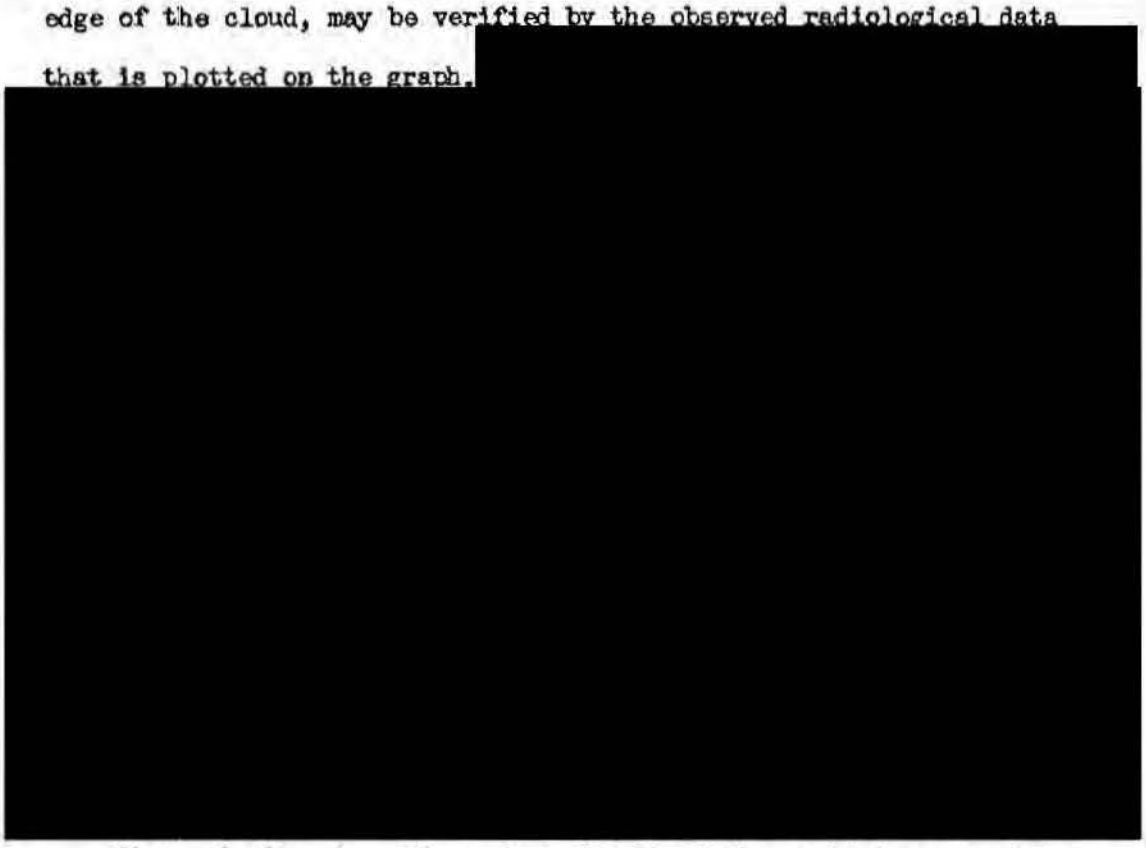


Figure 9 also shows the rates of fall of the particles comprising the leading edge and the latitude at which the leading edge was predicted to pass the flight line.

By techniques analogous to those used for the particles forming the leading edge of the cloud, it is possible to compute the rates of fall of particles in other portions of the cloud. Rates of fall of particles actually filtered by flights have thus been evaluated, theoretically, from the meteorological data and are shown in TABLE I. It is noted that this table gives only the rate of fall, whereas filter analysis will give only particle size. If, however, the rate of fall and particle size, shape and density are compared (when the latter information becomes available) it may be possible to verify the rate of fall predicted by Stokes' or some similar law.

TABLE 1. Distribution of Fall-Out Velocities — YOKE

(1) Filter Number*	(2) Level of Detection (Feet)	(3) Time of Fall (Hours)	(4) Mean Speed (Knots)	(5) Starting Elevation (Feet)	(6) Distance Fallen (Feet)	(7) Rate of Fall (Ft/day)
0206 0207	1,000	76	31	54,000	53,000	16,800
0228 0229	1,000	123	19	37,200	36,200	7,600
0295 0296	1,000	97	24	40,400	39,400	10,000
0298	1,000	98	24	39,400	38,400	9,400
0323 0324	1,000	96	24	41,500	40,500	10,100
0425 0426	1,000	172	14	32,200	31,200	4,380
0465 0466	1,000	150	16	33,800	32,800	5,250
0175	10,000	76	31	40,000	30,000	9,470
0309 0310	10,000	108	22	34,800	24,800	5,510
0327 0328	10,000	98	24	36,000	26,000	6,360
0184	20,000	80	29	35,500	15,500	4,760
0187	20,000	81	29	34,000	14,000	4,150
0190 0191	20,000	83	28	34,000	14,000	4,060
0337 0338	20,000	103	23	30,000	10,000	2,330
0359 0360	20,000	130	18	27,000	7,000	1,290
0375 0376	20,000	133	18	26,200	6,200	1,120
0222 0223	30,000	84	28	30,000	0	0
0263 0264	30,000	53	44	36,100	6,100	2,760
0267	30,000	55	43	35,500	5,500	2,400

*All Filter Numbers given in this table are preceded by the letters "HW".

(1), (2) -- Filter number and level at which filter was exposed. Data furnished by Technical Analysis Branch, AFOAT-1, USAF.

(3) -- Elapsed time, from H-hour to time of detection of sample.

(4) -- Length of mean trajectory (2350 nautical miles) divided by the time in column (3).

(5) -- Level from which sample is assumed to have fallen. This level was found by recourse to the mean wind profile (Figure 8) and was chosen so the wind speed in column (4) is the maximum mean wind speed in the layer between the level of detection (column 2) and the starting elevation (column 5).

(6) -- Difference between the starting elevation (column 5) and the level of detection (column 2).

(7) -- Distance fallen (column 6) divided by the time of fall (column 3).

2. Summary of YOKE test study.

It has been shown, through the use of meteorological tools, that the time of arrival at an observation line of the primary cloud mass, and the leading and trailing edges of the fall-out curtain can be predicted if the time and the place of the atomic explosion producing the cloud and the height attained by the initial cloud are known. In addition, the rates of fall of particles forming various portions of the cloud can be derived. The meteorological results are in full agreement with the available radiological data.

B. ZEBRA TEST

The techniques and aims described for the YOKE test were repeated for the ZEBRA cloud. The meteorological network and observation-flight line shown in Figure 3 again represented the source of the available meteorological and radiological data. The main difference between YOKE and ZEBRA, as far as factors affecting the transport of particles is concerned, was the maximum height to which the initial cloud ascended -- YOKE to 55,000 feet and ZEBRA to only 30,000 feet. The two tests also differed in their radiological aspects since remnants of the YOKE cloud were still in the vicinity of the flight line when the ZEBRA cloud arrived. (The X-RAY cloud appeared to have completely cleared away before the arrival time of the YOKE cloud).

The meteorological conditions at the time of the ZEBRA test are shown on the constant-level charts, Figures 10a to 10c and on the reconnaissance map, Figure 11.

The trajectories at the seven-, eight-, ten- and twelve-kilometer levels are shown in Figure 12. The seven-kilometer trajectory ultimately passed north of the flight line. The average speeds along the appropriate trajectories were used in the preparation of the mean wind profile between the eight- and twelve-kilometer levels. Below eight-kilometers, the average west-east components of the wind observed at Johnston Island and Honolulu for the period from 1500 GMT, 17 May to 1500 GMT, 22 May 1948 were used. The composite mean wind profile is shown in Figure 13.

1. Leading and trailing edges of ZEBRA cloud.

Figure 14 has been prepared in a manner similar to Figure 9, which illustrated the YOKE cloud. The solid curve in Figure 14 represents the forecast time of arrival of the primary cloud mass at all elevations up to 12-kilometers. However, two different solutions for the arrival time have been made. The reason for the alternative solutions is that some uncertainty exists as to the initial height attained by the cloud resulting from the ZEBRA detonation. According to visual observations, the main portion of the cloud reached a height of only 28,000 feet; however, a detached portion extending another 5,000 feet upward was described by observers as a finger-like projection which seemed comparatively slender and attenuated. Moreover, radiological detection by balloon ascents indicated that the top of the cloud may have been as high as 40,000 feet. Consequently, there is some doubt as to the maximum height from which particles may have fallen. The choice was rendered critical by

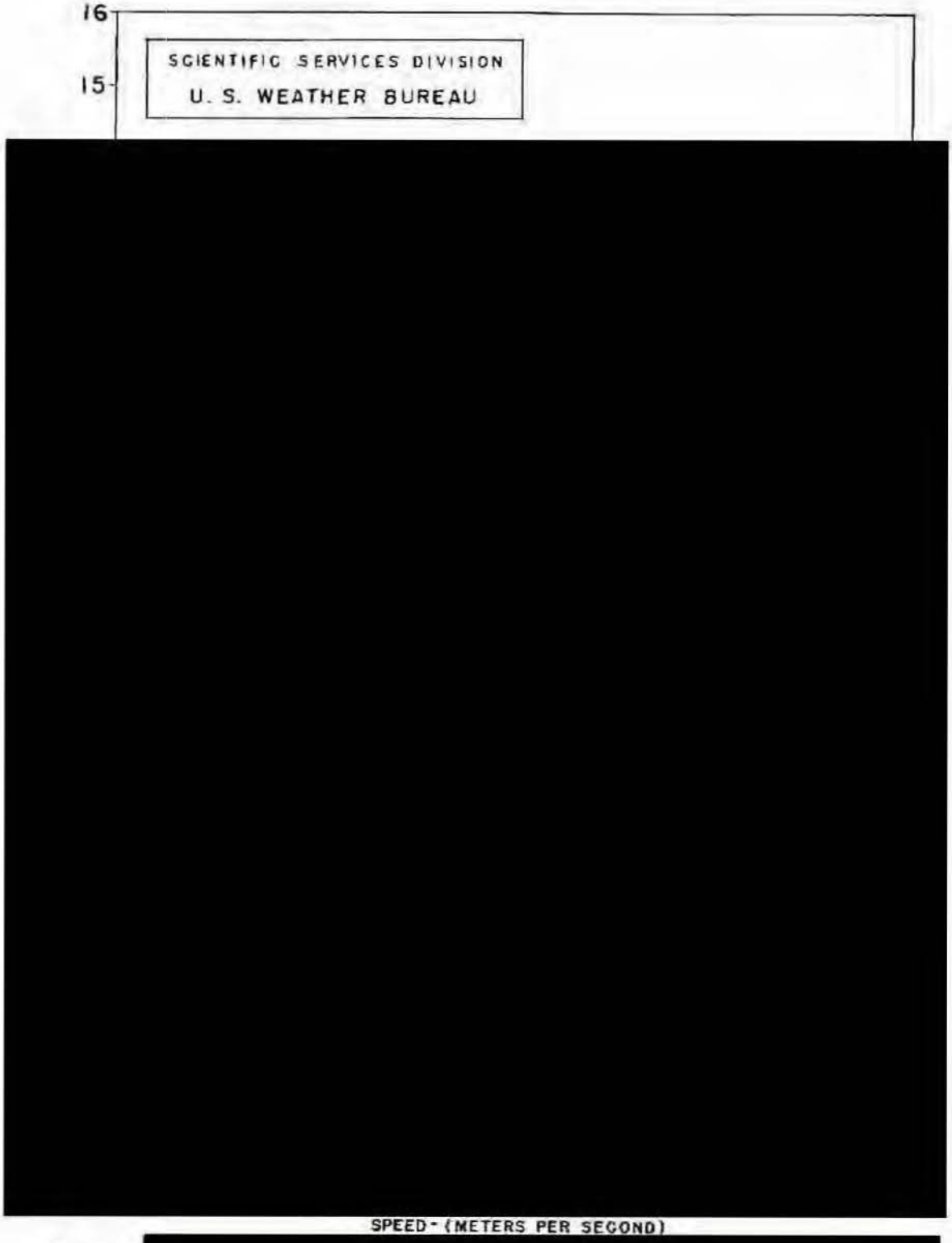

16
15
SCIENTIFIC SERVICES DIVISION
U. S. WEATHER BUREAU
SPEED - (METERS PER SECOND)

Figure 13

the fact that the top of the cloud was located in a zone of rapid wind variation with height.

The dashed curve of Figure 14 shows the predicted time of arrival of the leading edge of the cloud at the flight line under the assumption that considerable particulate matter was present in the finger-like projection and that the top was consequently at 33,000 feet, or 10-kilometers. The existence of large amounts of radioactivity up to this height is

[redacted]

When the time of arrival as computed by meteorological methods, assuming the top of the cloud to be at 33,000 feet, is compared with the observed radiological reports, it is found that the detection at 30,000 feet occurred several hours prior to the estimated arrival time. At 30,000 feet no radiological data were gathered for several days prior to the first detection of the ZEBRA cloud at that level; but it is believed that this first detection was made not long after the passage of the leading edge. The dashed curve predicts with reasonable accuracy the arrival of the cloud at other levels.

In an effort to improve the predicted time of arrival of the leading edge at 30,000 feet, it was assumed that the cloud reached about twelve-kilometers (40,000 feet). The means by which the greater height might have been reached is not clear. It is possible, but somewhat unlikely, that the visual observations of the ZEBRA cloud at Eniwetok were in error. It is also possible that the cloud diffused upward after

[redacted] In any case, the computed time of arrival based on a cloud top of 40,000 feet is shown in Figure 14 as the dotted curve. While this curve appears to improve the situation at 30,000 feet, at 20,000 feet it indicates an arrival time that is too early.

It is felt that there is more evidence pointing to the cloud top at 33,000 feet than at 40,000 feet; consequently the stippled area in Figure 14, is taken as the time during which the cloud was located in the region of the flight line. It may be noted that the trailing edge coincides with the primary cloud at all altitudes.

The analysis using the cloud top at 33,000 feet misses the arrival time of the ZEBRA cloud as indicated by the first 30,000 foot filter (shown on the figure) by about three hours. This error lies well within the limits of accuracy of the meteorological data and analysis. Thus, if the mean wind in the layer between 30,000 and 33,000 feet were only 1.3 knots stronger, the computed leading edge would arrive in time to account for this positive detection. Such a change would still permit the computed time of arrival of the leading edge at the 20,000-foot level to fall between the weak and strong areas of detection shown in the figure. Thus, a relatively small change in speed for a shallow layer yields a cloud whose time of arrival would agree exactly with the radiological observations.

TABLE II. Distribution of Fall-Out Velocities -- ZEBRA

(1) Filter Number *	(2) Level of Detection (Feet)	(3) Time of Fall (Hours)	(4) Mean Speed (Knots)	(5) Starting Elevation (Feet)	(6) Distance Fallen (Feet)	(7) Rate of Fall (Ft/day)
0540 0585 0586 0587	30,000	59	40	36,000	6,000	2,441
0699 0700	21,000	105	22	32,000	11,000	2,514

*All Filter Numbers given in this table are preceded by the letters "HW".

(1), [redacted]

(3) -- Elapsed time, from H-hour to time of detection of sample.

(4) -- Length of mean trajectory (2340 nautical miles) divided by the time in column (3).

(5) -- Level from which sample is assumed to have fallen. This level was found by recourse to the mean wind profile (Figure 13) and was chosen so the wind speed in column (4) is the maximum mean wind speed in the layer between the level of detection (column 2) and the starting elevation (column 5).

(6) -- Difference between the starting elevation (column 5) and the level of detection (column 2).

(7) -- Distance fallen (column 6) divided by the time of fall (column 3).

TABLE II gives fall-out rates similar to those shown in TABLE I. The 30,000-foot filter detected particles which, from the observed wind profile, must have originated above 33,000 feet. This is the same filter which caused the difficulties discussed in relation to Figure 14. The reported data are inconsistent with an initial cloud top at 33,000 feet and a wind distribution as given in Figure 13.

2. Summary of the ZEBRA test study.

The results of the meteorological computations of the arrival time of the ZEBRA cloud are not as successful as they were for the YOKE cloud. Uncertainties as to the height of the cloud top and the difficulties experienced in differentiating between the detection of residual radioactivity from the YOKE cloud and the activity from the ZEBRA cloud make the meteorological analysis and the verification of the arrival time less accurate. Nevertheless, within the limits of error of the data, the meteorological analysis permits the prediction of the arrival of the ZEBRA cloud with considerable accuracy.

C. COMPARISON OF YOKE AND ZEBRA

Between the detection of the X-RAY and the YOKE clouds at the flight line, the filters recorded negative counts of radioactivity. Prior to the detection of the ZEBRA cloud, however, there was positive detection. Meteorological analysis can explain why the YOKE cloud lingered while the X-RAY cloud was swept clear of the same area during a comparable length of time. The west-east component of the wind in the layer from 10,000 feet to 20,000 feet at Johnston Island, for example,

was from the west about 3 knots when averaged over the fifteen days after the X-RAY explosion, while the average winds in the same layer had an easterly component of about 4 knots for the fifteen days after the YOKE test. The winds above 20,000 feet during the entire period of the tests were from west to east, carrying that portion of the clouds toward the east. While the cloud above 20,000 feet was being carried to the east of the flight line, some of the particles fell to lower elevations. Since the lower level winds carried the material falling from higher levels westward to the flight line, radioactivity was detected by the flights long after the primary cloud mass moved east of the flight line. This was the case for the fifteen day period after the YOKE explosion. If the winds between say, 10,000 feet and 20,000 feet had been from the west, then the area might have been swept clean of radioactivity as was the case after the X-RAY test.

The presence of material from YOKE near the flight line at the time of the ZEBRA detection is also indicated by the trajectory on the 330°A isentropic-surface chart which traces the YOKE cloud from Eniwetok (Figure 25). Cloud particles from YOKE which stay near this isentropic surface, between 21,000 and 24,000 feet, remained just to the west of the flight line for a long period, so that with reasonable diffusion and fall-out, radioactive particles from YOKE would be expected in the vicinity of 20,000 feet [redacted] The corresponding trajectory from the X-RAY explosion (Figure 24) indicates that radioactive particles in the levels just above 20,000 feet were carried well west of Eniwetok and could not

interfere with the detection of the YOKE cloud.

Detection of radioactive material at the 30,000-foot level for many days after the passage of the YOKE primary cloud across the flight line might be explained by the vertical diffusion of the particles. Thus material initially at 20,000 feet could diffuse upward and be carried across the flight line at the 30,000-foot level.

Comparison of the data from YOKE and ZEBRA also indicates the importance of accurate determination of the cloud height when the top lies in the region of strong wind shear.

V. BACKTRACKING A RADIOACTIVE CLOUD

Under certain conditions it may be impossible to obtain information as to the time and place of an atomic explosion by direct methods, but, having detected a radioactive cloud by aircraft reconnaissance, it may be important to know the place of origin. Presumably from radiochemical analysis it would be possible to determine the approximate date of the explosion. The question thus posed is:

> Given the time of the explosion and the time and place of detection of radioactive material, can the meteorologist retrace the cloud trajectory back to the place of origin?

In order to simulate operational conditions, the time and place of the X-RAY explosion were withheld from the meteorologists performing the analyses, although the place was soon surmised from other information.

A. METEOROLOGICAL DATA FOR X-RAY

[redacted]

performed on a hemispheric basis. The trajectories were computed on charts of isentropic surfaces in order to obtain three-dimensional representation of the air-flow. The isentropic charts for a time shortly after the X-RAY explosion are shown in Figures 15a to 15d and the reconnaissance map in Figure 16. [redacted] but it should be noted that there are large areas in this part of the Pacific from which there are no reports. The analysis in such regions was inferred from the circulation patters of the middle latitudes and a general knowledge of their relation to tropical patterns.

B. RADIOLOGICAL DATA FOR X-RAY

The radiological data for X-RAY were obtained from a series of flights at various altitudes, ranging from 1,000 to 30,000 feet. Each flight was divided into sections and the meteorologists were told whether positive or negative detection was made on each section. In the selection of the points from which to backtrack the cloud, an attempt was made to find the earliest point of positive detection in any area. The first attempts at backtracking made no use of fall-out speed of the particles, the assumption being that the flow took place strictly along isentropic surfaces. This method requires that the wind produce the total transport of the particles and therefore is valid for backtracking only the primary cloud. Unless the size of the particles detected by the flight filter can be measured, there is no possibility of determining whether the material intercepted is a portion of the primary cloud or of the fall-out curtain. It is evident from Figures 9 and 14 that the

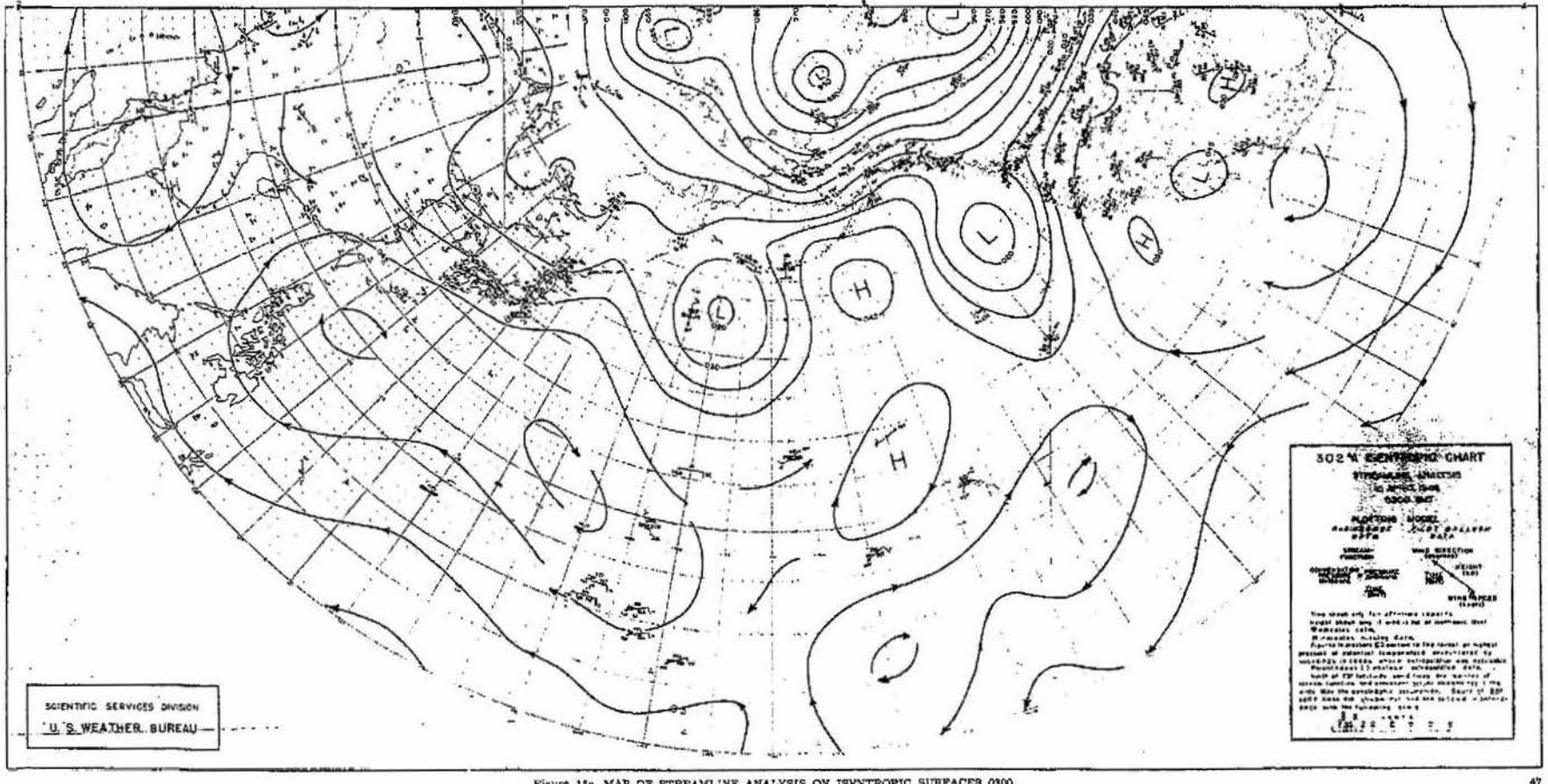


Figure 15a. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES 0300 GMT, 15 April 1948. 302°A Surface

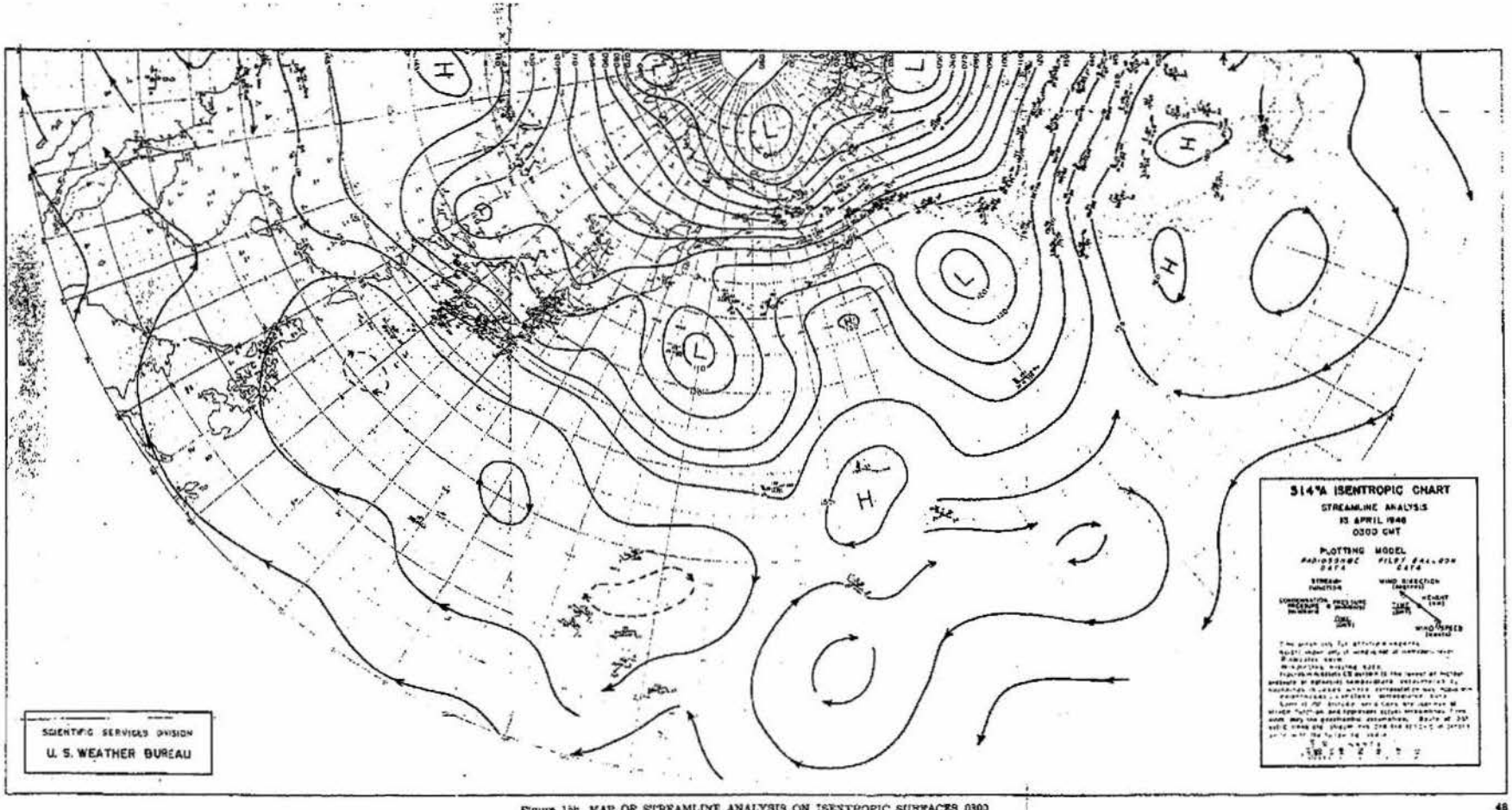


Figure 15b. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES 0300 GMT, 15 April 1948. 314°A Surface

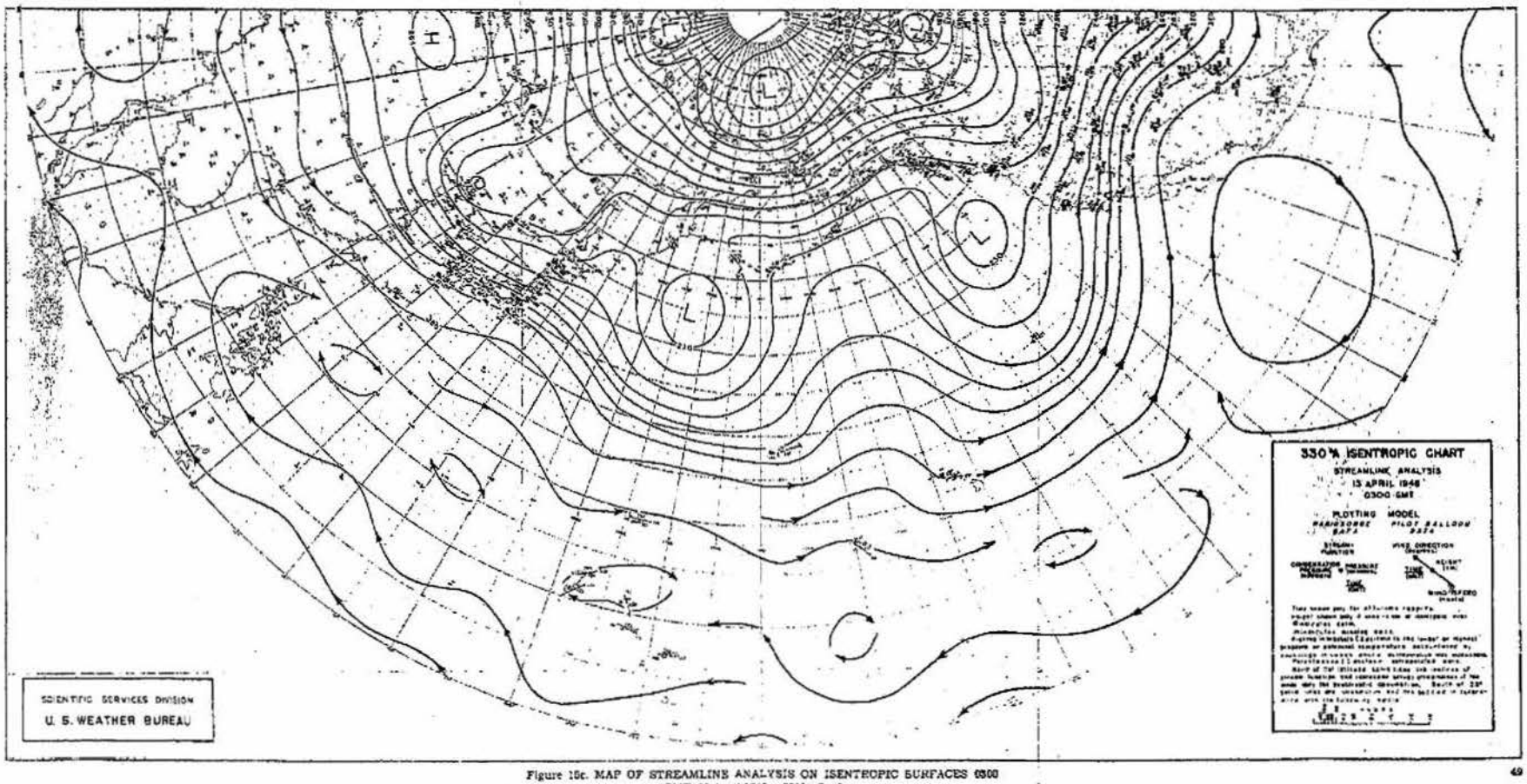


Figure 15c. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES 0300 GMT, 15 April 1948. 330°A Surface

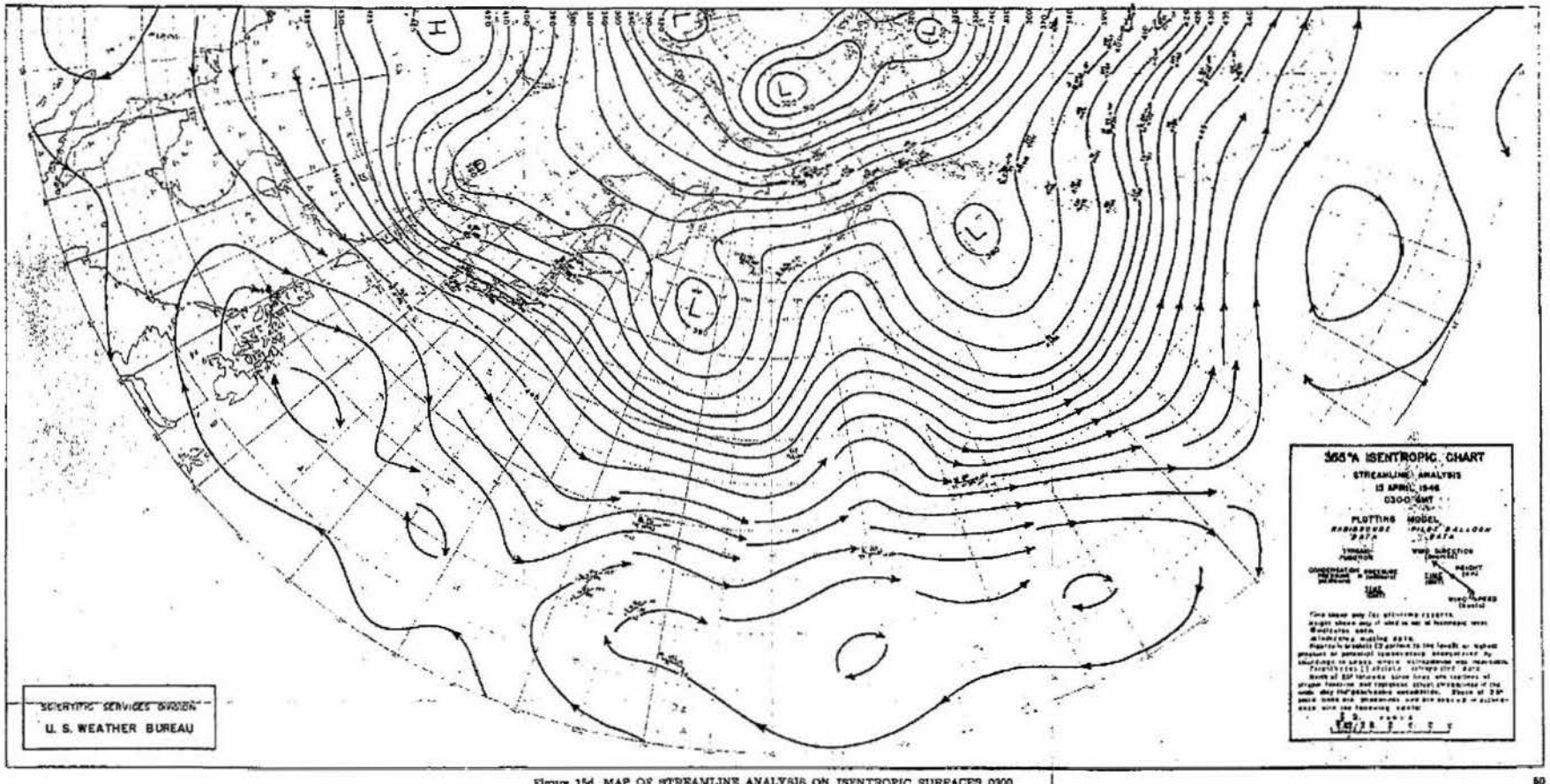


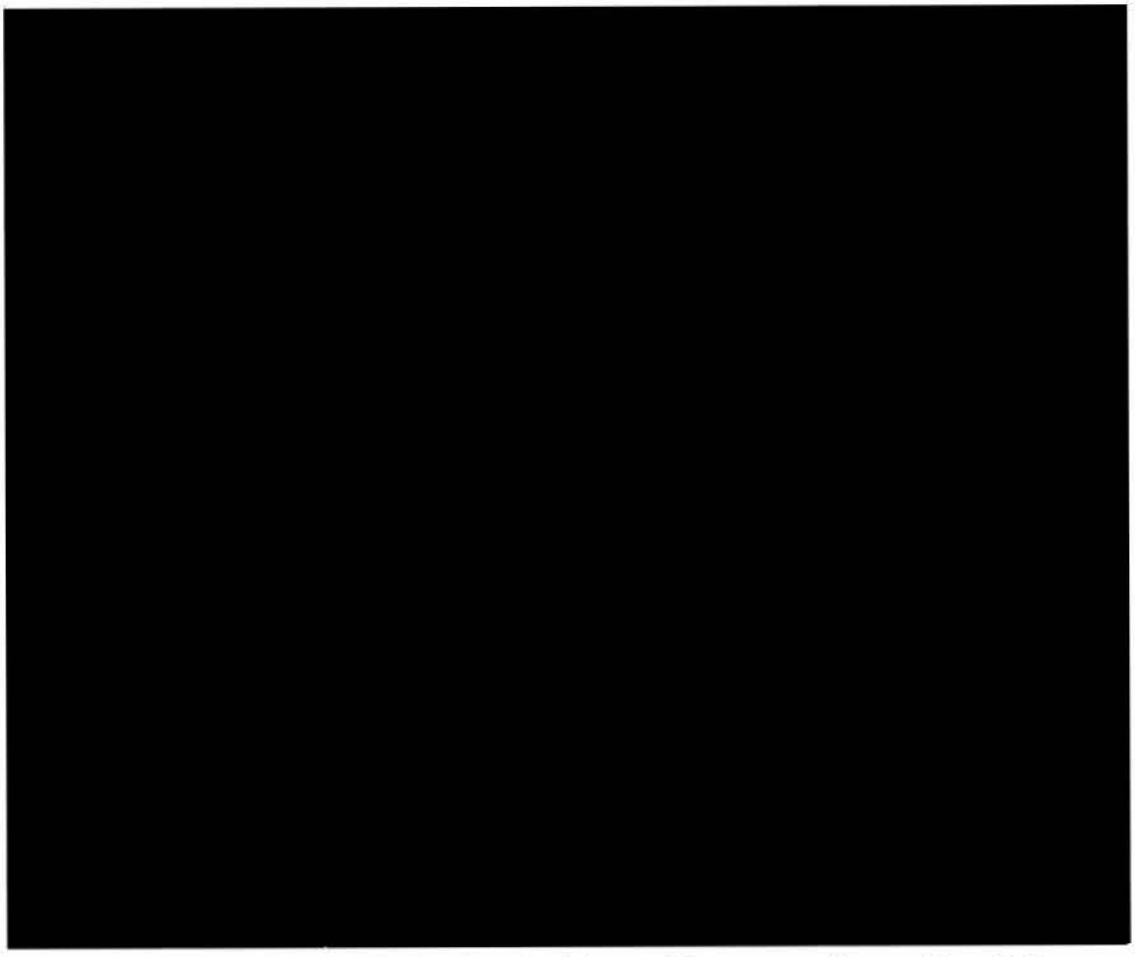
Figure 15d. MAP OF STREAMLINE ANALYSIS ON ISENTROPIC SURFACES 0300 GMT, 15 April 1948. 335°A Surface

primary cloud mass and the leading edge are not far apart at levels close to the region of maximum wind speed. The reason for selecting the earliest time of detection in the trade wind region (the lower levels) will become evident later in the text. Here let it suffice to say that it appeared as though the use of the earliest points [redacted]

The filters were usually exposed for a period of from one to three hours or for a maximum distance of from 600 to 700 miles. The mid-point and the mid-time of the flight leg were taken as the starting place and time for each trajectory.

c. [redacted]

Figure [redacted]



The remaining trajectories in Figure 21 represent an attempt to find this time lag, thereby making the construction of accurate trajectories possible. The trajectory begun at 0300 GMT, 20 April 1948, i.e., with a time lag of about twenty-four hours, gave the best results. It is to be emphasized that this lag period depends upon the particular shear of the wind and reate of fall-out and cannot be applied to other cases.

Figure 20 shows another trajectory on the highest isentropic surface in which a lag of ten hours for the wind shear and fall-out is

permitted. This trajectory is better than the one on the same isentropic surface with no lag, but is still so far north as to make the case a failure.

In Figures 22 and 23 [redacted]

E. SUMMARY

[redacted]

latitude. The low level trajectories for all cases, of course, are to the west since they result from the easterly trade winds.

VII. CONCLUSIONS

From the preceding discussion it can be seen that meteorological analysis is entirely suitable for the determination of the trajectories of radioactive material over reasonable distances and time periods. When the results of meteorological analysis can be checked exactly by radiological data, they are found to be well within the limits of error of the methods.

When the time and location of the atomic explosion are known and it is required to trace the path of the radioactive cloud particles forward in time and space, the meteorologist obtains his best results. In such cases, diffusion continually enlarges the volume of the cloud so that opportunity for radiological detection of the particles along the predicted trajectory is increased.

If the time and place of both the initial explosion and subsequent detection points are known, the configuration of the primary cloud and the fall-out curtain can be determined accurately from meteorological data.

When only the time and place of detection are known and it is required that the source of the radioactive material be located, the meteorologist is at a disadvantage since he does not know whether the

detected material was a portion of the primary cloud, the fall-out curtain, or simply particles that were carried away from the principal mass of the cloud by diffusion. In such cases, elaborate radiological analysis to [redacted] and to locate the point of maximum concentration of activity would be necessary if it were required that the location of the initial explosion be determined precisely. As has been shown in the preceding sections of the report, meteorological trajectories do give the approximate location of the source of radioactive material, even though based on limited radiological data.

VIII. RECOMMENDATIONS

The recommendations which are suggested as a result of this study may be divided into two types. First, those associated with any new tests similar to SANDSTONE and second, those for the detection of any unknown atomic explosion.

A. RECOMMENDATIONS FOR FUTURE TESTS.

It is suggested that, if tests are carried out in the tropics, emphasis be placed on wind observations rather than pressure and temperature recordings of the upper air. It is also recommended that the navigational devices and reconnaissance techniques be improved so that aircraft wind reports will be of value to the meteorologist. Also, it is suggested that meteorological observations be made in those portions

of the Pacific Ocean which are now void of data. Lastly, it is recommended that improved theodolite and aircraft observations of the cloud be made so that the cloud top at the explosion point may be determined with greater certainty.

B. RECOMMENDATIONS FOR DETECTION OF UNKNOWN EXPLOSIONS.

It is necessary that provision be made for collecting a maximum of upper-air data from all areas in which atomic explosions might take place, and over which the resulting radioactive cloud might travel. Further, such upper-air data must be rapidly assembled and then processed as thoroughly as possible to eliminate erroneous observations. The most important suggestions, however, relate to radiological detection. The distribution of particle size on each filter should be determined. The aircraft carrying the filters should be directed through the axis of the cloud (by flying normal to the wind over a great distance) and by frequent changes of filters the region of greatest radioactivity, e.e., the axis of the cloud, should be located. Flights should be carried out at the level of the maximum wind speed. In general, organized flights which describe the three-dimensional configuration of the cloud will be preferable to seemingly random ones.

The above recommendations are made since, as has been mentioned earlier, the radiological data form the very foundation from which the meteorologist must build his analysis. However, without adequate coverage by upper-air reports, even the mose precise radiological data is of little avail.

[redacted]

Report
of
Operation FITZWILLIAM

Vol II Tab 8 Copy No. ....

FINAL REPORT ON DETECTION
BY
AERIAL FILTERING

TABULAR LISTING
OF
FLIGHT AND NUCLEAR-MEASUREMENT DATA

UNITED STATES AIR FORCE

[redacted]

[redacted]

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[redacted]

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I. Introduction

The flight data and field nuclear measurement data obtained as a result of aerial filtering during Operation FITZWILLIAM are listed herein in tabular form.

A. Designation of Filter Papers

1. Method of Numbering. The individual filter papers were numbered, serially or otherwise, at the USAF Weather Stations at the terminus of each filter flight. The data for each exposed filter paper are grouped herein by the stations at which the flights terminated and/or where the papers were measured for radioactivity. Whithin each station group, these data have been arranged in numerical order of their original filter paper numbers.

2. Station Designators. For the purposes of this tabular listing each four-digit filter paper number is prefixed by a two-letter station designator. The station designators used herein are shown with their respective geographical locations and military installations in Figures 1 and 2. It is pointed out that letter-designators other than these have been used in Volume IV of this report (by Tracerlab, Inc.). At the time of this writing, the letter-designators used in this listing have been employed only in Volume II of this report.

B. Form of Tabular Listing.

The principal items of data have been extracted from the original data sheets and entered on a specially prepared form, as shown in Figure 3. These items have been divided into two general groups, "flight data" and "nuclear measurement data". The general grouping of these items is illustrated in Figure 3.

[redacted]

REPORT

OF

OPERATION FITZWILLIAM

Vol. II Tab B

Final Report on Detection by Aerial Filtering

(This document consists of 303 pages,
Copy No. 28 of 84 Copies, Series A.)

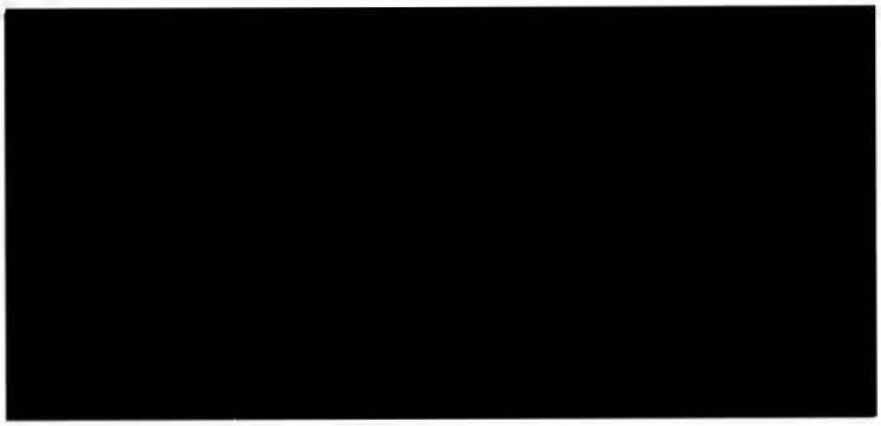
Tabular Listing

of

Flight and Nuclear-Measurement Data

[redacted]

The original data sheets from which the listing herein was compiled were collected and corrected, and the data arranged and prepared for printing by the Staff of th[redacted]
The introductory material was prepared under the supervision of Dr. Donald H. Rock by J. J. Siebielec and W. J. Malloy.



Acknowledgement

The data of which this listing is composed and on which the greatest portion of this volume is based were obtained by the crews of the B-29 weather reconnaissance aircraft and by the officers and airmen of the weather stations where the filter papers were processed. All of these men, whose names are too numerous to mention here, were of the Air Weather Service, United States Air Force. They were assisted by technical representatives of Tracerlab, Incorporated.

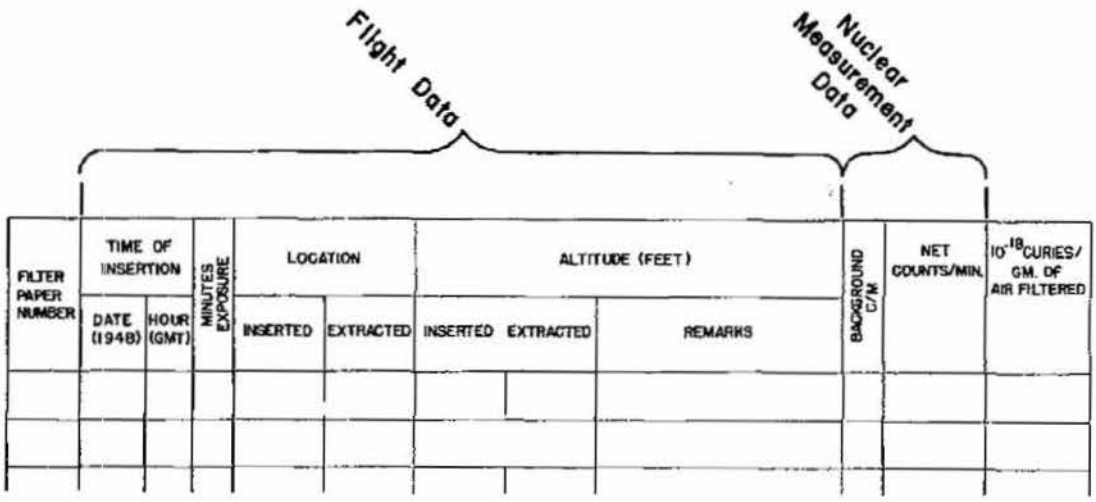


Figure 3

C. Flight Data

The flight data which occupy the columns on the form as indicated in Figure 3, have been extracted from the original data forms when such forms were available, or from the radio message forms received during the Operation at the Filter Center in Washington, D. C. when the original data were not available. The flight data were recorded aboard the aircraft during flight on a separate "flight data sheet" for each of the filter papers exposed. Figure 4 is an example of the "flight data sheet". Unfortunately, the items on this flight data sheet were not always recorded to the required degree of accuracy and detail. It was possible to check roughly two thirds of the total volume of flight data against the accompanying aircraft weather-report forms which, in most instances, provided much greater detail concerning the pattern of the flight. Much

of the detailed information in the flight data, especially in the altitude columns, was obtained solely from these weather-report forms. These accompanying weather forms could not be obtained for the remaining third of the flight data; consequently, no further check on these flight data is possible. There are numerous instances in the listing of data where the altitudes of either insertion or extraction, or both, are entered as "unknown". This is a result of incomplete recording of the flight pattern. The ambiguity resulting from failure to record changes in the altitude of the aircraft during the exposure of each filter paper is illustrated in Figure 5. In this particular case, several altitude changes were made during the flight (from position A to position F in the figure), but for each filter paper exposed, the flight data showed only a single value for altitude. It was found, where cross-checks were made, that this single entry for altitude might refer to the mean altitude, or to the altitude at time of either insertion or extraction of the filter paper. From this information alone it is possible to plot the flight, as depicted in the figure, as a series of horizontal vectors. If there were no time delay between the exposing of successive filter papers (as was normally the case) the question then arises as to the altitude of the aircraft at times of filter changes. The broken lines in the figure show a few of the paths that may have been followed during the flight. At only one position, B, can it be stated with any certainty that the altitude of the aircraft is known. Therefore, the altitudes of insertion and extraction for the other positions must be listed as "unknown". Similarly, the altitudes at intermediate points are unknown. The important implications of such ambiguities

in the flight data are discussed in the body of Volume II.

FLIGHT DATA

Time at which filter paper was inserted into filter assembly

	Day (GCT)	Month	Hr (GCT)
Length of exposure of filter paper in minutes			
*Octant of point at which filter paper was inserted . . .			
Latitude when filter paper was inserted			
Longitude when filter paper was inserted			

Altitude of aircraft during exposure. (Express in terms of feet and indicate coordinates where altitudes were changed during the period the filter paper was exposed.) _____

_____

*Octant of point at which filter paper was extracted . . .			
Latitude when filter paper was extracted			
Longitude when filter paper was extracted			

*Octant will be determined from the following table:

North Latitude	South Latitude
0°W to 90° W 0	0°W to 90° W 5
90°W to 180°W 1	90°W to 180°W 6
180°E to 90° E 2	180°E to 90° E 7
90°E to 0° E 3	90°E to 0° E 8

Figure 4

Vertical Cross Section
Hypothetical Flight Pattern

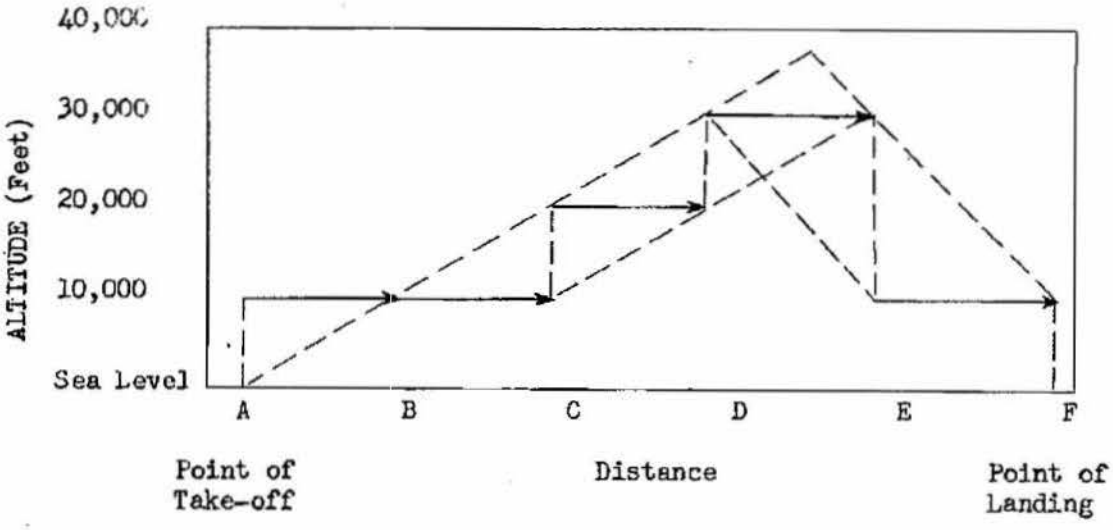


Figure 5

D. Nuclear Measurement Data

After the aircraft had landed at the terminus of each filter flight, the filter papers exposed during that flight were taken to the USAF Weather Station at the airbase where they were measured for radioactivity with a specially designed wrap-around Geiger counter apparatus which is pictured in Volume I, Tab D. The measurement data obtained from this process were then recorded on a special form (See Figure 6) sometimes printed on the same piece of paper as the "flight data sheet". The counting apparatus were, by instruction, to have been calibrated twice daily. This included a background resding for each of the apparatus, using an unexposed piece of filter paper. The background reading was subtracted from the gross counts per minute obtained by measuring each exposed paper, the result being the net counts per minute for each filter

MEASUREMENT DATA: FILTER PAPER EQUIPMENT

STATION_____ DATE_____ OPERATOR_____ SCALER NO. _____

1	2	3	4	5	6	7	8	9
FP NR	Time FP on	Time FP off	Time Start Ct.	Time Stop Ct.	Scaler Register	Reading Lights	Total Counts	Counts Per Min.

Note: The background count is to be a count obtained for an unexposed sheet of filter paper selected from the interior of the pile and measured during the day the exposed paper is measured.

Background count : _____

Counts Per Minute: _____

Net Counts/Minute: _____

Figure 6

paper. The value of the background for any one instrument might vary with the time of day. This variation of background was caused by factors both internal and external to the counting apparatus. Since a background reading was not normally taken immediately before and/or after each filter paper was measured, a large number of negative net counts per minute were obtained. An inspection of the listed measurement data for papers exposed before XRAY (14 April 1948) during which time the air sampled should have been completely free from long-lived radioactivity, showed that the mean for the net counts per minute ranged from 0.4 to 7.0, and that the standard deviation ranged from 6.1 to 16.4 for four stations studied.

The entire mass of the original measurement data has been checked for arithmetical errors and inconsistencies. In cases where examination of the original nuclear measurement data has shown it to be completely unreliable, those data have been omitted, and the entry

"measurement data not reliable" has been made in the listing.

Occasionally, filter papers collected amounts of fission products which produced disintegration rates in excess of the capacity of the counting apparatus. In some of these instances, the remark "too hot to count" was entered by field personnel on the original data form. For these cases, the remark "count extremely high" has been entered in the data listing. In other instances where first attampts to measure the exposed papers revealed such excessive activity, the operator cut the filter paper in half or smaller portions. The net counts per minute for the entire paper were then obtained assuming that an aliquot portion had been used. While this is not strictly true, the result thus obtained is most probably correct to an order of magnitude.

Certain of the original nuclear measurement data sheets could not be obtained for use in compiling this listing. In these instances, the values for the net counts per minute were extracted from the radio message forms on which the data were received at Headquarters USAF during the Operation. The values for the background count, total count, time of count, etc., were not transmitted by radio; they are, therefore, missing for these data. All entries of data thus obtained have been noted in the listing. There are limitations on the confidence which should be placed upon the accuracy of data thus received. In addition to the fact that these data could not be checked for inconsistencies and errors, the factor of cryptographical and radio-transmission errors is also involved.

Sizeable amounts of natural radioactivity are known to have been collected on a few of the filter papers. It is not possible to determine

uniquely the source or type of radioactivity collected on the papers by inspection of the data in this listing. Successive measurements for decay determination were made in only a small number of cases; in this event, the last measurement has been entered. A complete discussion of this problem is included in the body of Volume II.

E. Activity Per Unit Mass of Air Sampled

In the far right-hand column of the tabular listing there is entered for each filter paper (for which nuclear measurement data are given) the average radioactivity per unit mass of air sampled during exposure of the paper. Expression of the collected radioactivity in this type of unit is especially useful in the study of the shape, size, and relative concentrations of the long-range atomic clouds. This is true because the time-length of exposure of the filter papers is not standard (varying roughly from five minutes to six hours), and because the great amount of air filtered per unit time is a function of exposure altitude (air density).

For the purpose of converting the units from activity per individual filter paper to activity per unit mass of air filtered, it was assumed that the mass of collected radioactive matter for each filter paper was evenly distributed in the air along the path of the aircraft during exposure. A method for estimating the true distribution of this activity along the flight path is discussed in detail in the body of Volume II. The computation of this quantity was based on the following formula:

$$\alpha = \frac{N}{\eta\, e_p e_c MT}$$

[redacted]

where α = number of 10^{-18} curies/gm of air filtered.

N = number of net counts per minute produced by the exposed filter paper.

η = number of disintegrations per minute for one gram of radium = 2.22×10^{12}

e_p = filter efficiency

e_c = counting apparatus efficiency

M = mass of air filtered per minute

T = time-length of filter exposure in minutes

Since the values for the terms e_p and e_c had not been determined at the time the computations were made, each has been assumed to be unity.

[redacted]

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0001	4 Apr	0817	242	37°42' N 123°00' W	46°26' N 136°27' W	1,000 ft	1,000 ft		347	- 6	0
AN0002	4 Apr	0817	242	37°42' N 123°00' W	46°26' N 136°27' W	1,000 ft	1,000 ft		347	- 7	0
AN0003	4 Apr	1219	243	46°26' N 136°27' W	53°28' N 146°35' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft at 52°23'N, 145°35'W. Descended on course.	347	- 5	0
AN0004	4 Apr	1219	243	46°26' N 136°27' W	53°28' N 146°35' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft at 52°23', N, 145°35' W. Descended on course.	347	- 8	0
AN0005	4 Apr	1622	180	53°28' N 146°35' W	61°12' N 149°50' W	1,000 ft	6,000 ft	Started climb on course at 58°00' N, 151°00' W.	347	6	1
AN0006	4 Apr	1622	180	53°28' N 146°35' W	61°12' N 149°50' W	1,000 ft	6,000 ft	Started climb on course at 58°00' N, 151°00' W.	347	0	0
AN0007	7 Apr	0751	259	37°45' N 123°00' W	45°15' N 135°00' W	1,000 ft	1,000 ft		336	0	0
AN0008	7 Apr	0751	259	37°45' N 123°00' W	45°15' N 135°00' W	1,000 ft	1,000 ft		336	1	0
AN0009	7 Apr	1210	245	45°15' N 135°00' W	52°20' N 145°15' W	1,000 ft	1,500 ft	Climbed on course to 10,000 ft, then descended on course.	336	0	0
AN0010	7 Apr	1210	245	45°15' N 135°00' W	52°20' N 145°15' W	1,000 ft	1,500 ft	Climbed on course to 10,000 ft, then descended on course.	336	0	0
AN0011	7 Apr	1615	195	52°20' N 145°15' W	61°10' N 150°00' W	1,500 ft	1,500 ft		336	4	1
AN0012	7 Apr	1615	195	52°20' N 145°15' W	61°10' N 150°00' W	1,500 ft	1,500 ft		336	14	2
AN0013	9 Apr	0740	295	38°18' N 124°15' W	46°21' N 136°37' W	1,000 ft	1,000 ft		339	3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0014	09 Apr	0740	295	38°18' N 124°15' W	46°21' N 136°37' W	1,000 ft	1,000 ft		339	5	1
AN0015	09 Apr	1235	165	46°21' N 136°37' W	52°25' N 145°19' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	339	0	0
AN0016	09 Apr	1235	165	46°21' N 136°37' W	52°25' N 145°19' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	339	0	0
AN0017	09 Apr	1730	88	52°50' N 146°10' W	51°12' N 149°50' W	1,000 ft	1,000 ft		339	5	2
AN0018	09 Apr	1730	88	52°50' N 146°10' W	51°12' N 149°50' W	1,000 ft	1,000 ft		339	29	11
AN0019	11 Apr	0930	280	37°41' N 123°02' W	46°27' N 136°31' W	1,000 ft	1,000 ft		340	-2	0
AN0020	11 Apr	0930	280	37°41' N 123°02' W	46°27' N 136°31' W	1,000 ft	1,000 ft		340	6	1
AN0021	11 Apr	1410	200	46°27' N 136°31' W	52°23' N 145°20' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	340	-2	0
AN0022	11 Apr	1410	200	46°27' N 136°31' W	52°23' N 145°20' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	340	9	2
AN0023	11 Apr	1730	210	52°23' N 145°20' W	60°00' N 151°25' W	1,000 ft	5,000 ft	Started climb on course at 57°00' N, 150°00' W.	340	98	16
AN0024	11 Apr	1730	210	52°23' N 145°20' W	60°00' N 151°25' W	1,000 ft	5,000 ft	Started climb on course at 57°00' N, 150°00' W.	340	26	4
AN0025	12 Apr	0815	270	37°42' N 123°00' W	46°30' N 136°30' W	1,000 ft	1,000 ft		336	2	0
AN0026	12 Apr	0815	270	37°42' N 123°00' W	46°30' N 136°30' W	1,000 ft	1,000 ft		336	4	1

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0027	12 Apr	1245	235	46°30' N 136°30' W	52°30' N 145°20' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	336	7	1
AN0028	12 Apr	1245	235	46°30' N 136°30' W	52°30' N 145°20' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	336	6	1
AN0029	12 Apr	1640	120	52°30' N 145°20' W	57°57' N 151°10' W	1,000 ft	1,000 ft		336	6	2
AN0030	12 Apr	1640	120	52°30' N 145°20' W	57°57' N 151°10' W	1,000 ft	1,000 ft		336	16	4
AN0031	14 Apr	0800	255	37°47' N 123°00' W	45°23' N 136°33' W	1,000 ft	1,000 ft		337	16	2
AN0032	14 Apr	0800	255	37°47' N 123°00' W	46°23' N 136°33' W	1,000 ft	1,000 ft		337	3	0
AN0033	14 Apr	1215	155	46°23' N 136°33' W	52°23' N 145°15' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	337	13	3
AN0034	14 Apr	1215	155	46°23' N 136°33' W	52°23' N 145°15' W	1,000 ft	1,000 ft	Climbed on course to 10,000 ft, then descended on course.	337	5	1
AN0035	14 Apr	1450	180	52°23' N 145°15' W	61°15' N 149°48' W	1,000 ft	7,000 ft	Started climb on course at 58°10' N, 151°50' W.	337	53	10
AN0036	14 Apr	1450	180	52°23' N 145°15' W	61°15' N 149°48' W	1,000 ft	7,000 ft	Started climb on course at 58°10' N, 151°50' W.	337	44	9
AN0037	16 Apr	0822	249	38°20' N 123°55' W	46°10' N 136°30' W	500 ft	500 ft		342	8	1
AN0038	16 Apr	0822	249	38°20' N 123°55' W	46°10' N 136°30' W	500 ft	500 ft		342	2	0
AN0039	16 Apr	1231	179	46°10' N 136°30' W	52°30' N 145°05' W	500 ft	500 ft	Spiral climb to 10,000 ft. at start. Spiral descent at end.	342	7	1

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0040	16 Apr	1231	179	46°10' N 136°30' W	52°30' N 145°05' W	500 ft	500 ft	Spiral climb to 10,000 ft at start. Spiral descent at end.	342	1	0
AN0041	16 Apr	1530	220	52°30' N 145°05' W	60°54' N 150°03' W	500 ft	9,000 ft	Climbed on course from 57°10' N, 151°30' W, continuing to end.	342	61	10
AN0042	16 Apr	1530	220	52°30' N 145°05' W	60°54' N 150°03' W	500 ft	9,000 ft	Climbed on course from 57°10' N, 151°30' W, continuing to end.	342	7	1
AN0043	20 Apr	0817	243	37°42' N 123°00' W	46°05' N 135°55' W	1,000 ft	1,000 ft		347	- 5	0
AN0044	20 Apr	0817	243	37°42' N 123°00' W	46°05' N 135°55' W	1,000 ft	1,000 ft		347	- 9	0
AN0045	20 Apr	1220	185	46°05' N 135°55' W	52°23' N 145°15' W	8,500 ft	8,500 ft	Average altitude indicated.	347	- 6	0
AN0046	20 Apr	1220	185	46°05' N 135°55' W	52°23' N 145°15' W	8,500 ft	8,500 ft	Average altitude indicated	347	3	1
AN0047	20 Apr	1525	190	52°23' N 145°15' W	61°03' N 150°10' W	7,000 ft	7,000 ft		347	-15	0
AN0048	20 Apr	1525	190	52°23' N 145°15' W	61°03' N 150°10' W	7,000 ft	7,000 ft		347	- 1	0
AN0049	26 Apr	0930	180	37°42' N 123°00' W	42°45' N 130°00' W	20,000 ft	20,000 ft		329	8	2
AN0050	26 Apr	0930	180	37°42' N 123°00' W	42°45' N 130°00' W	20,000 ft	20,000 ft		329	10	3
AN0051	26 Apr	1230	180	42°45' N 130°00' W	48°36' N 140°12' W	20,000 ft	20,000 ft		329	18	5
AN0052	26 Apr	1230	180	42°45' N 130°00' W	48°36' N 140°12' W	20,000 ft	20,000 ft		329	3	1

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0053	26 Apr	1530	270	48°36' N 140°12' W	61°12' N 149°50' W	20,000 ft	13,000 ft	Start descent on course at 57°45' N, 152°00' W.	329	32	5
AN0054	26 Apr	1530	270	48°36' N 140°12' W	61°12' N 149°50' W	20,000 ft	13,000 ft	Start descent on course at 57°45' N, 152°00' W.	329	30	5
AN0055	28 Apr	0915	255	37°43' N 123°00' W	46°50' N 136°28' W	1,000 ft	1,000 ft		340	3	0
AN0056	28 Apr	0915	255	37°43' N 123°00' W	46°50' N 136°28' W	1,000 ft	1,000 ft		340	6	1
AN0057	28 Apr	1330	223	46°50' N 136°28' W	52°10' N 144°45' W	1,000 ft	1,000 ft	Spiral climb to 10,000 ft Descent on course.	340	2	0
AN0058	28 Apr	1330	223	46°50' N 136°28' W	52°10' N 144°45' W	1,000 ft	1,000 ft	Spiral climb to 10,000 ft Descent on course.	340	3	0
AN0059	28 Apr	1713	207	52°10' N 144°45' W	60°30' N 150°50' W	1,000 ft	9,000 ft	Start climb at 57°05' N, 152°20' W, continuing to end.	340	113	19
AN0060	28 Apr	1713	207	52°10' N 144°45' W	60°30' N 150°50' W	1,000 ft	9,000 ft	Start climb at 57°05' N, 152°20' W, continuing to end.	340	79	13
AN0061	29 Apr	0810	245	38°00' N 122°00' W	46°00' N 136°00' W	1,000 ft	1,000 ft		339	13	2
AN0062	29 Apr	0810	245	38°00' N 122°00' W	46°00' N 136°00' W	1,000 ft	1,000 ft		339	5	1
AN0063	29 Apr	1215	240	46°00' N 136°00' W	53°00' N 146°00' W	1,000 ft	1,000 ft	Climb to 5,000 ft, descending on course.	339	9	1
AN0064	29 Apr	1215	240	46°00' N 136°00' W	53°00' N 146°00' W	1,900 ft	1,000 ft	Climb to 5,000 ft, descending on course.	339	7	1
AN0065	29 Apr	1615	120	53°00' N 146°00' W	61°00' N 150°00' W	1,000 ft	1,000 ft		339	98	27

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AN0066	29 Apr	1615	120	53°00' N 148°00' W	61°00' N 150°00' W	1,000 ft	1,000 ft		339	58	16
AN0067	15 May	1545	188	64°47' N 147°55' W	61°12' N 149°50' W	3,000 ft	2,000 ft	Climbed on course to 21,000 ft at 62°39'N, 149°05'W. Descended on course.	340	133	26
AN0068	16 May	1545	75	64°47' N 147°55' W	60°15' N 149°54' W	3,000 ft	21,000 ft	Climbed on course to 21,000 ft at 62°39'N, 149°05' W, continuing to end.	340	27	11
AN0069	16 May	1700	60	60°15' N 149°54' W	58°54' N 151°50' W	21,000 ft	17,000 ft	Descent on course from 58°10' N, 150°03' W.	340	0	0
AN0070	16 May	1800	53	58°54' N 151°50' W	61°12' N 149°50' W	17,000 ft	2,000 ft	Descent on course.	340	17	12

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ0001	25 Apr	1106	180	32°20' N 64°33' W	34°50' N 49°45' W	500	20,000	Climb on course to 32°36' N, 62°54' W.	378	- 6	0
AZ0002	25 Apr	1106	180	32°20' N 64°33' W	34°50' N 49°45' W	500	20,000	Climb on course to 32°36' N, 62°54' W.	378	- 7	0
AZ0003	25 Apr	1406	180	34°50' N 49°45' W	37°36' N 33°10' W	20,000	20,000		378	21	6
AZ0004	25 Apr	1406	180	34°50' N 49°45' W	37°36' N 33°10' W	20,000	20,000		378	14	4
AZ0005	25 Apr	1706	114	37°36' N 33°10' W	39°00' N 27°00' W	20,000	20,000		378	18	7
AZ0006	25 Apr	1706	114	37°36' N 33°10' W	39°00' N 27°00' W	20,000	20,000		378	8	3
AZ0007	26 Apr	0649	186	38°42' N 27°05' W	28°39' N 26°17' W	19,500	19,500		380	10	3
AZ0008	26 Apr	0649	186	38°42' N 27°05' W	28°39' N 26°17' W	19,500	19,500		380	-10	0
AZ0009	26 Apr	0955	180	28°39' N 26°17' W	17°03' N 24°52' W	19,500	19,000	Descent on course	380	109	28
AZ0010	26 Apr	0955	180	28°39' N 26°17' W	17°03' N 24°52' W	19,500	19,000	Descent on course	380	100	26
AZ0011	26 Apr	1258	84	17°03' N 24°52' W	11°32' N 24°15' W	19,000	18,500	Descent on course	380	40	22
AZ0012	26 Apr	1258	84	17°03' N 24°52' W	11°32' N 24°15' W	19,000	18,500	Descent on course	380	75	41
AZ0013	26 Apr	1423	178	11°32' N 24°15' W	23°15' N 25°30' W	18,500	19,500	Climb on course	380	114	30

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AZ0014	26 Apr	1423	178	11°32' N 24°15' W	23°15' N 25°30' W	18,500	19,500	Climb on course	380	204	53
AZ0015	26 Apr	1722	238	23°15' N 25°30' W	37°15' N 26°20' W	19,500	8,000	Climb to 29,500 ft, then descending on course	380	7	1
AZ0016	26 Apr	1722	238	23°15' N 25°30' W	37°15' N 26°20' W	19,500	8,000	Climb to 29,500 ft, then descending on course.	380	7	1
AZ0021	26 Apr	1045	182	32°25' N 64°45' W	34°52' N 50°30' W	1,000	20,000	Climb on course reaching 20,000 ft at 33°06' N, 60°54' W.	380	3	1
AZ0022	26 Apr	1045	182	32°25' N 64°45' W	34°52' N 50°30' W	1,000	20,000	Climb on course reaching 20,000 ft at 33°06' N, 60°54' W.	380	1	0
AZ0023	26 Apr	1347	175	34°52' N 50°30' W	37°05' N 37°35' W	20,000	20,000		380	- 6	0
AZ0024	26 Apr	1347	175	34°52' N 50°30' W	37°05' N 37°35' W	20,000	20,000		380	- 2	0
AZ0025	26 Apr	1642	152	37°05' N 37°35' W	38°45' N 27°00' W	20,000	20,000		380	4	1
AZ0026	26 Apr	1642	152	37°05' N 37°35' W	38°45' N 27°00' W	20,000	20,000		330	5	2
AZ0027	27 Apr	0700	180	38°30' N 27 00' W	27°45' N 26°00' W	19,500	19,500		374	15	4
AZ0028	27 Apr	0700	180	38°30' N 27°00' W	27°45' N 26°00' W	19,500	19,500		374	7	2
AZ0029	27 Apr	1000	180	27°45' N 26°00' W	17°10' N 24°45' W	20,000	20,000		374	40	10
AZ0030	27 Apr	1000	180	27°45' N 26°00' W	17°10' N 24°45' W	20,000	20,000		374	19	5

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ0031	27 Apr	1300	60	17°10' N 24°45' W	14°00' N 24°30' W	20,000	20,000		374	1	1
AZ0032	27 Apr	1300	60	17°10' N 24°45' W	14°00' N 24°30' W	20,000	20,000		374	5	4
AZ0033	27 Apr	1400	180	14°00' N 24°30' W	24°34' N 25°40' W	20,000	20,000		374	40	10
AZ0034	27 Apr	1400	180	14°00' N 24°30' W	24°34' N 25°40' W	20,000	20,000		374	28	7
AZ0035	27 Apr	1700	205	24°34' N 25°40' W	35°00' N 26°45' W	20,000	Unknown	No descent data recorded	374	5	1
AZ0036	27 Apr	1700	205	24°34' N 25°40' W	35°00' N 26°45' W	20,000	Unknown	No descent data recorded	374	8	2
AZ0037	27 Apr	2025	55	35°00' N 26°45' W	38°00' N 27°10' W	Unknown	10,000	No descent data recorded	374	- 3	0
AZ0038	27 Apr	2025	55	35°00' N 26°45' W	38°00' N 27°10' W	Unknown	10,000	No descent data recorded	374	- 3	0
AZ0039	28 Apr	2330	180	32°15' N 64°15' W	35°20' N 49°00' W	19,000	19,000		389	-12	0
AZ0040	28 Apr	2330	180	32°15' N 64°15' W	35°20' N 49°00' W	19,000	19,000		389	- 5	0
AZ0041	29 Apr	0230	180	35°20' N 49°00' W	37°45' N 33°40' W	19,000	19,000		389	- 7	0
AZ0042	29 Apr	0230	180	35°20' N 49°00' W	37°45' N 33°40' W	19,000	19,000		389	-10	0
AZ0043	29 Apr	0530	100	37°45' N 33°40' W	38°45' N 27°15' W	20,000	500	Descent on course	389	- 3	0

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AZ0044	29 Apr	0530	100	37°45' N 33°40' W	38°45' N 27°10' W	20,000	500	Descent on course	389	-15	0
AZ0045	28 Apr	0648	180	38°45' N 27°00' W	27° 00' N 25°40' W	20,000	20,000		389	- 9	0
AZ0046	28 Apr	0648	180	38°45' N 27°00' W	27°00' N 25°40' W	20,000	20,000		389	-13	0
AZ0047	28 Apr	0948	182	27°00' N 25°40' W	15°40' N 24°30' W	20,000	20,000		389	25	6
AZ0048	28 Apr	0948	182	27°00' N 25°40' W	15°40' N 24°30' W	20,000	20,000		389	62	16
AZ0049	28 Apr	1250	175	15°40' N 24°30' W	22°00' N 25°10' W	20,000	20,000		389	67	18
AZ0050	28 Apr	1250	175	15°40' N 24°30' W	22°00' N 25°10' W	20,000	20,000		389	119	32
AZ0051	28 Apr	1545	181	22°00' N 25°10' W	32°30' N 26°15' W	20,000	20,000		389	-11	0
AZ0052	28 Apr	1545	181	22°00' N 25°10' W	32°30' N 26°15' W	20,000	20,000		389	- 1	0
AZ0053	28 Apr	1846	165	32°30' N 26°15' W	38°50' N 27°00' W	20,000	20,000		389	- 4	0
AZ0054	28 Apr	1846	165	32°30' N 26°15' W	38°50' N 27°00' W	20,000	20,000		389	- 7	0
AZ0055	29 Apr	1132	193	39°00' N 26°55' W	50°10' N 21°24' W	19,000	19,500		375	- 4	0
AZ0056	29 Apr	1132	193	39°00' N 26°55' W	50°10' N 21°24' W	19,000	19,500		375	16	4

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AZ0057	29 Apr	1445	76	50°10' N 21°24' W	54°12' N 19°24' W	19,500	19,500		375	4	3
AZ0058	29 Apr	1445	76	50°10' N 21°24' W	54°12' N 19°24' W	19,500	19,500		375	7	4
AZ0059	29 Apr	1601	186	54°12' N 19°24' W	41°52' N 25°20' W	19,500	19,500		375	34	9
AZ0060	29 Apr	1501	186	54°12' N 19°24' W	41°52' N 25°20' W	19,500	19,500		375	29	7
AZ0061	29 Apr	1907	45	41°52' N 25°20' W	39°00' N 27°00' W	19,500	2,000	Descent on course	375	51	44
AZ0062	29 Apr	1907	45	41°52' N 25°20' W	39°00' N 27°00' W	19,500	2,000	Descent on course	375	41	36
AZ2021	25 May	2235	15	32°28' N 64°50' W	32°30' N 63°55' W	500	7,000		354	88	198
AZ2023	25 May	2235	10	32°28' N 64°50' W	32°30' N 64°00' W	500	6,500		372	30	101
AZ2025	25 May	2250	30	32°30' N 63°55' W	33°43' N 61°36' W	7,000	11,000		372	197	245
AZ2026	26 May	0020	60	34°33' N 57°33' W	35°26' N 54°37' W	11,000	11,000		372	26	17
AZ2027	25 May	2320	60	33°43' N 61°36' W	34°35' N 57°33' W	11,000	11,000		354	24	16
AZ2028	26 May	0120	60	35°26' N 54°37' W	36°10' N 50°35' W	11,000	11,000		354	25	16
AZ2031	27 May	1530	64	32°20' N 64°40' W	33°15' N 60°20' W	1,000	21,000	Climb on course to 62°00' W.	349	38	29

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AZ2032	27 May	1634	60	33°15' N 60°20' W	34°15' N 55°00' W	20,700	20,700		367	5	4
AZ2033	27 May	1734	61	34°15' N 55°00' W	35°00' N 50°40' W	20,700	20,700		349	40	32
AZ2036	27 May	1835	59	35°00' N 50°40' W	35°45' N 46°25' W	20,600	20,600		367	- 1	0
AZ2037	27 May	1934	60	35°45' N 46°25' W	36°40' N 40°50' W	20,600	20,600		349	35	28
AZ2038	27 May	2034	59	36°40' N 40°50' W	37°20' N 35°50' W	20,700	20,700		367	5	4
AZ2039	27 May	2133	59	37°20' N 35°50' W	38°15' N 30°50' W	20,400	20,400		349	36	29
AZ2040	27 May	2232	67	38°15' N 30°50' W	38°40' N 27°30' W	20,400	500	Descent on course	367	0	0
AZ2089	12 May	0610	180	32°30' N 64°50' W	34°25' N 51°06' W	21,000	21,000		353	33	9
AZ2090	12 May	0910	180	34°25' N 51°06' W	37°15' N 35°28' W	21,150	21,250		353	32	9
AZ2091	12 May	1210	110	37°15' N 35°28' W	38°40' N 27°10' W	21,250	21,250		353	42	18
AZ2094	12 May	2135	180	32°20' N 64°40' W	36°05' N 51°47' W	1,000	21,000	Climb on course to 33°00' N, 60°48' W.	353	53	14
AZ2095	13 May	0035	180	36°05' N 51°47' W	38°14' N 39°24' W	21,000	21,000		353	36	10
AZ2096	13 May	0335	130	38°14' N 39°24' W	38°45' N 27°05' W	21,000	1,000	21,000 ft to 37°48' N, 32°54' W, descending on course.	353	332	98

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ3000	11 May	1445	195	32°20' N 54°30' W	34°20' N 52°30' W	21,000	21,000		366	- 2	0
AZ3001	11 May	1800	130	34°20' N 52°30' W	36°45' N 36°20' W	21,000	21,000		366	17	5
AZ3002	11 May	2100	120	36°45' N 36°20' W	38°45' N 27°00' W	21,000	21,000		366	- 2	0
AZ3008	13 May	1357	179	38°40' N 27°10' W	28°48' N 26°30' W	11,000	11,000		362	22	5
AZ3009	13 May	2250	203	28°48' N 26°30' W	17°00' N 25°10' W	11,000	11,000		362	31	17
AZ3010	14 May	0215	186	17°00' N 25°10' W	28°10' N 26°05' W	11,000	30,000	Climb on course to 21°54' N, 25° 36' W.	362	356	90
AZ3011	14 May	0525	155	28°10' N 26°05' W	38°48' N 26°30' W	21,000	21,000	No descent data recorded	362	67	21
AZ3012	14 May	2205	185	32°20' N 64°45' W	34°50' N 51°45' W	500	20,000	Climb on course to 33°12' N, 60°48' W.	363	32	8
AZ3013	15 May	0110	180	34°50' N 51°45' W	36°55' N 38°10' W	20,000	20,000		363	210	55
AZ3014	13 May	2005	130	38°45' N 27°00' W	45°26' N 14°57' W	1,000	11,000	Climb on course to 39°25' N, 25°52' W.	362	18	4
AZ3015	13 May	2305	180	45°26' N 14°57' W	45°42' N 14°30' W	11,000	21,000	Climb on course to 49°00' N, 28° 00' W, continuing climb to 48°00'N, 09°57' W, then on course to end.	362	22	6
AZ3016	14 May	0205	201	45°42' N 14°30' W	38°45' N 27°00' W	21,000	9,000	21,000 ft to 40°48'N, 23°25' W, then descent on course to end.	362	33	7
AZ3017	15 May	0410	170	36°55' N 38°10' W	38°30' N 27°00' W	20,000	20,000		363	3	1

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ3017A	26 May	0400	60	37°15' N 43°14' W	37°15' N 39°10' W	21,000	21,000		372	9	7
AZ3018	26 May	0300	60	36°50' N 48°02' W	37°15' N 43°14' W	11,000	21,000		354	21	15
AZ3019	26 May	0220	40	36°10' N 50°35' W	36°50' N 48°02' W	11,000	11,000		372	46	45
AZ3020	26 May	0500	60	37°15' N 39°10' W	38°27' N 35°00' W	21,000	21,000		354	74	60
AZ3021	26 May	0600	60	38°27' N 35°00' W	38°30' N 29°50' W	21,000	11,000	Descent on course	372	128	92
AZ3022	26 May	0700	30	38°30' N 29°50' W	38°45' N 27°05' W	11,000	500	Descent on course	354	55	65
AZ3024	13 May	2002	181	38°30' N 27°05' W	29°55' N 26°35' W	1,500	1,500		362	16	3
AZ3025	13 May	2303	177	29°55' N 26°35' W	21°10' N 26°00' W	1,500	1,500		362	7	1
AZ3026	14 May	0200	145	21°10' N 26°00' W	17°10' N 25°45' W	1,500	21,000	Climb to 11,000 ft at 20°30'N, 26° 00'W, to turning point 15°30'N, 25°40' W, continuing climb to end.	362	96	26
AZ3027	14 May	0425	181	17°10' N 25°45' W	28°00' N 25°40' W	21,000	21,000		362	1145	304
AZ3028	14 May	0726	148	28°00' N 25°40' W	37°10' N 26°50' W	21,000	13,000	Begun descent at 36°45' N, 26°45' W.	362	6	2
AZ3030	15 May	1206	180	38°40' N 27°05' W	45°35' N 14°05' W	11,000	11,000		373	2	0
AZ3031	15 May	1506	91	45°35' N 14°05' W	49°00' N 08°00' W	11,000	11,000		373	-18	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ3032	15 May	1637	180	49°00' N 08°00' W	41°50' N 21°45' W	11,000	30,000	Climb on course to 30,000 ft at 46°36' N, 12°48' W.	373	11	4
AZ3033	15 May	1937	97	41°50' N 21°45' W	36°40' N 27°05' W	30,000	11,000	Probably descending beyond 41°15' N, 22°30' W to end.	373	6	4
AZ3035	28 May	0810	60	38°50' N 27°00' W	40°50' N 23°05' W	1,000	1,000		373	3	2
AZ3036	28 May	0910	60	40°50' N 23°05' W	42°40' N 20°04' W	1,000	1,000		357	1	1
AZ3037	28 May	1010	60	42°40' N 20°04' W	44°45' N 16°10' W	1,000	1,000		373	4	2
AZ3038	28 May	1110	25	44°45' N 16°10' W	45°10' N 15°10' W	1,000	1,000		357	9	12
AZ3039	28 May	1135	60	45°10' N 15°10' W	43°36' N 18°18' W	1,000	10,000	Climb on course, reaching 10,000 ft at 44°42' N, 16°30' W.	373	- 6	0
AZ3040	28 May	1235	60	43°36' N 18°18' W	41°50' N 21°50' W	10,000	10,000		357	13	8
AZ3041	28 May	1335	60	41°50' N 21°50' W	39°30' N 25°40' W	10,000	10,000		373	11	7
AZ3042	28 May	1435	17	39°30' N 25°40' W	39°00' N 26°35' W	10,000	10,000		357	7	16
AZ3033A	29 May	0000	75	32°30' N 54°00' W	33°30' N 59°00' W	11,000	11,000		350	29	15
AZ3034	29 May	0115	55	33°30' N 59°00' W	34°00' N 55°30' W	11,000	11,000		384	14	10
AZ3035A	29 May	0210	60	34°00' N 55°30' W	34°55' N 51°00' W	11,000	11,000		350	24	16

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ3036A	29 May	0310	60	34°55' N 51°00' W	35°45' N 48°55' W	11,000	11,000		384	Data Missing	Data Missing
AZ3037A	29 May	0410	120	35°45' N 46°55' W	38°05' N 38°30' W	11,000	11,000		350	9	3
AZ3038A	29 May	0610	60	38°05' N 38°30' W	37°40' N 34°15' W	11,000	11,000		384	12	8
AZ3039A	29 May	0710	60	37°40' N 34°15' W	38°36' N 28°30' W	11,000	11,000		350	67	43
AZ3060	28 May	0730	60	38°50' N 27°07' W	35°58' N 26°40' W	1,000	1,000		357	25	14
AZ3061	28 May	0800	20	37°50' N 27°05' W	36°30' N 26°49' W	1,000	1,000		373	14	23
AZ3062	28 May	0830	60	35°58' N 26°40' W	32°45' N 26°27' W	1,000	1,000		357	25	14
AZ3063	28 May	0945	3	32°06' N 26°08' W	31°55' N 26°00' W	1,000	1,000		373	24	260
AZ3064	28 May	0930	60	32°45' N 26°27' W	29°46' N 26°14' W	1,000	1,000		373	17	9
AZ3065	28 May	1030	60	29°46' N 26°27' W	26°15' N 26°00' W	1,000	1,000		357	34	18
AZ3066	28 May	1130	60	26°15' N 26°00' W	23°05' N 25°41' W	1,000	1,000		357	17	9
AZ3067	28 May	1230	60	23°05' N 25°41' W	20°00' N 25°42' W	1,000	1,000		373	24	13
AZ3068	28 May	1330	60	20°00' N 25°42' N	17°10' N 25°40' W	1,000	1,000		373	5	3

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ3069	28 May	1430	40	17°10' N 25°40' W	14°50' N 25°10' W	1,000	1,000		357	10	8
AZ3070	28 May	1510	80	14°50' N 25°10' W	17°45' N 25°03' W	1,000	21,000		357	32	16
AZ3071	28 May	1630	60	17°45' N 25°03' W	22°35' N 25°30' W	21,000	21,000		373	18	14
AZ3072	28 May	1730	60	22°35' N 25°30' W	26°30' N 25°43' W	21,000	21,000		357	16	13
AZ3073	28 May	1830	80	25°30' N 25°43' W	32°12' N 26°02' W	21,000	21,000		373	6	5
AZ3074	28 May	1950	120	32°12' N 26°02' W	36°20' N 26°50' W	21,000	9,000	Descended on course	373	10	4
AZ3075	28 May	2150	40	36°20' N 26°50' W	38°50' N 27°07' W	9,000	500	Descended on course	357	14	12
AZ4000	29 May	0635	60	38°50' N 27°00' W	40°20' N 24°10' W	1,000	1,000		350	1	1
AZ4001	29 May	0735	60	40°20' N 24°10' W	42°10' N 21°01' W	1,000	1,000		384	-14	0
AZ4002	29 May	0800	5	41°20' N 22°35' W	41°25' N 22°25' W	1,000	1,000		350	3	19
AZ4003	29 May	0835	60	42°10' N 21°01' W	43°40' N 18°05' W	1,000	1,000		384	-16	0
AZ4004	29 May	0935	60	43°40' N 18°05' W	45°25' N 15°20' W	1,000	1,000		350	0	0
AZ4005	29 May	0955	6	44°20' N 17°00' W	44°40' N 16°45' W	1,000	1,000		384	-8	0

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ4006	29 May	1035	60	45°25' N 15°20' W	47°15' N 11°50' W	1,000	1,000		350	10	5
AZ4007	29 May	1135	50	47°15' N 11°50' W	48°45' N 08°45' W	1,000	10,000	Climb on course from 48°05' N, 09°55' W.	384	-24	0
AZ4008	29 May	1225	65	48°45' N 08°45' W	46°30' N 12°50' W	10,000	21,000	Climb on course to 48°30' N, 08°50' W.	350	0	0
AZ4009	29 May	1330	60	46°30' N 12°50' W	44°20' N 17°10' W	21,000	21,000		354	-9	0
AZ4010	29 May	1430	60	44°20' N 17°10' W	42°00' N 21°10' W	21,000	21,000		350	12	10
AZ4011	29 May	1530	55	42°00' N 21°10' W	39°45' N 25°20' W	21,000	21,000		384	-4	0
AZ4012	29 May	1625	40	39°45' N 25°20' W	38°50' N 27°00' W	21,000	1,000	Descent on course.	350	2	2
AZ4025	29 May	1830	60	35°30' N 28°30' W	33°45' N 27°05' W	21,000	1,000	Descent on course	361	-11	0
AZ4026	29 May	1730	60	31°15' N 26°05' W	35°30' N 28°30' W	21,000	21,000		376	11	9
AZ4027	29 May	1630	60	27°35' N 25°35' W	31°15' N 26°05' W	21,000	21,000		376	6	5
AZ4028	29 May	1430	60	22°55' N 25°15' W	24°42' N 25°25' W	21,000	21,000		361	6	5
AZ4029	29 May	1530	60	24°42' N 25°25' W	27°35' N 25°30' W	21,000	21,000		376	6	5
AZ4030	29 May	1330	60	17°30' N 25°35' W	20°55' N 25°10' W	11,000	21,000	Climb on course at 18°48' N, 25°12' W.	361	12	10

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ4031	29 May	1230	60	20°35' N 25°10' W	17°30' N 25°05' W	1,000	11,000	Climb started at 18°48' N, 25°12' W, on course.	361	4	2
AZ4032	29 May	1245	45	19°55' N 25°10' W	17°30' N 25°05' W	1,000	11,000	Climb started at 18°48' N, 25°12' W, on course.	376	18	13
AZ4033	29 May	1130	60	23°20' N 25°20' W	20°35' N 25°10' W	1,000	1,000		361	6	3
AZ4034	29 May	1030	60	26°40' N 25°40' W	23°20' N 25°20' W	1,000	1,000		376	12	6
AZ4035	29 May	0930	60	29°40' N 25°55' W	26°40' N 25°40' W	1,000	1,000		361	13	7
AZ4036	29 May	0830	60	32°35' N 26°20' W	29°40' N 25°55' W	1,000	1,000		376	-4	0
AZ4037	29 May	0730	60	35°30' N 26°40' W	32°35' N 26°20' W	1,000	1,000		361	-4	0
AZ4038	29 May	0635	10	38°50' N 27°00' W	38°45' N 27°00' W	1,000	1,000		376	5	16
AZ4039	29 May	0630	60	38°45' N 27°00' W	35°30' N 26°40' W	1,000	1,000		361	0	0
AZ4040	30 May	0620	70	38°43' N 27°05' W	40°43' N 23°46' W	1,000	1,000		359	-4	0
AZ4041	30 May	0730	60	40°43' N 23°46' W	42°20' N 20°40' W	1,000	1,000		360	13	7
AZ4042	30 May	0830	60	42°20' N 20°40' W	44°47' N 17°30' W	1,000	1,000		359	-1	0
AZ4043	30 May	0930	60	44°47' N 17°30' W	46°46' N 14°08' W	1,000	1,000		360	11	6

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AZ4044	30 May	1030	60	46°46' N 14°08' W	48°25' N 09°38' W	1,000	1,000		359	1	1
AZ4045	30 May	1130	60	48°25' N 09°38' W	48°45' N 11°11' W	1,000	21,000	Climb via 49°30' N, 07°35' W.	360	13	8
AZ4046	30 May	1230	60	48°45' N 11°11' W	45°32' N 14°12' W	21,000	21,000		359	0	0
AZ4047	30 May	1330	75	45°32' N 14°12' W	41°50' N 18°45' W	21,000	21,000		360	10	6
AZ4048	30 May	1445	45	41°50' N 18°45' W	41°05' N 23°00' W	21,000	21,000		359	-26	0
AZ4049	30 May	1530	75	41°05' N 23°00' W	39°20' N 27°10' W	21,000	500	Descended on course	360	- 2	0
AZ4060	30 May	0620	60	38°45' N 26°50' W	34°42' N 26°46' W	1,000	1,000		359	2	1
AZ4061	18 May	0620	184	33°00' N 12°35' E	36°25' N 00°22' E	21,000	21,000		362	117	31
AZ4061A	30 May	0720	60	34°42' N 26°46' W	32°53' N 26°37' W	1,000	1,000		360	9	5
AZ4062	18 May	0924	180	36°25' N 00°22' E	37°40' N 14°20' W	21,000	21,000		362	51	17
AZ4062A	30 May	0820	60	32°53' N 26°37' W	29°48' N 26°12' W	1,000	1,000		359	0	0
AZ4063	18 May	1224	164	37°40' N 14°20' W	38°45' N 27°00' W	21,000	21,000		362	193	50
AZ4063A	30 May	0920	60	29°48' N 26°12' W	26°50' N 26°00' W	1,000	1,000		360	4	2

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AZ4064	30 May	1020	60	26°50' N 26°00' W	24°00' N 26°00' W	1,000	1,000		359	1	1
AZ4065	30 May	1120	60	24°00' N 26°00' W	21°00' N 25°35' W	1,000	1,000		360	5	3
AZ4066	30 May	1220	60	21°00' N 25°35' W	18°50' N 25°25' W	1,000	1,000		359	6	3
AZ4067	30 May	1320	55	18°50' N 25°25' W	15°25' N 25°05' W	1,000	1,000		360	10	7
AZ4068	30 May	1415	40	15°25' N 25°05' W	15°25' N 25°00' W	1,000	21,000	Climb to 13,000 ft at 14°00' N, 25°00' W, turn and continue climb	359	17	17
AZ4069	30 May	1455	60	15°25' N 25°00' W	18°55' N 25°25' W	21,000	21,000		360	36	29
AZ4070	30 May	1555	60	18°55' N 25°25' W	22°50' N 25°45' W	21,000	21,000		359	19	15
AZ4071	30 May	1655	60	22°50' N 25°45' W	26°35' N 26°10' W	21,000	21,000		360	30	24
AZ4072	30 May	1755	60	26°35' N 26°10' W	30°24' N 26°18' W	21,000	21,000		359	3	2
AZ4073	30 May	1855	60	30°24' N 26°18' W	35°25' N 26°45' W	21,000	21,000		360	13	8
AZ4074	30 May	2015	60	35°25' N 26°45' W	38°45' N 26°50' W	21,000	2,000	Descending on course from 37°00' N, 27°00' W.	359	8	6
AZ4100	31 May	0710	60	38°42' N 27°05' W	35°45' N 26°50' W	1,000	1,000		348	3	4
AZ4101	31 May	0810	60	35°45' N 25°50' W	32°35' N 26°30' W	1,000	1,000		358	4	2

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AZ4102	31 May	0910	60	32°35' N 26°30' W	29°30' N 26°15' W	1,000	1,000		348	10	5
AZ4103	31 May	1010	60	29°30' N 26°15' W	26°10' N 25°50' W	1,000	1,000		370	-5	0
AZ4104	31 May	1110	60	26°10' N 25°50' W	23°10' N 25°35' W	1,000	1,000		348	6	3
AZ4105	31 May	1210	60	23°10' N 25°35' W	20°05' N 25°25' W	1,000	1,000		370	-5	0
AZ4106	31 May	1310	60	20°05' N 25°25' W	16°30' N 24°25' W	1,000	10,000	Climbing on course from 18°40' N, 25°18' W.	348	18	11
AZ4107	31 May	1410	50	16°30' N 24°25' W	15°00' N 24°00' W	10,000	10,000		370	18	14
AZ4108	31 May	1500	60	15°00' N 24°00' W	18°35' N 20°25' W	10,000	21,000	Climb on course to 21,000 ft at 17°06' N, 25°12' W.	348	29	22
AZ4109	31 May	1600	60	18°35' N 20°25' W	22°10' N 25°40' W	21,000	21,000		370	8	6
AZ4110	31 May	1700	60	22°10' N 25°20' W	25°40' N 25°40' W	21,000	21,000		348	22	18
AZ4111	31 May	1800	60	25°40' N 25°40' W	29°50' N 26°15' W	21,000	21,000		370	-13	0
AZ4112	31 May	1900	60	29°50' N 26°15' W	33°45' N 26°40' W	21,000	21,000		348	9	7
AZ4113	31 May	2000	60	33°45' N 26°40' W	37°10' N 27°00' W	21,000	21,000		370	-12	0
AZ4114	31 May	2100	45	37°10' N 27°00' W	38°50' N 27°00' W	21,000	1,000	Descending on course	348	16	14

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AZ4120	31 May	0813	60	39°00' N 26°20' W	40°35' N 23°30' W	1,000	1,000		348	5	3
AZ4121	31 May	0913	67	40°35' N 23°30' W	42°40' N 20°00' W	1,000	1,000		390	-22	0
AZ4149	1 Jun	0645	60	39°00' N 25°45' W	40°44' N 23°30' W	1,000	1,000		410	-56	0
AZ4150	1 Jun	0745	60	40°44' N 23°30' W	42°35' N 20°20' W	1,000	1,000		410	-48	0
AZ4151	1 Jun	0845	60	42°35' N 20°20' W	44°20' N 17°05' W	1,000	1,000		410	-55	0
AZ4152	1 Jun	0945	60	44°20' N 17°05' W	46°20' N 13°00' W	1,000	1,000		410	-42	0
AZ4153	1 Jun	1030	60	45°45' N 14°45' W	47°55' N 10°00' W	1,000	1,000		410	-43	0
AZ4154	1 Jun	1045	60	46°20' N 13°00' W	48°30' N 08°55' W	1,000	1,000		410	-52	0
AZ4155	1 Jun	1130	75	45°57' N 10°00' W	47°20' N 11°15' W	1,000	15,000	Climb on course from 48°30' N, 08°55' W.	410	-33	0
AZ4156	1 Jun	1145	60	48°30' N 08°55' W	47°20' N 11°15' W	1,000	15,000	Climb on course from 48°30' N, 08°55' W.	410	-47	0
AZ4157	1 Jun	1245	80	47°20' N 11°15' W	44°48' N 16°18' W	15,000	21,000		410	-33	0
AZ4158	1 Jun	1405	80	44°48' N 16°18' W	43°00' N 22°00' W	21,000	21,000		370	- 5	0
AZ4159	1 Jun	1525	80	43°00' N 22°00' W	39°48' N 25°18' W	21,000	21,000		410	-43	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
AZ4164	1 Jun	0535	65	38°45' N 27°10' W	35°25' N 27°00' W	1,000	1,000		370	-9	0
AZ4165	1 Jun	0740	60	35°25' N 27°00' W	32°15' N 26°25' W	1,000	1,000		410	-48	0
AZ4166	1 Jun	0840	60	32°15' N 26°25' W	29°00' N 26°10' W	1,000	1,000		370	-7	0
AZ4167	1 Jun	0940	60	29°00' N 26°10' W	26°00' N 25°55' W	1,000	1,000		410	-36	0
AZ4168	1 Jun	1040	60	26°00' N 25°55' W	22°35' N 25°35' W	1,000	1,000		370	-20	0
AZ4169	1 Jun	1140	60	22°35' N 25°35' W	19°15' N 25°20' W	1,000	1,000		410	-44	0
AZ4170	1 Jun	1240	60	19°15' N 25°20' W	15°18' N 25°00' W	1,000	1,000		370	-16	0
AZ4171	1 Jun	1340	45	15°18' N 25°00' W	14°00' N 25°00' W	1,000	10,000	Climbed on course	370	23	18
AZ4172	1 Jun	1425	70	14°00' N 25°00' W	19°35' N 25°20' W	10,000	20,000	Climbed on course	410	-34	0
AZ4173	1 Jun	1535	60	19°35' N 25°20' W	23°05' N 25°30' W	20,000	20,000		410	-25	0
AZ4174	1 Jun	1635	60	23°05' N 25°30' W	27°00' N 26°00' W	20,000	20,000		370	- 7	0
AZ4175	1 Jun	1735	60	27°00' N 26°00' W	30°00' N 26°10' W	20,000	20,000		410	-29	0
AZ4176	1 Jun	1835	60	30°00' N 26°10' W	33°00' N 26°35' W	20,000	20,000		370	-13	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
A24177	1 Jun	1935	65	33°00' N 26°35' W	38°00' N 26°50' W	20,000	20,000		410	-46	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM2001	8 May	1030	180	32°00' N 65°00' W	25°00' N 69°00' W	11,000 ft	11,000 ft		359	265	58
BM2002	8 May	1330	180	25°00' N 69°00' W	14°00' N 75°00' W	11,000 ft	11,000 ft		359	187	41
BM2003	8 May	1630	65	14°00' N 75°00' W	11°00' N 77°00' W	11,000 ft	Unknown	Climb data not recorded.	359	37	22
BM2004	8 May	1735	180	11°00' N 77°00' W	22°00' N 70°00' W	Unknown	30,000 ft	Climb data not recorded.	359	4751	1562
BM2005	8 May	2035	150	22°00' N 70°00' W	31°00' N 65°00' W	30,000 ft	18,000 ft	Descending on course.	359	3413	1167
BM2006	8 May	1045	215	32°50' N 64°25' W	45°00' N 55°00' W	11,000 ft	11,000 ft		359	57	10
BM2007	8 May	1420	182	45°00' N 55°00' W	36°10' N 61°50' W	11,000 ft	27,000 ft	Climb to 21,000 ft at 43°00' N, continuing climb at 40°30' N.	350	101	30
BM2011	8 May	1033	180	32°15' N 64°45' W	41°07' N 58°12' W	1,000 ft	1,000 ft		350	4	1
BM2012	8 May	1333	73	41°07' N 58°12' W	45°00' N 55°00' W	1,000 ft	1,000 ft		359	36	17
BM2013	8 May	1446	180	45°00' N 55°00' W	36°34' N 61°45' W	1,000 ft	21,000 ft	Climb at 42°18' N, 57°30' W.	350	278	74
BM2014	8 May	1746	84	36°34' N 61°45' W	33°57' N 64°20' W	21,000 ft	21,000 ft		359	135	77
BM2016	8 May	1030	180	32°20' N 64°50' W	25°10' N 69°05' W	1,000 ft	1,000 ft		350	- 3	0
BM2017	8 May	1330	180	25°10' N 69°05' W	19°10' N 74°15' W	1,000 ft	1,000 ft		350	11	2

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM2018	8 May	1630	90	19°10' N 74°15' W	14°40' N 75°45' W	1,000 ft	20,000 ft	Start climb at 15°12' N, 75°42' W.	350	30	12
BM2019	8 May	1800	190	14°40' N 75°45' W	24°40' N 69°55' W	20,000 ft	20,000 ft		350	3060	756
BM2020	8 May	2110	145	24°40' N 69°55' W	32°20' N 64°45' W	20,000 ft	20,000 ft		350	1042	337
BM2021	9 May	1045	180	32°20' N 64°50' W	24°50' N 69°40' W	11,000 ft	11,000 ft		358	236	51
BM2022	9 May	1345	180	24°50' N 69°40' W	14°55' N 75°05' W	11,000 ft	11,000 ft		358	295	64
BM2023	9 May	1645	66	14°55' N 75°05' W	11°00' N 77°00' W	11,000 ft	30,000 ft	Start climb at 12°30' N.	351	41	26
BM2024	9 May	1751	194	11°00' N 77°00' W	23°25' N 70°15' W	30,000 ft	30,000 ft		359	4167	1271
BM2025	9 May	2105	132	23°25' N 70°15' W	32°20' N 64°50' W	30,000 ft	30,000 ft		351	407	182
BM2026	9 May	1100	183	32°15' N 64°50' W	24°35' N 69°30' W	1,000 ft	1,000 ft		358	11	2
BM2027	9 May	1403	180	24°35' N 69°30' W	18°00' N 75°05' W	1,000 ft	1,000 ft		351	24	4
BM2028	9 May	1703	102	18°00' N 75°05' W	13°30' N 77°00' W	1,000 ft	1,000 ft		358	17	5
BM2029	9 May	1845	180	13°30' N 77°00' W	23°00' N 71°40' W	1,000 ft	20,000 ft	Climb at 15°36' N, 76°30' W.	359	1101	287
BM2030	9 May	2145	170	23°00' N 71°40' W	31°30' N 65°30' W	20,000 ft	20,000 ft		350	991	273

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM2031	9 May	1240	180	32°42' N 64°25' W	42°20' N 57°40' W	2,000 ft	11,500 ft		358	21	4
BM2032	9 May	1540	50	42°20' N 57°40' W	45°00' N 55°00' W	11,500 ft	11,500 ft		351	- 3	0
BM2036	9 May	1100	120	32°20' N 64°45' W	34°15' N 62°55' W	10,000 ft	10,000 ft		351	6	2
BM2037	9 May	1350	180	32°20' N 64°45' W	39°15' N 59°45' W	1,000 ft	1,000 ft		358	15	3
BM2038	9 May	1650	115	39°15' N 59°45' W	45°00' N 55°00' W	1,000 ft	1,000 ft		351	- 4	0
BM2039	9 May	1845	180	45°00' N 55°00' W	36°35' N 61°50' W	1,000 ft	20,000 ft	Climb to 15,000 ft at 43°42' N, 56°06' W, continuing climb at 40°54' N, 58°18' W.	358	33	8
BM2040	9 May	2145	75	36°35' N 61°50' W	32°20' N 64°45' W	20,000 ft	20,000 ft		351	8	5
BM2041	10 May	1030	180	31°00' N 64°00' W	22°00' N 59°00' W	6,000 ft	11,000 ft	Climb to 30°06' N, 63°30' W, on course.	358	151	31
BM2042	10 May	1330	180	22°00' N 59°00' W	12°00' N 54°30' W	11,000 ft	11,000 ft		351	293	63
BM2043	10 May	1630	180	12°00' N 54°30' W	24°15' N 60°35' W	11,000 ft	30,000 ft	Climb to 26,000 ft at 14°12' N, 55°30' W, continuing climb at 17°48' N, 57°30' W.	359	6188	1800
BM2044	10 May	1930	110	24°15' N 60°35' W	30°40' N 64°00' W	30,000 ft	7,000 ft	Descent begun at 27°45'N, 62° 15' W, continuing descent to 30°40'N, 64°00' W.	351	337	129
BM2046	10 May	1035	180	32°15' N 54°50' W	40°55' N 59°15' W	1,000 ft	11,000 ft	Climbed on course to 34°15' N	358	52	11
BM2047	10 May	1335	83	40°55' N 59°15' W	45°00' N 54°45' W	11,000 ft	11,000 ft		351	104	59

*BM2033 listed after BM5034

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM2048	10 May	1458	182	45°00' N 54°40' W	37°30' N 63°15' W	11,000 ft	30,000 ft	Climbed on course to 42°20' N, 56°40' W.	358	33	9
BM2049	10 May	1800	70	37°30' N 63°15' W	32°10' N 64°50' W	30,000 ft	1,000 ft	Descent on course started at 36°54' N, 61°36' W	358	29	17
BM2051	10 May	1100	180	32°10' N 64°35' W	23°55' N 60°16' W	1,000 ft	1,000 ft		351	25	5
BM2052	10 May	1400	200	23°55' N 60°16' W	15°15' N 56°00' W	1,000 ft	1,000 ft		358	19	3
BM2053	10 May	1720	98	15°15' N 56°00' W	11°10' N 54°05' W	1,000 ft	1,000 ft		358	23	8
BM2054	10 May	1858	227	11°10' N 54°05' W	23°08' N 59°50' W	1,000 ft	21,000 ft	Climbed on course to 14°18' N, 55°36' W.	350	1503	318
BM2055	10 May	2245	160	23°08' N 59°50' W	32°10' N 64°40' W	21,000 ft	21,000 ft		358	97	29
BM2056	10 May	1056	180	32°25' N 64°35' W	40°08' N 58°55' W	1,000 ft	1,000 ft		351	- 4	0
BM2057	10 May	1356	99	40°08' N 58°55' W	45°00' N 55°00' W	1,000 ft	1,000 ft		358	33	11
BM2058	10 May	1535	185	45°00' N 55°00' W	35°50' N 62°10' W	1,000 ft	21,000 ft	Climb on course started at 45°00'N 55°00'W to 43°48'N, 56°00' W.	351	13	3
BM2059	10 May	1840	62	35°50' N 62°10' W	32°20' N 64°40' W	21,000 ft	1,000 ft	Descent on course started at 25° 12'N, 62°36'W, continuing at 33° 48'N, 63°42'W from 12,000 ft.	358	14	9
BM2061	11 May	1040	180	32°10' N 64°43' W	21°30' N 58°35' W	11,000 ft	11,000 ft		358	32	7
BM2062	11 May	1340	180	21°30' N 58°35' W	11°00' N 54°00' W	11,000 ft	11,000 ft		351	319	69

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BM2063	11 May	1640	180	11°00' N 54°00' W	22°30' N 59°20' W	11,000 ft	29,000 ft	Climb on course started at 11°00'N, 54°36'W to 25,000 ft at 14°00'N, 55°18'W, to 28,000 ft at 17°06'N, 56°30' W cont. climb to 20°12'N, 58°00'W	358	2372	724
BM2064	11 May	1940	140	22°30' N 59°20' W	32°10' N 64°43' W	29,000 ft	29,000 ft		351	152	60
BM2066	11 May	1110	180	32°17' N 64°38' W	24°38' N 60°20' W	1,000 ft	1,000 ft		358	26	5
BM2068	11 May	1710	100	16°40' N 56°36' W	12°35' N 54°44' W	1,000 ft	1,000 ft		351	6	2
BM2069	11 May	1850	215	12°35' N 54°44' W	21°36' N 58°50' W	1,000 ft	21,000 ft	Climb on course to 12°00'N, 54°30' W	359	7577	1365
BM2070	11 May	2226	170	21°36' N 58°50' W	31°30' N 64°15' W	21,000 ft	5,500 ft	Started descent on course at 29°15'N, 62°54' W.	350	439	105
BM2071	11 May	1050	180	32°20' N 64°45' W	40°55' N 58°15' W	1,000 ft	1,000 ft		358	15	3
BM2072	11 May	1350	100	40°55' N 58°15' W	45°00' N 55°00' W	1,000 ft	1,000 ft		351	3	1
BM2073	11 May	1530	210	45°00' N 55°00' W	33°10' N 54°10' W	1,000 ft	10,000 ft	Climb on course to 20,000 ft at 43°45'N, 56°00'W, and let down at end.	358	37	7
BM2076	11 May	1048	181	33°00' N 64°20' W	41°35' N 57°45' W	11,000 ft	11,000 ft		351	58	13
BM2077	11 May	1349	61	41°35' N 57°45' W	45°00' N 55°00' W	11,000 ft	11,000 ft		358	10	6
BM2078	11 May	1450	195	45°00' N 55°00' W	32°50' N 64°30' W	11,000 ft	30,000 ft	Climb on course at 42°15'N, 56°40'W start descent at 36°00'N, 62°00' W	351	23	5
BM2082	8 May	2030	40	38°15' N 121°55'W	37°46' N 118°14' W	1,000 ft	21,000 ft	No pirepe available.	351	-28	0

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BM2083	8 May	2110	120	37°46' N 118°14' W	37°00' N 105°40' W	21,000 ft	21,000 ft		358	17	7
BM2084	8 May	2310	120	37°00' N 105°40' W	36°15' N 94°30' W	21,000 ft	21,000 ft		351	21	9
BM2085	9 May	0110	120	36°15' N 94°30' W	34°45' N 83°42' W	22,000 ft	22,000 ft		358	-53	0
BM2086	9 May	0310	120	34°48' N 83°42' W	33°45' N 73°00' W	22,500 ft	22,500 ft		351	31	13
BM2087	9 May	0510	55	33°45' N 73°00' W	33°00' N 67°55' W	21,100 ft	21,100 ft		351	- 2	0
BM2088	9 May	0605	45	33°00' N 67°55' W	32°27' N 64°41' W	21,100 ft	1,500 ft	No pireps available	358	9	8
BM3017	19 May	2332	48	38°20' N 122°00' W	39°37' N 119°43' W	500 ft	21,000 ft		364	10	8
BM3018	20 May	0020	120	39°37' N 119°43' W	43°45' N 109°30' W	21,000 ft	21,000 ft		346	25	10
BM3019	20 May	0220	120	43°45' N 105°30' W	43°45' N 98°50' W	21,000 ft	21,000 ft		364	130	52
BM3020	20 May	0420	120	43°45' N 98°50' W	41°45' N 89°03' W	21,000 ft	21,000 ft		346	83	33
BM3021	20 May	0620	120	41°45' N 89°03' W	37°30' N 80°50' W	21,000 ft	21,000 ft		364	184	74
BM3022	20 May	0820	120	37°30' N 80°45' W	33°08' N 71°10' W	21,000 ft	21,000 ft		346	105	42

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM3023	20 May	1020	120	33°08' N 71°10' W	32°20' N 64°58' W	21,000 ft	1,000 ft		346	105	34
BM3024	20 May	0300	120	38°30' N 121°55' W	40°00' N 112°25' W	6,000 ft	21,000 ft		364	17	5
BM3025	20 May	0500	120	40°00' N 112°25' W	40°35' N 102°30' W	21,000 ft	21,000 ft		346	74	30
BM3026	20 May	0700	120	40°35' N 102°30' W	39°00' N 93°50' W	21,000 ft	21,000 ft		364	112	45
BM3027	20 May	0900	120	39°00' N 93°50' W	37°30' N 85°10' W	21,000 ft	21,000 ft		346	212	85
BM3028	20 May	1100	120	37°30' N 85°10' W	35°05' N 73°55' W	21,000 ft	21,000 ft		364	181	73
BM3029	20 May	1300	120	35°05' N 73°55' W	33°00' N 65°00' W	21,000 ft	14,000 ft		346	76	30
BM3030	20 May	1500	45	33°00' N 56°00' W	32°15' N 64°50' W	14,000 ft	1,000 ft		364	75	60
BM3031	24 May	1015	60	32°10' N 64°45' W	29°30' N 66°30' W	1,000 ft	1,000 ft		353	14	8
BM3032	24 May	1115	60	29°30' N 66°30' W	26°45' N 68°25' W	1,000 ft	1,000 ft		369	26	14
BM3033	24 May	1215	60	26°45' N 68°25' W	23°40' N 70°05' W	1,000 ft	1,000 ft		353	- 4	0
BM3034	24 May	1315	60	23°40' N 70°05' W	22°00' N 71°40' W	1,000 ft	1,000 ft		369	1	0
BM3035	24 May	1415	60	22°00' N 71°40' W	20°00' N 72°30' W	1,000 ft	1,000 ft		353	-12	0

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BM3036	24 May	1515	60	20°00' N 72°30' W	17°30' N 74°40' W	1,000 ft	1,000 ft		369	10	5
BM3037	24 May	1615	60	17°30' N 74°40' W	15°30' N 75°20' W	1,000 ft	1,000 ft		353	- 6	0
BM3038	24 May	1715	60	15°30' N 75°20' W	11°40' N 76°50' W	1,000 ft	1,000 ft		369	17	9
BM3039	24 May	1815	60	11°40' N 76°50' W	15°20' N 74°55' W	1,000 ft	21,000 ft	Climbed on course to 13°12' N, 75°54' W.	369	67	44
BM3040	24 May	1915	60	15°20' N 74°55' W	19°10' N 73°15' W	21,000 ft	21,000 ft		353	90	72
BM3041	24 May	2015	60	19°10' N 73°15' W	22°45' N 70°40' W	21,000 ft	21,000 ft		369	71	57
BM3042	24 May	2115	60	22°45' N 70°40' W	26°40' N 68°20' W	21,000 ft	21,000 ft		353	146	117
BM3043	24 May	2215	85	26°40' N 68°20' W	32°10' N 64°50' W	21,000 ft	8,000 ft	Start descent on course at 29°30' N, 66°30' W.	369	- 3	0
BM3044	24 May	1115	60	29°30' N 66°30' W	26°45' N 68°25' W	1,000 ft	1,000 ft		353	15	8
BM3050	26 May	0915	55	32°20' N 64°25' W	29°30' N 66°45' W	1,000 ft	1,000 ft		382	0	0
BM3051	26 May	1020	55	29°30' N 66°45' W	27°25' N 68°00' W	1,000 ft	1,000 ft		359	4	2
BM3052	26 May	1115	75	27°25' N 68°00' W	25°10' N 69°30' W	1,000 ft	1,000 ft		359	- 5	0
BM3053	26 May	1230	45	25°10' N 69°30' W	23°15' N 70°35' W	1,000 ft	1,000 ft		359	103	74

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM3054	26 May	1315	60	23°15' N 70°35' W	20°50' N 72°20' W	1,000 ft	1,000 ft		359	57	31
BM3055	26 May	1415	60	20°50' N 72°20' W	18°30' N 74°30' W	1,000 ft	1,000 ft		359	37	20
BM3056	26 May	1515	60	18°30' N 74°30' W	15°35' N 75°25' W	1,000 ft	1,000 ft		382	-21	0
BM3057	26 May	1615	60	15°35' N 75°25' W	13°00' N 76°15' W	1,000 ft	1,000 ft		359	9	5
BM3058	26 May	1715	60	13°00' N 76°15' W	12°10' N 76°30' W	1,000 ft	1,000 ft		384	-15	0
BM3062	26 May	2110	60	25°20' N 68°15' W	29°00' N 65°45' W	21,000 ft	21,000 ft		382	33	26
BM3063	26 May	2210	60	29°00' N 65°45' W	32°20' N 64°40' W	21,000 ft	100 ft		359	36	23
BM4048	2 Jun	0735	60	38°50' N 27°05' W	38°20' N 30°45' W	1,000 ft	10,000 ft		371	8	5
BM4049	2 Jun	0835	55	38°20' N 30°45' W	37°30' N 35°00' W	10,000 ft	10,000 ft		371	5	4
BM4050	2 Jun	0930	60	37°30' N 35°00' W	36°55' N 38°50' W	10,000 ft	10,000 ft		371	0	0
BM4051	2 Jun	1030	60	36°55' N 38°50' W	36°00' N 43°10' W	10,000 ft	10,000 ft		371	15	10
BM4052	2 Jun	1130	60	36°00' N 43°10' W	35°15' N 47°10' W	10,000 ft	10,000 ft		371	0	0
BM4053	2 Jun	1230	60	35°15' N 47°10' W	34°40' N 51°10' W	10,000 ft	10,000 ft		371	11	7

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM4054	2 Jun	1330	60	34°40' N 51°10' W	34°00' N 55°00' W	10,000 ft	10,000 ft		371	1	1
BM4055	2 Jun	1430	60	34°00' N 55°00' W	33°30' N 58°50' W	10,000 ft	10,000 ft		371	6	4
BM4056	2 Jun	1530	60	33°30' N 58°50' W	33°00' N 62°25' W	10,000 ft	10,000 ft		371	20	13
BM4057	2 Jun	1630	45	33°00' N 62°25' W	32°20' N 64°45' W	10,000 ft	1,000 ft	No descent data recorded	371	17	13
BM4076	3 Jun	0808	60	39°00' N 27°40' W	38°20' N 32°00' W	10,000 ft	10,000 ft		358	5	3
BM4077	3 Jun	0908	60	38°20' N 32°00' W	37°40' N 36°00' W	10,000 ft	10,000 ft		358	- 138	0
BM4078	3 Jun	1008	60	37°40' N 36°00' W	36°50' N 40°00' W	10,000 ft	10,000 ft		358	- 20	0
BM4079	3 Jun	1108	64	36°50' N 40°00' W	36°15' N 44°30' W	10,000 ft	10,000 ft		358	- 27	0
BM4080	30 May	0500	60	38°20' N 27°10' W	39°00' N 30°30' W	500 ft	Unknown	Climb data not recorded	357	- 4	0
BM4081	30 May	0600	60	39°00' N 30°30' W	38°15' N 35°00' W	Unknown	11,000 ft	Climb data not recorded	353	3	2
BM4082	30 May	0700	60	38°15' N 35°00' W	37°30' N 39°10' W	11,000 ft	11,000 ft		357	11	7
BM4083	30 May	0800	60	37°30' N 39°10' W	36°50' N 43°10' W	11,000 ft	11,000 ft		352	- 1	0
BM4084	30 May	0900	60	36°50' N 43°10' W	36°05' N 47°30' W	11,000 ft	11,000 ft		357	9	6

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM4085	30 May	1000	60	36°05' N 47°30' W	35°25' N 51°30' W	11,000 ft	11,000 ft		353	1	1
BM4086	30 May	1100	60	35°25' N 51°30' W	34°40' N 56°10' W	11,000 ft	11,000 ft		357	- 2	0
BM4087	30 May	1200	60	34°40' N 56°10' W	33°45' N 60°30' W	11,000 ft	11,000 ft		353	3	2
BM4088	30 May	1300	60	33°45' N 60°30' W	32°15' N 64°15' W	11,000 ft	11,000 ft		357	37	24
BM4115	3 Jun	1212	60	36°15' N 44°30' W	35°20' N 49°00' W	10,000 ft	10,000 ft		358	- 68	0
BM4116	3 Jun	1312	60	35°20' N 49°00' W	34°40' N 53°30' W	10,000 ft	10,000 ft		358	9	6
BM4139	31 May	0710	80	38°40' N 27°15' W	38°50' N 32°07' W	1,000 ft	11,000 ft	Climb data not recorded	359	12	5
BM4140	31 May	0830	60	38°50' N 32°07' W	37°37' N 36°25' W	11,000 ft	11,000 ft		359	12	8
BM4141	31 May	0930	60	37°37' N 36°25' W	36°55' N 40°55' W	11,000 ft	11,000 ft		359	5	3
BM4142	31 May	1030	60	36°55' N 40°55' W	36°34' N 45°07' W	11,000 ft	11,000 ft		359	10	7
BM4143	31 May	1130	60	36°34' N 45°07' W	36°00' N 49°35' W	11,000 ft	11,000 ft		359	19	12
BM4144	31 May	1230	60	36°00' N 49°35' W	34°30' N 53°25' W	11,000 ft	11,000 ft		359	9	6
BM4145	31 May	1330	60	34°30' N 53°25' W	33°31' N 58°05' W	11,000 ft	11,000 ft		359	13	8

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM4146	31 May	1430	45	33°31' N 58°05' W	32°58' N 61°15' W	11,000 ft	11,000 ft		359	13	11
BM4147	31 May	1515	60	32°58' N 61°15' W	32°15' N 64°15' W	11,000 ft	1,000 ft	Data not recorded	359	16	10
BM5000	4 Jun	1115	57	38°15' N 38°00' W	37°30' N 34°30' W	10,000 ft	10,000 ft		360	- 7	0
BM5001	4 Jun	1212	60	37°30' N 34°30' W	37°00' N 38°40' W	10,000 ft	10,000 ft		360	1	0
BM5002	4 Jun	1312	63	37°00' N 38°40' W	36°15' N 43°00' W	10,000 ft	10,000 ft		360	- 2	0
BM5003	4 Jun	1415	60	36°15' N 43°00' W	35°35' N 47°05' W	10,000 ft	10,000 ft		360	- 2	0
BM5004	4 Jun	1515	60	35°35' N 47°05' W	34°50' N 51°05' W	10,000 ft	10,000 ft		360	-19	0
BM5005	4 Jun	1615	60	34°50' N 51°05' W	34°00' N 55°15' W	10,000 ft	10,000 ft		360	10	6
BM5006	4 Jun	1715	60	34°00' N 55°15' W	33°40' N 57°00' W	10,000 ft	10,000 ft		360	-18	0
BM5007	4 Jun	1815	60	33°40' N 57°00' W	33°05' N 60°55' W	10,000 ft	10,000 ft		360	- 4	0
BM5008	4 Jun	1915	35	33°05' N 60°55' W	32°40' N 62°45' W	10,000 ft	10,000 ft		360	-10	0
BM5009	4 Jun	1950	25	32°40' N 62°45' W	32°22' N 64°40' W	10,000 ft	10,000 ft		360	12	18
BM5010	5 Jun	0953	97	38°42' N 31°15' W	37°17' N 40°50' W	10,000 ft	10,000 ft		360	9	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM5011	5 Jun	1130	60	37°17' N 40°50' W	36°39' N 42°30' W	10,000 ft	10,000 ft		360	4	3
BM5012	5 Jun	1230	60	35°39' N 42°30' W	35°50' N 48°00' W	10,000 ft	10,000 ft		360	0	0
BM5013	5 Jun	1330	60	35°50' N 48°00' W	35°15' N 52°05' W	10,000 ft	10,000 ft		360	20	13
BM5014	5 Jun	1430	60	35°15' N 52°05' W	34°25' N 56°18' W	10,000 ft	10,000 ft		360	8	5
BM5015	5 Jun	1530	60	34°25' N 56°18' W	33°38' N 60°15' W	10,000 ft	10,000 ft		360	4	3
BM5016	5 Jun	1630	60	33°38' N 60°15' W	35°00' N 64°00' W	10,000 ft	10,000 ft		360	3	2
BM5017	5 Jun	1730	60	35°00' N 64°00' W	33°15' N 65°00' W	10,000 ft	10,000 ft		360	9	6
BM5018	5 Jun	1830	60	33°15' N 65°00' W	32°00' N 64°00' W	10,000 ft	10,000 ft		360	7	4
BM5019	15 Jun	1030	195	33°00' N 65°00' W	40°10' N 57°30' W	1,500 ft	18,500 ft	No climb data recorded	358	8	2
BM5020	15 Jun	1345	155	40°10' N 57°30' W	40°10' N 67°00' W	18,500 ft	18,500 ft		358	17	5
BM5021	15 Jun	1620	210	40°10' N 67°00' W	30°05' N 74°14' W	18,000 ft	Unknown	No descent data recorded	358	9	2
BM5022	15 Jun	1950	165	30°05' N 74°14' W	32°20' N 64°50' W	Unknown	1,500 ft	No descent data recorded	358	- 2	0
BM5023	16 Jun	0945	175	32°28' N 64°55' W	40°10' N 57°25' W	1,500 ft	Unknown	No climb data recorded	358	1	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BM5024	16 Jun	1240	80	40°10' N 57°25' W	40°50' N 59°00' W	Unknown	18,000 ft	No climb data recorded	358	- 4	0
BM5025	16 Jun	1400	125	40°50' N 59°00' W	39°15' N 67°50' W	18,000 ft	18,000 ft		358	13	5
BM5026	16 Jun	1605	150	39°15' N 67°50' W	31°10' N 73°10' W	18,000 ft	Unknown	No descent data recorded	358	- 1	0
BM5027	16 Jun	1835	55	31°10' N 73°10' W	30°40' N 72°15' W	Unknown	1,500 ft	No descent data recorded	358	9	3
BM5028	16 Jun	1930	105	30°40' N 72°15' W	32°28' N 64°55' W	1,500 ft	1,500 ft		358	16	5
BM5029	17 Jun	0943	180	32°22' N 64°45' W	40°00' N 57°40' W	1,500 ft	1,500 ft		358	11	2
BM5030	17 Jun	1243	42	40°00' N 57°40' W	41°12' N 56°10' W	1,500 ft	18,000 ft	Spiral climb at end.	358	11	2
BM5031	17 Jun	1325	130	41°12' N 56°10' W	40°10' N 67°00' W	18,000 ft	18,000 ft		358	25	9
BM5032	17 Jun	1535	185	40°10' N 67°00' W	30°50' N 73°45' W	18,000 ft	18,000 ft		358	12	3
BM5033	17 Jun	1840	50	30°50' N 73°45' W	30°05' N 74°14' W	18,000 ft	1,500 ft	Descent on course	358	0	0
BM5034	17 Jun	1930	166	30°05' N 74°14' W	32°22' N 64°45' W	1,500 ft	1,500 ft		358	7	1
BM2033	9 May	1630	200	45°00' N 55°00' W	32°20' N 64°38' W	11,500 ft	11,500 ft		358	35	7

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0001	22 Apr	1420	180	30°40' N 67°45' W	25°57' N 78°20' W	20,000	20,000		-*	17**	4
CZ0002	22 Apr	1720	125	25°57' N 78°20' W	21°30' N 86°00' W	20,000	20,000		-*	18**	7
CZ0003	22 Apr	1925	190	21°30' N 86°00' W	10°50' N 80°50' W	20,000	20,000		-*	591**	146
CZ0004	22 Apr	2235	180	10°50' N 80°50' W	09°00' N 79°30' W	20,000	1,000	Descent on course from 10°00' N, 80°20' W.	-*	583**	152
CZ0005	19 May	0100	120	36°45' N 119°23' W	34°35' N 110°34' W	21,000	15,500	Descent on course from 35°20' N, 112°35' W.	-*	30**	12
CZ0006	19 May	0300	120	34°35' N 110°34' W	30°51' N 104°11' W	15,500	11,500	Descent on course from 31°30' N, 106°00' W.	-*	140**	50
CZ0007	19 May	0500	120	30°51' N 104°11' W	28°40' N 96°50' W	11,500	11,500		-*	510**	167
CZ0008	19 May	0700	120	28°40' N 96°50' W	23°15' N 92°10' W	11,500	11,500		-*	300**	98
CZ0009	19 May	0900	120	23°15' N 92°10' W	18°50' N 87°50' W	11,500	11,500		-*	110**	36
CZ0010	19 May	1100	120	18°50' N 87°50' W	13°40' N 84°02' W	11,500	11,500		-*	160**	52
CZ0011	19 May	1300	120	13°40' N 84°02' W	09°00' N 79°55' W	11,500	11,500		-*	20**	7
CZ0012	22 May	0005	60	37°42' N 123°00' W	34°46' N 120°58' W	11,000	11,000		-*	0**	0
CZ0013	22 May	0105	60	34°46' N 120°58' W	32°01' N 118°36' W	11,000	11,000		-*	0**	0

*Background Not Known
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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0014	22 May	0205	60	32°01' N 118°36' W	28°20' N 116°20' W	11,000	11,000		-*	2**	1
CZ0015	22 May	0305	60	24°30' N 116°20' W	25°34' N 114°12' W	11,000	11,000		-*	140**	91
CZ0016	22 May	0405	60	25°34' N 114°12' W	22°34' N 112°08' W	11,000	11,000		-*	210**	136
CZ0017	22 May	0505	60	22°34' N 112°08' W	19°35' N 110°23' W	11,000	11,000		-*	140**	91
CZ0018	22 May	0605	60	19°35' N 110°23' W	16°44' N 108°33' W	11,000	11,000		-*	50**	32
CZ0019	22 May	0705	30	16°44' N 108°33' W	15°00' N 107°20' W	11,000	11,000		-*	20**	26
CZ0020	22 May	0735	25	15°00' N 107°20' W	14°46' N 105°55' W	11,000	21,000	Climb on course	-*	380**	652
CZ0021	22 May	0800	60	14°46' N 105°55' W	13°45' N 102°42' W	21,000	21,000		-*	1800**	1442
CZ0022	22 May	0900	60	13°45' N 102°42' W	13°20' N 98°56' W	21,000	21,000		-*	1700**	1362
CZ0023	22 May	1000	60	13°20' N 98°56' W	12°15' N 95°18' W	21,000	21,000		-*	470**	377
CZ0024	22 May	1100	60	12°15' N 95°18' W	11°35' N 91°08' W	21,000	21,000		-*	470**	377
CZ0025	22 May	1200	60	11°35' N 91°08' W	10°45' N 86°46' W	21,000	21,000		-*	740**	593
CZ0026	22 May	1300	60	10°45' N 86°46' W	10°12' N 83°00' W	21,000	21,000		-*	630**	505

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0027	22 May	1400	70	10°12' N 83°00' W	09°07' N 79°50' W	21,000	1,000	Descent on course from 09°10' N, 79°55' W.	-*	200**	137
CZ0028	22 May	1920	60	37°43' N 123°00' W	34°00' N 120°30' W	4,600	4,600		353	230	132
CZ0029	22 May	2020	60	34°00' N 120°30' W	32°30' N 119°00' W	4,700	4,700		353	10	6
CZ0030	22 May	2120	60	32°30' N 119°00' W	30°00' N 117°30' W	4,700	4,700		353	30	17
CZ0031	22 May	2220	60	30°00' N 117°30' W	27°00' N 115°00' W	4,700	4,700		353	840	486
CZ0032	22 May	2320	65	27°00' N 115°00' W	24°05' N 112°50' W	4,700	4,700		353	130	69
CZ0033	23 May	0025	55	24°05' N 112°50' W	21°00' N 111°30' W	4,700	4,700		353	230	145
CZ0034	23 May	0120	60	21°00' N 111°30' W	19°00' N 110°00' W	4,700	4,700		353	80	46
CZ0035	23 May	0220	50	19°00' N 110°00' W	16°30' N 108°30' W	4,800	4,800		353	50	35
CZ0036	23 May	0310	27	16°30' N 108°30' W	15°00' N 107°30' W	4,700	4,700		353	50	64
CZ0037	23 May	0337	9	15°00' N 107°30' W	15°00' N 107°00' W	4,700	11,000	Climb on course	355	20	81
CZ0038	23 May	0346	60	15°00' N 107°00' W	14°00' N 103°30' W	11,000	11,000		353	60	39
CZ0039	23 May	0446	60	14°00' N 103°30' W	13°00' N 100°00' W	11,000	11,000		353	90	58

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FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0040	23 May	0546	60	13°00' N 100°00' W	12°00' N 96°00' W	10,900	10,900		353	20	13
CZ0041	23 May	0646	60	12°00' N 96°00' W	11°00' N 93°00' W	10,900	10,900		353	50	32
CZ0042	23 May	0746	60	11°00' N 96°00' W	10°00' N 88°30' W	10,900	10,900		353	40	26
CZ0043	23 May	0846	60	10°00' N 88°30' W	09°00' N 85°30' W	10,900	10,900		353	30	19
CZ0044	23 May	0946	60	09°00' N 85°30' W	07°30' N 82°30' W	11,000	11,000		353	30	19
CZ0045	23 May	1046	54	07°30' N 82°30' W	07°50' N 80°00' W	11,000	11,000		353	10	7
CZ0046	23 May	1140	20	07°50' N 80°00' W	09°00' N 80°40' W	11,000	1,000	Descent on course	353	10	18
CZ0047	24 May	0245	65	09°35' N 79°30' W	05°40' N 80°08' W	1,000	1,000		346	10	5
CZ0048	24 May	0340	10	08°30' N 80°08' W	05°40' N 80°08' W	1,000	1,000		346	30	97
CZ0049	24 May	0350	60	05°40' N 80°08' W	02°36' N 81°00' W	1,000	1,000		346	40	22
CZ0050	24 May	0450	60	02°36' N 81°00' W	00°20' N 81°05' W	1,000	1,000		346	30	16
CZ0051	24 May	0550	60	00°20' N 81°05' W	02°30' S 81°52' W	1,000	1,000		346	30	16
CZ0052	24 May	0650	60	02°30' S 81°52' W	05°09' S 82°30' W	1,000	1,000		346	50	27

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0053	24 May	0750	60	05°09' S 82°30' W	07°00' S 83°10' W	1,000	1,000		346	20	11
CZ0054	24 May	0850	180	07°00' S 83°10' W	16°50' S 85°15' W	1,000	1,000		346	20	4
CZ0055	24 May	1150	57	16°50' S 85°15' W	18°50' S 85°46' W	1,000	1,000		346	10	6
CZ0056	24 May	1150	20	16°50' S 85°15' W	17°08' S 85°24' W	1,000	1,000		346	30	49
CZ0057	24 May	1247	28	18°50' S 85°46' W	18°30' S 85°40' W	1,000	21,000	Climb on course via 20°00' S, 86°00' W.	346	30	50
CZ0058	24 May	1315	60	18°30' S 85°40' W	14°30' S 84°45' W	21,000	21,000		346	10	8
CZ0059	24 May	1415	60	14°30' S 84°45' W	10°08' S 83°40' W	21,000	21,000		346	10	8
CZ0060	24 May	1515	60	10°08' S 83°40' W	06°28' S 82°50' W	21,000	21,000		346	20	16
CZ0061	24 May	1615	60	06°28' S 82°50' W	02°15' S 82°15' W	21,000	21,000		346	20	16
CZ0062	24 May	1715	60	02°15' S 82°15' W	01°28' N 81°28' W	21,000	21,000		346	30	24
CZ0063	24 May	1815	55	01°28' N 81°28' W	05°05' N 80°52' W	21,000	21,000		346	0	0
CZ0064	24 May	1910	75	05°05' N 80°52' W	08°55' N 79°32' W	21,000	1,000	Descent on course	346	60	38
CZ0065	26 May	0005	60	08°45' N 79°30' W	06°05' N 80°08' W	1,000	1,000		356	4	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0066	26 May	0105	60	06°05' N 80°08' W	03°25' N 80°45' W	1,000	1,000		356	0	0
CZ0067	26 May	0205	60	03°25' N 80°45' W	00°30' N 81°30' W	1,000	1,000		356	0	0
CZ0068	26 May	0305	60	00°30' N 81°30' W	02°30' S 82°10' W	1,000	1,000		356	5	3
CZ0069	26 May	0340	55	01°20' S 81°55' W	03°30' S 82°20' W	1,000	1,000		356	2	1
CZ0070	26 May	0405	60	02°30' S 82°10' W	05°10' S 82°45' W	1,000	1,000		356	0	0
CZ0071	26 May	0505	60	05°10' S 82°45' W	07°22' S 83°10' W	1,000	1,000		356	10	5
CZ0072	26 May	0605	60	07°22' S 83°10' W	10°10' S 83°50' W	1,000	1,000		356	6	3
CZ0073	26 May	0705	60	10°10' S 83°50' W	12°50' S 84°40' W	1,000	1,000		356	7	4
CZ0074	26 May	0805	60	12°50' S 84°40' W	15°40' S 85°00' W	1,000	1,000		356	5	3
CZ0075	26 May	0905	58	15°40' S 85°00' W	18°55' S 85°45' W	1,000	1,000		356	11	6
CZ0076	26 May	1003	37	18°55' S 85°45' W	19°00' S 85°45' W	1,000	21,000	To 11,000 ft at 20°00' S, 86°00'W, continuing on course.	356	5	5
CZ0077	26 May	1003	37	18°55' S 85°45' W	19°00' S 85°45' W	1,000	21,000	To 11,000 ft at 20°00'S, 86°00'W, continuing on course.	356	24	25
CZ0078	26 May	1040	60	19°00' S 85°45' W	15°45' S 85°30' W	21,000	21,000		356	5	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
CZ0079	26 May	1140	60	15°45' S 85°30' W	11°00' S 84°25' W	21,000	21,000		356	9	7
CZ0080	26 May	1240	60	11°00' S 84°25' W	07°10' S 83°40' W	21,000	21,000		356	5	4
CZ0081	26 May	1340	60	07°10' S 83°40' W	02°00' S 82°00' W	21,000	21,000		356	6	5
CZ0082	26 May	1440	60	02°00' S 82°00' W	02°00' S 81°05' W	21,000	21,000		356	4	3
CZ0083	26 May	1620	20	04°30' N 80°35' W	06°10' N 80°15' W	16,000	16,000		356	0	0
CZ0084	26 May	1540	60	02°00' N 81°05' W	06°10' N 80°15' W	21,000	12,000	Descending on course from 03°40' N, 80°50' W.	356	0	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0001	31 Mar	1937	233	37°46' N 122°51' W	37°44' N 137°10' W	500	500		380	4	1
FA0002	31 Mar	1937	233	37°46' N 122°51' W	37°44' N 137°10' W	500	500		380	15	2
FA0003	31 Mar	2330	231	37°44' N 137°10' W	37°39' N 141°35' W	500	10,000	Climb on course	380	16	2
FA0004	31 Mar	2330	231	37°44' N 137°10' W	37°39' N 141°35' W	500	10,000	Climb on course	380	-20	0
FA0005	1 Apr	0321	236	37°39' N 141°35' W	37°42' N 124°40' W	10,000	10,000		380	9	2
FA0006	1 Apr	0321	236	37°39' N 141°35' W	37°42' N 124°40' W	10,000	10,000		380	33	5
FA0007	3 Apr	1910	225	38°07' N 122°15' W	37°44' N 134°18' W	2,000	500	Descent on course at 123°00' W, 37°42' N.	383	2	0
FA0008	3 Apr	1910	225	38°07' N 122°15' W	37°44' N 134°18' W	2,000	500	Descent on course at 123°00' W, 37°42' N.	383	6	1
FA0009	3 Apr	2255	215	37°44' N 134°18' W	37°42' N 145°00' W	500	500		383	7	1
FA0010	3 Apr	2255	215	37°44' N 134°18' W	37°42' N 145°00' W	500	500		383	11	2
FA0011	4 Apr	0230	235	37°42' N 145°00' W	37°42' N 127°20' W	500	10,000	Climbed on course from 37°42' N, 146°11' W.	383	10	2
FA0012	4 Apr	0230	235	37°42' N 145°00' W	37°42' N 127°20' W	500	10,000	Climbed on course from 37°42' N, 146°11' W.	383	- 3	0
FA0013	8 Apr	1630	205	46°00' N 136°00' W	39°00' N 124°30' W	1,000	1,000		385	-62	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0014	8 Apr	1630	205	46°00' N 136°00' W	39°00' N 124°30' W	1,000	1,000		385	- 51	0
FA0015	8 Apr	1025	365	61°05' N 150°00' W	46°00' N 136°00' W	1,500	1,000		385	- 58	0
FA0016	8 Apr	1025	365	61°05' N 150°00' W	46°00' N 136°00' W	1,500	1,000		385	- 45	0
FA0028	7 Apr	1222	128	37°45' N 122°25' W	37°42' N 123°00' W	500	5,000	Climb on course via 37°42' N, 126°30' W	385	5	1
FA0029	7 Apr	1222	128	37°45' N 122°25' W	37°42' N 123°00' W	500	5,000	Climb on course via 37°42' N, 126°30' W	385	- 1	0
FA0031	6 Apr	1335	240	61°00' N 149°50' W	48°36' N 140°20' W	Unknown	Unknown	Single value of 10,000 feet recorded	323	4	1
FA0032	6 Apr	1335	240	61°00' N 149°50' W	48°36' N 140°20' W	Unknown	Unknown	Single value of 10,000 feet recorded	323	4	1
FA0033	6 Apr	1735	240	48°36' N 140°20' W	39°12' N 125°00' W	Unknown	Unknown	Single value of 1,000 feet recorded	323	8	1
FA0034	6 Apr	1735	240	48°36' N 140°20' W	39°12' N 125°00' W	Unknown	Unknown	Single value of 1,000 feet recorded	323	10	1
FA0035	6 Apr	2135	75	39°12' N 125°00' W	38°15' N 121°55' W	Unknown	Unknown	Single value of 4,000 feet recorded	323	15	7
FA0036	6 Apr	2135	75	39°12' N 125°00' W	38°15' N 121°55' W	Unknown	Unknown	Single value of 4,000 feet recorded	323	3	1
FA0045	8 Apr	2100	233	37°42' N 123°10' W	37°41' N 135°45' W	500	500		392	- 5	0
FA0046	8 Apr	2100	233	37°42' N 123°10' W	37°41' N 135°45' W	500	500		392	1	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0047	9 Apr	0053	232	37°44' N 135°45' W	37°35' N 143°30' W	500	10,000	Climb on course	386	3	0
FA0048	9 Apr	0053	232	37°44' N 135°45' W	37°35' N 143°30' W	500	10,000	Climb on course	386	7	1
FA0049	9 Apr	0445	235	37°35' N 143°30' W	37°41' N 125°45' W	10,000	10,000		386	7	1
FA0050	9 Apr	0445	235	37°35' N 143°30' W	37°41' N 125°45' W	10,000	10,000		393	0	0
FA0079	12 Apr	2040	210	38°04' N 122°24' W	37°59' N 132°36' W	2,500	500	Descended to 500 feet at 37°42'N, 122°55' W	384	10	2
FA0080	12 Apr	2040	210	38°04' N 122°24' W	37°59' N 132°36' W	2,500	500	Descended to 500 feet at 37°42' N, 122°55' W	384	0	0
FA0081	13 Apr	0015	180	37°57' N 132°54' W	37°41' N 146°06' W	500	4,750		384	4	1
FA0082	13 Apr	0015	180	37°57' N 132°54' W	37°41' N 146°06' W	500	4,750		384	12	2
FA0083	13 Apr	0315	180	37°41' N 146°06' W	38°12' N 134°22' W	4,750	10,000		384	5	1
FA0084	13 Apr	0315	180	37°41' N 146°06' W	38°12' N 134°22' W	4,750	10,000		384	2	0
FA0085	13 Apr	0615	160	38°12' N 134°22' W	38°05' N 122°12' W	10,000	7,500	Descended to 7,500 feet at 38°00' N, 122°50' W	385	14	3
FA0086	13 Apr	0615	160	38°12' N 134°22' W	38°05' N 122°12' W	10,000	7,500	Descended to 7,500 feet at 38°00' N, 122°50' W	385	15	4
FA0089	10 Apr	1250	200	61°15' N 145°35' W	52°20' N 145°00' W	3,000	7,500	Climbed to 7,500 feet at 59°10' N, 151°42' W	385	11	2

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0091	10 Apr	1250	200	61°15' N 149°35' W	52°20' N 145°00' W	3,000	7,800	Climbed to 7,800 feet at 59°10' N, 151°42' W	385	1	0
FA0092	10 Apr	1610	160	52°20' N 145°00' W	45°50' N 135°07' W	7,800	1,000	Descent between 45°21' N, 145°00' W and 45°50' N, 135°07' W	385	7	2
FA0093	10 Apr	1610	160	52°20' N 145°00' W	45°50' N 135°07' W	7,800	1,000	Descent between 45°21' N, 145°00' W and 45°50' N, 135°07' W	385	4	1
FA0094	10 Apr	1850	120	45°50' N 135°07' W	38°55' N 133°50' W	1,000	1,000		384	3	1
FA0095	10 Apr	1850	120	45°50' N 135°07' W	38°55' N 133°50' W	1,000	1,000		384	1	0
FA0098	13 Apr	1200	150	50°30' N 151°30' W	52°23' N 145°18' W	1,000	10,000		384	3	1
FA0099	13 Apr	1200	150	50°30' N 151°30' W	52°23' N 145°18' W	1,000	10,000		384	1	0
FA0100	13 Apr	1430	165	52°23' N 145°18' W	46°27' N 136°29' W	10,000	10,000		381	10	3
FA0101	13 Apr	1430	165	52°23' N 145°18' W	46°27' N 136°29' W	10,000	10,000		381	8	2
FA0102	13 Apr	1715	270	46°27' N 136°29' W	38°47' N 124°39' W	10,000	1,000		381	7	1
FA0103	13 Apr	1715	270	46°27' N 136°29' W	38°47' N 124°39' W	10,000	1,000		381	17	2
FA0107	13 Apr	1942	202	37°45' N 122°40' W	37°38' N 137°22' W	500	500		381	12	2
FA0108	13 Apr	1942	202	37°45' N 122°40' W	37°38' N 137°22' W	500	500		381	12	2

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0109	13 Apr	2304	180	37°38' N 137°22' W	37°40' N 146°07' W	500	500		381	7	1
FA0110	13 Apr	2304	180	37°38' N 137°22' W	37°40' N 146°07' W	500	500		381	2	0
FA0111	14 Apr	0204	240	37°40' N 146°07' W	38°00' N 131°25' W	500	10,000		381	7	1
FA0112	14 Apr	0204	240	37°40' N 146°07' W	38°00' N 131°25' W	500	10,000		381	5	1
FA0113	14 Apr	0604	105	38°00' N 131°25' W	38°00' N 122°45' W	10,000	10,000		381	11	4
FA0114	14 Apr	0604	105	38°00' N 131°25' W	38°00' N 122°45' W	10,000	10,000		381	20	7
FA0124	14 Apr	1325	238	37°12' N 124°31' W	37°44' N 137°00' W	500	500		382	- 3	0
FA0126	14 Apr	1325	238	37°12' N 124°31' W	37°44' N 137°00' W	500	500		382	7	1
FA0127	14 Apr	1723	240	37°44' N 137°00' W	37°46' N 142°15' W	500	10,000		382	- 1	0
FA0128	14 Apr	1723	240	37°44' N 137°00' W	37°46' N 142°15' W	500	10,000		382	3	0
FA0130	14 Apr	2123	240	37°46' N 142°15' W	37°45' N 123°10' W	10,000	10,000		382	9	1
FA0131	14 Apr	2123	240	37°46' N 142°15' W	37°45' N 123°10' W	10,000	10,000		382	11	2
FA0134	15 Apr	1140	140	57°30' N 151°50' W	52°22' N 145°22' W	1,000	10,000		382	8	2

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FA0135	15 Apr	1140	140	57°30' N 151°50' W	52°22' N 145°22' W	1,000	10,000		382	- 12	0
FA0136	15 Apr	1400	165	52°22' N 145°22' W	46°40' N 136°27' W	10,000	10,000		382	- 3	0
FA0137	15 Apr	1400	165	52°22' N 145°22' W	46°40' N 136°27' W	10,000	10,000		382	1	0
FA0138	15 Apr	1645	265	46°40' N 136°27' W	38°37' N 123°45' W	10,000	1,000		382	7	1
FA0139	15 Apr	1645	265	46°40' N 136°27' W	38°37' N 123°45' W	10,000	1,000		382	- 5	0
FA0142	15 Apr	1900	240	37°50' N 122°30' W	37°45' N 135°50' W	4,000	500		382	10	1
FA0143	15 Apr	1900	240	37°50' N 122°30' W	37°45' N 135°50' W	4,000	500		382	- 1	0
FA0144	15 Apr	2300	240	37°45' N 135°50' W	37°50' N 144°23' W	500	10,000		382	3	0
FA0145	15 Apr	2300	240	37°45' N 135°50' W	37°50' N 144°23' W	500	10,000		382	5	1
FA0146	16 Apr	0300	240	37°50' N 144°23' W	37°50' N 125°38' W	10,000	10,000		382	3	1
FA0147	16 Apr	0300	240	37°50' N 144°23' W	37°50' N 125°38' W	10,000	10,000		382	- 2	0
FA0156	16 Apr	1245	240	37°41' N 123°00' W	37°45' N 136°55' W	500	500		382	9	1
FA0157	16 Apr	1245	240	37°41' N 123°00' W	37°45' N 136°55' W	500	500		382	6	1

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0158	16 Apr	1645	240	37°45' N 136°55' W	37°35' N 142°35' W	500	10,000		382	- 5	0
FA0159	16 Apr	1645	240	37°45' N 136°55' W	37°35' N 142°35' W	500	10,000		382	0	0
FA0160	16 Apr	2045	237	37°35' N 142°35' W	37°58' N 123°05' W	10,000	10,000		382	5	1
FA0161	16 Apr	2045	237	37°35' N 142°35' W	37°58' N 123°05' W	10,000	10,000		382	7	1
FA0166	17 Apr	1010	205	61°00' N 150°30' W	52°22' N 145°18' W	8,000	10,000	Climb on course from 57°45' N, 152°20' W	382	- 10	0
FA0167	17 Apr	1010	205	61°00' N 150°30' W	52°22' N 145°18' W	8,000	10,000	Climb on course from 57°45' N, 152°20' W	382	10	2
FA0168	17 Apr	1335	160	52°22' N 145°18' W	46°24' N 136°31' W	10,000	10,000		382	- 2	0
FA0169	17 Apr	1335	160	52°22' N 145°18' W	46°24' N 136°31' W	10,000	10,000		382	5	1
FA0170	17 Apr	1615	225	46°24' N 136°31' W	38°15' N 121°57' W	10,000	7,000	Descent on course from 38°45' N, 124°30' W	382	- 2	0
FA0171	17 Apr	1615	225	46°24' N 136°31' W	38°15' N 121°57' W	10,000	7,000		382	- 2	0
FA0188	19 Apr	1045	185	59°55' N 150°15' W	52°55' N 145°55' W	4,500	4,500		389	- 7	0
FA0189	19 Apr	1045	185	59°55' N 150°15' W	52°55' N 145°55' W	4,500	4,500		389	- 4	0
FA0190	19 Apr	1350	210	52°55' N 145°55' W	47°00' N 137°00' W	4,500	5,000		389	- 7	0

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0191	19 Apr	1350	210	52°55' N 145°55' W	47°00' N 137°00' W	4,500	5,000		389	- 5	0
FA0192	19 Apr	1720	290	47°00' N 137°00' W	38°15' N 122°05' W	5,000	500		389	13	2
FA0193	19 Apr	1720	290	47°00' N 137°00' W	38°15' N 122°05' W	5,000	500		389	352	39
FA0198	19 Apr	1940	230	37°44' N 122°17' W	37°46' N 134°40' W	1,500	1,500		389	- 10	0
FA0199	19 Apr	1940	230	37°44' N 122°17' W	37°46' N 134°40' W	1,500	1,500		389	- 3	0
FA0200	19 Apr	2330	210	37°46' N 134°40' W	37°41' N 146°06' W	1,500	4,500		389	0	0
FA0201	19 Apr	2330	210	37°46' N 134°40' W	37°41' N 146°06' W	1,500	4,500		389	- 4	0
FA0202	20 Apr	0300	180	37°41' N 146°06' W	37°42' N 132°05' W	4,500	4,500		389	- 4	0
FA0203	20 Apr	0300	180	37°41' N 146°06' W	37°42' N 132°05' W	4,500	4,500		389	- 3	0
FA0204	20 Apr	0600	145	37°42' N 132°05' W	38°08' N 121°54' W	4,500	5,000		389	15	4
FA0205	20 Apr.	0600	145	37°42' N 132°05' W	38°08' N 121°54' W	4,500	5,000		389	32	8
FA0214	20 Apr	2100	240	37°30' N 127°30' W	37°46' N 136°18' W	500	500		394	- 10	0
FA0215	20 Apr	2100	240	37°30' N 127°30' W	37°46' N 136°18' W	500	500		394	- 10	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0216	21 Apr	0100	210	37°46' N 135°18' W	37°40' N 147°07' W	500	500		394	- 12	0
FA0217	21 Apr	0100	210	37°46' N 135°18' W	37°40' N 147°07' W	500	500		394	- 3	0
FA0218	21 Apr	0430	230	37°40' N 147°07' W	37°40' N 124°30' W	500	10,000		394	0	0
FA0219	21 Apr	0430	230	37°40' N 147°07' W	37°40' N 124°30' W	500	10,000		394	2	0
FA0223	21 Apr	1600	204	25°25' N 118°10' W	36°05' N 121°30' W	20,000	20,000		385	146	34
FA0224	21 Apr	1600	204	25°25' N 118°10' W	36°05' N 121°30' W	20,000	20,000		385	315	73
FA0225	21 Apr	1300	180	15°00' N 115°30' W	25°25' N 118°10' W	20,000	20,000		385	5,900	1,539
FA0226	21 Apr	1300	180	15°00' N 115°30' W	25°25' N 118°10' W	20,000	20,000		385	10,601	2,765
FA0227	21 Apr	1147	73	15°00' N 119°55' W	15°00' N 115°30' W	20,000	20,000		385	1,064	684
FA0228	21 Apr	1147	73	15°00' N 119°55' W	15°00' N 115°30' W	20,000	20,000		385	2,268	1,459
FA0229	21 Apr	0857	170	15°24' N 129°52' W	15°00' N 119°55' W	20,000	20,000		385	2,804	774
FA0230	21 Apr	0857	170	15°24' N 129°52' W	15°00' N 119°55' W	20,000	20,000		385	1,747	483
FA0231	21 Apr	045:	180	29°12' N 126°00' W	18°45' N 128°52' W	500	20,000	Climb on course from 28°10' N, 126°30' W to 24°52' N, 127°18' W	389	29	6

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0232	21 Apr	0450	180	29°12' N 126°00' W	18°45' N 128°52' W	500	20,000	Climb on course from 28°10' N, 126°30' W to 24°52' N, 127°18' W	389	- 11	0
FA0233	21 Apr	0150	180	37°42' N 123°02' W	29°12' N 126°00' W	500	20,500		389	- 3	0
FA0234	21 Apr	0150	180	37°42' N 123°02' W	29°12' N 126°00' W	500	20,500		389	- 1	0
FA0235	21 Apr	0750	67	18°45' N 128°52' W	15°24' N 129°52' W	20,000	20,000		389	- 5	0
FA0236	21 Apr	0750	67	18°45' N 128°52' W	15°24' N 129°52' W	20,000	20,000		389	2	1
FA0238	21 Apr	1248	132	57°44' N 152°05' W	52°10' N 144°36' W	1,000	10,000		389	5	1
FA0239	21 Apr	1248	132	57°44' N 152°05' W	52°10' N 144°36' W	1,000	10,000		389	0	0
FA0240	21 Apr	1500	165	52°10' N 144°36' W	46°27' N 136°38' W	10,000	10,000		389	- 11	0
FA0241	21 Apr	1500	165	52°10' N 144°36' W	46°27' N 136°38' W	10,000	10,000		389	1	0
FA0242	21 Apr	1745	225	46°27' N 136°38' W	37°55' N 122°37' W	10,000	1,000		389	3	0
FA0243	21 Apr	1745	225	46°27' N 136°38' W	37°55' N 122°37' W	10,000	1,000		389	- 11	0
FA0249	22 Apr	0500	180	21°45' N 112°20' W	11°20' N 108°00' W	20,000	20,000		389	13,751	3,587
FA0250	22 Apr	0500	180	21°45' N 112°20' W	11°20' N 108°00' W	20,000	20,000		389	8,171	2,131

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0251	22 Apr	0800	235	11°20' N 108°00' W	25°00' N 114°05' W	20,000	30,000	Climb to 30,000 ft between 10°00'N, 107°30'W & 11°30'N, 108°06' W. Start descent from 30,000 ft at 22°24'N, 112°42'W	389	2,849	590
FA0252	22 Apr	1155	180	25°00' N 114°05' W	32°43' N 117°15' W	20,000	10,000	Descended between 30°30' N, 117° 00' W and 32°43' N, 117°15' W.	389	4,053	946
FA0253	22 Apr	0800	235	11°20' N 108°00' W	25°00' N 114°05' W	20,000	30,000	Climb to 30,000 ft between 10°00'N, 107°30'W & 11°30'N, 108°06' W. Start descent at 22°24' N, 112°42' W	389	508	113
FA0254	22 Apr	0200	180	30°46' N 117°58' W	21°45' N 112°20' W	500	20,000	Climbed to 20,000 ft between 27°42' N and 24°48' N	389	678	144
FA0255	22 Apr	0200	180	30°46' N 117°58' W	21°45' N 112°20' W	500	20,000	Climbed to 20,000 ft between 27°42' N and 24°48' N	389	1,071	228
FA0256	22 Apr	0023	97	36°15' N 121°55' W	30°46' N 117°58' W	500	500		389	392	131
FA0257	22 Apr	0023	97	36°15' N 121°55' W	30°46' N 117°58' W	500	500		389	369	124
FA0258	22 Apr	1329	182	61°00' N 150°00' W	51°05' N 143°43' W	20,000	20,000		389	379	98
FA0259	22 Apr	1329	182	61°00' N 150°00' W	51°05' N 143°43' W	20,000	20,000		389	397	102
FA0260	22 Apr	1631	167	51°05' N 143°43' W	43°10' N 131°10' W	20,000	20,000		389	1,999	562
FA0261	22 Apr	1631	167	51°05' N 143°43' W	43°10' N 131°10' W	20,000	20,000		389	375	105
FA0262	22 Apr	1918	122	43°10' N 131°10' W	38°15' N 121°58' W	20,000	16,000		389	450	158
FA0263	22 Apr	1918	122	43°10' N 131°10' W	38°15' N 121°58' W	20,000	16,000		389	407	143

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0266	22 Apr	1820	235	21°20' N 157°15' W	28°44' N 144°30' W	18,000	18,000		387	392	75
FA0267	22 Apr	1820	235	21°20' N 157°15' W	28°44' N 144°30' W	18,000	18,000		387	394	76
FA0268	22 Apr	2215	300	28°44' N 144°30' W	38°05' N 122°10' W	18,000	14,500		387	593	83
FA0269	22 Apr	2215	300	28°44' N 144°30' W	38°05' N 122°10' W	18,000	14,500		387	536	75
FA0271	22 Apr	1940	190	21°13' N 157°45' W	28°20' N 151°58' W	500	500		387	334	57
FA0272	22 Apr	1940	190	21°13' N 157°45' W	28°20' N 151°58' W	500	500		387	395	68
FA0273	22 Apr	2250	180	28°20' N 151°58' W	36°35' N 146°35' W	500	500		387	653	118
FA0275	22 Apr	2250	180	28°20' N 151°58' W	36°35' N 146°35' W	500	500		387	297	54
FA0276	23 Apr	0150	180	36°35' N 146°35' W	37°35' N 133°28' W	500	10,000		387	371	72
FA0277	23 Apr	0150	180	36°35' N 146°35' W	37°35' N 133°28' W	500	10,000		387	382	74
FA0278	23 Apr	0450	175	37°35' N 133°28' W	37°40' N 123°00' W	10,000	10,000		387	410	89
FA0279	23 Apr	0450	175	37°35' N 133°28' W	37°40' N 123°00' W	10,000	10,000		387	398	87
FA0280	22 Apr	1945	180	21°10' N 158°30' W	22°48' N 149°40' W	1,500	1,500		387	474	87

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0281	22 Apr	1945	180	21°10' N 158°30' W	22°48' N 149°40' W	1,500	1,500		387	446	82
FA0282	22 Apr	2245	180	22°48' N 149°40' W	23°25' N 140°00' W	1,500	1,500		387	357	65
FA0283	22 Apr	2245	180	22°48' N 149°40' W	23°25' N 140°00' W	1,500	1,500		387	381	70
FA0284	23 Apr	0145	180	23°25' N 140°00' W	27°40' N 132°20' W	1,500	10,000		387	391	75
FA0285	23 Apr	0145	180	23°25' N 140°00' W	27°40' N 132°20' W	1,500	10,000		387	408	79
FA0287	23 Apr	0445	180	27°40' N 132°20' W	34°25' N 125°30' W	10,000	10,000		387	408	87
FA0288	23 Apr	0445	180	27°40' N 132°20' W	34°25' N 125°30' W	10,000	10,000		387	413	88
FA0298	24 Apr	1325	65	33°00' N 119°50' W	36°10' N 121°35' W	20,000	15,000		363	12	8
FA0299	24 Apr	1325	65	33°00' N 119°50' W	36°10' N 121°35' W	20,000	15,000		383	16	12
FA0300	24 Apr	1025	180	25°25' N 112°50' W	33°00' N 119°50' W	30,400	20,000	Descent began 27°40'N, 115°45' W	383	16	5
FA0301	24 Apr	1025	180	25°25' N 112°50' W	33°00' N 119°50' W	30,400	20,000	Descent began 27°40'N, 115°45' W	383	5	2
FA0302	24 Apr	0725	180	15°00' N 107°30' W	25°25' N 112°50' W	20,400	30,400	Reached 34,000' at 16°30' N	383	189	55
FA0303	24 Apr	0725	180	15°00' N 107°30' W	25°25' N 112°50' W	20,400	30,400	Reached 34,000' at 16°30' N	383	229	66

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0304	24 Apr	0540	105	20°30' N 109°25' W	15°00' N 107°30' W	20,400	20,400		383	73	33
FA0305	24 Apr	0540	105	20°30' N 109°25' W	15°00' N 107°30' W	20,400	20,400		383	61	27
FA0306	24 Apr	0240	180	29°25' N 109°25' W	15°00' N 107°30' W	4,600	20,400	Climb to 20,400 at 27°08' N, 115°21' W - reached 20,400 at 24°00' N	383	13	3
FA0307	24 Apr	0240	180	29°25' N 109°25' W	15°00' N 107°30' W	4,600	20,400	Climb to 20,400 at 27°08' N, 115°21' W - reached 20,400 at 24°00' N	383	- 1	0
FA0308	23 Apr	2340	180	37°40' N 123°00' W	29°25' N 115°57' W	4,600	4,600		383	23	4
FA0309	23 Apr	2340	180	37°40' N 123°00' W	29°25' N 115°57' W	4,600	4,600		383	18	4
FA0318	24 Apr	2335	183	37°40' N 123°00' W	29°06' N 116°54' W	500	500		384	17	3
FA0319	24 Apr	2335	183	37°40' N 123°00' W	29°06' N 116°54' W	500	500		384	16	3
FA0320	25 Apr	0238	180	29°06' N 116°54' W	19°12' N 110°00' W	500	20,000	Reached 20,000 ft at 26°18' N, 114°54' W	384	13	3
FA0321	25 Apr	0238	180	29°06' N 116°54' W	19°12' N 110°00' W	500	20,000	Reached 20,000 ft at 26°18' N, 114°54' W	384	11	2
FA0322	25 Apr	0538	96	19°12' N 110°00' W	16°25' N 108°25' W	20,000	25,000	20,000' to 15°00' N, 107°25' W then climb to 25,000 ' on course	384	32	16
FA0324	25 Apr	0538	96	19°12' N 110°00' W	16°25' N 108°25' W	20,000	25,000	20,000 ft to 15°00' N, 107°25' W then climb to 25,000 ft on course	384	26	13
FA0325	25 Apr	0704	51	16°25' N 108°25' W	17°55' N 109°25' W	25,000	30,000	25,000 ft to 30,000 ft at 17°37' N, 109°17' W	384	147	160

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0326	25 Apr	0704	51	16°25' N 108°25' W	17°55' N 109°25' W	25,000	30,000	25,000 ft to 30,000 ft at 17°37' N, 109°17' W	384	158	172
FA0327	25 Apr	0755	125	17°55' N 109°25' W	24°48' N 113°48' W	30,000	27,000	30,000 ft to 21°12' N, 111°48' W, descent to 27,000 ft	384	49	22
FA0328	25 Apr	0755	125	17°55' N 109°25' W	24°48' N 113°48' W	30,000	27,000	30,000 ft to 21°12' N, 111°48' W, descent to 27,000 ft	384	50	23
FA0329	25 Apr	1000	190	24°48' N 113°48' W	34°36' N 119°38' W	27,000	10,000	Descending from 29°06' N, 116°54' W	384	61	13
FA0330	25 Apr	1000	190	24°48' N 113°48' W	34°36' N 119°38' W	27,000	10,000		384	71	15
FA0332	25 Apr	1900	120	44°23' N 132°35' W	38°25' N 122°52' W	20,000	20,000		384	83	33
FA0333	25 Apr	1900	120	44°23' N 132°35' W	38°25' N 122°52' W	20,000	20,000		384	47	18
FA0334	25 Apr	1600	180	53°50' N 147°25' W	44°23' N 132°35' W	20,000	20,000		384	16	4
FA0335	25 Apr	1600	180	53°50' N 147°25' W	44°23' N 132°35' W	20,000	20,000		384	0	0
FA0336	25 Apr	1300	180	64°15' N 148°00' W	53°50' N 147°25' W	20,000	20,000		384	3	1
FA0337	25 Apr	1300	180	64°15' N 148°00' W	53°50' N 147°25' W	20,000	20,000		384	1	0
FA0344	26 Apr	1130	178	29°14' N 116°43' W	37°47' N 118°00' W	30,000	25,000		395	- 1	0
FA0345	26 Apr	1130	178	29°14' N 116°43' W	37°47' N 118°00' W	30,000	25,000		395	- 9	9

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0346	26 Apr	0837	173	20°25' N 110°55' W	29°14' N 116°43' W	20,000	30,000		395	0	0
FA0347	26 Apr	0837	173	20°25' N 110°55' W	29°14' N 116°43' W	20,000	30,000		395	4	1
FA0348	26 Apr	0535	182	19°28' N 110°03' W	20°25' N 110°55' W	20,000	20,000	Climbed via 15°00' N, 107°50' W	395	97	25
FA0349	26 Apr	0535	182	19°28' N 110°03' W	20°25' N 110°55' W	20,000	20,000	Climbed via 15°00' N, 107°50' W	395	104	27
FA0350	26 Apr	0235	180	28°40' N 118°27' W	19°28' N 110°03' W	500	20,000	Climb from 26°12' N, 114°42' W to 24°36' N, 113°42' W	395	- 2	0
FA0351	26 Apr	0235	180	28°40' N 118°27' W	19°28' N 110°03' W	500	20,000	Climb from 26°12' N, 114°42' W to 24°36' N, 113°42' W	395	- 5	0
FA0352	25 Apr	2335	180	37°40' N 123°00' W	28°40' N 118°27' W	500	500		395	19	3
FA0353	25 Apr	2335	180	37°40' N 123°00' W	28°40' N 118°27' W	500	500		395	38	7
FA0363	26 Apr	2330	180	37°20' N 122°45' W	29°47' N 116°49' W	3,000	3,000		390	27	5
FA0364	26 Apr	2330	180	37°20' N 122°45' W	29°47' N 116°49' W	3,000	3,000		390	15	3
FA0365	27 Apr	0230	100	29°47' N 116°49' W	25°10' N 113°10' W	3,000	20,000	Climb began at 28°00'N, 115°24'W	390	- 1	0
FA0366	27 Apr	0230	100	29°47' N 116°49' W	25°10' N 113°10' W	3,000	20,000	Climb began at 28°00'N, 115°24'W	390	13	6
FA0367	27 Apr	0410	185	25°10' N 113°10' W	16°10' N 108°10' W	20,000	20,000		390	275	70

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0368	27 Apr	0410	185	25°10' N 113°10' W	16°10' N 108°10' W	20,000	20,000		390	246	62
FA0369	27 Apr	0715	90	16°10' N 108°10' W	18°55' N 109°35' W	20,000	30,000	Climb from 15°00' N, 107°30' W to 16°30' N, 108°18' W	390	9	5
FA0370	27 Apr	0715	90	16°10' N 108°10' W	18°55' N 109°35' W	20,000	30,000	Climb from 15°00' N, 107°30' W to 16°30' N, 108°18' W	390	105	61
FA0371	27 Apr	0845	175	18°55' N 109°35' W	29°00' N 115°00' W	30,000	30,000		390	469	159
FA0372	27 Apr	0845	175	18°55' N 109°35' W	29°00' N 115°00' W	30,000	30,000		390	416	141
FA0373	27 Apr	1140	120	29°00' N 115°00' W	35°50' N 120°20' W	30,000	20,000		390	58	29
FA0374	27 Apr	1140	120	29°00' N 115°00' W	35°50' N 120°20' W	30,000	20,000		390	71	35
FA0376	27 Apr	1035	180	61°12' N 149°50' W	51°42' N 144°35' W	14,000	20,000		390	9	2
FA0377	27 Apr	1035	180	61°12' N 149°50' W	51°42' N 144°35' W	14,000	20,000		390	- 5	0
FA0378	27 Apr	1335	180	51°42' N 144°35' W	43°05' N 131°05' W	20,000	20,000		390	- 2	0
FA0379	27 Apr	1335	180	51°42' N 144°35' W	43°05' N 131°05' W	20,000	20,000		390	8	2
FA0380	27 Apr	1635	110	43°05' N 131°05' W	38°15' N 121°57' W	20,000	14,000		390	3	1
FA0381	27 Apr	1635	110	43°05' N 131°05' W	38°15' N 121°57' W	20,000	14,000		390	- 6	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0385	27 Apr	1935	230	37°42' N 123°15' W	37°40' N 137°33' W	500	500		385	10	1
FA0386	27 Apr	1935	230	37°42' N 123°15' W	37°40' N 137°33' W	500	500		385	16	2
FA0387	27 Apr	2325	245	37°40' N 137°33' W	37°24' N 140°27' W	500	10,000	Climb from 37°42' N, 146°12' W, to 37°42' N, 144°06' W.	385	2	0
FA0388	27 Apr	2325	245	37°40' N 137°33' W	37°24' N 140°27' W	500	10,000	Climb from 37°42' N, 146°12' W, to 37°42' N, 144°06' W	385	9	1
FA0389	28 Apr	0330	300	37°24' N 140°27' W	38°15' N 122°00' W	10,000	10,000		385	45	6
FA0390	28 Apr	0330	300	37°24' N 140°27' W	38°15' N 122°00' W	10,000	10,000		385	28	4
FA0410	30 Apr	0045	180	37°42' N 123°00' W	29°33' N 116°52' W	4,000	4,000		393	52	10
FA0411	30 Apr	0345	100	29°33' N 116°52' W	24°50' N 113°50' W	4,000	20,000	Climb from 27°36' N, 115°48' W to 26°12' N, 114°48' W	393	1,617	842
FA0412	30 Apr	0525	155	24°50' N 113°50' W	16°00' N 108°40' W	20,000	20,000		393	443	134
FA0413	30 Apr	0800	75	16°00' N 108°40' W	18°18' N 109°40' W	20,000	30,000	Climb from 15°00' N to 16°18' N, 108°30' W	393	375	262
FA0414	30 Apr	0915	195	18°18' N 109°40' W	29°50' N 116°46' W	30,000	30,000		393	493	150
FA0415	30 Apr	1230	180	29°50' N 116°46' W	37°42' N 122°30' W	30,000	30,000		393	504	166
FA0418	30 Apr	1020	225	60°35' N 151°00' W	52°20' N 145°00' W	5,000	5,000		378	8	1

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0419	30 Apr	1020	225	60°35' N 151°00' W	52°20' N 145°00' W	5,000	5,000		378	19	3
FA0420	30 Apr	1405	230	52°20' N 145°00' W	46°25' N 136°45' W	5,000	5,000		378	19	3
FA0421	30 Apr	1405	230	52°20' N 145°00' W	46°25' N 136°45' W	5,000	5,000		378	8	1
FA0422	30 Apr	1755	160	46°25' N 136°45' W	38°50' N 124°55' W	5,000	1,000		378	7	1
FA0423	30 Apr	1755	160	46°25' N 136°45' W	38°50' N 124°55' W	5,000	1,000		378	7	1
FA0440	1 May	2326	172	37°09' N 122°42' W	29°20' N 116°54' W	2,000	2,000		392	31	6
FA0441	2 May	0218	76	29°20' N 116°54' W	25°45' N 113°58' W	2,000	20,000	Climb from 27°42' N, 115°42' W to 26°24' N, 114°30' W	392	12	6
FA0442	2 May	0334	193	25°45' N 113°58' W	16°32' N 107°35' W	20,000	20,000		392	60	15
FA0443	2 May	0647	60	16°32' N 107°35' W	17°15' N 108°05' W	20,000	30,000	Climb from 15°12' N, 106°48' W, to 16°42' N, 107°42' W	392	10	9
FA0444	2 May	0747	170	17°15' N 108°05' W	27°10' N 115°37' W	30,000	30,000		392	3	1
FA0445	2 May	1037	213	27°10' N 115°37' W	37°42' N 122°10' W	30,000	10,000	Began descent at 38°48' N, 120°54' W	392	31	7
FA0449	2 May	1205	180	32°25' N 64°50' W	33°45' N 75°33' W	21,000	21,000		374	-20	0
FA0450	2 May	1205	180	32°25' N 64°50' W	33°45' N 75°33' W	21,000	21,000		374	-10	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0451	2 May	1505	180	33°45' N 75°33' W	35°00' N 85°35' W	21,000	21,000		374	3	1
FA0452	2 May	1505	180	33°45' N 75°33' W	35°00' N 85°35' W	21,000	21,000		374	32	9
FA0453	2 May	1805	180	35°00' N 85°35' W	35°20' N 94°25' W	21,000	21,000		374	11	3
FA0454	2 May	1805	180	35°00' N 85°35' W	35°20' N 94°25' W	21,000	21,000		374	16	4
FA0455	2 May	2105	95	35°20' N 94°25' W	35°20' N 97°10' W	21,000	21,000		374	53	27
FA0456	2 May	2105	95	35°20' N 94°25' W	35°20' N 97°10' W	21,000	21,000		374	- 7	0
FA0457	2 May	2335	180	35°35' N 97°35' W	36°48' N 108°50' W	21,000	21,000	Apparently aircraft landed at Tinker AFB, Oklahoma and remained there briefly	374	65	17
FA0458	2 May	2335	180	35°35' N 97°35' W	36°48' N 108°50' W	21,000	21,000	Apparently aircraft landed at Tinker AFB, Oklahoma and remained there briefly	374	50	13
FA0459	3 May	0235	180	36°48' N 108°50' W	38°15' N 121°55' W	21,000	21,000		374	28	8
FA0460	3 May	0235	180	36°48' N 108°50' W	38°15' N 121°55' W	21,000	21,000		374	37	10
FA0463	3 May	0535	180	61°00' N 150°00' W	52°00' N 137°30' W	21,000	21,000		374	12	3
FA0464	3 May	0535	180	61°00' N 150°00' W	52°00' N 137°30' W	21,000	21,000		374	- 3	0
FA0465	3 May	0835	270	52°00' N 137°30' W	38°00' N 122°00' W	21,000	21,000		374	37	7

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0486	3 May	0835	270	52°00' N 137°30' W	38°00' N 122°00' W	21,000	21,000		374	11	3
FA0488	5 May	2020	120	37°42' N 123°00' W	41°55' N 129°10' W	11,000	11,000		361	- 1	0
FA0489	5 May	2220	120	41°55' N 129°10' W	46°15' N 135°15' W	11,000	11,000		393	5	2
FA0490	6 May	0020	85	46°15' N 135°15' W	48°48' N 140°35' W	11,000	11,000		361	0	0
FA0491	6 May	0145	40	48°48' N 140°35' W	49°10' N 141°15' W	11,000	28,000	Climb on course via 42.2° N, 149.7° W	393	0	0
FA0493	6 May	0225	118	49°10' N 141°15' W	43°33' N 131°40' W	28,000	28,000		361	10	5
FA0494	6 May	0423	122	43°33' N 131°40' W	38°00' N 123°30' W	28,000	28,000		393	24	11
FA0495	5 May	1915	120	37°42' N 122°58' W	31°50' N 118°48' W	6,000	11,000	Climb to 121°54' W, 36°12' N	393	4	1
FA0496	5 May	2115	120	31°50' N 118°48' W	26°16' N 114°52' W	11,000	11,000		361	4	1
FA0497	5 May	2315	120	26°16' N 114°52' W	20°30' N 111°00' W	11,000	11,000		393	1,213	393
FA0498	6 May	0115	95	20°30' N 111°00' W	16°10' N 108°20' W	11,000	11,000		393	37	15
FA0500	6 May	0250	60	16°10' N 108°20' W	16°10' N 108°15' W	11,000	30,000		361	2,759	1,932
FA0501	6 May	0350	120	16°10' N 108°15' W	22°38' N 112°20' W	30,000	30,000		393	1,713	845

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0502	6 May	0550	120	22°38' N 112°20' W	29°10' N 115°06' W	30,000	27,000	Began descent at 27°36' N, 115°42' W	361	84	40
FA0503	6 May	0750	120	29°10' N 115°06' W	35°15' N 119°58' W	27,000	19,000	Descent at 32°00' N, 118°42' W	393	36	15
FA0504	6 May	0950	62	35°15' N 119°58' W	38°14' N 121°56' W	19,000	19,000		361	69	52
FA0509	6 May	1920	85	33°38' N 119°59' W	Missing	11,000	11,000	Flight data incomplete and inconsistent. Appears to have been exposed near March AFB, Calif.	393	-16	0
FA0510	6 May	1920	120	33°38' N 119°59' W	Missing	11,000	11,000	Flight data incomplete and inconsistent. Appears to have been exposed near March AFB, Calif.	393	-29	0
FA0513	6 May	1950	120	37°42' N 123°00' W	41°11' N 128°25' W	11,000	11,000		384	16	5
FA0514	6 May	2130	125	41°11' N 128°25' W	45°15' N 134°45' W	11,000	11,000		384	-12	0
FA0515	6 May	2355	125	45°15' N 134°45' W	48°39' N 140°15' W	11,000	11,000		384	3	1
FA0516	7 May	0200	60	48°39' N 140°15' W	48°39' N 140°15' W	11,000	30,000		384	4	3
FA0517	7 May	0300	120	48°39' N 140°15' W	39°57' N 126°08' W	30,000	30,000		384	-11	0
FA0518	7 May	0500	55	39°57' N 126°08' W	37°42' N 123°00' W	30,000	30,000		384	14	15
FA0522	6 May	2355	120	37°42' N 123°00' W	32°10' N 118°45' W	11,000	11,000		359	3	1
FA0523	7 May	0155	120	32°10' N 118°45' W	28°55' N 115°15' W	11,000	11,000		380	13	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0524	7 May	0355	120	26°55' N 115°15' W	22°03' N 111°00' W	11,000	11,000		359	1,643	523
FA0525	7 May	0555	125	22°03' N 111°00' W	15°09' N 108°08' W	11,000	11,000		359	483	150
FA0526	7 May	0800	55	15°09' N 108°08' W	15°40' N 108°30' W	11,000	30,500		380	793	687
FA0527	7 May	0855	120	15°40' N 108°30' W	19°50' N 110°40' W	30,500	30,500		359	463	228
FA0528	7 May	1055	120	19°50' N 110°40' W	29°05' N 116°08' W	30,500	30,500		380	1,838	906
FA0529	7 May	1255	120	29°05' N 116°08' W	34°30' N 120°25' W	30,500	30,500		380	104	51
FA0530	7 May	1455	50	34°30' N 120°25' W	36°35' N 121°53' W	30,500	30,500		390	1	1
FA0536	7 May	2035	55	21°18' N 157°22' W	22°50' N 154°25' W	20,000	20,000		387	14	12
FA0537	7 May	2035	55	21°18' N 157°22' W	22°50' N 154°25' W	20,000	20,000		387	52	44
FA0538	7 May	2130	60	22°50' N 154°25' W	24°55' N 150°45' W	20,000	20,000		387	50	39
FA0539	7 May	2130	60	22°50' N 154°25' W	24°55' N 150°45' W	20,000	20,000		387	250	196
FA0540	7 May	2230	60	24°55' N 150°45' W	26°55' N 146°25' W	20,000	20,000		387	683	534
FA0541	7 May	2230	60	24°55' N 150°45' W	26°55' N 146°25' W	20,000	20,000		387	5,459	4,272

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND G/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0542	7 May	2330	120	26°55' N 146°25' W	30°55' N 139°25' W	20,000	20,000		387	5,764	2,255
FA0543	7 May	2330	120	26°55' N 146°25' W	30°55' N 139°25' W	20,000	20,000		387	792	310
FA0544	8 May	0130	120	30°55' N 139°25' W	33°52' N 130°50' W	20,000	20,000		387	646	253
FA0545	8 May	0130	120	30°55' N 139°25' W	33°52' N 130°50' W	20,000	20,000		387	191	75
FA0546	8 May	0330	115	33°52' N 130°50' W	37°40' N 123°00' W	20,000	20,000		387	242	99
FA0547	8 May	0330	115	33°52' N 130°50' W	37°40' N 123°00' W	20,000	20,000		387	13	5
FA0548	7 May	1950	120	37°45' N 123°20' W	41°03' N 128°00' W	1,000	1,000		387	10	3
FA0549	7 May	2150	130	41°03' N 128°00' W	44°37' N 133°35' W	1,000	1,000		387	- 1	0
FA0550	8 May	0000	115	44°37' N 133°35' W	48°40' N 140°12' W	1,000	1,000		387	- 2	0
FA0551	8 May	0155	40	48°40' N 140°12' W	48°40' N 140°20' W	1,000	21,000		387	- 1	0
FA0552	8 May	0235	120	48°40' N 140°20' W	43°13' N 131°28' W	21,000	21,000		387	26	10
FA0553	8 May	0435	105	43°13' N 131°28' W	37°42' N 123°00' W	21,000	21,000		FILTER PAPER MISSING		----------
FA0555	7 May	1954	123	37°42' N 123°00' W	41°25' N 127°55' W	11,000	11,000		387	20	6

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0556	7 May	2157	116	41°25' N 127°55' W	44°42' N 133°05' W	11,000	11,000		387	10	3
FA0557	7 May	2353	121	44°42' N 133°05' W	49°00' N 139°50' W	11,000	11,000		387	0	0
FA0558	8 May	0154	62	49°00' N 139°50' W	49°02' N 140°08' W	11,000	30,000		387	1	1
FA0559	8 May	0256	120	49°02' N 140°08' W	43°05' N 130°35' W	30,000	30,000		387	- 3	0
FA0560	8 May	0456	103	43°05' N 130°35' W	37°42' N 123°00' W	30,000	30,000		387	- 3	0
FA0561	8 May	0639	62	37°42' N 123°00' W	37°42' N 123°00' W	30,000	5,000		387	0	0
FA0564	8 May	0540	121	22°00' N 112°42' W	30°00' N 117°00' W	30,000	30,000		387	3,209	1,569
FA0565	8 May	0741	118	30°00' N 117°00' W	36°15' N 121°30' W	30,000	30,000		387	11	6
FA0566	8 May	0340	120	16°00' N 108°00' W	22°00' N 112°42' W	30,000	30,000		387	1,123	554
FA0567	8 May	0258	42	16°30' N 108°30' W	16°00' N 108°00' W	11,000	30,000	Reached 20,000 feet at 15°00' N, 107°30' W	387	465	527
FA0568	7 May	2331	120	24°50' N 113°50' W	19°35' N 110°20' W	11,000	11,000		387	2,395	777
FA0569	8 May	0131	87	19°35' N 110°20' W	16°30' N 108°30' W	11,000	11,000		387	156	70
FA0570	7 May	1931	120	37°40' N 123°00' W	30°30' N 117°50' W	11,000	11,000		387	-3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
FA0571	7 May	2131	120	30°30' N 117°50' W	24°50' N 113°50' W	11,000	11,000		387	66	21
FA0572	7 May	1928	120	37°42' N 123°00' W	31°55' N 118°49' W	1,000	1,000		387	3	.1
FA0573	7 May	2128	120	31°55' N 118°49' W	26°26' N 114°39' W	1,000	1,000		387	- 3	0
FA0574	7 May	2328	120	26°26' N 114°39' W	21°00' N 111°11' W	1,000	1,000		387	186	50
FA0575	8 May	0128	115	21°00' N 111°11' W	15°45' N 107°58' W	1,000	1,000		387	4	1
FA0576	8 May	0323	38	15°45' N 107°58' W	15°50' N 108°10' W	1,000	21,000		387	409	419
FA0577	8 May	0401	115	15°50' N 108°10' W	21°48' N 111°43' W	21,000	21,000		387	4,295	1,796
FA0578	8 May	0755	120	28°07' N 115°43' W	34°25' N 120°30' W	21,000	21,000		387	13	5
FA0579	8 May	0556	119	21°48' N 111°43' W	28°07' N 115°43' W	21,000	21,000		387	2,794	1,129
FA0580	8 May	0955	70	34°25' N 120°30' W	37°42' N 123°00' W	21,000	21,000		387	7	5
FA0586	8 May	1951	121	37°40' N 123°00' W	41°21' N 128°29' W	11,000	11,000		381	436	140
FA0587	8 May	2152	120	41°21' N 128°29' W	45°28' N 134°36' W	11,000	11,000		381	16	5
FA0588	8 May	2352	93	45°28' N 134°36' W	49°13' N 140°52' W	11,000	11,000		381	- 3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0589	9 May	0125	60	49°13' N 140°52' W	47°40' N 140°49' W	11,000	30,000		381	- 6	0
FA0590	9 May	0225	120	47°40' N 140°49' W	41°37' N 129°08' W	30,000	30,000		381	7	3
FA0591	9 May	0425	60	41°37' N 129°08' W	37°42' N 123°00' W	30,000	30,000		381	101	100
FA0592	8 May	2115	120	21°30' N 158°00' W	24°30' N 151°10' W	13,000	21,000		381	94	34
FA0593	8 May	2115	120	21°30' N 158°00' W	24°30' N 151°10' W	13,000	21,000		381	77	28
FA0594	8 May	2315	120	24°30' N 151°10' W	28°20' N 143°30' W	21,000	21,000		381	3,883	1,556
FA0595	8 May	2315	120	24°30' N 151°10' W	28°20' N 143°30' W	21,000	21,000		381	2,450	982
FA0596	9 May	0115	120	28°20' N 143°30' W	32°00' N 135°35' W	21,000	21,000		381	119	48
FA0597	9 May	0115	120	28°20' N 143°30' W	32°00' N 135°35' W	21,000	21,000		381	70	28
FA0598	9 May	0315	120	32°00' N 135°35' W	36°10' N 126°10' W	21,000	21,000		381	102	41
FA0599	9 May	0315	120	32°00' N 135°35' W	36°10' N 126°10' W	21,000	21,000		381	81	32
FA0600	9 May	0515	45	36°10' N 126°10' W	37°30' N 122°30' W	21,000	1,000	Descent on course	381	95	82
FA0601	9 May	0515	45	36°10' N 126°10' W	37°30' N 122°30' W	21,000	1,000	Descent on course	381	81	70

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0603	8 May	1950	120	37°42' N 123°00' W	41°18' N 128°00' W	1,000	1,000		381	-12	0
FA0604	8 May	2150	120	41°18' N 128°00' W	45°15' N 135°00' W	1,000	1,000		381	5	1
FA0605	8 May	2350	130	45°15' N 135°00' W	49°18' N 140°57' W	1,000	1,000		381	-10	0
FA0606	9 May	0200	35	49°18' N 140°57' W	49°35' N 141°35' W	1,000	21,000		381	.11	12
FA0607	9 May	0235	120	49°35' N 141°35' W	43°35' N 131°32' W	21,000	21,000		381	4	2
FA0608	9 May	0435	125	43°35' N 131°32' W	37°45' N 123°00' W	21,000	21,000		381	25	10
FA0609	8 May	2305	120	21°15' N 157°50' W	24°05' N 152°25' W	1,000	11,000		381	44	13
FA0610	8 May	2305	120	21°15' N 157°50' W	24°05' N 152°25' W	1,000	11,000		381	30	9
FA0611	9 May	0105	120	24°05' N 152°25' W	26°40' N 147°00' W	11,000	11,000		381	2,812	912
FA0612	9 May	0105	120	24°05' N 152°25' W	26°40' N 147°00' W	11,000	11,000		381	2,484	805
FA0613	9 May	0305	120	26°40' N 147°00' W	30°20' N 139°15' W	11,000	11,000		381	2,777	900
FA0614	9 May	0305	120	26°40' N 147°00' W	30°20' N 139°15' W	11,000	11,000		381	2,490	807
FA0615	9 May	0505	120	30°20' N 139°15' W	33°40' N 131°30' W	11,000	11,000		381	172	56

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0616	9 May	0505	120	30°20' N 139°15' W	33°40' N 131°30' W	11,000	11,000		381	33	11
FA0617	9 May	0705	120	33°40' N 131°30' W	37°00' N 124°15' W	11,000	11,000		381	69	22
FA0618	9 May	0705	120	33°40' N 131°30' W	37°00' N 124°15' W	11,000	11,000		381	61	20
FA0621	8 May	1920	120	37°40' N 122°58' W	31°00' N 118°00' W	11,000	11,000		378	3	1
FA0622	8 May	2120	120	31°00' N 118°00' W	25°00' N 113°30' W	11,000	11,000		376	53	17
FA0623	8 May	2320	120	25°00' N 113°30' W	19°00' N 110°00' W	11,000	11,000		381	905	293
FA0624	9 May	0120	70	19°00' N 110°00' W	16°00' N 108°00' W	11,000	11,000		376	294	163
FA0625	9 May	0230	50	16°00' N 108°00' W	16°30' N 108°30' W	11,000	29,500	Climbed to 20,500 at 15°00' N, 107°30' W	381	684	648
FA0626	9 May	0320	120	16°30' N 108°30' W	24°00' N 112°30' W	29,500	29,500		376	1,928	939
FA0627	9 May	0520	125	24°00' N 112°30' W	30°30' N 118°00' W	29,500	29,500		376	573	268
FA0628	9 May	0725	120	30°30' N 118°00' W	36°00' N 122°00' W	29,500	29,500		381	454	221
FA0629	9 May	0925	45	36°00' N 122°00' W	37°40' N 123°00' W	29,500	29,500		376	9	12
FA0630	8 May	1925	120	37°42' N 123°00' W	31°40' N 118°42' W	1,000	1,000		378	- 3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0631	8 May	2125	120	31°40' N 118°42' W	25°10' N 114°47' W	1,000	1,000		376	5	1
FA0632	8 May	2325	120	26°10' N 114°47' W	20°40' N 111°08' W	1,000	1,000		381	9	2
FA0633	9 May	0125	110	20°40' N 111°08' W	15°42' N 108°00' W	1,000	1,000		376	15	4
FA0634	9 May	0315	45	15°42' N 108°00' W	15°32' N 108°05' W	1,000	21,000	Reached 10,000 feet at 15°00' N, 107°30' W	381	6	5
FA0635	9 May	0400	120	15°52' N 108°05' W	22°32' N 112°20' W	21,000	21,000		376	2,959	1,186
FA0636	9 May	0600	120	22°32' N 112°20' W	27°45' N 115°50' W	21,000	21,000		376	2,058	825
FA0637	9 May	0800	120	27°45' N 115°50' W	32°35' N 119°12' W	21,000	21,000		376	93	37
FA0638	9 May	1000	110	32°35' N 119°12' W	36°58' N 122°30' W	21,000	21,000		376	28	12
FA0640	9 May	0225	120	21°10' N 158°03' W	24°02' N 152°10' W	10,500	10,500		376	38	12
FA0641	9 May	0425	120	24°02' N 152°10' W	25°29' N 145°25' W	10,500	10,500		376	1,733	555
FA0642	9 May	0625	120	25°29' N 146°25' W	30°01' N 140°00' W	10,500	10,500		376	1,422	451
FA0643	9 May	0825	113	30°01' N 140°00' W	33°35' N 131°10' W	10,500	10,500		376	68	23
FA0644	9 May	1018	155	33°35' N 131°10' W	37°42' N 123°00' W	10,500	10,500		376	52	13

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0648	9 May	1949	120	37°42' N 123°00' W	41°52' N 129°08' W	1,000	1,000		376	892	241
FA0649	9 May	2149	120	41°52' N 129°08' W	45°38' N 134°55' W	1,000	1,000		381	- 3	0
FA0650	9 May	2349	107	45°38' N 134°55' W	49°20' N 140°10' W	1,000	1,000		376	3	1
FA0651	10 May	0136	32	49°20' N 140°10' W	49°08' N 141°04' W	1,000	21,000		388	- 6	0
FA0652	10 May	0208	117	49°08' N 141°04' W	43°42' N 132°02' W	21,000	21,000		376	256	105
FA0653	10 May	0405	115	43°42' N 132°02' W	37°42' N 123°42' W	21,000	21,000		388	60	25
FA0654	9 May	1946	115	37°42' N 123°00' W	41°21' N 128°26' W	11,000	11,000		382	6	2
FA0655	9 May	2141	107	41°21' N 128°25' W	44°58' N 133°19' W	11,000	11,000		388	-40	0
FA0656	9 May	2328	118	44°58' N 133°19' W	48°44' N 140°09' W	11,000	11,000		376	2	1
FA0657	10 May	0126	60	48°44' N 140°09' W	48°40' N 139°35' W	11,000	30,000		388	-39	0
FA0658	10 May	0226	121	48°40' N 139°35' W	43°28' N 129°19' W	30,000	30,000		376	20	10
FA0659	10 May	0427	96	43°28' N 129°19' W	37°42' N 123°00' W	30,000	30,000		388	-14	0
FA0660	10 May	0603	27	37°42' N 123°00' W	38°24' N 121°57' W	30,000	4,000		376	15	24

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0662	9 May	1921	119	37°32' N 122°54' W	31°03' N 117°51' W	11,000	11,000		376	11	4
FA0663	9 May	2120	120	31°03' N 117°51' W	24°52' N 113°23' W	11,000	11,000		376	27	9
FA0664	9 May	2320	120	24°52' N 113°23' W	18°31' N 109°40' W	11,000	11,000		376	736	239
FA0665	10 May	0120	50	18°31' N 109°40' W	15°51' N 108°00' W	11,000	11,000		376	92	72
FA0666	10 May	0210	35	15°51' N 108°00' W	15°52' N 108°00' W	11,000	24,000	Via 15°00' N, 108°18' W	376	346	439
FA0667	10 May	0245	120	15°52' N 108°00' W	24°25' N 112°40' W	24,000	24,000		376	2,013	860
FA0668	10 May	0445	120	24°25' N 112°40' W	30°20' N 116°23' W	24,000	24,000		376	574	245
FA0669	10 May	0645	120	30°20' N 116°23' W	34°44' N 120°13' W	24,000	24,000		376	53	23
FA0671	9 May	1920	120	37°42' N 123°00' W	32°05' N 118°56' W	1,000	1,000		376	3	1
FA0672	9 May	2120	120	38°05' N 118°56' W	26°30' N 114°47' W	1,000	1,000		376	6	2
FA0673	9 May	2320	120	26°30' N 114°47' W	21°19' N 111°30' W	1,000	1,000		376	47	13
FA0674	10 May	0120	126	21°19' N 111°30' W	16°00' N 107°53' W	1,000	1,000		376	88	23
FA0675	10 May	0326	49	16°00' N 107°53' W	16°07' N 107°56' W	1,000	21,000		376	469	372

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0676	10 May	0415	120	16°07' N 107°56' W	22°40' N 111°22' W	21,000	21,000		376	2,323	931
FA0677	10 May	0615	120	22°40' N 111°22' W	27°29' N 115°25' W	21,000	21,000		376	120	48
FA0678	10 May	0815	120	27°29' N 115°25' W	32°23' N 119°02' W	21,000	21,000		376	31	12
FA0679	10 May	1015	120	32°23' N 119°02' W	37°42' N 123°00' W	21,000	21,000		376	88	35
FA0687	11 May	0520	25	39°00' N 125°00' W	37°50' N 123°00' W	21,000	1,000		387	-14	0
FA0688	11 May	0445	35	40°30' N 127°30' W	39°00' N 125°00' W	21,000	21,000		387	- 3	0
FA0689	11 May	0245	120	46°30' N 136°30' W	40°30' N 127°30' W	21,000	21,000		387	- 1	0
FA0690	11 May	0204	41	48°30' N 140°00' W	46°30' N 136°30' W	30,000	21,000		387	14	18
FA0691	11 May	0124	40	49°00' N 141°00' W	48°30' N 140°00' W	11,000	30,000		387	5	6
FA0692	10 May	2355	89	45°30' N 135°00' W	49°00' N 141°00' W	11,000	11,000		387	18	8
FA0693	10 May	2155	120	41°30' N 129°00' W	45°30' N 135°00' W	11,000	11,000		387	8	3
FA0694	10 May	1955	120	37°45' N 123°00' W	41°30' N 129°00' W	11,000	11,000		387	- 8	0
FA0695	11 May	0520	130	23°03' N 112°46' W	30°02' N 117°30' W	30,000	30,000		387	65	30

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0696	11 May	0730	130	30°02' N 117°30' W	35°32' N 122°03' W	30,000	30,000		387	18	8
FA0697	11 May	0320	120	16°24' N 108°23' W	23°03' N 112°48' W	30,000	30,000		387	492	243
FA0698	11 May	0257	43	15°48' N 108°09' W	16°24' N 108°23' W	11,000	30,000	Via 15°00' N	387	352	390
FA0699	11 May	0125	72	19°35' N 110°17' W	15°48' N 108°08' W	11,000	11,000		387	1,104	597
FA0700	10 May	2325	120	25°25' N 113°47' W	19°35' N 110°17' W	11,000	11,000		387	537	174
FA0701	10 May	2125	120	31°27' N 118°18' W	25°25' N 113°47' W	11,000	11,000		387	387	125
FA0702	10 May	1925	120	37°42' N 123°00' W	31°27' N 118°18' W	11,000	11,000		387	- 3	0
FA0710	12 May	0330	120	44°10' N 132°10' W	37°42' N 123°00' W	30,000	30,000		381	296	146
FA0711	12 May	0130	120	49°10' N 141°15' W	44°10' N 132°10' W	30,000	30,000		381	3	2
FA0712	12 May	0045	45	48°20' N 139°50' W	49°10' N 141°15' W	11,000	30,000		381	5	3
FA0713	12 May	0000	45	46°30' N 136°40' W	48°20' N 139°50' W	11,000	11,000		381	- 4	0
FA0714	11 May	2300	120	41°50' N 129°15' W	46°30' N 136°40' W	11,000	11,000		381	10	3
FA0715	11 May	2000	120	37°41' N 123°00' W	41°50' N 129°15' W	11,000	11,000		381	- 6	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0718	12 May	0750	150	30°10' N 118°20' W	37°40' N 123°00' W	30,000	30,000		381	97	38
FA0719	12 May	0545	125	23°30' N 113°48' W	30°10' N 118°20' W	30,000	30,000		381	147	70
FA0720	12 May	0320	145	16°12' N 108°15' W	23°30' N 113°48' W	30,000	30,000		381	284	116
FA0721	12 May	0220	60	16°30' N 108°35' W	16°12' N 108°15' W	11,000	30,000	Via 15°00' N, 107°30' W	381	895	234
FA0722	12 May	0125	55	19°20' N 110°20' W	16°30' N 108°35' W	11,000	11,000		381	500	354
FA0723	11 May	2320	125	25°20' N 114°08' W	19°20' N 110°20' W	11,000	11,000		381	1,079	336
FA0724	11 May	2125	115	31°15' N 118°30' W	25°20' N 114°08' W	11,000	11,000		381	1	0
FA0725	11 May	1925	120	37°30' N 123°00' W	31°15' N 118°30' W	11,000	11,000		381	8	3
FA0733	12 May	1955	120	37°42' N 123°00' W	41°37' N 128°12' W	11,000	11,000		380	9	3
FA0734	12 May	2155	125	41°37' N 128°12' W	45°36' N 134°23' W	11,000	11,000		380	5	2
FA0735	13 May	0000	125	45°36' N 134°23' W	49°30' N 140°33' W	11,000	11,000		380	8	2
FA0736	13 May	0035	30	49°30' N 140°33' W	48°40' N 140°38' W	11,000	30,000		380	12	11
FA0737	13 May	0055	125	48°40' N 140°38' W	43°58' N 132°38' W	30,000	30,000		380	7	3

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0738	13 May	0500	110	43°58' N 132°28' W	38°48' N 124°34' W	30,000	30,000		380	8	4
FA0740	12 May	1920	120	37°43' N 123°00' W	32°03' N 118°50' W	11,000	11,000		380	59	19
FA0741	12 May	2120	120	32°03' N 118°50' W	26°20' N 114°50' W	11,000	11,000		380	55	18
FA0742	12 May	2320	108	26°20' N 114°50' W	21°12' N 111°25' W	11,000	11,000		380	219	79
FA0743	13 May	0108	105	21°12' N 111°25' W	15°58' N 108°58' W	11,000	9,500		380	1,304	476
FA0744	13 May	0253	40	15°58' N 108°58' W	15°52' N 108°08' W	9,500	30,500	Via 15°00' N, 107°30' W	380	167	196
FA0745	13 May	0333	117	15°52' N 108°08' W	21°50' N 111°30' W	30,500	30,500		380	115	61
FA0746	13 May	0530	120	21°50' N 111°30' W	27°55' N 115°34' W	30,500	30,500		380	149	74
FA0747	13 May	0730	120	27°55' N 115°34' W	34°05' N 120°14' W	30,500	30,500		380	204	101
FA0748	13 May	0930	50	34°05' N 120°14' W	36°30' N 122°05' W	30,000	26,000	Began descent at 34°54' N, 120°54' W	380	4	4
FA0759	14 May	1600	90	38°10' N 122°00' W	38°10' N 122°00' W	10,000	10,000		Missing	1,700	721
FA0788	17 May	1900	120	22°45' N 157°10' W	25°10' N 150°25' W	15,000	15,000		389	2,467	894
FA0789	17 May	2100	120	25°10' N 150°25' W	28°25' N 143°20' W	15,000	15,000		389	138	48

*Data extracted from Radio Message Forms

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0790	17 May	2300	150	28°25' N 143°20' W	32°45' N 134°15' W	15,000	15,000		389	210	59
FA0791	18 May	0130	150	32°45' N 134°15' W	38°15' N 122°05' W	15,000	15,000		389	103	29
FA0817	21 May	0800	60	21°42' N 111°00' W	25°00' N 112°22' W	21,000	21,000		Missing	350	521
FA0818	21 May	0700	60	18°28' N 109°28' W	21°42' N 111°00' W	21,000	21,000		Missing	150	120
FA0819	21 May	0900	60	25°00' N 112°22' W	28°00' N 115°28' W	21,000	21,000		Missing	1	1
FA0820	21 May	0555	55	14°45' N 105°45' W	18°28' N 109°28' W	21,000	21,000		Missing	3	2
FA0821	21 May	1000	60	28°00' N 115°28' W	31°00' N 117°30' W	21,000	21,000		Missing	1	1
FA0823	21 May	1100	60	31°00' N 117°30' W	34°00' N 120°00' W	21,000	21,000		Missing	36	29
FA0824	21 May	1200	60	34°00' N 120°00' W	35°35' N 121°54' W	21,000	21,000		Missing	0	0
FA0825	21 May	0510	45	15°00' N 107°30' W	14°45' N 106°45' W	13,000	21,000		Missing	25	24
FA0826	21 May	0355	15	17°45' N 110°35' W	16°55' N 110°27' W	1,000	1,000		Missing	0	0
FA0827	21 May	0335	20	19°00' N 110°48' W	17°45' N 110°35' W	1,000	1,000		Missing	0	0
FA0828	21 May	0314	21	19°51' N 110°48' W	19°00' N 110°35' W	1,000	1,000		Missing	0	0

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
* FA0829	20 May	2048	9	36°48' N 122°28' W	36°20' N 122°30' W	1,000	1,000		Miss ing	0	0
* FA0830	20 May	2035	60	37°46' N 123°26' W	35°05' N 121°06' W	1,000	1,000		Miss ing	0	0
* FA0831	20 May	2135	60	35°05' N 121°06' W	32°25' N 119°17' W	1,000	1,000		Miss ing	0	0
* FA0833	20 May	2235	60	32°25' N 119°17' W	29°40' N 117°26' W	1,000	1,000		Miss ing	3	2
* FA0834	20 May	2335	60	29°40' N 117°26' W	26°52' N 115°24' W	1,000	1,000		Miss ing	5	3
* FA0835	21 May	0035	60	26°52' N 115°24' W	24°07' N 113°35' W	1,000	1,000		Miss ing	0	0
* FA0836	21 May	0435	20	16°28' N 108°30' W	15°42' N 107°55' W	1,000	1,000		Miss ing	1	2
* FA0837	21 May	0135	60	24°07' N 113°35' W	21°30' N 112°00' W	1,000	1,000		Miss ing	6	3
* FA0838	21 May	0335	60	19°00' N 110°48' W	16°28' N 108°30' W	1,000	1,000		Miss ing	26	14
* FA0839	21 May	0235	60	21°30' N 112°00' W	19°00' N 110°48' W	1,000	1,000		Miss ing	2	1
* FA0840	21 May	0455	60	15°42' N 107°55' W	14°45' N 106°45' W	1,000	21,000		Miss ing	58	38
FA0846	22 May	0234	16	44°15' N 137°50' W	44°48' N 138°27' W	11,000	11,000		384	5	12
FA0847	22 May	0615	11	48°15' N 132°15' W	47°35' N 131°30' W	11,000	11,000		384	7	25

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	DATE* (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0848	21 May	2229	58	37°42' N 123°00' W	38°55' N 126°15' W	11,000	11,000		384	8	5
FA0849	21 May	2327	60	38°55' N 126°16' W	40°43' N 130°05' W	11,000	11,000		384	69	45
FA0850	22 May	0027	59	40°43' N 130°05' W	42°15' N 133°31' W	11,000	11,000		384	73	48
FA0851	22 May	0126	60	42°15' N 133°31' W	43°53' N 137°20' W	11,000	11,000		384	71	46
FA0853	22 May	0226	60	43°53' N 137°20' W	47°50' N 136°40' W	11,000	11,000		384	24	16
FA0854	22 May	0326	60	47°50' N 136°40' W	51°55' N 136°38' W	11,000	11,000		384	1	1
FA0855	22 May	0426	60	51°55' N 136°38' W	49°50' N 133°50' W	11,000	11,000		384	8	5
FA0856	22 May	0526	60	49°50' N 133°50' W	47°35' N 131°30' W	11,000	11,000		384	3	2
FA0857	22 May	0626	60	47°35' N 131°30' W	44°47' N 129°12' W	11,000	11,000		384	2	1
FA0858	22 May	0726	60	44°47' N 129°12' W	41°32' N 126°32' W	11,000	11,000		384	10	7
FA0859	22 May	0826	60	41°32' N 126°32' W	39°40' N 124°25' W	11,000	11,000		384	50	32
FA0860	22 May	0926	39	39°40' N 124°25' W	37°42' N 123°00' W	11,000	11,000		384	0	0
FA0861	22 May	1005	11	37°42' N 123°00' W	38°14' N 121°57' W	11,000	1,000		384	5	16

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0864	22 May	0630	60	26°35' N 133°18' W	23°40' N 135°50' W	21,000	21,000		1579	219	175
FA0865	22 May	0530	60	29°03' N 131°15' W	26°35' N 133°18' W	21,000	21,000		1579	242	194
FA0866	22 May	0430	60	32°30' N 128°15' W	29°03' N 131°15' W	21,000	21,000		1787	103	83
FA0867	22 May	0230	60	38°16' N 121°56' W	35°23' N 125°15' W	0	21,000	21,000 feet reached at 36°30' N, 124°20' W	1787	902	578
FA0868	22 May	0330	60	35°23' N 125°15' W	32°30' N 128°15' W	21,000	21,000		1787	259	208
FA0869	22 May	1230	60	25°07' N 121°48' W	28°37' N 122°10' W	2,500	2,500		512	301	167
FA0870	22 May	1330	60	28°37' N 122°10' W	32°18' N 122°30' W	2,500	3,500	Climb on course	512	527	294
FA0871	22 May	1430	60	32°18' N 122°30' W	35°15' N 122°30' W	3,500	3,500		512	1,542	868
FA0872	22 May	1530	60	35°15' N 122°30' W	37°45' N 122°25' W	3,500	10,000	Climb on course	580	726	432
FA0873	22 May	0500	120	30°48' N 129°30' W	25°24' N 134°30' W	21,000	21,000		1579	183	73
FA0874	22 May	1100	120	23°10' N 124°40' W	26°55' N 121°55' W	6,000	3,500	Via 23°08' N, 121°36' W	512	123	35
FA0875	22 May	0930	60	23°09' N 128°35' W	23°55' N 126°10' W	5,000	6,000	Climb on course	512	34	20
FA0876	22 May	0230	150	38°16' N 121°56' W	30°48' N 129°30' W	0	21,000	21,000 feet reached at 36°30' N, 124°20' W	1787	384	99

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
FA0877	22 May	0730	60	23°40' N 135°50' W	23°05' N 132°45' W	21,000	6,000	Descent on course	594	32	22
FA0878	22 May	0830	60	23°05' N 132°45' W	23°09' N 128°35' W	6,000	5,000	Descent on course	594	48	28
FA0879	22 May	1030	60	23°55' N 126°10' W	23°10' N 122°55' W	6,000	6,000		512	68	40
FA0880	22 May	1130	60	23°10' N 122°55' W	25°07' N 121°48' W	6,000	2,500	Via 23°06' N, 121°36' W	594	249	142
FA0881	22 May	1300	120	26°55' N 121°55' W	33°40' N 122°40' W	3,500	3,500		512	721	203
FA0882	22 May	0700	120	25°25' N 134°30' W	23°12' N 130°37' W	21,000	5,000	Via 23°40' N, 133°50' W	600	173	58
FA0883	22 May	0900	120	23°12' N 130°37' W	23°10' N 124°40' W	5,000	6,000		512	66	19
FA0888	22 May	2040	60	37°40' N 123°00' W	34°24' N 122°58' W	5,700	5,700		390	25	15
FA0889	22 May	2040	60	37°40' N 123°00' W	34°24' N 122°58' W	5,700	5,700		390	68	40
FA0890	22 May	2140	300	34°24' N 122°58' W	36°16' N 121°56' W*	5,700	11,000	Exposed simultaneously with papers FA 0892, FA 0893, and FA 0891	390	15,226 (See Note #1)	1,873
FA0891	22 May	2340	180	33°10' N 123°25' W	36°16' N 121°56' W**	3,600	11,000	Climb on course 3,600 feet to 11,000 feet from insert to 32°00' N, 123°30' W	390	14,563 (See Note #1)	2,921
FA0892	22 May	2140	60	34°24' N 122°58' W	32°22' N 123°32' W***	5,700	5,700		390	17	10
FA0893	22 May	2240	60	32°22' N 123°32' W	33°10' N 123°25' W****	5,700	3,600	Descended on course from 33°06' N, 124°12' W - to end.	390	51	29

*See Altitude Remarks
**Via 32°00' N, 123°30' W and 32°24' N, 123°00' W
***Via 32°00' N, 123°00' W
****Via 33°06' N, 124°12' W

Note 1: Excessively high activity believed to be due to "washing" of fuselage by gasoline pouring from over-filled bomb bay tank.

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0894	22 May	1633	57	21°24' N 158°00' W	22°45' N 154°45' W	0	10,000		392	205	125
FA0895	22 May	1730	60	22°45' N 154°45' W	24°15' N 151°15' W	10,000	10,000		390	85	54
FA0896	22 May	1830	60	24°15' N 151°15' W	26°00' N 148°50' W	10,000	10,000		392	8	5
FA0897	22 May	1930	60	26°00' N 148°50' W	27°45' N 145°00' W	10,000	10,000		392	16	10
FA0898	22 May	2030	60	27°45' N 145°00' W	29°20' N 141°30' W	10,000	10,000		390	102	65
FA0899	22 May	2130	60	29°20' N 141°30' W	31°30' N 137°00' W	10,000	10,000		390	82	52
FA0900	22 May	2230	60	31°30' N 137°00' W	33°00' N 133°50' W	10,000	10,000		390	44	28
FA0901	22 May	2330	60	33°00' N 133°50' W	34°50' N 129°30' W	10,000	10,000		390	221	141
FA0902	23 May	0030	60	34°50' N 129°30' W	37°00' N 125°00' W	10,000	10,000		390	40	25
FA0903	23 May	0130	55	37°00' N 125°00' W	36°16' N 121°36' W	10,000	10,000		390	76	53
FA0904	22 May	1630	60	21°25' N 157°15' W	23°00' N 154°30' W	11,000	11,000		390	70	45
FA0905	22 May	1730	60	23°00' N 154°30' W	24°50' N 150°45' W	11,000	11,000		390	83	54
FA0906	22 May	1830	60	24°50' N 150°45' W	26°32' N 147°00' W	11,000	11,000		390	7	5

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
FA0907	22 May	1930	60	25°32' N 147°00' W	28°30' N 143°05' W	11,000	11,000		390	4	3
FA0908	22 May	2030	60	28°30' N 143°05' W	30°00' N 140°00' W	11,000	11,000		390	7	5
FA0909	22 May	2100	60	21°10' N 158°15' W	22°55' N 154°42' W	1,000	21,000		390	18	12
FA0910	22 May	2100	60	21°10' N 158°15' W	22°55' N 154°42' W	1,000	21,000		390	36	23
FA0911	22 May	2130	60	30°00' N 140°00' W	32°00' N 135°50' W	11,000	11,000		390	51	33
FA0912	22 May	2200	60	22°55' N 154°42' W	24°40' N 150°38' W	21,000	21,000		390	88	71
FA0913	22 May	2200	60	22°55' N 154°42' W	24°40' N 150°38' W	21,000	21,000		390	63	50
FA0914	22 May	2300	60	24°40' N 150°38' W	26°27' N 146°08' W	21,000	21,000		390	280	224
FA0915	22 May	2300	60	24°40' N 150°38' W	26°27' N 146°08' W	21,000	21,000		390	54	43
FA0916	22 May	2230	60	32°00' N 133°00' W	34°40' N 132°50' W	11,000	11,000		390	11	7
FA0917	22 May	2330	60	34°40' N 132°50' W	35°40' N 128°10' W	11,000	11,000		390	29	19
FA0918	23 May	0000	60	26°27' N 146°08' W	29°08' N 141°18' W	21,000	21,000		390	82	50
FA0919	23 May	0000	60	26°27' N 146°08' W	29°08' N 141°18' W	21,000	21,000		390	89	71

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0920	23 May	0500	30	37°33' N 124°13' W	38°15' N 122°00' W	21,000	21,000		390	45	72
FA0921	23 May	0030	60	35°40' N 125°10' W	37°45' N 123°30' W	11,000	11,000		390	42	27
FA0922	23 May	0100	60	29°08' N 141°18' W	30°55' N 138°00' W	21,000	21,000		390	19	15
FA0923	23 May	0100	60	29°08' N 141°18' W	30°55' N 138°00' W	21,000	21,000		390	36	29
FA0924	23 May	0200	60	30°55' N 138°00' W	33°13' N 134°03' W	21,000	21,000		390	20	16
FA0925	23 May	0200	60	30°55' N 138°00' W	33°13' N 134°03' W	21,000	21,000		390	17	14
FA0926	23 May	0300	60	33°13' N 134°03' W	35°50' N 129°10' W	21,000	21,000		390	46	37
FA0927	23 May	0300	60	33°13' N 134°03' W	35°50' N 129°10' W	21,000	21,000		390	157	126
FA0928	23 May	0400	60	35°50' N 129°10' W	37°37' N 125°13' W	21,000	21,000		390	90	72
FA0929	23 May	0400	60	35°50' N 129°10' W	37°33' N 125°13' W	21,000	21,000		390	58	46
FA0930	23 May	0500	30	37°33' N 125°13' W	38°15' N 122°00' W	21,000	21,000		390	45	72
FA0932	23 May	0030	60	37°43' N 123°03' W	34°37' N 120°45' W	8,000	8,000		387	29	18
FA0933	23 May	0030	60	37°43' N 123°03' W	34°37' N 120°45' W	8,000	8,000		387	17	10

*Separate flight

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0934	23 May	0130	60	34°37' N 120°46' W	31°52' N 120°04' W	11,000	11,000		387	-1	0
FA0935	23 May	0130	60	34°37' N 120°46' W	31°52' N 120°04' W	11,000	11,000		387	33	21
FA0936	23 May	0230	60	31°52' N 120°04' W	28°29' N 120°14' W	11,000	11,000		387	26	17
FA0937	23 May	0230	60	31°52' N 120°04' W	28°29' N 120°14' W	11,000	11,000		387	70	45
FA0938	23 May	0330	60	28°29' N 120°14' W	25°18' N 119°38' W	11,000	11,000		384	58	38
FA0939	23 May	0330	60	28°29' N 120°14' W	25°18' N 119°38' W	11,000	11,000		384	50	32
FA0940	23 May	0430	60	25°18' N 119°38' W	22°13' N 118°35' W	11,000	11,000		387	252	163
FA0941	23 May	0430	60	25°18' N 119°38' W	22°13' N 118°35' W	11,000	11,000		387	270	175
FA0942	23 May	0530	60	22°13' N 118°35' W	20°00' N 120°00' W	11,000	11,000		387	347	225
FA0943	23 May	0530	60	22°13' N 118°35' W	20°00' N 120°00' W	11,000	11,000		387	299	194
FA0944	23 May	0630	33	20°00' N 120°00' W	19°56' N 121°58' W	11,000	21,000		387	255	301
FA0945	23 May	0630	33	20°00' N 120°00' W	19°56' N 121°58' W	11,000	21,000		387	280	330
FA0946	23 May	0703	60	19°56' N 121°58' W	22°59' N 122°17' W	21,000	21,000		387	174	139

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0947	23 May	0703	60	19°56' N 121°58' W	22°59' N 122°17' W	21,000	21,000		387	201	161
FA0948	23 May	0803	60	22°59' N 122°17' W	26°58' N 122°13' W	21,000	21,000		387	169	135
FA0949	23 May	0803	60	22°59' N 122°17' W	26°58' N 122°13' W	21,000	21,000		387	131	105
FA0950	23 May	0903	5	26°58' N 122°13' W	27°17' N 122°13' W	21,000	21,000		387	20	192
FA0951	23 May	0908	10	27°17' N 122°13' W	27°56' N 122°13' W	21,000	21,000		387	36	173
FA0952	23 May	0918	20	27°56' N 122°13' W	29°00' N 121°04' W	21,000	21,000		387	45	108
FA0953	23 May	0938	25	29°00' N 121°04' W	30°24' N 121°37' W	21,000	21,000		387	41	79
FA0954	23 May	0903	60	26°58' N 122°13' W	30°24' N 121°37' W	21,000	21,000		387	72	58
FA0955	23 May	1003	65	30°24' N 121°37' W	35°02' N 121°33' W	21,000	21,000		387	28	21
FA0956	23 May	1003	65	30°24' N 121°37' W	35°02' N 121°33' W	21,000	21,000		387	66	49
FA0957	23 May	1108	60	35°02' N 121°33' W	37°43' N 123°00' W	21,000	5,000		387	140	94
FA0965	23 May	1700	900	21°20' N 158°00' W	38°00' N 122°00' W	4,300	11,000	Follows same course and altitudes as FP's #966 through 980.	375	1,126	45
FA0966	23 May	1700	60	21°20' N 158°00' W	20°40' N 155°10' W	4,300	4,300		375	17	10

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0967	23 May	1800	60	20°40' N 155°10' W	19°58' N 151°58' W	4,500	4,500		375	32	18
FA0968	23 May	1900	60	19°58' N 151°58' W	20°03' N 148°45' W	4,500	4,500		375	44	25
FA0969	23 May	2000	60	20°03' N 148°45' W	20°10' N 145°50' W	4,000	4,000		375	21	12
FA0970	23 May	2100	60	20°10' N 145°50' W	20°10' N 142°00' W	4,000	4,000		375	21	12
FA0971	23 May	2200	60	20°10' N 142°00' W	20°35' N 138°40' W	4,000	4,000		375	40	23
FA0972	23 May	2300	60	20°35' N 138°40' W	20°50' N 135°00' W	4,200	11,000	Climb on course to 20°48' N, 133°24' W	375	17	10
FA0973	23 May	2400	60	20°50' N 135°00' W	20°58' N 131°50' W	11,000	11,000		375	28	18
FA0974	24 May	0100	60	20°58' N 131°50' W	21°08' N 128°45' W	11,000	11,000		375	142	92
FA0975	24 May	0200	60	21°08' N 128°45' W	21°13' N 125°00' W	11,000	11,000		375	329	213
FA0976	24 May	0300	60	21°13' N 125°00' W	22°00' N 121°55' W	11,000	11,000		375	333	216
FA0977	24 May	0400	60	22°00' N 121°55' W	26°00' N 121°30' W	11,000	11,000		375	325	211
FA0978	24 May	0500	60	26°00' N 121°30' W	29°15' N 121°45' W	11,000	11,000		375	166	108
FA0979	24 May	0600	60	29°15' N 121°45' W	33°50' N 120°00' W	11,000	11,000		375	72	47

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA0980	24 May	0700	60	33°50' N 120°00' W	38°00' N 122°00' W	11,000	11,000		375	64	42
FA0983	24 May	1315	20	38°05' N 121°17' W	38°19' N 121°55' W	10,000	1,000		375	75	131
FA0984	24 May	1220	55	35°04' N 121°28' W	38°05' N 121°17' W	22,000	10,000		375	94	73
FA0985	24 May	1000	140	27°24' N 114°20' W	35°04' N 121°28' W	22,000	22,000		375	364	127
FA0986	24 May	0800	120	21°50' N 111°47' W	27°24' N 114°20' W	22,000	22,000		375	430	176
FA0987	24 May	0600	120	16°00' N 107°53' W	21°50' N 111°47' W	22,000	22,000		375	442	181
FA0988	24 May	0520	40	16°08' N 107°56' W	16°00' N 107°53' W	5,000	22,000	Spiral climb	384	137	140
FA0989	24 May	0320	120	21°39' N 111°05' W	16°08' N 107°56' W	5,000	5,000		375	214	62
FA0990	24 May	0120	120	26°47' N 115°09' W	21°39' N 111°05' W	5,000	5,000		375	67	19
FA0991	23 May	2320	120	32°17' N 119°08' W	26°47' N 115°09' W	5,000	5,000		375	115	33
FA0992	23 May	2120	120	37°42' N 123°00' W	32°17' N 119°08' W	5,000	5,000		375	18	5
FA0993	23 May	2100	20	38°06' N 122°02' W	37°42' N 123°00' W	5,000	5,000		375	10	17
FA1001	25 May	1044	46	33°55' N 130°47' W	36°01' N 122°02' W	11,000	11,000		411	5	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1002	25 May	0944	60	30°50' N 119°00' W	33°55' N 120°47' W	11,000	11,000		411	22	14
FA1003	25 May	0445	80	24°18' N 118°53' W	20°45' N 119°00' W	1,000	1,000		411	22	9
FA1004	25 May	0050	235	37°42' N 123°00' W	24°18' N 118°53' W	1,000	1,000		411	-15	0
FA1005	25 May	0505	60	24°01' N 118°55' W	20°45' N 119°00' W	1,000	1,000		411	- 5	0
FA1006	25 May	0605	15	20°45' N 119°00' W	20°05' N 119°00' W	1,000	1,000		411	-15	0
FA1007	25 May	0620	24	20°05' N 119°00' W	21°00' N 119°00' W	1,000	11,000		411	53	8
FA1008	25 May	0844	60	21°00' N 119°00' W	25°02' N 119°00' W	11,000	11,000		411	336	218
FA1009	25 May	0744	60	25°02' N 119°00' W	27°50' N 119°00' W	11,000	11,000		411	165	107
FA1011	25 May	0050	75	37°42' N 123°00' W	33°45' N 120°40' W	1,000	1,000		411	-22	0
FA1012	25 May	0205	60	33°45' N 120°40' W	30°28' N 119°18' W	1,000	1,000		411	-36	0
FA1013	25 May	0305	60	30°28' N 119°18' W	27°39' N 118°42' W	1,000	1,000		411	-28	0
FA1014	25 May	0405	60	27°39' N 118°42' W	24°01' N 118°55' W	1,000	1,000		411	- 9	0
FA1015	25 May	0844	60	27°50' N 119°00' W	30°50' N 119°05' W	11,000	11,000		411	111	72

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1016	25 May	0644	240	21°00' N 119°05' W	33°55' N 120°47' W	11,000	11,000		411	1,011	164
FA1017	25 May	1044	46	33°55' N 120°47' W	36°10' N 122°02' W	11,000	11,000		411	-10	0
FA1019	25 May	0035	60	37°40' N 123°00' W	34°54' N 120°55' W	5,000	5,000		411	-29	0
FA1020	25 May	0135	60	34°54' N 120°55' W	32°02' N 118°35' W	5,000	5,000		411	- 5	0
FA1021	25 May	0235	60	32°02' N 118°35' W	29°12' N 116°48' W	5,000	5,000		411	11	6
FA1022	25 May	0335	60	29°12' N 116°48' W	26°30' N 115°00' W	5,000	5,000		411	160	93
FA1023	25 May	0435	60	26°30' N 115°00' W	23°45' N 113°10' W	5,000	5,000		411	292	169
FA1024	25 May	0535	60	23°45' N 113°10' W	21°10' N 111°20' W	5,000	5,000		411	109	63
FA1025	25 May	0635	60	21°10' N 111°20' W	18°20' N 109°40' W	5,000	5,000		411	111	64
FA1026	25 May	0735	60	18°20' N 109°40' W	16°30' N 108°25' W	5,000	5,000		411	27	16
FA1027	25 May	0835	20	16°30' N 108°25' W	15°35' N 107°50' W	5,000	21,000		411	69	140
FA1028	25 May	0855	60	15°35' N 107°50' W	18°30' N 109°40' W	21,000	21,000		411	11	9
FA1029	25 May	0955	60	18°30' N 109°40' W	20°55' N 111°10' W	21,000	21,000		411	59	47

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1030	25 May	1055	60	20°55' N 111°10' W	24°30' N 112°00' W	21,000	21,000		411	39	31
FA1031	25 May	1155	60	24°30' N 112°00' W	26°40' N 113°56' W	21,000	21,000		411	50	40
FA1032	25 May	1255	60	26°40' N 113°56' W	28°50' N 116°02' W	21,000	21,000		411	-16	0
FA1033	25 May	1355	60	28°50' N 116°02' W	31°10' N 118°20' W	21,000	21,000		411	-18	0
FA1034	25 May	1455	60	31°10' N 118°20' W	33°50' N 120°00' W	21,000	21,000		411	-10	0
FA1035	25 May	1555	85	33°50' N 120°00' W	37°25' N 123°00' W	21,000	21,000		411	8	5
FA1036	25 May	0035	240	37°40' N 123°00' W	26°30' N 115°00' W	5,000	5,000		411	227	33
FA1037	25 May	0435	235	26°30' N 115°00' W	16°25' N 108°30' W	5,000	5,000		411	692	102
FA1038	25 May	0830	265	16°25' N 108°30' W	26°40' N 113°56' W	5,000	21,000	Climb on course from 16°30' N, 108°25' W	411	273	42
FA1039	25 May	1255	255	26°40' N 113°56' W	37°25' N 123°00' W	21,000	21,000		411	64	12
FA1055	27 May	0255	60	37°43' N 123°00' W	34°52' N 120°55' W	5,000	5,000		378	13	8
FA1056	27 May	0355	60	34°52' N 120°55' W	32°00' N 118°47' W	5,000	5,000		378	- 1	0
FA1057	27 May	0455	60	32°00' N 118°47' W	29°10' N 115°56' W	5,000	5,000		378	40	23

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1058	27 May	0555	60	29°10' N 115°56' W	25°46' N 113°30' W	5,000	5,000		378	38	22
FA1059	27 May	0255	240	37°43' N 123°00' W	25°45' N 113°30' W	5,000	5,000		378	91	13
FA1060	27 May	0655	60	25°45' N 113°30' W	23°02' N 111°53' W	5,000	5,000		378	62	36
FA1061	27 May	0655	97	25°45' N 112°30' W	21°00' N 110°55' W	5,000	5,000		378	77	28
FA1062	27 May	0832	10	21°00' N 110°55' W	21°35' N 110°50' W	5,000	5,000		378	11	38
FA1063	27 May	0755	60	23°02' N 111°53' W	22°15' N 111°08' W	5,000	8,000	Climb on course from 21°35' N, 110°55' W to 22°06' N, 112°00' W	378	67	40
FA1064	27 May	0842	55	21°35' N 110°55' W	24°12' N 112°35' W	5,000	8,000	Climb on course to 22°06' N, 112°00' W	378	37	24
FA1065	27 May	0855	60	22°15' N 111°08' W	24°51' N 113°09' W	8,000	8,000		378	33	20
FA1066	27 May	0955	60	24°51' N 113°05' W	27°50' N 115°00' W	8,000	11,000		378	14	9
FA1067	27 May	0937	78	24°12' N 112°35' W	27°50' N 115°00' W	8,000	11,000		378	22	11
FA1068	27 May	1055	13	27°50' N 115°00' W	28°18' N 115°24' W	11,000	11,000		378	10	30
FA1069	27 May	1055	60	27°50' N 115°00' W	30°10' N 117°25' W	11,000	11,000		378	59	38
FA1070	27 May	1155	60	30°10' N 117°25' W	33°10' N 119°49' W	11,000	11,000		378	36	23

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1071	27 May	1255	60	33°10' N 119°45' W	36°12' N 121°10' W	11,000	11,000		378	24	16
FA1072	27 May	1355	25	36°12' N 121°10' W	37°43' N 123°00' W	11,000	11,000		378	15	23
FA1073	27 May	1108	192	28°18' N 115°24' W	37°43' N 123°00' W	11,000	11,000		378	122	25
FA1088	28 May	1715	60	07°10' N 81°30' W	07°57' N 83°10' W	11,000	11,000		386	3	2
FA1089	28 May	1815	60	07°57' N 83°10' W	09°15' N 86°15' W	11,000	11,000		386	3	2
FA1090	28 May	1915	60	09°15' N 86°15' W	09°54' N 89°45' W	11,000	11,000		386	- 5	0
FA1091	28 May	2015	60	09°54' N 89°45' W	10°48' N 92°40' W	11,000	11,000		386	40	26
FA1092	28 May	2115	60	10°48' N 92°40' W	11°40' N 95°51' W	11,000	11,000		386	10	6
FA1093	28 May	2215	60	11°40' N 95°51' W	12°30' N 98°42' W	11,000	11,000		386	0	0
FA1094	28 May	2315	60	12°30' N 98°42' W	13°15' N 101°10' W	11,000	11,000		388	11	7
FA1095	29 May	0015	60	13°15' N 101°10' W	14°33' N 105°50' W	11,000	11,000		388	215	139
FA1096	29 May	0115	60	14°33' N 105°50' W	16°25' N 108°25' W	11,000	11,000		388	221	143
FA1097	29 May	0215	60	16°25' N 108°25' W	19°05' N 109°50' W	11,000	11,000		388	48	31

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1098	29 May	0315	60	19°05' N 109°50' W	21°50' N 111°35' W	11,000	11,000		388	- 3	0
FA1099	29 May	0415	60	21°50' N 111°35' W	24°48' N 112°49' W	11,000	11,000		388	14	9
FA1100	29 May	0515	60	24°48' N 112°49' W	27°05' N 114°57' W	11,000	11,000		386	12	8
FA1101	29 May	0615	60	27°05' N 114°57' W	29°55' N 117°00' W	11,000	11,000		386	- 2	0
FA1102	29 May	0715	60	29°55' N 117°00' W	32°28' N 119°11' W	11,000	11,000		386	14	9
FA1103	29 May	0815	60	32°28' N 119°11' W	35°03' N 120°55' W	11,000	11,000		386	- 8	0
FA1104	29 May	0915	60	35°03' N 120°55' W	37°43' N 123°00' W	11,000	11,000		386	27	18
FA1105	28 May	1715	240	07°10' N 81°30' W	10°48' N 92°40' W	11,000	11,000		388	- 6	0
FA1106	28 May	2115	240	10°48' N 92°40' W	14°33' N 105°50' W	11,000	11,000		388	159	26
FA1107	29 May	0115	240	14°33' N 105°50' W	24°48' N 112°49' W	11,000	11,000		388	373	61
FA1108	29 May	0515	240	24°48' N 112°49' W	35°05' N 120°55' W	11,000	11,000		388	26	4
FA1109	29 May	0915	60	35°05' N 120°55' W	37°43' N 123°00' W	11,000	11,000		388	19	12
FA1111	28 May	2018	60	35°14' N 121°10' W	32°21' N 118°53' W	5,000	5,000		388	- 3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1112	28 May	1918	240	37°43' N 123°00' W	26°28' N 114°50' W	5,000	5,000		388	64	9
FA1113	28 May	2318	240	26°28' N 114°50' W	15°32' N 108°14' W	5,000	5,000		388	117	17
FA1114	29 May	0318	240	15°32' N 108°14' W	25°29' N 113°05' W	5,000	21,000	Climbed between 15°32' N, 14°00'W and 16°12' N, 109°29' W	388	17	3
FA1115	28 May	1918	60	37°42' N 123°00' W	35°14' N 121°10' W	5,000	5,000		386	26	15
FA1116	28 May	2118	60	32°21' N 118°53' W	29°30' N 117°00' W	5,000	5,000		388	- 8	0
FA1117	28 May	2218	60	29°30' N 117°00' W	26°28' N 114°50' W	5,000	5,000		388	1	1
FA1118	28 May	2318	60	26°28' N 114°50' W	24°32' N 113°21' W	5,000	5,000		388	0	0
FA1119	29 May	0018	60	24°32' N 113°21' W	21°10' N 110°10' W	5,000	5,000		386	45	26
FA1120	29 May	0118	60	21°10' N 110°10' W	19°11' N 109°53' W	5,000	5,000		388	93	54
FA1121	29 May	0218	60	19°11' N 109°53' W	15°32' N 108°14' W	5,000	5,000		388	11	6
FA1122	29 May	0318	60	15°32' N 108°14' W	16°12' N 109°29' W	5,000	21,000		386	41	28
FA1123	29 May	0418	60	16°12' N 109°29' W	19°59' N 111°25' W	21,000	21,000		386	17	14
FA1124	29 May	0518	60	19°59' N 111°25' W	22°22' N 111°33' W	21,000	21,000		388	27	22

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1125	29 May	0618	60	22°22' N 111°33' W	25°29' N 113°05' W	21,000	21,000		386	23	18
FA1126	29 May	0718	60	25°29' N 113°05' W	28°22' N 115°30' W	21,000	21,000		388	27	22
FA1127	29 May	0718	240	25°29' N 113°05' W	37°42' N 123°00' W	21,000	21,000		386	27	5
FA1128	29 May	0818	60	28°22' N 115°30' W	30°55' N 117°50' W	21,000	21,000		388	23	18
FA1129	29 May	0918	60	30°55' N 117°50' W	34°27' N 120°15' W	21,000	21,000		386	-10	0
FA1130	29 May	1018	60	34°27' N 120°15' W	37°42' N 123°00' W	21,000	21,000		388	85	68
FA1132	28 May	1715	240	07°30' N 79°40' W	10°00' N 90°00' W	3,000	3,000		388	38	5
FA1133	28 May	2115	240	10°00' N 90°00' W	13°00' N 101°00' W	3,000	3,000		388	112	16
FA1134	29 May	0115	240	13°00' N 101°00' W	19°30' N 110°30' W	3,000	3,000		388	329	46
FA1135	29 May	0515	240	19°30' N 110°30' W	29°30' N 117°30' W	3,000	3,000		388	35	5
FA1136	29 May	0915	215	29°30' N 117°30' W	37°40' N 123°00' W	3,000	3,000		388	50	8
FA1137	28 May	1715	60	08°30' N 79°40' W	07°30' N 81°10' W	3,000	3,000		386	22	12
FA1138	28 May	1815	60	07°30' N 81°10' W	08°40' N 84°20' W	3,000	3,000		386	18	10

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FA1140	28 May	1915	60	08°40' N 84°20' W	09°00' N 87°00' W	3,000	3,000		388	21	12
FA1141	28 May	2015	60	09°00' N 87°00' W	10°00' N 90°00' W	3,000	3,000		386	25	14
FA1142	28 May	2115	60	10°00' N 90°00' W	11°00' N 92°30' W	3,000	3,000		386	104	58
FA1143	28 May	2215	60	11°00' N 92°30' W	12°00' N 96°00' W	3,000	3,000		386	26	14
FA1144	28 May	2315	60	12°00' N 96°00' W	12°30' N 98°30' W	3,000	3,000		386	64	36
FA1145	29 May	0015	60	12°30' N 98°30' W	13°00' N 101°00' W	3,000	3,000		386	75	42
FA1146	29 May	0115	60	13°00' N 101°00' W	14°00' N 104°00' W	3,000	3,000		386	58	32
FA1147	29 May	0215	60	14°00' N 104°00' W	15°00' N 107°00' W	3,000	3,000		388	69	38
FA1148	29 May	0315	60	15°00' N 107°00' W	18°00' N 109°00' W	3,000	3,000		386	183	102
FA1149	29 May	0415	60	18°00' N 109°00' W	19°30' N 110°30' W	3,000	3,000		386	64	36
FA1150	29 May	0515	60	19°30' N 110°30' W	22°00' N 112°00' W	3,000	3,000		386	-10	0
FA1151	29 May	0615	60	22°00' N 112°00' W	24°00' N 113°30' W	3,000	3,000		388	39	22
FA1152	29 May	0715	60	24°00' N 113°30' W	27°00' N 115°30' W	3,000	3,000		386	5	3

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
FA1153	29 May	0815	60	27°00' N 115°30' W	29°30' N 117°30' W	3,000	3,000		388	12	7
FA1154	29 May	0915	60	29°30' N 117°30' W	31°50' N 118°50' W	3,000	3,000		388	18	10
FA1155	29 May	1015	60	31°50' N 118°50' W	34°00' N 120°15' W	3,000	3,000		388	19	11
FA1156	29 May	1115	60	34°00' N 120°15' W	36°20' N 122°00' W	3,000	3,000		386	21	12
FA1157	29 May	1215	55	36°20' N 122°00' W	37°40' N 123°00' W	3,000	3,000		388	-13	0
FA1164	29 May	2050	120	21°13' N 157°20' W	25°45' N 153°30' W	1,500	1,500		384	120	33
FA1165	29 May	2250	120	25°45' N 153°30' W	30°45' N 150°38' W	1,500	1,500		384	16	4
FA1166	30 May	0050	120	30°45' N 150°38' W	36°25' N 146°57' W	1,500	1,500		384	8	2
FA1167	30 May	0250	120	36°25' N 146°57' W	37°40' N 138°52' W	1,500	10,000		384	26	8
FA1168	30 May	0450	120	37°40' N 138°52' W	37°50' N 129°20' W	10,000	10,000		384	26	8
FA1169	30 May	0650	110	37°50' N 129°20' W	37°40' N 123°00' W	10,000	10,000		384	44	15
* FA1179	30 May	1943	240	37°41' N 123°03' W	27°00' N 115°20' W	3,000	3,000		Missing	6	1
* FA1180	30 May	2343	240	27°00' N 115°20' W	16°50' N 108°40' W	3,000	3,000		Missing	200	28

* Data extracted from Radio Message Forms

	FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
		DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
*	FA1181	31 May	0343	240	16°50' N 108°40' W	24°25' N 113°35' W	3,000	10,000	Via 15°00' N, 107°30' W	Missing	110	16
*	FA1182	31 May	0743	240	24°25' N 113°35' W	36°30' N 122°06' W	11,000	11,000		Missing	69	11
*	FA1183	30 May	1943	60	37°41' N 123°00' W	34°55' N 121°18' W	3,000	3,000		Missing	0	0
*	FA1184	30 May	2043	60	34°55' N 121°18' W	32°22' N 119°03' W	3,000	3,000		Missing	0	0
*	FA1185	30 May	2143	60	32°22' N 119°03' W	29°50' N 117°20' W	3,000	3,000		Missing	0	0
*	FA1186	30 May	2243	60	29°50' N 117°20' W	27°00' N 115°20' W	3,000	3,000		Missing	3	2
*	FA1187	30 May	2343	60	27°00' N 115°20' W	24°15' N 113°30' W	3,000	3,000		Missing	110	61
*	FA1188	31 May	0043	60	24°15' N 113°30' W	21°40' N 111°45' W	3,000	3,000		Missing	36	20
*	FA1189	31 May	0143	60	21°40' N 111°45' W	19°25' N 110°20' W	3,000	3,000		Missing	68	38
*	FA1190	31 May	0243	60	19°25' N 110°20' W	16°50' N 108°40' W	3,000	3,000		Missing	23	13
*	FA1191	31 May	0343	34	16°50' N 108°40' W	15°20' N 107°40' W	3,000	3,000		Missing	10	10
*	FA1192	31 May	0417	26	15°20' N 107°40' W	15°20' N 107°40' W	3,000	10,000	Via 15°12' N, 106°30' W	Missing	40	55
*	FA1193	31 May	0443	60	15°20' N 107°40' W	18°40' N 109°50' W	11,000	11,000		Missing	40	26

* Data extracted from Radio Message Forms

	FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
		DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
*	FA1194	31 May	0543	60	18°40' N 109°50' W	21°30' N 111°45' W	11,000	11,000		Missing	61	40
*	FA1195	31 May	0643	60	21°30' N 111°45' W	24°25' N 113°35' W	11,000	11,000		Missing	37	24
*	FA1196	31 May	0743	60	24°25' N 113°35' W	27°20' N 115°48' W	11,000	11,000		Missing	12	8
*	FA1197	31 May	0843	60	27°20' N 115°48' W	31°00' N 117°40' W	11,000	11,000		Missing	0	0
*	FA1198	31 May	0943	60	31°00' N 117°40' W	33°45' N 120°08' W	11,000	11,000		Missing	4	3
*	FA1199	31 May	1043	60	33°45' N 120°08' W	36°30' N 122°05' W	11,000	11,000		Missing	15	10
*	FA1200	31 May	1143	37	36°30' N 122°05' W	37°50' N 122°40' W	11,000	5,000	Descent on course	Missing	0	0
	FA1207	31 May	2045	60	37°42' N 123°00' W	34°35' N 120°41' W	1,000	1,000		378	- 3	0
	FA1208	31 May	2145	65	34°35' N 120°41' W	30°56' N 118°00' W	1,000	1,000		385	- 2	0
	FA1209	31 May	2250	60	30°56' N 118°00' W	28°30' N 116°05' W	1,000	1,000		378	29	16
	FA1210	31 May	2350	60	28°30' N 116°05' W	25°29' N 113°49' W	1,000	1,000		385	2	1
	FA1211	1 Jun	0050	60	25°29' N 113°49' W	25°31' N 113°22' W	1,000	1,000	Via 24°00' N, 112°50' W	378	8	4
	FA1212	1 Jun	0150	60	25°31' N 113°22' W	28°07' N 115°14' W	1,000	5,000	Climb on course	385	26	14

* Data extracted from RadioMessage Forms

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
FA1213	1 Jun	0250	60	28°07' N 115°14' W	30°46' N 118°00' W	5,000	5,000		378	7	4
FA1214	1 Jun	0350	60	30°46' N 118°00' W	33°55' N 119°37' W	5,000	5,000		385	1	1
FA1215	1 Jun	0450	84	33°55' N 119°37' W	37°25' N 122°50' W	5,000	5,000		378	393	162
FA1216	31 May	2045	245	37°42' N 123°00' W	25°29' N 113°49' W	1,000	1,000		385	0	0
FA1217	1 Jun	0050	30	25°29' N 113°49' W	24°00' N 112°50' W	1,000	1,000		378	4	4
FA1218	1 Jun	0120	60	24°00' N 112°50' W	26°48' N 114°23' W	1,000	1,000		385	-11	0
FA1219	1 Jun	0220	10	26°48' N 114°23' W	27°08' N 114°30' W	1,000	5,000		378	15	50
FA1220	1 Jun	0230	225	27°08' N 114°30' W	32°35' N 122°50' W	5,000	5,000		385	394	61

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB—X	18 Apr	0100	240	83°51' N 161°55' W	70°42' N 154°12' W	5,000	10,000		369	9	1
FB—Y	18 Apr	0100	240	83°51' N 161°55' W	70°42' N 154°12' W	5,000	10,000		383	15	2
FB0001	18 Apr	0830	270	37°40' N 123°00' W	46°30' N 136°15' W	1,000	Unknown	No climb data recorded	374	10	1
FB0002	18 Apr	0830	270	37°40' N 123°00' W	46°30' N 136°15' W	1,000	Unknown	No climb data recorded	367	1	0
FB0003	18 Apr	1300	235	46°30' N 136°15' W	54°50' N 148°30' W	Unknown	10,000	No climb data recorded	367	1	0
FB0004	18 Apr	1300	235	46°30' N 136°15' W	54°50' N 148°30' W	Unknown	10,000	No climb data recorded	374	10	2
FB0005	18 Apr	1655	205	54°50' N 148°30' W	64°55' N 147°50' W	10,000	10,000		367	- 2	0
FB0006	18 Apr	1655	205	54°50' N 148°30' W	64°55' N 147°50' W	10,000	10,000		374	11	2
FB0007	20 Apr	1414	109	64°50' N 147°36' W	68°13' N 135°01' W	12,000	Unknown	No descent data recorded	382	1	0
FB0008	20 Apr	1414	109	64°50' N 147°36' W	68°13' N 135°01' W	12,000	Unknown	No descent data recorded	373	- 6	0
FB0009	20 Apr	1603	242	68°13' N 135°01' W	82°40' N 121°20' W	Unknown	10,000	No descent data recorded	373	2	0
FB0010	20 Apr	1603	242	68°13' N 135°01' W	82°40' N 121°20' W	Unknown	10,000	No descent data recorded	382	10	2
FB0011	20 Apr	2005	135	82°40' N 121°20' W	90°00' N North Pole	10,000	10,000		373	1	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0012	20 Apr	2005	135	82°40' N 121°20' W	90°00' N North Pole	10,000	10,000		382	- 3	0
FB0013	22 Apr	2220	235	90°00' N North Pole	76°20' N 159°00' W	10,000	10,000		373	12	2
FB0014	22 Apr	2220	235	90°00' N North Pole	76°20' N 159°00' W	10,000	10,000		382	7	1
FB0015	21 Apr	0215	195	76°20' N 159°00' W	64°50' N 147°45' W	10,000	10,000		373	41	6
FB0016	21 Apr	0215	195	76°20' N 159°00' W	64°50' N 147°45' W	10,000	10,000		382	47	9
FB0017	23 Apr	0935	180	37°43' N 122°50' W	41°30' N 128°10' W	20,000	20,000		378	0	0
FB0018	23 Apr	0935	180	37°43' N 122°50' W	41°30' N 128°10' W	20,000	20,000		386	12	3
FB0019	23 Apr	1235	180	41°30' N 128°10' W	47°10' N 137°15' W	20,000	20,000		378	0	0
FB0020	23 Apr	1235	180	41°30' N 128°10' W	47°10' N 137°15' W	20,000	20,000		386	- 3	0
FB0021	23 Apr	1535	180	47°10' N 137°15' W	55°15' N 148°21' W	20,000	20,000		378	2	1
FB0022	23 Apr	1535	180	47°10' N 137°15' W	55°15' N 148°21' W	20,000	20,000		386	5	1
FB0023	23 Apr	1835	180	55°15' N 148°21' W	60°30' N 151°00' W	20,000	20,000		378	21	6
FB0024	23 Apr	1835	180	55°15' N 148°21' W	60°30' N 151°00' W	20,000	20,000		386	17	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0025	26 Apr	1332	100	64°50' N 147°45' W	68°15' N 135°05' W	10,000	10,000		361	7	3
FB0026	26 Apr	1332	100	64°50' N 147°45' W	68°15' N 135°05' W	10,000	10,000		382	0	0
FB0027	26 Apr	2140	123	69°40' N 137°15' W	64°50' N 147°45' W	10,000	10,000		361	123	38
FB0028	26 Apr	2140	123	69°40' N 137°15' W	64°50' N 147°45' W	10,000	10,000		382	73	23
FB0029	26 Apr	1512	203	68°15' N 135°05' W	76°12' N 121°30' W	10,000	10,000		361	7	1
FB0030	26 Apr	1512	203	68°15' N 135°05' W	76°12' N 121°30' W	10,000	10,000		382	- 4	0
FB0031	26 Apr	1835	185	76°12' N 121°30' W	69°40' N 137°20' W	10,000	10,000		361	- 2	0
FB0032	26 Apr	1835	185	76°12' N 121°30' W	69°40' N 137°20' W	10,000	10,000		382	1	0
FB0033	28 Apr	1453	108	64°51' N 147°38' W	68°13' N 135°02' W	10,000	10,000		360	9	3
FB0034	28 Apr	1453	108	64°51' N 147°38' W	68°13' N 135°02' W	10,000	10,000		371	10	4
FB0035	28 Apr	1641	240	68°13' N 135°02' W	80°10' N 120°55' W	10,000	10,000		360	12	2
FB0036	28 Apr	1641	240	68°13' N 135°02' W	80°10' N 120°55' W	10,000	10,000		371	15	2
FB0037	28 Apr	2041	250	80°10' N 120°55' W	64°47' N 132°03' W	10,000	Unknown	No climb data recorded	360	11	2

250

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0038	28 Apr	2041	250	80°10' N 120°55' W	64°47' N 132°03' W	10,000	Unknown	No climb data recorded	371	23	4
FB0039	29 Apr	0051	90	64°47' N 132°03' W	64°57' N 147°20' W	Unknown	11,000	No climb data recorded	360	25	11
FB0040	29 Apr	0051	90	64°47' N 132°03' W	64°57' N 147°20' W	Unknown	11,000	No climb data recorded	371	35	15
FB0041	30 Apr	1455	110	64°50' N 147°41' W	68°17' N 134°45' W	10,000	10,000		372	- 4	0
FB0042	30 Apr	1455	110	64°50' N 147°41' W	68°17' N 134°45' W	10,000	10,000		380	5	2
FB0043	30 Apr	1645	240	68°17' N 134°44' W	81°25' N 120°36' W	10,000	10,000		372	0	0
FB0044	30 Apr	1645	865	68°17' N 134°44' W	65°40' N 146°35' W	10,000	10,000		380	10	0
FB0045	30 Apr	2045	140	81°25' N 120°36' W	90°00' N North Pole	10,000	10,000		372	- 7	0
FB0046	30 Apr	2305	240	90°00' N North Pole	75°30' N 157°42' W	10,000	10,000		380	10	2
FB0047	1 May	0305	245	75°30' N 157°42' W	65°40' N 146°35' W	10,000	10,000		372	128	20
FB0048	3 May	0100	240	52°48' N 174°40' E	58°30' N 166°15' W	4,000	10,000	Climb on course, leveling off at 53°13' N, 175°32' E.	358	29	4
FB0049	3 May	0500	195	58°30' N 166°15' W	64°49' N 147°35' W	10,000	2,000	Started let down at 64°27' N, 149°20' W.	369	9	2
FB0050	6 May	1753	67	21°10' N 157°50' W	25°08' N 157°08' W	3,000	11,000	Spiral climb at 23°42' N, 157°43' W.	378	137	74

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0051	6 May	1900	60	25°08' N 157°08' W	28°20' N 156°40' W	11,000	16,000	Climbed slowly on course	378	- 5	0
FB0052	6 May	2000	60	28°20' N 156°40' W	31°49' N 155°37' W	16,000	21,000	Climb to 30°42' N, 156°00' W	378	1,310	992
FB0053	6 May	2100	60	31°49' N 155°37' W	35°09' N 155°53' W	21,000	21,000		378	140	753
FB0054	6 May	2200	60	35°09' N 155°53' W	40°54' N 155°20' W	21,000	21,000		380	415	333
FB0055	6 May	2300	60	40°54' N 155°20' W	45°37' N 153°30' W	21,000	21,000		380	433	347
FB0056	7 May	0000	60	45°37' N 153°30' W	49°54' N 152°33' W	21,000	30,000	Started climb at 47°30'N, 152°55'W	380	54	48
FB0057	7 May	0100	60	49°54' N 152°33' W	54°40' N 149°15' W	30,000	30,000		380	134	132
FB0058	7 May	0200	60	54°40' N 149°15' W	57°10' N 147°00' W	30,000	30,000		380	78	77
FB0059	7 May	0300	60	57°10' N 147°00' W	61°13' N 149°55' W	30,000	30,000		380	119	117
FB0060	7 May	0400	50	61°13' N 149°55' W	64°50' N 147°36' W	30,000	1,500	Started let down at 62°39' N, 149°40' W.	380	304	261
FB0061	12 May	1900	128	38°14' N 121°58' W	44°14' N 125°35' W	1,000	20,500		360	14	4
FB0062	12 May	2108	113	44°14' N 125°35' W	50°18' N 133°42' W	20,600	20,600		360	9	4
FB0063	12 May	2301	119	50°18' N 133°42' W	56°24' N 141°24' W	20,500	20,500		371	23	9

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0064	13 May	0100	149	56°24' N 141°24' W	64°50' N 147°35' W	20,000	20,000		371	66	21
FB0065	18 May	1742	48	21°30' N 157°45' W	23°07' N 157°35' W	1,000	1,000		360	32	22
FB0066	18 May	1830	60	23°07' N 157°35' W	25°55' N 157°10' W	1,000	1,000		375	0	0
FB0067	18 May	1930	60	25°55' N 157°10' W	28°38' N 156°46' W	1,000	1,000		360	5	3
FB0068	18 May	2030	60	28°38' N 156°46' W	31°28' N 155°55' W	1,000	1,000		375	9	5
FB0069	18 May	2130	60	31°28' N 155°55' W	34°37' N 155°45' W	1,000	1,000		360	11	6
FB0070	18 May	2230	60	34°37' N 155°45' W	37°45' N 155°28' W	1,000	1,000		375	7	4
FB0071	18 May	2330	60	37°45' N 155°28' W	40°55' N 154°31' W	1,000	1,000		360	18	10
FB0072	19 May	0030	60	40°55' N 154°31' W	43°50' N 153°37' W	1,000	1,000		375	22	12
FB0073	19 May	0130	60	43°50' N 153°37' W	46°50' N 153°05' W	1,000	1,000		360	23	12
FB0074	19 May	0230	60	46°50' N 153°05' W	49°40' N 151°10' W	1,000	2,100	Climb on course	375	12	8
FB0075	19 May	0330	60	49°40' N 151°10' W	52°40' N 150°45' W	2,100	3,500	Climb on course	360	15	8
FB0076	19 May	0430	60	52°40' N 150°45' W	56°55' N 150°05' W	3,500	10,000	Climb on course	375	4	2

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0077	19 May	0530	60	56°55' N 150°05' W	61°00' N 150°10' W	10,000	11,500	Start climb at 59°23' N, 150°18' W.	360	19	12
FB0078	19 May	0630	75	61°00' N 150°10' W	64°50' N 147°30' W	11,500	3,000		375	132	64
FB0079	19 May	1805	55	21°15' N 158°05' W	23°57' N 158°00' W	1,000	1,000		367	3	2
FB0080	19 May	1900	60	23°57' N 158°00' W	26°55' N 157°48' W	1,000	1,000		373	7	4
FB0081	19 May	2000	60	26°55' N 157°48' W	29°57' N 157°20' W	1,000	1,000		367	- 3	0
FB0082	19 May	2100	60	29°57' N 157°20' W	32°58' N 156°43' W	1,000	1,000		373	3	2
FB0083	19 May	2200	60	32°58' N 156°43' W	36°24' N 155°35' W	1,000	1,000		367	10	5
FB0084	19 May	2300	60	36°24' N 155°35' W	39°03' N 155°20' W	1,000	1,000		373	7	4
FB0085	20 May	0000	60	39°03' N 155°20' W	42°02' N 154°20' W	1,000	1,000		367	1	1
FB0086	20 May	0100	60	42°02' N 154°20' W	44°57' N 153°39' W	1,000	1,000		373	4	2
FB0087	20 May	0200	60	44°57' N 153°39' W	48°00' N 152°42' W	1,000	1,000		367	6	3
FB0088	20 May	0300	60	48°00' N 152°42' W	51°11' N 151°45' W	1,000	1,000		373	5	3
FB0089	20 May	0400	60	51°11' N 151°45' W	54°31' N 151°25' W	1,000	1,000		367	- 5	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0090	20 May	0500	60	54°31' N 151°25' W	57°36' N 150°10' W	1,000	1,000		373	5	3
FB0091	20 May	0600	60	57°36' N 150°10' W	61°11' N 150°17' W	1,000	11,300		367	17	10
FB0092	20 May	0700	65	61°11' N 150°17' W	64°50' N 147°35' W	11,300	11,300		373	41	25
FB0093	20 May	1755	65	21°18' N 158°36' W	24°21' N 157°14' W	11,000	11,000		359	160	275
FB0094	20 May	1900	60	24°21' N 157°14' W	27°54' N 157°12' W	11,000	11,000		367	189	123
FB0095	20 May	2000	60	27°54' N 157°12' W	31°48' N 157°30' W	11,000	11,000		359	108	70
FB0096	20 May	2100	60	31°48' N 157°30' W	35°30' N 156°54' W	11,000	11,000		367	7	5
FB0097	20 May	2200	60	35°30' N 156°54' W	38°36' N 156°18' W	11,000	11,000		359	6	4
FB0098	20 May	2300	60	38°36' N 156°18' W	42°00' N 155°00' W	11,000	14,000		367	19	13
FB0099	21 May	0000	60	42°00' N 155°00' W	45°24' N 153°48' W	14,000	15,000		359	10	7
FB0100	21 May	0100	60	45°24' N 153°48' W	49°00' N 152°00' W	15,000	15,000		367	7	5
FB0101	21 May	0200	60	49°00' N 152°00' W	52°42' N 151°00' W	15,000	12,000	Descent on course	367	9	6
FB0102	21 May	0300	60	52°42' N 151°00' W	56°06' N 150°36' W	12,000	12,000		367	18	12

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0103	21 May	0400	60	56°06' N 150°36' W	58°42' N 149°24' W	12,000	14,000	Climb on course to 15,000 ft. Descend on course to 14,000 ft.	367	13	9
FB0104	21 May	0500	60	58°42' N 149°24' W	62°48' N 149°12' W	14,000	14,000		367	25	18
FB0105	21 May	0600	45	62°48' N 149°12' W	64°50' N 147°35' W	14,000	12,000		367	75	66
FB0106	20 May	1748	72	21°18' N 158°05' W	24°26' N 157°26' W	1,000	1,000		367	20	9
FB0107	20 May	1900	60	24°26' N 157°26' W	27°16' N 156°57' W	1,000	1,000		359	-11	0
FB0108	20 May	2000	60	27°16' N 156°57' W	30°12' N 156°22' W	1,000	1,000		367	22	12
FB0109	20 May	2100	60	30°12' N 156°22' W	32°42' N 155°52' W	1,000	1,000		359	20	11
FB0110	20 May	2200	60	32°42' N 155°52' W	35°22' N 155°12' W	1,000	1,000		367	7	4
FB0111	20 May	2300	60	35°22' N 155°12' W	38°06' N 154°43' W	1,000	1,000		359	9	5
FB0112	21 May	0000	60	38°06' N 154°43' W	40°57' N 154°06' W	1,000	1,000		367	3	2
FB0113	21 May	0100	60	40°57' N 154°06' W	43°43' N 153°26' W	1,000	1,000		359	8	4
FB0114	21 May	0200	60	43°43' N 153°26' W	46°40' N 152°36' W	1,000	1,000		367	10	5
FB0115	21 May	0300	60	46°40' N 152°36' W	49°29' N 151°52' W	1,000	1,000		359	7	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0116	21 May	0400	60	49°29' N 151°52' W	52°18' N 151°06' W	1,000	1,000		367	9	5
FB0117	21 May	0500	60	52°18' N 151°06' W	55°12' N 150°11' W	1,000	1,000		359	7	4
FB0118	21 May	0600	60	55°12' N 150°11' W	59°10' N 149°25' W	1,000	11,000	Climbed on course to 56°29'N, 149°48'W from 55°56'N, 149°48' W.	367	5	3
FB0119	21 May	0700	60	59°10' N 149°25' W	62°25' N 148°35' W	11,000	11,000		359	25	16
FB0120	21 May	0800	40	62°25' N 148°35' W	64°48' N 147°40' W	11,000	11,000		367	18	18
FB0121	24 May	1517	180	64°50' N 147°37' W	72°05' N 128°15' W	3,000	18,000	Climbed to 11,700 ft at 65°41' N, 145°00'W. Climbed from 67°25'N, 137°46'W to 18,000 reached at 68°03'N, 134°58'W.	365	10	2
FB0122	24 May	1817	180	72°05' N 128°15' W	81°55' N 117°50' W	18,000	18,000		365	5	1
FB0123	24 May	2117	156	81°55' N 117°50' W	90°00' N North Pole	18,000	18,000		365	14	4
FB0124	24 May	2353	187	90°00' N North Pole	79°00' N 156°30' W	18,000	18,000		365	17	4
FB0125	25 May	0300	180	79°00' N 156°30' W	69°12' N 154°30' W	17,800	13,000	Descent begun at 71°19'N,156°00'W to 13,000' reached at 69°12' N, 154°30' W.	365	22	5
FB0126	25 May	0600	105	69°12' N 154°30' W	64°50' N 147°35' W	13,000	13,000		365	45	17
FB0127	26 May	1745	44	64°50' N 147°39' W	67°02' N 150°00' W	1,500	18,000	Climbed on course	377	6	5
FB0128	26 May	1829	166	67°02' N 150°00' W	77°15' N 155°00' W	18,000	18,000		377	24	7

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0129	26 May	2115	195	77°15' N 155°00' W	90°00' N North Pole	18,000	18,000		377	16	4
FB0130	27 May	0030	165	90°00' N North Pole	80°38' N 119°00' W	18,000	18,000		377	8	2
FB0131	27 May	0315	180	80°38' N 119°00' W	71°40' N 129°15' W	18,000	18,000		377	21	5
FB0132	27 May	0615	190	71°40' N 129°15' W	64°50' N 147°39' W	18,000	8,000	Started slow descent at 68°46' N, 134°33' W.	377	56	12
FB0133	28 May	1530	225	64°50' N 147°45' W	78°28' N 122°45' W	1,000	18,000	Climb on course	386	29	5
FB0134	28 May	1915	165	78°28' N 122°45' W	85°15' N 117°30' W	18,000	18,000		386	- 4	0
FB0135	28 May	2200	180	85°15' N 117°30' W	84°12' N 153°30' W	18,000	18,000		386	5	1
FB0136	29 May	0100	120	84°12' N 153°30' W	75°40' N 153°00' W	18,000	18,000		386	- 5	0
FB0137	29 May	0300	190	75°40' N 153°00' W	64°50' N 147°45' W	18,000	2,000	Descent begun at 68°25' N, 150° 00' W to 11,000 ft reached at 66°55' N, 155°40' W.	386	73	15
FB0138	31 May	1632	38	64°52' N 147°50' W	66°29' N 144°00' W	2,000	18,000	Climb on course	380	-10	0
FB0139	31 May	1710	180	66°29' N 144°00' W	74°25' N 123°30' W	18,000	18,000		380	- 3	0
FB0140	31 May	2010	180	74°25' N 123°30' W	85°48' N 126°16' W	18,000	18,000		380	5	1
FB0141	31 May	2310	180	85°48' N 126°16' W	84°10' N 158°58' W	18,000	18,000		380	16	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
FB0142	1 Jun	0210	180	84°10' N 158°58' W	74°15' N 153°45' W	18,000	18,000		380	15	4
FB0143	1 Jun	0510	190	74°15' N 153°45' W	64°49' N 147°50' W	18,000	18,000		380	73	17

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0001	13 Apr	1958	183	13°30' N 144°50' E	05°15' N 141°00' E	1,000	10,500	Climbed at 12°00' N, 144°00' E	351	0	0
GU0002	13 Apr	1958	183	13°30' N 144°50' E	05°15' N 141°00' E	1,000	10,500	Climbed at 12°00' N, 144°00' E	351	12	2
GU0003	13 Apr	2301	177	05°15' N 141°00' E	06°45' N 134°00' E	10,500	10,500		351	7	2
GU0004	13 Apr	2301	177	05°15' N 141°00' E	06°45' N 134°00' E	10,500	10,500		351	0	0
GU0005	14 Apr	0158	178	06°45' N 134°00' E	12°05' N 137°39' E	10,500	1,500	Descended at 11°25' N, 137°00' E	351	7	1
GU0006	14 Apr	0158	178	06°45' N 134°00' E	12°05' N 137°39' E	10,500	1,500	Descended at 11°25' N, 137°00' E	351	12	2
GU0007	14 Apr	0456	147	12°05' N 137°39' E	13°30' N 144°40' E	1,500	1,500		351	123	27
GU0008	14 Apr	0456	147	12°05' N 137°39' E	13°30' N 144°40' E	1,500	1,500		351	68	15
GU0009	15 Apr	2010	180	13°50' N 145°05' E	23°15' N 148°30' E	10,500	10,500		353	8	2
GU0010	15 Apr	2010	180	13°50' N 145°05' E	23°15' N 148°30' E	10,500	10,500		353	- 7	0
GU0011	15 Apr	2310	177	23°15' N 148°30' E	23°18' N 156°12' E	10,500	10,500		353	2	0
GU0012	15 Apr	2310	177	23°15' N 148°30' E	23°18' N 156°12' E	10,500	10,500		353	1	0
GU0013	16 Apr	0207	170	23°18' N 156°12' E	17°54' N 151°10' E	10,500	10,500		353	- 4	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0014	16 Apr	0207	170	23°18' N 155°12' E	17°54' N 151°10' E	10,500	10,500		353	224	51
GU0015	16 Apr	0457	203	17°54' N 151°10' E	16°30' N 147°10' E	10,500	10,500		353	36	7
GU0016	16 Apr	0457	203	17°54' N 151°10' E	16°30' N 147°10' E	10,500	10,500		353	258	49
GU0017	16 Apr	2325	175	13°30' N 144°50' E	09°30' N 153°05' E	1,000	11,500	Climbed at extraction	353	15	4
GU0018	16 Apr	2325	175	13°30' N 144°50' E	09°30' N 153°05' E	1,000	11,500	Climbed at extraction	353	10	2
GU0019	17 Apr	0220	180	09°30' N 153°05' E	10°30' N 150°15' E	11,500	9,250	Descent at 09°25' N, 152°00' E	355	1,822	389
GU0020	17 Apr	0220	180	09°30' N 153°05' E	10°30' N 150°15' E	11,500	9,250	Descent at 09°25' N, 152°00' E	355	1,892	404
GU0021	17 Apr	0520	100	10°30' N 150°15' E	13°30' N 144°50' E	9,250	9,250		355	16	6
GU0022	17 Apr	0520	100	10°30' N 150°15' E	13°30' N 144°50' E	9,250	9,250		355	10	4
GU0023	17 Apr	2011	132	13°30' N 145°00' E	10°34' N 151°12' E	1,000	9,200	Climbed at 12°54' N, 146°30' E	349	213	56
GU0024	17 Apr	2011	132	13°30' N 145°00' E	10°34' N 151°12' E	1,000	9,200	Climbed at 12°54' N, 146°30' E	351	434	114
GU0025	17 Apr	2223	118	10°34' N 151°12' E	07°36' N 156°52' E	9,200	9,200		349	40,860	12,969
GU0026	17 Apr	2223	118	10°34' N 151°12' E	07°36' N 156°52' E	9,200	9,200		349	39,270	12,454

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0027	18 Apr	0021	124	07°36' N 156°52' E	11°49' N 158°22' E	9,200	9,200		351	11,226	3,391
GU0028	18 Apr	0021	124	07°36' N 156°52' E	11°49' N 158°22' E	9,200	9,200		349	9,536	2,880
GU0029	18 Apr	0225	121	11°49' N 158°22' E	13°34' N 153°14' E	9,200	9,200		349	167	52
GU0030	18 Apr	0225	121	11°49' N 158°22' E	13°34' N 153°14' E	9,200	9,200		349	168	52
GU0031	18 Apr	0426	128	13°34' N 153°14' E	13°35' N 145°00' E	9,200	9,200		351	1,382	404
GU0032	18 Apr	0426	128	13°34' N 153°14' E	13°35' N 145°00' E	9,200	9,200		349	1,745	511
GU0033	17 Apr	2310	60	08°45' N 167°45' E	09°55' N 164°10' E	1,500	Unknown		349	29,265	15,940
GU0034	17 Apr	2310	60	08°45' N 167°45' E	09°55' N 164°10' E	1,500	Unknown		349	27,202	14,816
GU0035	18 Apr	0010	60	09°55' N 164°10' E	10°50' N 161°10' E	Unknown	5,000		351	22,427	12,979
GU0036	18 Apr	0010	60	09°55' N 164°10' E	10°50' N 161°10' E	Unknown	5,000		351	27,373	15,841
GU0037	18 Apr	0110	60	10°50' N 161°10' E	11°50' N 158°05' E	5,000	5,000		351	7,377	4,269
GU0038	18 Apr	0110	60	10°50' N 161°10' E	11°50' N 158°05' E	5,000	5,000		351	6,311	3,652
GU0039	18 Apr	0210	60	11°50' N 158°05' E	12°50' N 154°50' E	5,000	5,000		349	3,345	1,936

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0040	18 Apr	0210	60	11°50' N 158°05' E	12°50' N 154°50' E	5,000	5,000		349	3,598	2,082
GU0041	18 Apr	0310	50	12°50' N 154°50' E	13°38' N 152°06' E	5,000	5,000		351	5,840	4,056
GU0042	18 Apr	0310	50	12°50' N 154°50' E	13°38' N 152°06' E	5,000	5,000		351	4,466	3,101
GU0043	18 Apr	0400	99	13°38' N 152°06' E	14°55' N 151°20' E	5,000	5,000		349	6,195	2,173
GU0044	18 Apr	0400	99	13°38' N 152°06' E	14°55' N 151°20' E	5,000	5,000		349	7,938	2,784
GU0045	18 Apr	0539	140	14°55' N 151°20' E	13°30' N 144°50' E	5,000	5,000		349	31,413	7,791
GU0046	18 Apr	0539	140	14°55' N 151°20' E	13°30' N 144°50' E	5,000	5,000		351	19,149	4,749
GU0047	19 Apr	0540	110	12°50' N 145°25' E	12°32' N 146°52' E	5,000	5,000		382	9,133	2,883
GU0048	19 Apr	0540	110	12°50' N 145°25' E	12°32' N 146°52' E	5,000	5,000		389	10,362	3,271
GU0049	19 Apr	0730	95	12°32' N 146°52' E	15°25' N 142°50' E	5,000	Unknown		389	303	111
GU0050	19 Apr	0730	95	12°32' N 146°52' E	15°25' N 142°50' E	5,000	Unknown		382	278	102
GU0051	19 Apr	0905	91	15°25' N 142°50' E	15°12' N 141°18' E	Unknown	10,000		389	32	13
GU0052	19 Apr	0905	91	15°25' N 142°50' E	15°12' N 141°18' E	Unknown	10,000		382	18	8

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0053	19 Apr	1036	64	15°12' N 141°18' E	13°30' N 144°55' E	10,000	10,000		389	93	55
GU0054	19 Apr	1036	64	15°12' N 141°18' E	13°30' N 144°55' E	10,000	10,000		382	62	37
GU0055	20 Apr	0254	148	13°30' N 144°45' E	11°28' N 137°40' E	5,000	5,000		403	4,850	1,138
GU0056	20 Apr	0254	148	13°30' N 144°45' E	11°28' N 137°40' E	5,000	5,000		396	5,193	1,218
GU0057	20 Apr	0522	94	11°28' N 137°40' E	12°00' N 135°50' E	5,000	Unknown		396	7,866	2,906
GU0058	20 Apr	0522	94	11°28' N 137°40' E	12°00' N 135°50' E	5,000	Unknown		405	8,663	3,200
GU0059	20 Apr	0656	44	12°00' N 135°50' E	14°10' N 136°38' E	Unknown	10,000		396	903	783
GU0060	20 Apr	0656	44	12°00' N 135°50' E	14°10' N 136°38' E	Unknown	10,000		403	601	521
GU0061	20 Apr	0740	150	14°10' N 136°38' E	14°36' N 138°00' E	10,000	10,000		396	53	13
GU0062	20 Apr	0740	150	14°10' N 136°38' E	14°36' N 138°00' E	10,000	10,000		396	158	40
GU0063	20 Apr	1010	130	14°36' N 138°00' E	13°35' N 144°50' E	10,000	1,000	Descent at extraction	403	219	64
GU0064	20 Apr	1010	130	14°36' N 138°00' E	13°35' N 144°50' E	10,000	1,000	Descent at extraction	403	355	104
GU0065	21 Apr	0105	136	13°20' N 143°08' E	12°18' N 136°19' E	1,000	10,700	Climb at insertion	351	392	111

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0066	21 Apr	0105	136	13°20' N 143°08' E	12°18' N 136°19' E	1,000	10,700	Climb at insertion	364	421	119
GU0067	21 Apr	0321	133	12°18' N 136°19' E	11°30' N 129°36' E	10,700	10,700		351	32	9
GU0068	21 Apr	0321	133	12°18' N 136°19' E	11°30' N 129°36' E	10,700	10,700		351	22	6
GU0069	21 Apr	0534	68	11°30' N 129°36' E	11°00' N 125°36' E	10,700	5,600		351	187	101
GU0070	21 Apr	0534	68	11°30' N 129°36' E	11°00' N 125°36' E	10,700	5,600		351	200	108
GU0071	21 Apr	0642	98	11°00' N 125°36' E	12°00' N 125°00' E	5,600	5,600		351	1,310	469
GU0072	21 Apr	0642	98	11°00' N 125°36' E	12°00' N 125°00' E	5,600	5,600		351	1,140	408
GU0073	21 Apr	0820	112	12°00' N 125°00' E	14°30' N 130°06' E	5,600	10,100	5,600 ft to 12,000 ft at insertion descending on course to 10,100 ft	364	81	26
GU0074	21 Apr	0820	112	12°00' N 125°00' E	14°30' N 130°06' E	5,600	10,100	5,600 ft to 12,000 ft at insertion descending on course to 10,100 ft	364	84	27
GU0075	21 Apr	1012	105	14°30' N 130°06' E	14°12' N 131°45' E	10,100	11,200		364	10	4
GU0076	21 Apr	1012	105	14°30' N 130°06' E	14°12' N 131°45' E	10,100	11,200		364	- 1	0
GU0077	21 Apr	1157	183	14°12' N 131°45' E	13°35' N 141°00' E	11,200	11,200		364	5	1
GU0078	21 Apr	1157	183	14°12' N 131°45' E	13°35' N 141°00' E	11,200	11,200		364	5	1

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0079	25 Apr	0010	180	08°45' N 167°45' E	10°40' N 158°25' E	8,100	8,100		376	165	34
GU0080	25 Apr	0010	180	08°45' N 167°45' E	10°40' N 158°25' E	8,100	8,100		376	299	61
GU0081	25 Apr	0310	180	10°40' N 158°25' E	13°00' N 147°45' E	8,100	8,100		376	19	4
GU0082	25 Apr	0310	180	10°40' N 158°25' E	13°00' N 147°45' E	8,100	8,100		376	4	1
GU0083	25 Apr	0610	60	13°00' N 147°45' E	13°35' N 144°45' E	8,100	8,100		376	80	48
GU0084	25 Apr	0610	60	13°00' N 147°45' E	13°35' N 144°45' E	8,100	8,100		376	76	46
GU0085	26 Apr	2218	122	13°22' N 145°00' E	10°45' N 150°15' E	1,000	10,500	Spiral climb at 12°00' N, 148°00' E	361	23	7
GU0086	26 Apr	2218	122	13°22' N 145°00' E	10°45' N 150°15' E	1,000	10,500	Spiral climb at 12°00' N, 148°00' E	361	4	1
GU0087	27 Apr	0020	120	10°45' N 150°15' E	08°37' N 154°24' E	10,500	10,600		361	2	1
GU0088	27 Apr	0020	120	10°45' N 150°15' E	08°37' N 154°24' E	10,500	10,600		361	13	4
GU0089	27 Apr	0220	122	08°37' N 154°24' E	05°10' N 155°30' E	10,600	10,800		361	335	106
GU0090	27 Apr	0220	122	08°37' N 154°24' E	05°10' N 155°30' E	10,600	10,800		376	520	165
GU0091	27 Apr	0422	116	05°10' N 155°30' E	06°20' N 149°20' E	10,800	10,800		376	12	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0092	27 Apr	0422	116	05°10' N 155°30' E	06°20' N 149°20' E	10,800	10,500		376	19	6
GU0093	27 Apr	0618	142	06°20' N 149°20' E	13°40' N 144°55' E	10,500	1,700		376	106	29
GU0094	27 Apr	0618	142	06°20' N 149°20' E	13°40' N 144°55' E	10,500	1,700		376	103	28
GU0095	26 Apr	2102	180	13°45' N 144°55' E	16°03' N 142°00' E	700	700		361	5	1
GU0096	26 Apr	2102	180	13°45' N 144°55' E	16°03' N 142°00' E	700	700		361	0	0
GU0097	27 Apr	0002	180	16°03' N 142°00' E	16°20' N 142°10' E	700	700		361	22	4
GU0098	27 Apr	0002	180	16°03' N 142°00' E	16°20' N 142°10' E	700	700		361	21	4
GU0099	27 Apr	0302	180	16°20' N 142°10' E	16°53' N 142°20' E	700	700		376	19	3
GU0100	27 Apr	0302	180	16°20' N 142°10' E	16°53' N 142°20' E	700	700		376	14	2
GU0101	27 Apr	0602	145	16°53' N 142°20' E	13°35' N 144°53' E	700	700		376	92	21
GU0102	27 Apr	0602	145	16°53' N 142°20' E	13°35' N 144°53' E	700	700		376	96	21
GU0103	27 Apr	2007	116	13°34' N 144°55' E	10°55' N 150°00' E	1,100	10,500	Spiral climb at insertion	369	5	2
GU0104	27 Apr	2007	116	13°34' N 144°55' E	10°55' N 150°00' E	1,100	10,500	Spiral climb at insertion	369	7	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0105	27 Apr	2203	117	10°56' N 150°00' E	07°55' N 155°50' E	10,500	10,500		369	- 6	0
GU0106	27 Apr	2203	117	10°55' N 150°00' E	07°55' N 155°50' E	10,500	10,500		369	- 1	0
GU0107	28 Apr	0000	119	07°55' N 155°50' E	05°08' N 155°40' E	10,500	10,800		369	- 3	0
GU0108	28 Apr	0000	119	07°55' N 155°50' E	05°08' N 155°40' E	10,500	10,800		374	12	4
GU0109	28 Apr	0159	121	05°08' N 155°40' E	05°55' N 145°31' E	10,800	10,800		374	4	1
GU0110	28 Apr	0159	121	05°08' N 155°40' E	05°55' N 145°31' E	10,800	10,800		374	- 9	0
GU0111	28 Apr	0400	120	05°55' N 149°31' E	11°32' N 146°12' E	10,800	10,800		374	26	8
GU0112	28 Apr	0400	120	05°55' N 149°31' E	11°32' N 146°12' E	10,800	10,800		374	33	11
GU0132	28 Apr	2335	120	13°30' N 145°12' E	10°35' N 150°30' E	1,000	10,300	Climb at insertion	369	19	6
GU0133	28 Apr	2335	120	13°30' N 145°12' E	10°35' N 150°30' E	1,000	10,300	Climb at insertion	369	4	1
GU0134	29 Apr	0135	122	10°35' N 150°30' E	07°50' N 156°20' E	10,300	10,700		369	- 1	0
GU0135	29 Apr	0135	122	10°35' N 150°30' E	07°50' N 156°20' E	10,300	10,700		369	2	1
GU0136	29 Apr	0337	118	07°50' N 156°20' E	05°15' N 155°35' E	10,700	10,700		370	- 6	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0137	29 Apr	0337	118	07°50' N 156°20' E	05°15' N 155°35' E	10,700	10,700		369	- 2	0
GU0138	29 Apr	0535	120	05°15' N 155°35' E	06°22' N 149°07' E	10,700	10,700		370	-16	0
GU0139	29 Apr	0535	120	05°15' N 155°35' E	06°22' N 149°07' E	10,700	10,700		370	15	5
GU0140	29 Apr	0735	142	06°22' N 149°07' E	13°30' N 144°54' E	10,700	300	Descent at extraction	370	334	91
GU0141	29 Apr	0735	142	06°22' N 149°07' E	13°30' N 144°54' E	10,700	300	Descent at extraction	370	254	69
GU0142	30 Apr	2005	185	13°30' N 144°54' E	09°30' N 152°50' E	1,500	1,500		366	-20	0
GU0143	30 Apr	2005	185	13°30' N 144°54' E	09°30' N 152°50' E	1,500	1,500		366	3	1
GU0144	30 Apr	2310	180	09°30' N 152°50' E	05°00' N 156°05' E	1,500	1,500		366	9	2
GU0145	30 Apr	2310	180	09°30' N 152°50' E	05°00' N 156°05' E	1,500	1,500		366	12	2
GU0146	1 May	0210	180	05°00' N 156°05' E	08°50' N 147°45' E	1,500	10,500	Spiral climb at 05°06'N, 158°06'E	358	32	6
GU0147	1 May	0210	180	05°00' N 156°05' E	08°50' N 147°45' E	1,500	10,500	Spiral climb at 05°06'N, 158°06' E	358	14	3
GU0148	1 May	0510	100	08°50' N 147°45' E	13°30' N 144°50' E	10,500	10,500		358	247	95
GU0149	1 May	0510	100	08°50' N 147°45' E	13°30' N 144°50' E	10,500	10,500		358	289	111

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0150	1 May	2025	175	13°30' N 145°00' E	10°00' N 151°55' E	1,500	1,500		361	133	25
GU0151	1 May	2320	180	10°00' N 151°55' E	06°10' N 158°18' E	1,500	1,500		361	13	2
GU0152	1 May	2320	180	10°00' N 151°55' E	06°10' N 158°18' E	1,500	1,500		361	10	2
GU0153	2 May	0220	176	06°10' N 158°18' E	05°00' N 150°00' E	1,500	10,000	Spiral climb at insertion	364	129	28
GU0154	2 May	0220	176	06°10' N 158°18' E	05°00' N 150°00' E	1,500	10,000	Spiral climb at insertion	364	91	20
GU0155	2 May	0516	171	05°00' N 150°00' E	13°30' N 144°50' E	10,000	10,000		364	236	53
GU0156	2 May	0516	171	05°00' N 150°00' E	13°30' N 144°50' E	10,000	10,000		364	219	49
GU0157	2 May	2000	180	13°25' N 145°10' E	09°44' N 152°36' E	1,500	1,500		368	48	9
GU0158	2 May	2000	180	13°25' N 145°10' E	09°44' N 152°36' E	1,500	1,500		368	70	13
GU0159	2 May	2300	182	09°44' N 152°36' E	06°40' N 158°20' E	1,500	1,500		368	10,564	1,897
GU0160	2 May	2300	182	09°44' N 152°36' E	06°40' N 158°20' E	1,500	1,500		368	12,065	2,166
GU0161	3 May	0202	178	06°40' N 158°20' E	06°30' N 149°14' E	1,500	10,500	Spiral climb at insertion	362	416	90
GU0162	3 May	0202	178	06°40' N 158°20' E	06°30' N 149°14' E	1,500	10,500	Spiral climb at insertion	362	383	83

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0163	3 May	0500	145	06°30' N 145°14' E	13°35' N 144°57' E	10,500	10,500		362	190	50
GU0164	3 May	0500	145	06°30' N 145°14' E	13°35' N 144°57' E	10,500	10,500		362	104	28
GU0166	2 May	1230	465	07°00' N 167°00' E	13°30' N 145°10' E	7,500	7,500		375	76,130	5,932
GU0167	2 May	1230	465	07°00' N 167°00' E	13°30' N 145°10' E	7,500	7,500		375	62,622	4,879
GU0168	3 May	2008	180	13°30' N 145°10' E	09°38' N 152°45' E	1,500	1,500		367	3,843	698
GU0169	3 May	2308	199	09°38' N 152°45' E	05°08' N 157°57' E	1,500	10,500	Spiral climb at extraction	377	5,581	917
GU0170	4 May	0227	181	05°08' N 157°57' E	07°31' N 148°33' E	10,500	10,500		372	3,579	782
GU0171	4 May	0525	119	07°31' N 148°33' E	13°39' N 144°55' E	10,500	2,000	Descent at extraction	372	184	59
GU0172	4 May	1700	270	13°30' N 144°50' E	13°32' N 130°35' E	5,000	Unknown		368	58	8
GU0173	4 May	2130	90	13°32' N 130°35' E	14°31' N 124°30' E	Unknown	10,500		368	68	29
GU0174	*4 May	2300	90	14°31' N 124°30' E	15°15' N 120°31' E	10,500	Unknown		379	-25	0
GU0175	*5 May	0030	180	15°15' N 120°31' E	14°20' N 127°50' E	Unknown	30,000		379	699	230
GU0176	6 May	0330	240	14°20' N 127°50' E	13°30' N 144°50' E	30,000	30,000		379	288	71

*Plane remained at Clark Field for 24 hours.

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0177	6 May	2004	181	13°30' N 145°50' E	09°50' N 152°20' E	1,500	1,500		377	1,642	296
GU0178	6 May	2305	179	09°50' N 152°20' E	06°00' N 158°20' E	1,500	1,500		377	1,665	304
GU0179	7 May	0204	181	06°00' N 158°20' E	06°21' N 149°30' E	1,500	10,000	Spiral climb at insertion	377	3,745	790
GU0180	7 May	0505	126	06°21' N 149°30' E	13°30' N 144°55' E	10,000	10,000		362	13,384	4,054
GU0181	9 May	2012	182	13°30' N 145°00' E	09°37' N 152°50' E	1,500	1,500		376	1,333	239
GU0182	9 May	2314	181	09°37' N 152°50' E	05°12' N 157°33' E	1,500	10,500	Spiral climb at 05°06' N, 158°18' E	376	2,220	433
GU0183	10 May	0215	152	05°12' N 157°33' E	08°06' N 148°14' E	10,500	10,500		363	4,121	826
GU0184	10 May	0527	110	08°06' N 148°14' E	13°32' N 144°55' E	10,500	10,500		363	555	194
GU0185	10 May	2000	180	13°30' N 144°50' E	09°40' N 152°35' E	1,500	1,500		368	1,391	253
GU0186	10 May	2300	180	09°40' N 152°35' E	05°08' N 157°40' E	1,500	1,500		368	2,129	387
GU0187	11 May	0200	180	05°08' N 157°40' E	07°20' N 148°40' E	1,500	10,500	Spiral climb at insertion	369	263	56
GU0188	11 May	0500	120	07°20' N 148°40' E	13°30' N 144°50' E	10,500	10,500		369	697	223
GU0189	11 May	2300	180	35°35' N 139°32' E	25°37' N 141°55' E	14,000	Unknown		369	129	30

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0190	12 May	0200	210	25°37' N 141°55' E	13°35' N 144°55' E	Unknown	20,000		394	187	42
GU0191	11 May	1952	190	11°30' N 144°59' E	09°39' N 152°30' E	1,500	1,500		369	740	127
GU0192	11 May	2302	181	09°39' N 152°30' E	05°08' N 157°40' E	1,500	1,500		369	1,089	197
GU0193	12 May	0203	177	05°08' N 157°40' E	07°45' N 148°15' E	1,500	10,700	Spiral climb at insertion	394	620	136
GU0194	12 May	0500	109	07°45' N 148°15' E	13°30' N 145°00' E	10,700	10,700		394	959	341
GU0195	12 May	2005	181	13°30' N 145°08' E	09°36' N 153°00' E	1,500	1,500		365	438	79
GU0196	12 May	2306	180	09°36' N 153°00' E	05°10' N 156°55' E	1,500	10,500	Climbed at extraction	365	1,062	227
GU0197	13 May	0206	179	05°10' N 156°55' E	08°45' N 148°02' E	10,500	10,500		383	429	92
GU0198	13 May	0505	96	08°45' N 148°02' E	13°40' N 144°55' E	10,500	2,000	Descended at extraction	383	818	328
GU0199	13 May	2000	180	13°30' N 144°50' E	09°48' N 152°18' E	1,500	1,500		398	508	92
GU0200	13 May	2300	180	09°48' N 152°18' E	05°08' N 157°20' E	1,500	10,500	Spiral climb at insertion	398	1,775	379
GU0201	14 May	0200	180	05°08' N 157°20' E	08°00' N 148°20' E	10,500	10,500		367	95	20
GU0202	14 May	0500	115	08°00' N 148°20' E	13°30' N 144°50' E	10,500	10,500		367	585	196

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0203	14 May	2000	180	13°27' N 145°00' E	09°28' N 153°07' E	1,500	1,500		365	298	54
GU0204	14 May	2300	120	09°28' N 153°07' E	05°08' N 157°37' E	1,500	11,400	Spiral climb at insertion	365	1,495	326
GU0205	15 May	0200	180	05°08' N 157°37' E	08°00' N 148°17' E	11,400	11,400		391	82	18
GU0206	15 May	0500	105	08°00' N 148°17' E	13°35' N 144°55' E	11,400	10,800		391	379	140
GU0207	15 May	2002	178	13°30' N 144°55' E	09°50' N 152°26' E	1,500	1,500		395	647	119
GU0208	15 May	2300	177	09°50' N 152°26' E	05°15' N 158°20' E	1,500	1,500		395	1,032	191
GU0209	16 May	0157	181	05°15' N 158°20' E	06°30' N 149°10' E	1,500	10,500	Climb at insertion	371	57	12
GU0210	16 May	0458	132	06°30' N 149°10' E	13°20' N 145°10' E	10,500	9,700		371	65	19
GU0211	16 May	2056	180	13°35' N 144°58' E	11°32' N 138°22' E	10,200	10,200	Via 10°06' N, 139°13' E	366	61	13
GU0212	16 May	2356	140	11°32' N 138°22' E	13°27' N 144°37' E	10,500	10,500		352	175	48
GU0213	17 May	1800	180	13°30' N 144°50' E	10°20' N 147°20' E	5,000	5,000		377	857	165
GU0214	17 May	2100	180	10°20' N 147°20' E	14°20' N 142°50' E	5,000	10,500	Climbed at 10°18'N, 145°50' E	371	229	46
GU0215	18 May	0357	266	13°35' N 144°55' E	13°48' N 144°44' E	10,500	10,500		365	138	20

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0216	18 May	2225	180	08°45' N 167°45' E	11°10' N 156°37' E	8,000	8,000		373	35,392	7,202
GU0217	19 May	0025	190	11°10' N 156°37' E	13°30' N 145°30' E	8,000	8,000		373	23,778	4,584
GU0218	18 May	2030	180	08°40' N 167°40' E	11°00' N 156°37' E	10,000	10,000		373	21,925	4,649
GU0219	18 May	2330	210	11°00' N 156°37' E	13°40' N 144°55' E	10,000	10,000		373	36,129	6,567
GU0220	18 May	1852	180	13°35' N 144°50' E	09°31' N 141°15' E	5,400	5,400	Via 10°00' N, 146°00' E	373	70	14
GU0221	18 May	2152	193	09°31' N 141°15' E	19°25' N 142°07' E	5,400	10,500	Spiral climb at insertion	373	57	11
GU0222	19 May	0105	258	19°25' N 142°07' E	13°35' N 144°50' E	10,500	10,500		373	313	47
GU0223	19 May	2220	182	13°50' N 144°56' E	23°00' N 142°27' E	10,500	10,500		354	234	49
GU0224	20 May	0122	184	23°00' N 142°27' E	22°00' N 143°34' E	10,500	10,500		364	3,533	739
GU0225	20 May	0426	181	22°00' N 143°34' E	13°35' N 144°53' E	10,500	10,500		368	790	168
GU0226	20 May	0323	177	13°34' N 144°57' E	23°02' N 143°43' E	1,500	9,500	Spiral climb at insertion	368	216	46
GU0227	20 May	0620	183	23°02' N 143°43' E	20°40' N 142°50' E	9,500	9,500		368	60	12
GU0228	20 May	0923	152	20°40' N 142°50' E	13°35' N 144°56' E	9,500	9,500		368	950	238

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0229	20 May	2050	180	08°43' N 167°45' E	10°54' N 157°45' E	10,000	10,000		367	9,612	2,038
GU0230	20 May	2350	205	10°54' N 157°45' E	13°30' N 144°53' E	10,000	10,600		367	6,983	1,305
GU0231	20 May	2333	187	10°55' N 157°50' E	13°00' N 147°25' E	8,000	8,000		397	16,341	3,201
GU0232	20 May	2033	180	08°45' N 167°45' E	10°55' N 157°50' E	8,000	8,000		367	30,441	6,195
GU0233	21 May	0240	35	13°00' N 147°25' E	13°40' N 144°55' E	8,000	8,000		367	11,116	1,184
GU0234	20 May	2005	176	13°30' N 144°55' E	09°47' N 152°16' E	1,500	1,500		397	4,326	803
GU0235	20 May	2301	158	09°47' N 152°16' E	06°30' N 158°20' E	1,500	1,500		397	2,965	613
GU0236	21 May	0139	192	06°30' N 158°20' E	06°58' N 148°55' E	1,500	10,500	Spiral climb at insertion	397	5,487	1,099
GU0237	21 May	0441	116	07°00' N 148°54' E	14°00' N 144°55' E	10,500	10,500		397	4,991	1,655
GU0238	21 May	2030	180	09°00' N 167°30' E	10°42' N 157°00' E	10,000	10,000		521	47,039	9,974
GU0239	21 May	2030	180	09°00' N 167°30' E	10°42' N 157°00' E	10,000	10,000		521	50,678	10,746
GU0240	21 May	2330	180	10°42' N 157°00' E	13°30' N 146°00' E	10,000	10,000		521	17,885	3,792
GU0241	21 May	2330	180	10°42' N 157°00' E	13°30' N 146°00' E	10,000	10,000		521	15,688	3,327

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0242	21 May	1945	180	13°40' N 144°55' E	09°35' N 153°00' E	1,500	1,500		521	10,629	1,930
GU0243	21 May	2245	183	09°35' N 153°00' E	05°08' N 156°37' E	1,500	10,500	Climbed to 3,000 at 07°30' N, 157°00' E; climbed to 10,000 at 05°06' N, 158°00' E	521	5,501	1,062
GU0244	22 May	0148	180	05°08' N 156°37' E	08°55' N 147°47' E	10,000	10,000		521	2,570	544
GU0245	22 May	0448	100	08°55' N 147°47' E	13°30' N 144°50' E	10,000	10,000		521	5,562	2,123
GU0246	22 May	0213	180	08°45' N 167°45' E	11°03' N 157°02' E	8,500	8,500		521	1,197	246
GU0247	22 May	0513	205	11°03' N 157°02' E	13°35' N 144°55' E	8,500	8,500		521	982	177
GU0249	22 May	2100	180	13°35' N 144°44' E	09°24' N 153°00' E	1,500	1,500		577	7,666	1,392
GU0250	23 May	0000	180	09°24' N 153°00' E	05°08' N 158°10' E	1,500	10,000	Spiral climb at extraction	577	697	127
GU0251	23 May	0300	195	05°08' N 158°10' E	09°24' N 147°30' E	10,000	10,000		577	-11	0
GU0252	23 May	0615	85	09°24' N 147°30' E	13°35' N 144°44' E	10,000	10,000		577	827	371
GU0253	23 May	2005	180	13°35' N 144°55' E	10°00' N 152°22' E	1,500	1,500		507	271	49
GU0254	23 May	2305	180	10°00' N 152°22' E	05°45' N 157°50' E	1,500	10,000	Spiral climb at extraction	507	1,004	182
GU0255	24 May	0205	180	05°45' N 157°50' E	05°00' N 149°30' E	10,000	10,000		507	-22	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
GUC256	24 May	0505	170	05°00' N 149°30' E	13°35' N 144°55' E	10,000	10,000		507	325	73
GUC257	24 May	2000	180	13°30' N 144°50' E	09°48' N 152°18' E	1,500	1,500		548	20,907	3,796
GUC258	24 May	2300	180	09°48' N 152°18' E	05°08' N 157°35' E	1,500	10,000	Spiral climb at extraction	548	26,120	4,742
GUC259	25 May	0200	180	05°08' N 157°35' E	07°15' N 149°00' E	10,000	10,000		490	23,771	5,041
GUC260	25 May	0500	180	07°15' N 149°00' E	13°25' N 145°00' E	10,000	10,000		490	8,461	2,691
GUC261	25 May	2000	180	13°35' N 145°55' E	10°00' N 151°55' E	1,500	1,500		498	798	145
GUC262	25 May	2300	193	10°00' N 151°55' E	06°49' N 158°20' E	1,500	1,500		498	840	142
GUC263	26 May	0213	180	06°49' N 158°20' E	05°08' N 150°01' E	1,500	10,500	Spiral climb at insertion	498	484	103
GUC264	26 May	0513	165	05°08' N 150°01' E	13°35' N 144°55' E	10,500	10,500		498	16	4
GUC265	26 May	2000	180	13°30' N 145°50' E	10°40' N 153°05' E	1,500	1,500		517	17,910	3,252
GUC266	26 May	2300	180	10°40' N 153°05' E	05°01' N 158°30' E	1,500	1,500		517	1,091	198
GUC267	27 May	0200	180	05°01' N 158°30' E	06°30' N 149°20' E	1,500	10,000	Spiral climb at insertion	517	3,878	822
GUC268	27 May	0500	150	06°30' N 149°20' E	13°30' N 145°00' E	10,000	10,000		517	1,150	293

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU0269	27 May	0925	180	08°44' N 167°44' E	10°42' N 157°00' E	1,000	10,000	Spiral climb at insertion	441	3,656	775
GU0270	27 May	1225	205	10°42' N 157°00' E	13°30' N 144°50' E	10,000	10,000		441	1,564	291
GU0271	27 May	1951	180	13°35' N 144°55' E	06°00' N 141°18' E	1,500	1,500		441	1,489	270
GU0272	27 May	2251	34	06°00' N 141°18' E	04°33' N 140°33' E	1,500	1,500		441	-52	0
GU0273	27 May	2325	31	04°33' N 140°33' E	05°00' N 139°00' E	1,500	1,500		441	-44	0
GU0274	27 May	2356	23	05°00' N 139°00' E	04°33' N 137°04' E	1,500	1,500		441	-30	0
GU0275	28 May	0019	64	04°33' N 137°04' E	04°33' N 134°00' E	1,500	1,500		441	362	185
GU0276	28 May	0123	17	04°33' N 134°00' E	04°33' N 134°00' E	1,500	10,000	Spiral climb	441	-41	0
GU1000	29 May	2015	175	13°30' N 144°00' E	14°05' N 134°20' E	10,500	10,500		357	95	21
GU1001	29 May	2310	180	14°05' N 134°20' E	14°40' N 127°15' E	10,500	10,500		357	401	86
GU1002	30 May	0210	150	14°40' N 127°15' E	15°00' N 122°10' E	10,500	10,500		357	111	28
GU1003	30 May	0440	190	15°00' N 122°10' E	14°38' N 132°32' E	10,500	9,500		357	81	16
GU1004	30 May	0750	190	14°38' N 132°32' E	13°43' N 142°31' E	9,500	9,500		357	28	5

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU1005	30 May	1100	150	13°43' N 142°31' E	13°35' N 144°50' E	9,500	1,500	Descent at extraction	357	11	2
GU1006	30 May	0300	185	13°30' N 144°50' E	15°10' N 134°00' E	10,000	10,000		357	40,892	8,437
GU1007	30 May	2340	185	15°20' N 126°40' E	19°52' N 129°20' E	10,000	10,000		357	19,229	3,967
GU1008	31 May	0245	175	19°52' N 129°20' E	17°55' N 134°52' E	10,000	10,000		357	4,029	879
GU1009	30 May	0905	121	16°40' N 127°45' E	15°20' N 121°00' E	10,000	10,000		357	33,180	10,466
GU1010	31 May	0540	180	17°55' N 134°52' E	13°30' N 144°50' E	10,000	10,000		357	2,301	488
GU1011	30 May	0605	180	15°10' N 134°00' E	16°40' N 127°45' E	10,000	10,000		435	23,021	4,881
GU1012	31 May	0230	180	13°35' N 144°25' E	20°00' N 136°35' E	10,000	10,000		372	193	41
GU1013	31 May	0530	150	20°00' N 136°35' E	21°20' N 129°15' E	10,500	10,500		372	1,324	339
GU1014	31 May	0800	95	21°20' N 129°15' E	25°35' N 127°30' E	10,500	10,500		372	206	83
GU1015	31 May	2050	186	26°10' N 128°06' E	22°42' N 133°22' E	10,500	10,500		372	939	194
GU1016	31 May	2356	180	22°42' N 133°22' E	17°21' N 139°50' E	10,500	9,500		372	408	87
GU1017	1 Jun	0256	95	17°21' N 139°50' E	13°35' N 144°55' E	9,500	9,500		372	23	9

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
GU1150	1 May	2025	175	13°30' N 145°00' E	10°00' N 151°55' E	1,500	1,500		361	207	39

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0001	9 Apr	1415	175	37°42' N 123°00' W	37°40' N 133°00' W	500	500		323	9	2
HW0002	9 Apr	1500	240	37°50' N 123°10' W	27°30' N 132°00' W	500	500		323	- 5	0
HW0003	9 Apr	1500	240	37°50' N 123°10' W	27°30' N 132°00' W	500	500		323	9	1
HW0004	9 Apr	1415	175	37°42' N 123°00' W	37°40' N 133°00' W	500	500		323	4	1
HW0005	9 Apr	1710	180	37°40' N 133°00' W	37°45' N 143°53' W	500	500		323	15	3
HW0006	8 Apr	1900	240	27°30' N 132°00' W	23°00' N 142°00' W	500	10,000	Climb on course from 23°10' N, 136°00' W to 23°00'N, 142°00' W.	323	7	1
HW0007	9 Apr	1710	180	37°40' N 133°00' W	37°45' N 143°53' W	500	500		323	- 1	0
HW0008	8 Apr	1900	240	27°30' N 132°00' W	23°00' N 142°00' W	500	10,000	Climb on course from 23°10' N, 136°00' W to 23°00' N, 142°00' W.	323	10	2
HW0009	9 Apr	2010	180	37°45' N 143°53' W	31°10' N 150°23' W	500	10,000	Climb on course from 37°45' N, 143°53' W to 37°42' N, 146°06' W.	323	- 5	0
HW0010	8 Apr	2300	240	23°00' N 142°00' W	22°30' N 145°00' W	10,000	10,000		323	11	2
HW0011	9 Apr	2010	180	37°45' N 143°53' W	31°10' N 150°23' W	500	10,000	Climb on course to 37°42' N, 146°06' W.	323	2	0
HW0012	8 Apr	2300	240	23°00' N 142°00' W	22°30' N 145°00' W	10,000	10,000		323	1	0
HW0013	9 Apr	2310	210	31°10' N 150°23' W	21°50' N 157°10' W	10,000	10,000		323	- 4	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0014	9 Apr	0300	90	22°30' N 145°00' W	21°15' N 157°40' W	10,000	1,500	Descent on course from 22°10' N, 156°00' W.	323	8	3
HW0015	9 Apr	2310	210	31°10' N 150°23' W	21°50' N 157°10' W	10,000	10,000		323	1	0
HW0016	9 Apr	0300	90	22°30' N 145°00' W	21°15' N 157°40' W	10,000	1,500	Descent on course from 22°10' N, 156°00' W.	323	2	1
HW0017	10 Apr	1430	240	37°40' N 123°01' W	28°03' N 132°16' W	500	500		323	-2	0
HW0018	10 Apr	1445	240	37°50' N 122°38' W	37°44' N 136°42' W	500	500		323	-3	0
HW0019	10 Apr	1445	240	37°50' N 122°38' W	37°44' N 136°42' W	500	500		323	-1	0
HW0020	10 Apr	1430	240	37°40' N 123°01' W	28°03' N 132°16' W	500	500		323	2	0
HW0021	10 Apr	1830	285	28°03' N 132°16' W	23°25' N 145°20' W	500	10,000	Climb on course to 23°15' N, 136°05' W.	323	1	0
HW0022	10 Apr	1845	230	37°44' N 136°42' W	33°05' N 149°05' W	500	10,000	Spiral climb at 37°42' N, 146°06'W	323	1	0
HW0023	10 Apr	1830	285	28°03' N 132°16' W	23°25' N 145°20' W	500	10,000	Climb on course to 23°15' N, 136°05' W.	323	3	0
HW0024	10 Apr	1845	230	37°44' N 136°42' W	33°05' N 149°05' W	500	10,000	Spiral climb at 37°42'N, 146°06'W.	323	-11	0
HW0025	10 Apr	2235	225	33°05' N 149°05' W	21°50' N 158°04' W	10,000	10,000		323	- 8	0
HW0026	10 Apr	2315	180	23°25' N 145°20' W	22°35' N 155°25' W	10,000	10,000		323	5	1

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0027	10 Apr	2235	225	33°05' N 149°05' W	21°50' N 158°04' W	10,000	10,000		323	9	2
HW0028	10 Apr	2315	180	23°25' N 145°20' W	22°35' N 155°25' W	10,000	10,000		323	2	0
HW0029	15 Apr	2215	150	21°52' N 158°10' W	17°02' N 166°10' W	1,000	10,000	Climbed on course to 20°45' N, 159°03' W.	350	3	1
HW0030	15 Apr	2215	150	21°52' N 158°10' W	17°02' N 166°10' W	1,000	10,000	Climbed on course to 20°45' N, 159°03' W.	358	-6	0
HW0031	16 Apr	0045	325	17°02' N 166°10' W	21°20' N 158°05' W	10,000	10,000	Climbed on course to 35,000 ft at 14°28' N, 170°50' W, descended at 19°55' N, 159°38' W.	358	452	78
HW0032	16 Apr	0045	325	17°02' N 166°10' W	21°20' N 158°05' W	10,000	10,000	Climbed on course to 35,000 ft at 14°28' N, 170°50' W, descended at 19°55' N, 159°38' W.	350	477	83
HW0033	17 Apr	0050	180	21°15' N 159°00' W	20°00' N 169°05' W	10,000	10,000		352	3	1
HW0034	17 Apr	0050	180	21°15' N 159°00' W	20°00' N 169°05' W	10,000	10,000		352	-10	0
HW0035	17 Apr	0350	120	20°00' N 169°05' W	18°35' N 176°50' W	10,000	30,000	Climb on course to 19°45' N, 170°53' W.	352	767	300
HW0036	17 Apr	0350	120	20°00' N 169°05' W	18°35' N 176°50' W	10,000	30,000	Climb on course to 19°45' N, 170°53' W	352	100	39
HW0037	17 Apr	0550	34	18°35' N 176°50' W	18°05' N 179°10' W	30,000	30,000		352	-20	0
HW0038	17 Apr	0550	34	18°35' N 176°50' W	18°05' N 179°10' W	30,000	30,000		352	255	444
HW0039	17 Apr	0624	16	18°05' N 179°10' W	17°40' N 177°50' W	30,000	30,000		352	1314	4850

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EW0040	17 Apr	0624	16	18°05' N 179°10' W	17°40' N 177°50' W	30,000	30,000		352	2107	7792
EW0041	17 Apr	0640	33	17°40' N 177°50' W	19°30' N 177°40' W	30,000	30,000		352	2786	4996
EW0042	17 Apr	0640	33	17°40' N 177°50' W	19°30' N 177°40' W	30,000	30,000		352	3192	5724
EW0043	17 Apr	0713	180	19°30' N 177°40' W	20°45' N 165°15' W	30,000	10,000	Climb on course to 20°03' N, 169°30' W.	352	52	14
EW0044	17 Apr	0713	180	19°30' N 177°40' W	20°45' N 165°15' W	30,000	10,000	Climb on course to 20°03' N, 169°30' W.	352	438	114
EW0045	17 Apr	1013	122	20°45' N 165°15' W	21°10' N 159°00' W	10,000	10,000		352	206	64
EW0046	17 Apr	1013	122	20°45' N 165°15' W	21°10' N 159°00' W	10,000	10,000		MEASUREMENT DATA NOT RELIABLE		
EW0047	19 Apr	1750	180	21°19' N 158°05' W	11°52' N 151°54' W	1,000	30,000	Climb to 10,000 ft at 20°15' N, 157°20' W; to 30,000 ft at 15°10' N, 153°25' W.	346	82	21
EW0048	19 Apr	1750	180	21°19' N 158°05' W	11°52' N 151°54' W	1,000	30,000	Climb to 10,000 ft at 20°15' N, 157°20' W; to 30,000 ft at 15°10' N, 153°25' W.	347	5	1
EW0049	17 Apr	0030	67	21°12' N 156°43' W	21°12' N 157°10' W	10,000	10,000	Climb to 23,000 ft at 21°20' N, 155°15' W	350	363	219
EW0050	17 Apr	0030	67	21°12' N 156°43' W	21°12' N 157°10' W	10,000	10,000	Climb to 23,000 ft at 21°20' N, 155°15' W.	349	574	347
EW0051	17 Apr	0342	182	20°40' N 157°30' W	14°07' N 156°30' W	10,000	30,200	Climbed at 16°02' N, 154°12' W, turned at 14°50' N, 153°10' W.	352	20	5
EW0052	17 Apr	0342	182	20°40' N 157°30' W	14°07' N 156°30' W	10,000	30,200	Climbed at 16°02' N, 154°12' W, turned at 14°50' N, 153°10' W.	352	61	16

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
HW0053	17 Apr	0644	95	14°07' N 156°30' W	21°06' N 158°02' W	30,200	10,000	Started descent at 15°48' N, 156°55' W.	352	1334	659
HW0054	17 Apr	0644	95	14°07' N 156°30' W	21°06' N 158°02' W	30,200	10,000	Started descent at 15°48' N, 156°55' W.	MEASUREMENT DATA NOT RELIABLE		
HW0055	19 Apr	2050	85	11°52' N 151°14' W	21°19' N 158°05' W	30,000	10,000		346	198	109
HW0056	19 Apr	2050	85	11°52' N 151°14' W	21°19' N 158°05' W	30,000	10,000		347	202	112
HW0057	21 Apr	1735	180	21°00' N 157°50' W	13°35' N 152°35' W	1,500	10,000	Reached 10,000 ft at 20°27' N, 157°28' W.	358	76	16
HW0058	21 Apr	1735	180	21°00' N 157°50' W	13°35' N 152°35' W	1,500	10,000	Reached 10,000 ft at 20°27' N, 157°28' W.	341	118	25
HW0059	21 Apr	2030	60	13°35' N 152°35' W	10°47' N 150°33' W	10,000	10,000		358	67	43
HW0060	21 Apr	2030	60	13°35' N 152°35' W	10°47' N 150°33' W	10,000	10,000		341	38	25
HW0061	21 Apr	2130	36	10°47' N 150°33' W	09°14' N 149°27' W	10,000	10,000		358	795	843
HW0062	21 Apr	2130	36	10°47' N 150°33' W	09°14' N 149°27' W	10,000	10,000		341	1118	1182
HW0063	21 Apr	2206	29	09°14' N 149°27' W	09°26' N 150°48' W	10,000	10,000		358	514	677
HW0064	21 Apr	2206	29	09°14' N 149°27' W	09°26' N 150°48' W	10,000	10,000		341	521	686
HW0065	18 Apr	1113	180	20°55' N 157°50' W	13°47' N 152°40' W	6,000	30,000	Reached 10,500 ft at 20°48'N, 157° 35' W. Cont'd at 10,500 ft to 17° 45'N, 155°32'W-reached 30,000 ft at 15°00' N, 153°21' W.	339	5464	1367

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EW0066	18 Apr	1113	180	20°55' N 157°50' W	13°47' N 152°40' W	6,000	30,000	Reached 10,500 ft at 20°48'N, 157° 35' W. Cont'd at 10,500 ft to 17° 45' N, 155°32' W reached 30,000 ft 15°00' N, 153°21' W.	343	4325	1082
EW0067	18 Apr	1413	42	13°47' N 152°40' W	10°47' N 150°33' W	30,000	30,000		339	21052	29659
EW0068	18 Apr	1413	42	13°47' N 152°40' W	10°47' N 150°33' W	30,000	30,000		343	23231	32729
EW0069	18 Apr	1455	24	10°47' N 150°33' W	09°14' N 149°27' W	30,000	30,000		339	23243	57305
EW0070	18 Apr	1455	24	10°47' N 150°33' W	09°14' N 149°27' W	30,000	30,000		343	26842	66179
EW0071	18 Apr	1519	23	09°14' N 149°27' W	09°26' N 150°48' W	30,000	30,000		339	22772	58585
EW0072	18 Apr	1519	23	09°14' N 149°27' W	09°26' N 150°48' W	30,000	30,000		343	20080	51659
EW0073	18 Apr	1542	27	09°26' N 150°48' W	10°32' N 149°11' W	30,000	30,000		339	32459	71135
EW0074	18 Apr	1542	27	09°26' N 150°48' W	10°32' N 149°11' W	30,000	30,000		343	33440	73285
EW0075	18 Apr	1609	180	10°32' N 149°11' W	17°45' N 155°26' W	30,000	10,000	Descended to 10,000 ft at 13°35'N, 151°25' W.	339	11607	3027
EW0076	18 Apr	1609	180	10°32' N 149°11' W	17°45' N 155°26' W	30,000	10,000	Descended to 10,000 ft at 13°35'N, 151°25' W.	343	11467	2991
EW0077	18 Apr	1909	80	17°45' N 155°26' W	21°00' N 157°55' W	10,000	2,500		339	87	39
EW0078	18 Apr	1909	80	17°45' N 155°26' W	21°00' N 157°55' W	10,000	2,500		343	55	24

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EW0079	21 Apr	2235	45	09°26' N 150°48' W	09°25' N 149°50' W	10,000	30,000		358	2148	2241
EW0080	21 Apr	2235	45	09°26' N 150°48' W	09°25' N 149°50' W	10,000	30,000		341	2632	2746
EW0081	21 Apr	2320	20	09°25' N 149°50' W	09°40' N 150°43' W	30,000	30,000		358	163	482
EW0082	21 Apr	2320	20	09°25' N 149°50' W	09°40' N 150°43' W	30,000	30,000		341	190	562
EW0083	21 Apr	2340	25	09°40' N 150°43' W	11°48' N 152°05' W	30,000	30,000		358	643	1522
EW0084	21 Apr	2340	25	09°40' N 150°43' W	11°48' N 152°05' W	30,000	30,000		341	714	1690
EW0085	20 Apr	0145	201	21°02' N 157°47' W	10°50' N 150°35' W	5,000	30,000	10,000 ft at 20°22'N, 157°30' W to 15°30' N, 154°47' W, climbing to 30,000' to 13°30' N, 152° 30' W.	350	4602	1018
EW0086	20 Apr	0145	201	21°02' N 157°47' W	10°50' N 150°35' W	5,000	30,000	10,000 ft at 20°22'N, 157°30' W to 15°30' N, 154°47' W, climbing to 30,000 ' to 13°30' N, 152°30' W.	344	3557	787
EW0087	20 Apr	0506	14	10°50' N 150°35' W	09°12' N 149°25' W	30,000	30,000		350	429	1813
EW0088	20 Apr	0506	14	10°50' N 150°35' W	09°12' N 149°25' W	30,000	30,000		344	321	1357
EW0089	20 Apr	0520	19	09°12' N 149°25' W	09°27' N 150°48' W	30,000	30,000		350	474	1476
EW0090	20 Apr	0520	19	09°12' N 149°25' W	09°27' N 150°48' W	30,000	30,000		344	408	1271
EW0091	20 Apr	0539	23	09°27' N 150°48' W	10°35' N 149°10' W	30,000	30,000		350	1276	3283

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0092	20 Apr	0539	23	09°27' N 150°48' W	10°35' N 149°10' W	30,000	30,000		344	850	2187
HW0093	20 Apr	0602	90	10°35' N 149°10' W	15°02' N 153°20' W	30,000	10,000		350	378	197
HW0094	20 Apr	0602	90	10°35' N 149°10' W	15°02' N 153°20' W	30,000	10,000		344	227	118
HW0095	20 Apr	0732	120	15°02' N 153°20' W	20°35' N 157°32' W	10,000	10,000		350	149	47
HW0096	20 Apr	0732	120	15°02' N 153°20' W	20°35' N 157°32' W	10,000	10,000		344	120	38
HW0097	20 Apr	0005	180	11°48' N 152°05' W	20°36' N 157°38' W	30,000	2,000		358	1570	374
HW0098	20 Apr	1827	173	20°30' N 157°30' W	10°50' N 150°15' W	10,000	30,000	Climb from 17°45'N, 155°40' W to 15°00' N, 153°39' W.	344	1515	411
HW0099	20 Apr	1827	173	20°30' N 157°30' W	10°50' N 150°15' W	10,000	30,000	Climb from 17°45'N, 155°40' W to 15°00' N, 153°39' W.	344	1394	378
HW0100	20 Apr	2120	24	10°50' N 150°15' W	09°10' N 149°30' W	30,000	30,000		344	152	375
HW0101	20 Apr	2120	24	10°50' N 150°15' W	09°10' N 149°30' W	30,000	30,000		344	171	422
HW0102	20 Apr	2144	24	09°10' N 149°30' W	09°25' N 150°50' W	30,000	30,000		344	219	540
HW0103	20 Apr	2144	24	09°10' N 149°30' W	09°25' N 150°50' W	30,000	30,000		344	227	560
HW0104	20 Apr	2208	24	09°25' N 150°50' W	10°35' N 149°07' W	30,000	30,000		344	279	688

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
BW0105	20 Apr	2208	24	09°25' N 150°50' W	10°35' N 149°07' W	30,000	30,000		344	441	1087
BW0106	20 Apr	2232	180	10°35' N 149°07' W	21°20' N 157°10' W	30,000	6,000		344	727	182
BW0107	20 Apr	2232	180	10°35' N 149°07' W	21°20' N 157°10' W	30,000	6,000		344	767	192
BW0108	22 Apr	0005	180	11°48' N 152°05' W	20°36' N 157°38' W	30,000	2,000		341	2188	522
BW0109	22 Apr	1751	221	20°35' N 157°22' W	11°00' N 150°20' W	10,000	20,000	Climb to 20,000 ft at 12°52' N, 152°00' W.	357	576	110
BW0110	22 Apr	1751	221	20°35' N 157°22' W	11°00' N 150°20' W	10,000	20,000	Climb to 20,000 ft at 12°52' N, 152°00' W	353	510	97
BW0111	22 Apr	2132	24	11°00' N 150°20' W	09°10' N 149°25' W	20,000	20,000		357	373	730
BW0112	22 Apr	2132	24	11°00' N 150°20' W	09°10' N 149°25' W	20,000	20,000		353	406	798
BW0113	22 Apr	2156	23	09°10' N 149°25' W	09°30' N 150°50' W	20,000	20,000		357	573	1170
BW0114	22 Apr	2156	23	09°10' N 149°25' W	09°30' N 150°50' W	20,000	20,000		353	501	1023
BW0115	22 Apr	2219	28	09°30' N 150°50' W	10°45' N 149°10' W	20,000	20,000		357	434	728
BW0116	22 Apr	2219	28	09°30' N 150°50' W	10°45' N 149°10' W	20,000	20,000		353	486	815
BW0117	22 Apr	2247	34	10°45' N 149°10' W	10°02' N 149°25' W	20,000	30,000		357	496	764

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
HW0118	22 Apr	2247	34	10°45' N 149°10' W	10°02' N 149°25' W	20,000	30,000		353	494	761
HW0119	22 Apr	2321	12	10°02' N 149°25' W	09°12' N 149°25' W	30,000	30,000		357	70	345
HW0120	22 Apr	2321	12	10°02' N 149°25' W	09°12' N 149°25' W	30,000	30,000		357	35	173
HW0121	22 Apr	2333	21	09°12' N 149°25' W	09°30' N 150°50' W	30,000	30,000		357	122	344
HW0122	22 Apr	2333	21	09°12' N 149°25' W	09°30' N 150°50' W	30,000	30,000		353	122	344
HW0123	22 Apr	2354	22	09°30' N 150°50' W	10°35' N 149°10' W	30,000	30,000		357	21	57
HW0124	22 Apr	2354	22	09°30' N 150°50' W	10°35' N 149°10' W	30,000	30,000		353	4	11
HW0125	23 Apr	0016	170	10°35' N 149°10' W	20°00' N 157°27' W	30,000	10,000		357	653	180
HW0126	23 Apr	0016	170	10°35' N 149°10' W	20°00' N 157°27' W	30,000	10,000		353	733	202
HW0127	1 May	1735	62	21°20' N 158°08' W	18°03' N 158°50' W	100	10,000		349	5	3
HW0128	1 May	1735	62	21°20' N 158°08' W	18°03' N 158°50' W	100	10,000		354	0	0
HW0129	1 May	1837	60	18°03' N 158°50' W	14°37' N 159°52' W	10,000	10,000		MEASUREMENT DATA NOT RELIABLE		
HW0130	1 May	1837	60	18°03' N 158°50' W	14°37' N 159°52' W	10,000	10,000		349	20	13

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0131	1 May	1937	60	14°37' N 159°52' W	11°23' N 160°58' W	10,000	10,000		334	70	45
EW0132	1 May	1937	60	14°37' N 159°52' W	11°23' N 160°58' W	10,000	10,000		349	47	30
EW0133	1 May	2037	60	11°23' N 160°58' W	07°55' N 161°47' W	10,000	25,000		334	44	33
EW0134	1 May	2037	60	11°23' N 160°58' W	07°55' N 161°47' W	10,000	25,000		MEASUREMENT DATA NOT RELIABLE		
EW0135	1 May	2137	60	07°55' N 161°47' W	03°35' N 162°53' W	25,000	30,000	Climb to 30,000 at 05°50' N, 161°12' W.	334	28	26
EW0136	1 May	2137	60	07°55' N 161°47' W	03°35' N 162°53' W	25,000	30,000	Climb to 30,000 at 05°50' N, 161°12' W.	349	20	19
EW0146	1 May	2237	38	03°35' N 162°53' W	Equator 163°33' W	30,000	30,000		334	30	47
EW0147	1 May	2237	38	03°35' N 162°53' W	Equator 163°33' W	30,000	30,000		349	9	14
EW0148	1 May	2315	60	Equator 163°33' W	05°33' N 162°30' W	30,000	30,000		334	16	16
EW0149	1 May	2315	60	Equator 163°33' W	05°33' N 162°30' W	30,000	30,000		349	12	12
EW0150	2 May	0015	60	05°33' N 162°30' W	09°20' N 161°20' W	30,000	18,000		334	26	22
EW0151	2 May	0015	60	05°33' N 162°30' W	09°20' N 161°20' W	30,000	18,000		MEASUREMENT DATA NOT RELIABLE		
EW0152	2 May	0115	60	09°20' N 161°20' W	13°10' N 160°56' W	18,000	10,000	Descent to 10,000 ft at 11°45' N, 161°10' W	MEASUREMENT DATA NOT RELIABLE		

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0153	2 May	0115	60	09°20' N 161°20' W	13°10' N 160°56' W	18,000	10,000	Descent to 10,000 ft at 11°45' N, 161°10' W.	349	45	31
HW0154	2 May	0215	60	13°10' N 160°56' W	16°57' N 159°37' W	10,000	10,000		334	50	32
HW0155	2 May	0215	60	13°10' N 160°56' W	16°57' N 159°37' W	10,000	10,000		349	21	13
HW0156	2 May	0315	60	16°57' N 159°37' W	20°50' N 158°20' W	10,000	1,000	Start descent at 19°25' N, 158°55' W.	334	22	14
HW0157	2 May	0315	60	16°57' N 159°37' W	20°50' N 158°20' W	10,000	1,000	Start descent at 19°25' N, 158°55' W.	349	13	8
HW0168	3 May	1805	60	21°20' N 158°10' W	18°45' N 158°40' W	1,000	1,000		367	- 5	0
HW0169	3 May	1805	60	21°20' N 158°10' W	18°45' N 158°40' W	1,000	1,000		350	6	3
HW0170	3 May	1905	60	18°45' N 158°40' W	15°30' N 159°30' W	1,000	10,000		350	14	8
HW0171	3 May	1905	60	18°45' N 158°40' W	15°30' N 159°30' W	1,000	10,000		350	5	3
HW0172	3 May	2005	60	15°30' N 159°30' W	12°00' N 160°25' W	10,000	10,000		350	2280	1450
HW0173	3 May	2005	60	15°30' N 159°30' W	12°00' N 160°25' W	10,000	10,000		350	1842	1172
HW0174	3 May	2105	60	12°00' N 160°25' W	08°35' N 161°22' W	10,000	10,000		350	489	311
HW0175	3 May	2105	60	12°00' N 160°25' W	08°35' N 161°22' W	10,000	10,000		350	131	83

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0176	3 May	2205	60	08°35' N 161°22' W	05°00' N 162°35' W	10,000	10,000		350	198	126
HW0177	3 May	2205	60	08°35' N 161°22' W	05°00' N 162°35' W	10,000	10,000		350	168	107
HW0178	3 May	2305	60	05°00' N 162°35' W	01°30' N 163°15' W	10,000	10,000		350	175	111
HW0179	3 May	2305	60	05°00' N 162°35' W	01°30' N 163°15' W	10,000	10,000		350	159	101
HW0180	4 May	0005	52	01°30' N 163°15' W	01°30' S 164°00' W	10,000	10,000		350	22	16
HW0181	4 May	0005	52	01°30' N 163°15' W	01°30' S 164°00' W	10,000	10,000		350	21	16
HW0182	4 May	0057	60	01°30' S 164°00' W	00°20' N 163°35' W	10,000	20,000		351	15	12
HW0183	4 May	0057	60	01°30' S 164°00' W	00°20' N 163°35' W	10,000	20,000		351	3	2
HW0184	4 May	0157	60	00°20' N 163°35' W	03°40' N 163°25' W	20,000	20,000		351	38	30
HW0185	4 May	0157	60	00°20' N 163°35' W	03°40' N 163°25' W	20,000	20,000		351	11	9
HW0186	4 May	0257	60	03°40' N 163°25' W	08°45' N 161°20' W	20,000	20,000		351	165	129
HW0187	4 May	0257	60	03°40' N 163°25' W	08°45' N 161°20' W	20,000	20,000		351	102	80
HW0188	4 May	0357	60	08°45' N 161°20' W	12°37' N 160°20' W	20,000	20,000		367	10439	8168

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0189	4 May	0357	60	08°45' N 161°20' W	12°37' N 160°20' W	20,000	20,000		350	7896	6178
EW0190	4 May	0457	60	12°37' N 160°20' W	17°00' N 159°30' W	20,000	20,000		351	50	39
EW0191	4 May	0457	60	12°37' N 160°20' W	17°00' N 159°30' W	20,000	20,000		351	32	25
EW0192	4 May	0557	60	17°00' N 159°30' W	21°20' N 158°00' W	20,000	1,000	Started descent at 19°40' N, 158°30' W	351	27	17
EW0193	4 May	0557	60	17°00' N 159°30' W	21°20' N 158°00' W	20,000	1,000	Started descent at 19°40' N, 158°30' W	351	76	49
EW0194	5 May	1735	60	21°20' N 158°05' W	18°20' N 158°59' W	1,000	1,000		357	186	101
EW0195	5 May	1735	60	21°20' N 158°05' W	18°20' N 158°59' W	1,000	1,000		359	704	381
EW0196	5 May	1835	60	18°20' N 158°59' W	15°37' N 159°50' W	1,000	1,000		357	362	196
EW0197	5 May	1835	60	18°20' N 158°59' W	15°37' N 159°50' W	1,000	1,000		357	702	380
EW0198	3 May	1730	60	21°18' N 158°12' W	18°42' N 158°55' W	1,000	1,000		351	1	1
EW0199	3 May	1730	60	21°18' N 158°12' W	18°42' N 158°55' W	1,000	1,000		351	- 2	0
EW0200	3 May	1830	60	18°42' N 158°55' W	16°10' N 159°50' W	1,000	1,000		351	10	5
EW0201	3 May	1830	60	18°42' N 158°55' W	16°10' N 159°50' W	1,000	1,000		351	3	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0202	3 May	1930	60	16°10' N 159°50' W	13°37' N 160°20' W	1,000	1,000		351	- 3	0
HW0203	3 May	1930	60	16°10' N 159°50' W	13°37' N 160°20' W	1,000	1,000		351	- 2	0
HW0204	3 May	2030	60	13°37' N 160°20' W	11°05' N 160°40' W	1,000	1,000		351	1	1
HW0205	3 May	2030	60	13°37' N 160°20' W	11°05' N 160°40' W	1,000	1,000		351	64	36
HW0206	3 May	2130	60	11°05' N 160°40' W	08°25' N 161°17' W	1,000	1,000		351	147	80
HW0207	3 May	2130	60	11°05' N 160°40' W	08°25' N 161°17' W	1,000	1,000		351	39	21
HW0208	3 May	2230	60	08°25' N 161°17' W	04°50' N 162°20' W	1,000	1,000		351	14	8
HW0209	3 May	2230	60	08°25' N 161°17' W	04°50' N 162°20' W	1,000	1,000		351	8	4
HW0210	3 May	2330	60	04°50' N 162°20' W	02°07' N 163°07' W	1,000	1,000		343	27	15
HW0211	3 May	2330	60	04°50' N 162°20' W	02°07' N 163°07' W	1,000	1,000		343	17	9
HW0212	4 May	0030	60	02°07' N 163°07' W	00°14' S 163°48' W	1,000	1,000		343	19	10
HW0213	4 May	0030	60	02°07' N 163°07' W	00°14' S 163°48' W	1,000	1,000		343	10	5
HW0214	4 May	0130	60	00°14' S 163°48' W	01°30' S 164°00' W	1,000	24,000		343	39	26

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0215	4 May	0130	60	00°14' S 163°48' W	01°30' S 164°00' W	1,000	24,000		343	49	33
EW0216	4 May	0230	60	01°30' S 164°00' W	03°58' N 162°28' W	24,000	30,000		343	1209	1110
EW0217	4 May	0230	60	01°30' S 164°00' W	03°58' N 162°28' W	24,000	30,000		343	1003	918
EW0218	4 May	0330	60	03°58' N 162°28' W	07°10' N 161°40' W	30,000	30,000		343	6993	6896
EW0219	4 May	0330	60	03°58' N 162°28' W	07°10' N 161°40' W	30,000	30,000		343	5663	5582
EW0220	4 May	0430	60	07°10' N 161°40' W	11°42' N 160°25' W	30,000	30,000		351	248	245
EW0221	4 May	0430	60	07°10' N 161°40' W	11°42' N 160°25' W	30,000	30,000		343	215	212
EW0222	4 May	0530	60	11°42' N 160°25' W	16°00' N 159°28' W	30,000	30,000		343	86	85
EW0223	4 May	0530	60	11°42' N 160°25' W	16°00' N 159°28' W	30,000	30,000		343	80	79
EW0224	4 May	0630	60	16°00' N 159°28' W	20°12' N 158°23' W	30,000	10,000	Started descent at 18°05' N, 158°52' W	343	49	38
EW0225	4 May	0630	60	16°00' N 159°28' W	20°12' N 158°23' W	30,000	10,000	Started descent at 18°05' N, 158°52' W	346	53	42
EW0226	5 May	1935	60	15°37' N 159°50' W	12°50' N 160°27' W	1,000	1,000		357	146	79
EW0227	5 May	1935	60	15°37' N 159°50' W	12°50' N 160°27' W	1,000	1,000		359	158	86

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0228	5 May	2035	60	12°50' N 160°27' W	10°08' N 161°00' W	1,000	1,000		357	10	5
EW0229	5 May	2035	60	12°50' N 160°27' W	10°08' N 161°00' W	1,000	1,000		359	270	146
EW0230	5 May	2135	60	10°08' N 161°00' W	07°22' N 161°40' W	1,000	1,000		357	12	7
EW0231	5 May	2135	60	10°08' N 161°00' W	07°22' N 161°40' W	1,000	1,000		359	8	4
EW0232	5 May	2235	60	07°22' N 161°40' W	04°07' N 162°37' W	1,000	1,000		357	176	95
EW0233	5 May	2235	60	07°22' N 161°40' W	04°07' N 162°37' W	1,000	1,000		359	480	260
EW0234	5 May	2335	60	04°07' N 162°37' W	00°50' N 163°20' W	1,000	1,000		359	36	20
EW0235	5 May	2335	60	04°07' N 162°37' W	00°50' N 163°20' W	1,000	1,000		357	46	25
EW0241	2 May	1530	680	64°50' N 147°43' W	21°77' N 157°47' W	21,000	30,000		356	77	6
EW0242	2 May	1530	60	64°50' N 147°43' W	60°52' N 149°00' W	20,000	20,000		356	4	3
EW0243	2 May	1630	60	60°52' N 149°00' W	57°06' N 150°30' W	20,000	20,000		356	- 1	0
EW0244	2 May	1730	60	57°06' N 150°30' W	53°00' N 151°42' W	20,000	27,500		354	- 6	0
EW0245	2 May	1830	60	53°00' N 151°42' W	48°42' N 154°12' W	27,500	27,500		356	- 5	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0246	2 May	1930	60	48°42' N 154°12' W	44°00' N 153°30' W	27,500	30,000		354	0	0
EW0247	2 May	2030	70	44°00' N 153°30' W	40°42' N 153°00' W	30,000	30,000		354	- 6	0
EW0248	2 May	2140	50	40°42' N 153°00' W	37°00' N 152°30' W	30,000	27,000		354	1	1
EW0249	2 May	2230	60	37°00' N 152°30' W	33°06' N 152°35' W	27,000	21,000		356	-14	0
EW0250	2 May	2330	60	33°06' N 152°35' W	29°06' N 154°18' W	21,000	21,000		354	5	4
EW0251	3 May	0030	60	29°06' N 154°18' W	26°00' N 156°24' W	21,000	21,000		356	33	26
EW0252	3 May	0130	80	26°00' N 156°24' W	21°17' N 157°47' W	21,000	12,000		354	36	20
EW0253	2 May	1735	60	21°10' N 158°07' W	18°25' N 158°56' W	800	800		360	0	0
EW0254	2 May	1735	60	21°10' N 158°07' W	18°25' N 158°56' W	800	800		344	4	2
EW0255	2 May	1835	60	18°25' N 158°56' W	15°12' N 158°57' W	800	800		360	3	2
EW0256	2 May	1835	60	18°25' N 158°56' W	15°12' N 158°57' W	800	800		344	16	9
EW0257	2 May	1935	60	15°12' N 158°57' W	13°00' N 160°15' W	800	1,000		360	- 4	0
EW0258	2 May	1935	60	15°12' N 158°57' W	13°00' N 160°15' W	800	1,000		344	11	6

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
BW0259	2 May	2035	60	13°00' N 160°15' W	09°25' N 161°10' W	1,000	16,000		360	- 2	0
BW0260	2 May	2035	60	13°00' N 160°15' W	09°25' N 161°10' W	1,000	16,000		344	44	27
BW0261	2 May	2135	60	09°25' N 161°10' W	05°50' N 162°20' W	16,000	30,000		360	194	163
BW0262	2 May	2135	60	09°25' N 161°10' W	05°50' N 162°20' W	16,000	30,000		344	313	262
BW0263	2 May	2235	60	05°50' N 162°20' W	01°20' N 163°12' W	30,000	30,000		344	104	103
BW0264	2 May	2235	60	05°50' N 162°20' W	01°20' N 163°12' W	30,000	30,000		360	85	84
BW0265	2 May	2335	30	01°20' N 163°12' W	01°45' S 164°02' W	30,000	30,000		344	- 3	0
BW0266	2 May	2335	30	01°20' N 163°12' W	01°45' S 164°02' W	30,000	30,000		360	-11	0
BW0267	3 May	0005	60	01°45' S 164°02' W	03°50' N 163°05' W	30,000	30,000		344	50	49
BW0268	3 May	0005	60	01°45' S 164°02' W	03°50' N 163°05' W	30,000	30,000		360	19	19
BW0269	3 May	0105	60	03°50' N 163°05' W	07°05' N 162°25' W	30,000	12,000		340	172	138
BW0270	3 May	0105	60	03°50' N 163°05' W	07°05' N 162°25' W	30,000	12,000		360	25	20
BW0271	3 May	0205	60	07°05' N 162°25' W	10°40' N 161°20' W	12,000	2,000		344	50	30

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
HW0272	3 May	0205	60	07°05' N 162°25' W	10°40' N 161°20' W	12,000	2,000		360	26	16
HW0273	3 May	0305	60	10°40' N 161°20' W	13°40' N 160°15' W	2,000	1,200		344	17	9
HW0274	3 May	0305	60	10°40' N 161°20' W	13°40' N 160°15' W	2,000	1,200		360	- 6	0
HW0275	3 May	0405	60	13°40' N 160°15' W	16°35' N 159°30' W	1,200	1,000		344	0	0
HW0276	3 May	0405	60	13°40' N 160°15' W	16°35' N 159°30' W	1,200	1,000		360	- 3	0
HW0277	3 May	0505	60	16°35' N 159°30' W	20°45' N 158°06' W	1,000	1,000		344	18	10
HW0278	3 May	0505	60	16°35' N 159°30' W	20°45' N 158°06' W	1,000	1,000		360	15	8
HW0279	2 May	1220	180	37°42' N 123°00' W	37°45' N 133°00' W	500	500		340	36	7
HW0280	2 May	1520	180	37°45' N 133°00' W	37°45' N 142°00' W	500	500		340	10	2
HW0281	2 May	1820	180	37°45' N 142°00' W	33°45' N 149°00' W	500	10,000	Climb on course to 37°45' N, 146°06' W.	340	22	4
HW0282	2 May	2120	180	33°45' N 149°00' W	21°45' N 157°48' W	10,000	10,000		360	24	5
HW0283	3 May	0200	60	10°15' N 167°45' E	13°50' N 167°45' E	12,000	12,000		344	368,910	243,988
HW0284	3 May	0300	60	13°50' N 167°45' E	14°10' N 171°10' E	12,000	12,000		360	1,222,833	808,752

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0285	3 May	0400	60	14°10' N 171°10' E	14°15' N 174°30' E	12,000	12,000		344	5,085	3,363
HW0286	3 May	0500	60	14°15' N 174°30' E	13°45' N 178°30' E	12,000	Unknown	No climb data recorded	344	1,562	1,033
HW0287	3 May	0600	60	13°45' N 178°30' E	14°50' N 177°20' W	Unknown	15,000	No climb data recorded	360	1,327	929
HW0288	3 May	0700	60	14°50' N 177°20' W	14°55' N 173°50' W	15,000	15,000		360	1,253	879
HW0289	3 May	0800	60	14°55' N 173°50' W	15°00' N 169°40' W	15,000	15,000		360	935	655
HW0290	3 May	0900	60	15°00' N 169°40' W	15°00' N 165°50' W	15,000	15,000		344	569	401
HW0291	3 May	1000	60	15°00' N 165°50' W	15°25' N 163°15' W	15,000	15,000		360	630	441
HW0292	3 May	1100	60	15°25' N 163°15' W	18°20' N 160°12' W	15,000	15,000		360	419	293
HW0293	3 May	1200	60	18°20' N 160°12' W	21°00' N 157°00' W	15,000	15,000		344	1,756	1,230
HW0294	4 May	1735	60	21°10' N 158°00' W	18°30' N 158°45' W	1,000	1,000		351	8	4
HW0295	4 May	1835	60	18°30' N 158°45' W	15°55' N 159°35' W	1,000	1,000		343	233	126
HW0296	4 May	1835	60	18°30' N 158°45' W	15°55' N 159°35' W	1,000	1,000		351	20	11
HW0297	4 May	1935	60	15°55' N 159°35' W	13°20' N 160°10' W	1,000	1,000		343	320	173

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0298	4 May	1935	60	15°55' N 159°35' W	13°20' N 160°10' W	1,000	1,000		351	356	193
EW0299	4 May	2035	60	13°20' N 160°10' W	10°45' N 160°55' W	1,000	1,000		343	10	5
EW0300	4 May	2035	60	13°20' N 160°10' W	10°45' N 160°55' W	1,000	1,000		351	17	9
EW0301	4 May	2135	60	10°45' N 160°55' W	07°55' N 161°40' W	1,000	1,000		343	16	9
EW0302	4 May	2135	60	10°45' N 160°55' W	07°55' N 161°40' W	1,000	1,000		351	27	15
EW0303	4 May	2235	60	07°55' N 161°40' W	05°07' N 162°25' W	1,000	1,000		343	24	13
EW0304	4 May	2235	60	07°55' N 161°40' W	05°07' N 162°25' W	1,000	1,000		351	15	8
EW0305	4 May	2335	60	05°07' N 162°25' W	02°12' N 163°05' W	1,000	1,000		MEASUREMENT DATA NOT RELIABLE		
EW0306	4 May	2335	60	05°07' N 162°25' W	02°12' N 163°05' W	1,000	1,000		351	60	33
EW0307	5 May	0035	60	02°12' N 163°05' W	00°40' S 163°55' W	1,000	1,000		343	155	84
EW0308	5 May	0035	60	02°12' N 163°05' W	00°40' S 163°55' W	1,000	1,000		351	276	149
EW0309	5 May	0135	60	00°40' S 163°55' W	00°25' N 163°30' W	1,000	10,000		343	34	19
EW0310	5 May	0135	60	00°40' S 163°55' W	00°25' N 163°30' W	1,000	10,000		351	20	12

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0311	5 May	0235	60	00°25' N 163°30' W	03°15' N 162°47' W	10,000	10,000		343	55	35
HW0312	5 May	0235	60	00°25' N 163°30' W	03°15' N 162°47' W	10,000	10,000		351	45	29
HW0313	5 May	0335	60	03°15' N 162°47' W	06°10' N 162°10' W	10,000	10,000		343	594	378
HW0314	5 May	0335	60	03°15' N 162°47' W	06°10' N 162°10' W	10,000	10,000		351	253	161
HW0315	5 May	0435	60	06°10' N 162°10' W	09°30' N 161°00' W	10,000	10,000		343	289	184
HW0316	5 May	0435	60	06°10' N 162°10' W	09°30' N 161°00' W	10,000	10,000		351	630	401
HW0317	5 May	0535	60	09°30' N 161°00' W	12°30' N 160°20' W	10,000	10,000		343	1,852	1,178
HW0318	5 May	0535	60	09°30' N 161°00' W	12°30' N 160°20' W	10,000	10,000		351	1,465	932
HW0319	5 May	0635	60	12°30' N 160°20' W	16°00' N 159°15' W	10,000	10,000		343	71	45
HW0320	5 May	0635	60	12°30' N 160°20' W	16°00' N 159°15' W	10,000	10,000		351	45	29
HW0321	5 May	0735	60	16°00' N 159°15' W	19°15' N 158°25' W	10,000	10,000		343	574	365
HW0322	5 May	0735	60	16°00' N 159°15' W	19°15' N 158°25' W	10,000	10,000		343	419	267
HW0323	4 May	1745	60	20°30' N 158°13' W	18°05' N 158°55' W	1,000	1,000		351	4	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0324	4 May	1745	60	20°30' N 158°13' W	18°05' N 158°55' W	1,000	1,000		351	93	50
HW0325	4 May	1845	60	18°05' N 158°55' W	14°40' N 159°58' W	1,000	10,000	Climb at 16°55' N, 159°12' W	351	23	13
HW0326	4 May	1845	60	18°05' N 158°55' W	14°40' N 159°58' W	1,000	10,000	Climb at 16°55' N, 159°12' W.	351	20	12
HW0327	4 May	1945	60	14°40' N 159°58' W	11°05' N 160°50' W	10,000	10,000		351	1,507	959
HW0328	4 May	1945	60	14°40' N 159°58' W	11°05' N 160°50' W	10,000	10,000		351	1,846	1,174
HW0329	4 May	2045	60	11°05' N 160°50' W	08°05' N 161°50' W	10,000	10,000		351	587	373
HW0330	4 May	2045	60	11°05' N 160°50' W	08°05' N 161°50' W	10,000	10,000		351	330	210
HW0331	4 May	2145	60	08°05' N 161°50' W	04°45' N 162°35' W	10,000	10,000		351	739	470
HW0332	4 May	2145	60	08°05' N 161°50' W	04°45' N 162°35' W	10,000	10,000		351	565	359
HW0333	4 May	2245	60	04°45' N 162°35' W	01°05' N 163°27' W	10,000	10,000		351	476	303
HW0334	4 May	2245	60	04°45' N 162°35' W	01°05' N 163°27' W	10,000	10,000		351	783	498
HW0335	4 May	2345	45	01°05' N 163°27' W	01°30' S 163°56' W	10,000	10,000		351	94	80
HW0336	4 May	2345	45	01°05' N 163°27' W	01°30' S 163°56' W	10,000	10,000		351	119	101

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0337	5 May	0030	60	01°30' S 163°56' W	03°15' N 163°20' W	10,000	20,000	Climb on course to 20,000 ft at 01°25' S, 163°56' W	351	38	27
EW0338	5 May	0030	60	01°30' S 163°56' W	03°15' N 163°20' W	10,000	20,000	Climb on course to 20,000 ft at 01°25' S, 163°56' W	351	128	90
EW0339	5 May	0130	60	03°15' N 163°20' W	06°00' N 162°31' W	20,000	20,000		351	3,091	2,423
EW0340	5 May	0130	60	03°15' N 163°20' W	06°00' N 162°31' W	20,000	20,000		351	3,057	2,392
EW0341	5 May	0230	60	06°00' N 162°31' W	10°25' N 161°15' W	20,000	30,000	Climb on course from 06°00' N, 162°20' W to 07°25' N, 162°05' W.	351	774	675
EW0342	5 May	0230	60	06°00' N 162°31' W	10°25' N 161°15' W	20,000	30,000	Climb on course from 06°00' N, 162°20' W to 07°25' N, 162°05' W.	351	1,138	993
EW0343	5 May	0330	60	10°25' N 161°15' W	14°35' N 160°02' W	30,000	30,000		351	1,711	1,687
EW0344	5 May	0330	60	10°25' N 161°15' W	14°35' N 160°02' W	30,000	30,000		351	2,113	2,084
EW0345	5 May	0430	60	14°35' N 160°02' W	18°17' N 158°30' W	30,000	30,000		351	1,453	1,433
EW0346	5 May	0430	60	14°35' N 160°02' W	18°17' N 158°30' W	30,000	30,000		351	1,610	1,588
EW0347	6 May	1848	60	21°10' N 158°05' W	18°30' N 158°45' W	1,000	1,000		355	102	55
EW0348	6 May	1848	60	21°10' N 158°05' W	18°30' N 158°45' W	1,000	1,000		354	215	116
EW0349	6 May	1948	60	18°30' N 158°45' W	15°50' N 159°30' W	1,000	1,000		355	324	175

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0350	6 May	1948	60	18°30' N 158°45' W	15°50' N 159°30' W	1,000	1,000		354	710	384
HW0351	6 May	2048	60	15°50' N 159°30' W	12°40' N 160°55' W	1,000	1,000		355	49	27
HW0352	6 May	2048	60	15°50' N 159°30' W	12°40' N 160°55' W	1,000	1,000		354	52	28
HW0353	5 May	0030	60	21°00' N 157°00' W	18°40' N 156°30' W	1,000	20,000		343	3,097	2,423
HW0354	5 May	0030	60	21°00' N 157°00' W	18°40' N 156°30' W	1,000	20,000		343	2,640	2,066
HW0355	5 May	0130	60	18°40' N 156°30' W	15°30' N 154°30' W	20,000	20,000		343	698	548
HW0356	5 May	0130	60	18°40' N 156°30' W	15°30' N 154°30' W	20,000	20,000		343	391	306
HW0357	5 May	0230	60	15°30' N 154°30' W	13°20' N 158°00' W	20,000	20,000		343	665	520
HW0358	5 May	0230	60	15°30' N 154°30' W	13°20' N 158°00' W	20,000	20,000		343	289	225
HW0359	5 May	0330	60	13°20' N 158°00' W	17°00' N 158°00' W	20,000	20,000		343	577	452
HW0360	5 May	0330	60	13°20' N 158°00' W	17°00' N 158°00' W	20,000	20,000		343	839	653
HW0361	5 May	0430	60	17°00' N 158°00' W	21°00' N 157°00' W	20,000	20,000		343	2,239	1,750
HW0362	5 May	0430	60	17°00' N 158°00' W	21°00' N 157°00' W	20,000	20,000		343	709	553

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
EW0363	6 May	0030	50	00°50' N 163°20' W	01°30' S 164°00' W	1,000	1,000		357	820	533
EW0364	6 May	0030	50	00°50' N 163°20' W	01°30' S 164°00' W	1,000	1,000		359	305	198
EW0365	6 May	0125	35	01°30' S 164°00' W	00°48' S 163°30' W	1,000	20,000		357	452	497
EW0366	6 May	0125	35	01°30' S 164°00' W	00°48' S 163°30' W	1,000	20,000		359	274	301
EW0367	6 May	0200	60	00°48' S 163°30' W	03°00' N 163°07' W	20,000	20,000		357	743	581
EW0368	6 May	0200	60	00°48' S 163°30' W	03°00' N 163°07' W	20,000	20,000		359	531	416
EW0369	6 May	0300	60	03°00' N 163°07' W	06°25' N 162°22' W	20,000	20,000		357	2,357	1,844
EW0370	6 May	0300	60	03°00' N 163°07' W	06°25' N 162°22' W	20,000	20,000		359	2,764	2,163
EW0371	6 May	0400	60	06°25' N 162°22' W	10°42' N 161°18' W	20,000	20,000		357	77	60
EW0372	6 May	0400	60	06°25' N 162°22' W	10°42' N 161°18' W	20,000	20,000		359	103	81
EW0373	6 May	0500	60	10°42' N 161°18' W	14°12' N 160°28' W	20,000	20,000		357	107	84
EW0374	6 May	0500	60	10°42' N 161°18' W	14°12' N 160°28' W	20,000	20,000		359	88	69
EW0375	6 May	0600	60	14°12' N 160°28' W	18°30' N 158°52' W	20,000	20,000		357	13,074	10,229

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0376	6 May	0600	60	14°12' N 160°28' W	18°30' N 158°52' W	20,000	20,000		359	11,760	9,201
HW0377	6 May	0700	55	18°30' N 158°52' W	21°20' N 158°52' W	20,000	1,000	Started descent at 19°42' N, 158°30' W	357	1,769	1,237
HW0378	6 May	0700	55	18°30' N 158°52' W	21°20' N 158°52' W	20,000	1,000	Started descent at 19°42' N, 158°30' W	359	945	661
HW0379	7 May	1740	60	21°20' N 158°00' W	18°20' N 158°58' W	1,000	1,000		351	390	212
HW0380	7 May	1740	60	21°20' N 158°00' W	18°20' N 158°58' W	1,000	1,000		350	513	278
HW0381	7 May	1840	60	18°20' N 158°58' W	15°30' N 159°35' W	1,000	1,000		350	5	2
HW0382	7 May	1840	60	18°20' N 158°58' W	15°30' N 159°35' W	1,000	1,000		359	9	5
HW0383	3 May	1525	823	64°50' N 147°51' W	22°10' N 158°10' W	2,800	10,000	Climbed on course to 11,500 ft to 64°06' N, 148°25' W. Descended to 62°01' N, 149°14' W.	367	55	3
HW0384	3 May	1525	35	64°50' N 147°51' W	63°10' N 148°35' W	2,800	10,600	Climbed on course to 11,500 ft to 64°06' N, 148°25' W. Descended on course.	367	- 15	0
HW0385	3 May	1600	60	63°10' N 148°35' W	60°02' N 150°32' W	10,600	10,000	Descent on course at 62°01' N, 149°14' W.	351	1	1
HW0386	3 May	1700	60	60°02' N 148°35' W	56°59' N 152°26' W	10,000	10,000		367	- 19	0
HW0387	3 May	1800	60	56°59' N 152°26' W	54°00' N 154°48' W	10,000	10,000		351	3	2
HW0388	3 May	1900	60	54°00' N 154°48' W	50°20' N 155°25' W	10,000	10,000		367	- 16	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0389	3 May	2000	60	50°20' N 155°25' W	47°50' N 154°45' W	10,000	10,000		351	- 3	0
EW0390	3 May	2100	60	47°50' N 154°45' W	44°30' N 155°18' W	10,000	10,000		367	- 12	0
EW0391	3 May	2200	60	44°30' N 155°18' W	41°06' N 155°54' W	10,000	10,000		351	- 5	0
EW0392	3 May	2300	60	41°06' N 155°54' W	37°54' N 156°10' W	10,000	10,000		367	- 8	0
EW0393	4 May	0000	60	37°54' N 156°10' W	35°05' N 156°22' W	10,000	10,000		351	13	8
EW0394	4 May	0100	60	35°05' N 156°22' W	32°12' N 157°35' W	10,000	10,000		367	- 5	0
EW0395	4 May	0200	60	32°12' N 157°35' W	29°04' N 158°22' W	10,000	10,000		351	3	2
EW0396	4 May	0300	60	29°04' N 158°22' W	26°21' N 158°22' W	10,000	10,000		367	8	5
EW0397	4 May	0400	68	26°21' N 158°22' W	22°10' N 158°10' W	10,000	10,000		351	56	31
EW0398	4 May	1540	80	64°46' N 147°40' W	60°10' N 149°25' W	25,000	25,000		351	7	5
EW0399	4 May	1700	60	60°10' N 149°25' W	56°40' N 149°05' W	25,000	29,000		351	21	19
EW0400	4 May	1800	60	56°40' N 149°05' W	53°04' N 150°40' W	29,000	21,000	Descent on course at 54°54' N, 150°00' W	351	5	4
EW0401	4 May	1900	60	53°04' N 150°40' W	49°50' N 151°51' W	21,000	21,000		351	10	8

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0402	4 May	2000	60	49°50' N 151°51' W	46°33' N 152°35' W	21,000	21,000		343	6	5
EW0403	4 May	2100	60	46°33' N 152°35' W	43°45' N 153°10' W	21,000	21,000		343	14	11
EW0404	4 May	2200	71	43°45' N 153°10' W	40°17' N 153°05' W	20,000	20,000		343	13	9
EW0405	4 May	2311	49	40°17' N 153°05' W	37°15' N 153°50' W	19,500	19,500		343	8	8
EW0406	5 May	0000	60	37°15' N 153°50' W	33°50' N 151°10' W	20,400	20,400		343	10	8
EW0407	5 May	0100	60	33°50' N 151°10' W	30°55' N 153°55' W	20,000	20,000		343	19	15
EW0408	5 May	0200	60	30°55' N 153°55' W	28°05' N 156°35' W	20,000	20,000		343	55	42
EW0409	5 May	0300	165	28°05' N 156°35' W	21°15' N 157°50' W	20,000	1,000	Descant on ccurse	343	1,406	325
EW0410	7 May	0648	60	11°00' N 160°35' W	15°00' N 159°20' W	30,000	30,000		354	108	107
EW0411	7 May	0648	60	11°00' N 160°35' W	15°00' N 159°20' W	30,000	30,000		355	138	136
EW0412	7 May	0748	60	15°00' N 159°20' W	18°20' N 158°20' W	30,000	5,000	Start descent at 18°06' N, 158°18' W	355	4,518	3,347
EW0413	7 May	0748	60	15°00' N 159°20' W	18°20' N 158°20' W	30,000	5,000	Start descent at 18°06' N, 158°18' W	354	13,178	9,762
EW0421	7 May	1940	60	15°30' N 159°35' W	12°30' N 160°30' W	1,000	1,000		350	34	18

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0422	7 May	1940	60	15°30' N 159°35' W	12°30' N 160°30' W	1,000	1,000		353	23	12
EW0423	7 May	2040	60	12°30' N 160°30' W	09°30' N 161°15' W	1,000	1,000		350	30	16
EW0424	7 May	2040	60	12°30' N 160°30' W	09°30' N 161°15' W	1,000	1,000		350	22	12
EW0425	7 May	2140	60	09°30' N 161°15' W	06°00' N 162°10' W	1,000	1,000		350	23	12
EW0426	7 May	2140	60	09°30' N 161°15' W	06°00' N 162°10' W	1,000	1,000		350	138	75
EW0427	7 May	2240	60	06°00' N 162°10' W	03°00' N 162°50' W	1,000	1,000		350	22	12
EW0428	7 May	2240	60	06°00' N 162°10' W	03°00' N 162°50' W	1,000	1,000		350	34	18
EW0429	7 May	2340	60	03°00' N 162°50' W	00°20' S 163°35' W	1,000	1,000		350	7	4
EW0430	7 May	2340	60	03°00' N 162°50' W	00°20' S 163°35' W	1,000	1,000		350	- 15	0
EW0431	8 May	0040	22	00°20' S 163°35' W	01°30' S 164°00' W	1,000	1,000		350	13	19
EW0432	8 May	0040	22	00°20' S 163°35' W	01°30' S 164°00' W	1,000	1,000		350	2	3
EW0433	8 May	0102	60	01°30' S 164°00' W	01°00' N 164°00' W	1,000	30,000		350	264	187
EW0434	8 May	0102	60	01°30' S 164°00' W	01°00' N 164°00' W	1,000	30,000		350	91	65

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0435	8 May	0202	60	01°00' N 164°00' W	05°06' N 162°51' W	30,000	30,000		350	173	171
HW0436	8 May	0202	60	01°00' N 164°00' W	05°06' N 162°51' W	30,000	30,000		350	192	189
HW0437	8 May	0302	60	05°06' N 162°51' W	11°00' N 161°51' W	30,000	30,000		350	43	42
HW0438	8 May	0302	60	05°06' N 162°51' W	11°00' N 161°51' W	30,000	30,000		350	40	39
HW0439	8 May	0402	60	11°00' N 161°51' W	14°45' N 159°30' W	30,000	30,000		350	36	36
HW0440	8 May	0402	60	11°00' N 161°51' W	14°45' N 159°30' W	30,000	30,000		350	55	54
HW0441	8 May	0502	60	14°45' N 159°30' W	18°50' N 158°15' W	30,000	14,000		350	428	350
HW0442	8 May	0502	60	14°45' N 159°30' W	18°50' N 158°15' W	30,000	14,000		350	437	357
HW0443	8 May	0602	35	18°50' N 158°15' W	21°20' N 158°15' W	14,000	1,000		350	19	20
HW0444	8 May	0602	35	18°50' N 158°15' W	21°20' N 158°15' W	14,000	1,000		350	15	16
HW0461	6 May	2148	60	12°40' N 160°55' W	09°55' N 161°25' W	1,000	1,000		354	17	9
HW0462	6 May	2148	60	12°40' N 160°55' W	09°55' N 161°25' W	1,000	1,000		355	5	3
HW0463	6 May	2248	60	09°55' N 161°25' W	07°10' N 162°05' W	1,000	1,000		354	278	150

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0464	6 May	2243	60	09°55' N 161°25' W	07°10' N 162°05' W	1,000	1,000		355	99	54
HW0465	6 May	2348	60	07°10' N 162°05' W	04°20' N 162°20' W	1,000	1,000		354	279	151
HW0466	6 May	2348	60	07°10' N 162°05' W	04°20' N 162°20' W	1,000	1,000		355	26	14
HW0467	7 May	0048	60	04°20' N 162°20' W	01°10' N 163°00' W	1,000	1,000		354	19	10
HW0468	7 May	0048	60	04°20' N 162°20' W	01°10' N 163°00' W	1,000	1,000		355	3	2
HW0469	7 May	0148	60	01°10' N 163°00' W	01°30' S 163°50' W	1,000	1,000		354	34	18
HW0470	7 May	0148	60	01°10' N 163°00' W	01°30' S 163°50' W	1,000	1,000		355	7	4
HW0471	7 May	0248	60	01°30' S 163°50' W	00°15' N 163°50' W	1,000	30,000		354	1,162	824
HW0472	7 May	0248	60	01°30' S 163°50' W	00°15' N 163°50' W	1,000	30,000		355	1,078	765
HW0473	7 May	0348	60	00°15' N 163°50' W	02°50' N 163°05' W	30,000	30,000		354	1,303	1,285
HW0474	7 May	0348	60	00°15' N 163°50' W	02°50' N 163°05' W	30,000	30,000		355	1,062	1,047
HW0475	7 May	0448	60	02°50' N 163°05' W	07°20' N 161°40' W	30,000	30,000		354	681	672
HW0476	7 May	0448	60	02°50' N 163°05' W	07°20' N 161°40' W	30,000	30,000		355	295	291

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0477	7 May	0548	60	07°20' N 161°40' W	11°00' N 160°35' W	30,000	30,000		355	145	143
HW0478	7 May	0548	60	07°20' N 161°40' W	11°00' N 160°35' W	30,000	30,000		354	166	164
HW0479	14 May	1450	120	37°43' N 123°00' W	37°45' N 129°50' W	500	500		MEASUREMENT DATA NOT RELIABLE		
HW0480	14 May	1650	120	37°45' N 129°50' W	37°50' N 137°00' W	500	500		MEASUREMENT DATA NOT RELIABLE		
HW0481	14 May	1850	120	37°50' N 137°00' W	36°40' N 144°45' W	500	500		MEASUREMENT DATA NOT RELIABLE		
HW0482	14 May	2050	120	36°40' N 144°45' W	32°00' N 148°00' W	500	10,000		MEASUREMENT DATA NOT RELIABLE		
HW0483	14 May	2250	120	32°00' N 148°00' W	27°30' N 152°30' W	10,000	10,000		MEASUREMENT DATA NOT RELIABLE		
HW0484	15 May	0050	120	27°30' N 152°30' W	22°50' N 157°10' W	10,000	10,000		350	1,383	440
HW0485	14 May	1600	55	38°10' N 122°15' W	36°45' N 125°15' W	2,000	21,000		350	549	391
HW0486	14 May	1655	125	36°45' N 125°15' W	33°50' N 132°00' W	21,000	21,000		350	3,272	1,259
HW0487	14 May	1900	105	33°50' N 132°00' W	31°00' N 137°30' W	21,000	11,000		MEASUREMENT DATA NOT RELIABLE		
HW0488	14 May	2045	120	31°00' N 137°30' W	28°25' N 143°15' W	11,000	11,000		360	863	280
HW0489	14 May	2245	120	28°25' N 143°15' W	24°50' N 150°20' W	11,000	11,000		350	287	93

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0490	15 May	0045	80	24°50' N 150°20' W	22°30' N 155°00' W	11,000	11,000		360	394	192
HW0491	15 May	0205	55	22°30' N 155°00' W	21°00' N 158°00' W	11,000	1,000		MEASUREMENT DATA NOT RELIABLE		
HW0492	14 May	2010	120	38°10' N 122°00' W	35°30' N 129°20' W	2,000	11,000	Climb to 20,000 ft Start descent at 37°23' N, 124°00' W	360	1,602	524
HW0493	14 May	2210	120	35°30' N 129°20' W	32°02' N 135°40' W	11,000	11,000		350	543	176
HW0494	15 May	0010	120	32°02' N 135°40' W	29°00' N 142°00' W	11,000	11,000		350	452	147
HW0495	15 May	0210	120	29°00' N 142°00' W	26°00' N 148°10' W	11,000	11,000		350	455	148
HW0496	15 May	0410	120	26°00' N 148°10' W	23°00' N 154°30' W	11,000	11,000		350	1,175	381
HW0497	15 May	0610	65	23°00' N 154°30' W	21°30' N 158°00' W	11,000	11,000		360	442	265
HW0498	15 May	1755	60	21°20' N 158°05' W	18°00' N 158°52' W	400	11,000	Started climb at 19°50' N, 158°22' W	340	591	348
HW0499	15 May	1755	60	21°20' N 158°05' W	18°00' N 158°52' W	400	11,000	Started climb at 19°50' N, 158°22' W	347	358	211
HW0500	15 May	1855	60	18°00' N 158°52' W	14°22' N 160°00' W	11,000	11,000		342	336	218
HW0501	15 May	1855	60	18°00' N 158°52' W	14°22' N 160°00' W	11,000	11,000		342	476	309
HW0502	15 May	1955	60	14°22' N 160°00' W	11°18' N 160°58' W	11,000	11,000		347	563	365

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0503	15 May	1955	60	14°22' N 160°00' W	11°18' N 160°58' W	11,000	11,000		342	292	189
HW0504	15 May	2055	60	11°18' N 160°58' W	07°35' N 161°14' W	11,000	11,000		347	271	176
HW0505	15 May	2055	60	11°18' N 160°58' W	07°35' N 161°14' W	11,000	11,000		340	392	254
HW0506	15 May	2155	60	07°35' N 161°14' W	04°30' N 162°40' W	11,000	11,000		340	681	442
HW0507	15 May	2155	60	07°35' N 161°14' W	04°30' N 162°40' W	11,000	11,000		342	409	265
HW0508	15 May	2255	60	04°30' N 162°40' W	00°31' N 163°16' W	11,000	11,000		342	120	78
HW0509	15 May	2255	60	04°30' N 162°40' W	00°31' N 163°16' W	11,000	11,000		347	213	138
HW0510	15 May	2355	35	00°31' N 163°16' W	01°25' S 163°58' W	11,000	11,000		342	63	70
HW0511	15 May	2355	35	00°31' N 163°16' W	01°25' S 163°58' W	11,000	11,000		340	135	150
HW0512	16 May	0030	15	01°25' S 163°58' W	01°00' S 164°02' W	11,000	21,000		347	- 17	0
HW0513	16 May	0030	15	01°25' S 163°58' W	01°00' S 164°02' W	11,000	21,000		342	- 13	0
HW0514	16 May	0045	60	01°00' S 164°02' W	03°12' N 163°08' W	21,000	21,000		347	3	2
HW0515	16 May	0045	60	01°00' S 164°02' W	03°12' N 163°08' W	21,000	21,000		342	3	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0516	16 May	0145	60	03°12' N 163°08' W	06°42' N 161°55' W	21,000	21,000		347	307	246
HW0517	16 May	0145	60	03°12' N 163°08' W	06°42' N 161°55' W	21,000	21,000		345	410	329
HW0518	16 May	0245	60	06°42' N 161°55' W	10°48' N 160°40' W	21,000	21,000		345	53	43
HW0519	16 May	0245	60	06°42' N 161°55' W	10°48' N 160°40' W	21,000	21,000		345	21	17
HW0520	16 May	0345	70	10°48' N 160°40' W	15°02' N 159°23' W	21,000	21,000		355	65	52
HW0521	16 May	0345	70	10°48' N 160°40' W	15°02' N 159°23' W	21,000	21,000		340	69	55
HW0522	16 May	0455	60	15°02' N 159°23' W	19°42' N 158°38' W	21,000	16,000	Start descent at 18°05' N, 158°58' W	340	163	124
HW0523	16 May	0455	60	15°02' N 159°23' W	19°42' N 158°38' W	21,000	16,000	Start descent at 18°05' N, 158°58' W	340	224	170
HW0524	15 May	1553	67	64°49' N 147°35' W	61°20' N 149°25' W	3,000	1,000		345	- 13	0
HW0525	15 May	1700	60	61°20' N 149°25' W	58°13' N 151°24' W	1,000	1,000		347	0	0
HW0526	15 May	1800	60	58°13' N 151°24' W	55°20' N 152°10' W	1,000	1,000		345	1	1
HW0527	15 May	1900	60	55°20' N 152°10' W	52°31' N 152°31' W	1,000	1,000		347	- 15	0
HW0528	15 May	2000	60	52°31' N 152°31' W	49°27' N 153°18' W	1,000	1,000		345	2	1

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0529	15 May	2100	60	49°27' N 153°18' W	46°20' N 154°15' W	1,000	1,000		345	2	1
EW0530	15 May	2200	60	46°20' N 154°15' W	43°18' N 155°00' W	1,000	1,000		343	1	1
EW0531	15 May	2300	60	43°18' N 155°00' W	40°13' N 155°34' W	1,000	1,000		345	5	3
EW0532	16 May	0000	60	40°13' N 155°34' W	37°15' N 155°30' W	1,000	1,000		345	10	5
EW0533	16 May	0100	60	37°15' N 155°30' W	34°10' N 156°07' W	1,000	1,000		345	2	1
EW0534	16 May	0200	60	34°10' N 156°07' W	31°02' N 156°53' W	1,000	1,000		345	- 7	0
EW0535	16 May	0300	60	31°02' N 156°53' W	27°33' N 158°07' W	1,000	1,000		345	- 6	0
EW0536	16 May	0400	60	27°33' N 158°07' W	24°18' N 158°20' W	1,000	1,000		345	- 3	0
EW0537	16 May	0500	60	24°18' N 158°20' W	21°18' N 158°05' W	1,000	1,000		345	34	18
EW0538	15 May	1553	847	64°49' N 147°35' W	21°17' N 158°05' W	3,000	1,000	Reached 1,000 ft at 61°20' N, 149°25' W	345	46	2
EW0540	17 May	0500	50	08°00' N 161°30' W	12°30' N 160°00' W	30,000	30,000		354	12,413	14,690
EW0541	16 May	2135	60	21°20' N 158°00' W	17°30' N 158°45' W	1,000	11,000		354	1,021	604
EW0542	16 May	2135	60	21°20' N 158°00' W	17°30' N 158°45' W	1,000	11,000		346	603	356

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0543	16 May	2235	60	17°30' N 158°45' W	14°00' N 159°45' W	11,000	11,000		354	357	232
HW0544	16 May	2235	60	17°30' N 158°45' W	14°00' N 159°45' W	11,000	11,000		346	490	318
HW0545	16 May	2335	60	14°00' N 159°45' W	11°00' N 161°00' W	11,000	11,000		354	458	297
HW0546	16 May	2335	60	14°00' N 159°45' W	11°00' N 161°00' W	11,000	11,000		346	660	428
HW0547	17 May	0035	60	11°00' N 161°00' W	07°30' N 161°30' W	11,000	11,000		345	170	110
HW0548	17 May	0035	60	11°00' N 161°00' W	07°30' N 161°30' W	11,000	11,000		354	98	64
HW0549	17 May	0135	60	07°30' N 161°30' W	04°00' N 162°45' W	11,000	11,000		354	140	91
HW0550	17 May	0135	60	07°30' N 161°30' W	04°00' N 162°45' W	11,000	11,000		354	116	75
HW0551	17 May	0235	57	04°00' N 162°45' W	01°00' N 163°50' W	11,000	11,000		354	107	73
HW0552	17 May	0235	57	04°00' N 162°45' W	01°00' N 163°50' W	11,000	11,000		354	- 6	0
HW0553	17 May	0332	60	01°00' N 163°50' W	04°10' N 163°00' W	11,000	21,000		354	3	2
HW0554	17 May	0332	60	01°00' N 163°50' W	04°10' N 163°00' W	11,000	21,000		354	9	6
HW0555	17 May	0432	60	04°10' N 163°00' W	08°30' N 161°20' W	21,000	21,000		354	235	188

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0556	17 May	0432	60	94°10' N 163°00' W	08°30' N 161°20' W	21,000	21,000		354	112	90
HW0557	17 May	0532	60	08°30' N 161°20' W	12°00' N 160°40' W	21,000	21,000		354	- 5	0
HW0558	17 May	0532	60	08°30' N 161°20' W	12°00' N 160°40' W	21,000	21,000		354	18	14
HW0559	17 May	0632	60	12°00' N 160°40' W	17°00' N 158°20' W	21,000	21,000		354	108	87
HW0560	17 May	0632	60	12°00' N 160°40' W	17°00' N 158°20' W	21,000	21,000		354	138	111
HW0561	17 May	0732	60	17°00' N 158°20' W	20°55' N 158°00' W	21,000	6,000	Started descent at 18°06' N, 158°54' W	354	353	240
HW0562	17 May	0732	60	17°00' N 158°20' W	20°55' N 158°00' W	21,000	6,000	Started descent at 18°06' N, 158°54' W	354	265	180
HW0563	16 May	1820	60	20°55' N 158°81' W	18°00' N 159°00' W	1,000	1,000		346	66	36
HW0564	16 May	1820	60	20°55' N 158°81' W	18°00' N 159°00' W	1,000	1,000		346	183	99
HW0565	16 May	1920	60	18°00' N 159°00' W	15°20' N 159°50' W	1,000	1,000		346	49	27
HW0566	16 May	1920	60	18°00' N 159°00' W	15°20' N 159°50' W	1,000	1,000		346	43	23
HW0567	16 May	2020	60	15°20' N 159°50' W	12°30' N 160°25' W	1,000	1,000		346	76	41
HW0568	16 May	2020	60	15°20' N 159°50' W	12°30' N 160°25' W	1,000	1,000		346	54	29

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0569	16 May	2120	60	12°30' N 160°25' W	09°30' N 161°10' W	1,000	1,000		346	68	37
HW0570	16 May	2120	60	12°30' N 160°25' W	09°30' N 161°10' W	1,000	1,000		346	86	47
HW0571	16 May	2220	60	09°30' N 161°10' W	06°10' N 162°15' W	1,000	1,000		346	76	41
HW0572	16 May	2220	60	09°30' N 161°10' W	06°10' N 162°15' W	1,000	1,000		346	78	42
HW0573	16 May	2320	60	06°10' N 162°15' W	03°15' N 162°45' W	1,000	1,000		346	15	8
HW0574	16 May	2320	60	06°10' N 162°15' W	03°15' N 162°45' W	1,000	1,000		346	23	12
HW0575	17 May	0020	60	03°15' N 162°45' W	00°20' N 163°30' W	1,000	1,000		346	4	2
HW0576	17 May	0020	60	03°15' N 162°45' W	00°20' N 163°30' W	1,000	1,000		346	16	9
HW0577	17 May	0120	30	00°20' N 163°30' W	01°10' S 164°00' W	1,000	1,000		346	28	30
HW0578	17 May	0120	30	00°20' N 163°30' W	01°10' S 164°00' W	1,000	1,000		346	30	33
HW0579	17 May	0150	60	01°10' S 164°00' W	00°45' S 163°45' W	1,000	30,000	Climb on course at 01°10' S, 164°00' W	346	75	53
HW0580	17 May	0150	60	01°10' S 164°00' W	00°45' S 163°45' W	1,000	30,000	Climb on course at 01°10' S, 164°00' W	346	66	47
HW0581	17 May	0250	60	00°45' S 163°45' W	03°00' N 162°45' W	30,000	30,000		346	28	28

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0582	17 May	0250	60	00°45' S 163°45' W	03°00' N 162°45' W	30,000	30,000		346	4	4
EW0583	17 May	0350	70	03°00' N 162°45' W	08°00' N 161°30' W	30,000	30,000		354	57	48
EW0584	17 May	0350	70	03°00' N 162°45' W	08°00' N 161°30' W	30,000	30,000		354	126	107
EW0585	17 May	0500	60	08°00' N 161°30' W	12°30' N 160°00' W	30,000	30,000		346	10,840	10,650
EW0586	17 May	0600	60	12°30' N 160°00' W	16°30' N 159°45' W	30,000	30,000		354	25,286	24,937
EW0587	17 May	0600	60	12°30' N 160°00' W	16°30' N 159°45' W	30,000	30,000		354	24,375	24,039
EW0588	17 May	0700	60	16°30' N 159°45' W	20°50' N 158°10' W	30,000	30,000		346	206	203
EW0589	17 May	0700	60	16°30' N 159°45' W	20°50' N 158°10' W	30,000	30,000		346	205	202
EW0590	17 May	0000	120	11°15' N 173°35' E	13°45' N 179°00' W	15,000	15,000		354	2,107	738
EW0591	17 May	0200	120	13°45' N 179°00' W	15°15' N 171°35' W	15,000	15,000		354	719	252
EW0592	17 May	0400	120	15°15' N 171°35' W	17°13' N 168°30' W	15,000	15,000		346	511	179
EW0593	17 May	0600	120	17°13' N 168°30' W	21°20' N 157°58' W	15,000	15,000		354	2,390	837
EW0594	16 May	2135	685	64°50' N 147°38' W	22°00' N 158°00' W	1,000	1,000	Filter papers exposed simultaneously with filter papers 595 to 605, incl	354	386	18

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0595	16 May	2135	85	64°50' N 147°38' W	60°15' N 150°05' W	11,000	21,000		346	3	2
HW0596	16 May	2300	60	60°15' N 150°05' W	56°45' N 150°45' W	21,000	21,000		354	-12	0
HW0597	17 May	0000	60	56°45' N 150°45' W	52°56' N 151°16' W	21,000	20,500		346	-13	0
HW0598	17 May	0100	60	52°56' N 151°16' W	49°10' N 152°14' W	20,500	21,000		354	9	7
HW0599	17 May	0200	60	49°10' N 152°14' W	45°15' N 152°45' W	21,000	21,000		371	25	20
HW0600	17 May	0300	60	45°15' N 152°45' W	41°20' N 153°00' W	21,000	21,000		354	- 7	0
HW0601	17 May	0400	60	41°20' N 153°00' W	37°10' N 153°25' W	21,000	21,000		346	91	73
HW0602	17 May	0500	60	37°10' N 153°25' W	33°20' N 154°30' W	21,000	21,000		354	34	27
HW0603	17 May	0600	60	33°20' N 154°30' W	30°00' N 155°35' W	21,000	21,000		346	23	18
HW0604	17 May	0700	60	30°00' N 155°35' W	26°30' N 156°40' W	21,000	21,000		354	11	9
HW0605	17 May	0800	60	26°30' N 156°40' W	22°00' N 158°00' W	21,000	1,000	Descent begun at 24°10' N, 157°50' W	354	10	8
HW0606	17 May	1520	40	64°50' N 147°35' W	62°02' N 149°00' W	1,000	21,000		360	- 5	0
HW0607	17 May	1600	60	62°02' N 149°00' W	59°00' N 151°02' W	21,000	21,000		360	5	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0608	17 May	1700	60	59°00' N 151°00' W	55°03' N 151°08' W	21,000	21,000		360	- 17	0
HW0609	17 May	1800	57	55°03' N 151°08' W	52°01' N 152°08' W	21,000	21,000		360	8	7
HW0610	17 May	1857	63	52°01' N 152°08' W	48°36' N 154°04' W	21,000	21,000		360	- 15	0
HW0611	17 May	2000	60	48°36' N 154°04' W	45°24' N 154°07' W	21,000	21,000		360	56	45
HW0612	17 May	2100	60	45°24' N 154°07' W	42°54' N 151°06' W	21,000	21,000		350	102	82
HW0613	17 May	2200	60	42°54' N 151°06' W	39°03' N 155°08' W	21,000	21,000		360	79	63
HW0614	17 May	2300	60	39°03' N 155°08' W	36°02' N 157°05' W	21,000	21,000		350	1	1
HW0615	18 May	0000	60	36°02' N 157°05' W	33°00' N 158°02' W	21,000	21,000		360	17	14
HW0616	18 May	0100	60	33°00' N 158°02' W	29°07' N 157°06' W	21,000	17,300	Descent begun at 29°42'N, 157°36'W to 19000 ft reached at 28°12'N, 157°36'W, continuing to 17,300 ft reached at 25°30' N, 157°36' W.	350	19	15
HW0617	18 May	0200	60	29°07' N 157°06' W	26°05' N 157°06' W	21,000	17,300	Same as filter paper 615	360	81	62
HW0618	18 May	0300	60	26°05' N 157°06' W	21°57' N 158°00' W	17,000	10,000	Descent on course	350	177	120
HW0619	18 May	0400	16	21°57' N 158°00' W	21°18' N 158°06' W	10,000	2,000	Descent on course	360	85	190
HW0620	17-18 May	1520	776	64°50' N 147°35' W	21°18' N 158°06' W	21,000	2,000	Descent on course	350	505	26

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0621	17 May	1750	60	21°12' N 157°58' W	18°40' N 158°47' W	400	1,000	Started climb at 20°20' N, 158° 45' W	350	9	5
HW0622	17 May	1750	60	21°12' N 157°58' W	18°40' N 158°47' W	400	1,000	Started climb at 20°20' N, 158° 45' W	350	7	4
HW0623	17 May	1850	60	18°40' N 158°47' W	15°46' N 159°32' W	1,000	1,000		350	15	8
HW0624	17 May	1850	60	18°40' N 158°47' W	15°46' N 159°32' W	1,000	1,000		350	26	14
HW0625	17 May	1950	65	15°46' N 159°32' W	12°58' N 160°12' W	1,000	1,000		350	1	0
HW0626	17 May	1950	65	15°46' N 159°32' W	12°58' N 160°12' W	1,000	1,000		350	35	18
HW0627	17 May	2055	60	12°58' N 160°12' W	10°02' N 160°47' W	1,000	1,000		350	2	1
HW0628	17 May	2055	60	12°58' N 160°12' W	10°02' N 160°47' W	1,000	1,000		350	47	25
HW0629	17 May	2155	60	10°02' N 160°47' W	07°00' N 161°40' W	1,000	1,000		350	- 1	0
HW0630	17 May	2155	60	10°02' N 160°47' W	07°00' N 161°40' W	1,000	1,000		360	17	9
HW0631	17 May	2255	60	07°00' N 161°40' W	03°58' N 162°22' W	1,000	1,000		350	- 25	0
HW0632	17 May	2255	60	07°00' N 161°40' W	03°58' N 162°22' W	1,000	1,000		350	6	3
HW0633	17 May	2355	60	03°58' N 162°22' W	01°10' N 162°58' W	1,000	1,000		350	- 4	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0634	17 May	2355	60	03°58' N 162°22' W	01°10' N 162°58' W	1,000	1,000		350	- 10	0
EW0635	18 May	0055	35	01°10' N 162°58' W	01°10' S 163°43' W	1,000	1,000		350	6	6
EW0636	18 May	0055	35	01°10' N 162°58' W	01°10' S 163°43' W	1,000	1,000		350	9	8
EW0637	18 May	0130	60	01°10' S 163°43' W	00°30' N 163°30' W	1,000	30,000		350	3	2
EW0638	18 May	0130	60	01°10' S 163°43' W	00°30' N 163°30' W	1,000	30,000		350	- 4	0
EW0639	18 May	0230	60	00°30' N 163°30' W	03°22' N 162°55' W	30,000	22,000		350	- 5	0
EW0640	18 May	0230	60	00°30' N 163°30' W	03°22' N 162°55' W	30,000	22,000		350	- 17	0
EW0641	18 May	0330	60	03°22' N 162°55' W	06°23' N 162°18' W	22,000	21,000		350	- 32	0
EW0642	18 May	0330	60	03°22' N 162°55' W	06°23' N 162°18' W	22,000	21,000		350	8	6
EW0643	18 May	0430	60	06°23' N 162°18' W	10°02' N 161°17' W	21,000	20,000		MEASUREMENT DATA NOT RELIABLE		
EW0644	18 May	0430	60	06°23' N 162°18' W	10°02' N 161°17' W	21,000	20,000		350	0	0
EW0645	18 May	0530	60	10°02' N 161°17' W	13°10' N 160°03' W	20,000	20,000		350	70	55
EW0646	18 May	0530	60	10°02' N 161°17' W	13°10' N 160°03' W	20,000	20,000		350	192	150

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
EW0647	18 May	0630	60	13°10' N 160°03' W	16°57' N 159°15' W	20,000	20,000		360	29	23
EW0648	18 May	0630	60	13°10' N 160°03' W	16°57' N 159°15' W	20,000	20,000		350	53	42
EW0649	18 May	0730	60	16°57' N 159°15' W	20°15' N 158°20' W	20,000	20,000		360	50	39
EW0650	18 May	0730	60	16°57' N 159°15' W	20°15' N 158°20' W	20,000	20,000		350	- 52	0
EW0651	17 May	1730	60	21°20' N 157°58' W	18°45' N 158°45' W	1,000	11,000		360	355	209
EW0652	17 May	1730	60	21°20' N 157°58' W	18°45' N 158°45' W	1,000	11,000		360	399	235
EW0653	17 May	1830	60	18°45' N 158°45' W	15°00' N 160°00' W	11,000	11,000		360	630	408
EW0654	17 May	1830	60	18°45' N 158°45' W	15°00' N 160°00' W	11,000	11,000		360	642	416
EW0655	17 May	1930	60	15°00' N 160°00' W	11°40' N 160°40' W	11,000	11,000		360	800	519
EW0656	17 May	1930	60	15°00' N 160°00' W	11°40' N 160°40' W	11,000	11,000		360	862	559
EW0657	17 May	2030	60	11°40' N 160°40' W	08°35' N 161°35' W	11,000	11,000		360	518	336
EW0658	17 May	2030	60	11°40' N 160°40' W	08°35' N 161°35' W	11,000	11,000		360	533	346
EW0659	17 May	2130	60	08°35' N 161°35' W	05°20' N 162°15' W	11,000	11,000		360	69	45

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0660	17 May	2130	60	08°35' N 161°35' W	05°20' N 162°15' W	11,000	11,000		360	89	58
HW0661	17 May	2230	60	05°20' N 162°15' W	02°00' N 163°05' W	11,000	11,000		360	123	80
HW0662	17 May	2230	60	05°20' N 162°15' W	02°00' N 163°05' W	11,000	11,000		360	121	79
HW0663	17 May	2330	60	02°00' N 163°05' W	01°30' S 164°00' W	11,000	11,000		360	28	18
HW0664	17 May	2330	60	02°00' N 163°05' W	01°30' S 164°00' W	11,000	11,000		360	119	77
HW0665	18 May	0030	20	01°30' S 164°00' W	01°30' S 164°00' W	11,000	21,000	Spiral climb on course	360	- 14	0
HW0666	18 May	0030	20	01°30' S 164°00' W	01°30' S 164°00' W	11,000	21,000	Spiral climb on course	360	- 5	0
HW0667	18 May	0050	70	01°30' S 164°00' W	03°30' N 162°15' W	21,000	21,000		360	0	0
HW0668	18 May	0050	70	01°30' S 164°00' W	03°30' N 162°15' W	21,000	21,000		360	- 15	0
HW0669	18 May	0200	60	03°30' N 162°15' W	06°50' N 161°30' W	21,000	21,000		360	- 14	0
HW0670	18 May	0200	60	03°30' N 162°15' W	06°50' N 161°30' W	21,000	21,000		360	- 14	0
HW0671	18 May	0300	20	06°50' N 161°30' W	08°20' N 161°25' W	21,000	30,000		350	1,002	2,665
HW0672	18 May	0300	20	06°50' N 161°30' W	08°20' N 161°25' W	21,000	30,000		360	1,311	3,487

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0673	18 May	0320	40	08°20' N 161°25' W	11°00' N 160°45' W	30,000	30,000		360	- 14	0
HW0674	18 May	0320	40	08°20' N 161°25' W	11°00' N 160°45' W	30,000	30,000		360	- 3	0
HW0675	18 May	0400	60	11°00' N 160°45' W	15°00' N 159°40' W	30,000	30,000		360	7	7
HW0676	18 May	0400	60	11°00' N 160°45' W	15°00' N 159°40' W	30,000	30,000		360	37	37
HW0677	18 May	0500	60	15°00' N 159°40' W	20°00' N 158°15' W	30,000	30,000		360	121	119
HW0678	18 May	0500	60	15°00' N 159°40' W	20°00' N 158°15' W	30,000	30,000		360	136	134
HW0679	18 May	0600	60	20°00' N 158°15' W	21°20' N 157°58' W	30,000	1,000		360	59	42
HW0680	18 May	0600	60	20°00' N 158°15' W	21°20' N 157°58' W	30,000	1,000		360	81	57
HW0681	18 May	1735	60	21°15' N 158°00' W	17°30' N 158°55' W	3,000	11,000		350	513	308
HW0682	18 May	1735	60	21°15' N 158°00' W	17°30' N 158°55' W	3,000	11,000		354	159	95
HW0683	18 May	1835	60	17°30' N 158°55' W	14°20' N 159°45' W	11,000	11,000		350	804	521
HW0684	18 May	1835	60	17°30' N 158°55' W	14°20' N 159°45' W	11,000	11,000		354	476	309
HW0685	18 May	1935	60	14°20' N 159°45' W	11°00' N 160°50' W	11,000	11,000		350	560	363

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0686	18 May	1935	60	14°20' N 159°45' W	11°00' N 160°50' W	11,000	11,000		354	327	212
HW0687	18 May	2035	60	11°00' N 160°50' W	08°00' N 161°30' W	11,000	11,000		350	160	104
HW0688	18 May	2035	60	11°00' N 160°50' W	08°00' N 161°30' W	11,000	11,000		354	113	73
HW0689	18 May	2135	60	08°00' N 161°30' W	04°00' N 162°00' W	11,000	11,000		350	712	462
HW0690	18 May	2135	60	08°00' N 161°30' W	04°00' N 162°00' W	11,000	11,000		354	207	134
HW0691	18 May	2235	60	04°00' N 162°00' W	00°30' N 163°30' W	11,000	11,000		350	66	43
HW0692	18 May	2235	60	04°00' N 162°00' W	00°30' N 163°30' W	11,000	11,000		354	19	12
HW0693	18 May	2335	33	00°30' N 163°30' W	01°30' S 164°00' W	11,000	11,000		350	57	67
HW0694	18 May	2335	33	00°30' N 163°30' W	01°30' S 164°00' W	11,000	11,000		354	- 61	0
HW0695	19 May	0008	60	01°30' S 164°00' W	02°00' N 164°00' W	11,000	21,000		350	11	8
HW0696	19 May	0008	60	01°30' S 164°00' W	02°00' N 164°00' W	11,000	21,000		354	- 6	0
HW0697	19 May	0108	60	02°00' N 164°00' W	06°15' N 161°50' W	21,000	21,000		350	1,366	1,095
HW0698	19 May	0108	60	02°00' N 164°00' W	06°15' N 161°50' W	21,000	21,000		350	750	601

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0699	19 May	0208	60	06°15' N 161°50' W	10°00' N 160°50' W	21,000	21,000		350	3,125	2,504
HW0700	19 May	0208	60	06°15' N 161°50' W	10°00' N 160°50' W	21,000	21,000		354	2,095	1,679
HW0701	19 May	0308	60	10°00' N 160°50' W	13°30' N 160°00' W	21,000	21,000		354	1,455	1,166
HW0702	19 May	0308	60	10°00' N 160°50' W	13°30' N 160°00' W	21,000	21,000		354	1,368	1,096
HW0703	19 May	0408	60	13°30' N 160°00' W	18°00' N 159°00' W	21,000	21,000		350	254	204
HW0704	19 May	0408	60	13°30' N 160°00' W	18°00' N 159°00' W	21,000	21,000		354	178	143
HW0705	19 May	0508	50	18°00' N 159°00' W	21°20' N 158°30' W	21,000	2,000		350	99	78
HW0706	19 May	0508	50	18°00' N 159°00' W	21°20' N 158°00' W	21,000	2,000		354	74	58
HW0707	20 May	0600	50	18°00' N 158°30' W	21°10' N 158°05' W	21,000	4,000		350	250	200
HW0708	20 May	0600	50	18°00' N 158°30' W	21°10' N 158°05' W	21,000	4,000		355	344	275
HW0709	20 May	0500	60	14°45' N 159°15' W	18°00' N 158°30' W	21,000	21,000		350	38	30
HW0710	20 May	0500	60	14°45' N 159°15' W	18°00' N 158°30' W	21,000	21,000		355	62	50
HW0711	20 May	0400	60	10°35' N 161°00' W	14°45' N 159°15' W	21,000	21,000		350	99	79

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0712	20 May	0400	60	10°35' N 161°00' W	14°45' N 159°15' W	21,000	21,000		355	108	87
HW0713	20 May	0200	60	02°15' N 163°00' W	06°15' N 162°15' W	21,000	21,000		355	886	710
HW0714	20 May	0300	60	06°15' N 162°15' W	10°35' N 161°00' W	21,000	21,000		350	591	474
HW0715	20 May	0300	60	06°15' N 162°15' W	10°35' N 161°00' W	21,000	21,000		350	606	486
HW0716	20 May	0200	60	02°15' N 163°00' W	06°15' N 162°15' W	21,000	21,000		350	538	431
HW0717	20 May	0100	60	01°30' S 163°30' W	02°15' N 163°00' W	11,000	21,000	Spiral climb on course	355	4	3
HW0718	20 May	0100	60	01°30' S 163°30' W	02°15' N 163°00' W	11,000	21,000	Spiral climb on course	350	- 4	0
HW0719	20 May	0000	60	01°45' N 163°00' W	01°30' S 163°30' W	11,000	11,000		355	86	56
HW0720	20 May	0000	60	01°45' N 163°00' W	01°30' S 163°30' W	11,000	11,000		350	77	50
HW0721	19 May	2300	60	05°10' N 162°40' W	01°45' N 163°00' W	11,000	11,000		355	197	128
HW0722	19 May	2300	60	05°10' N 162°40' W	01°45' N 163°00' W	11,000	11,000		350	109	71
HW0723	19 May	2200	60	09°00' N 161°15' W	05°10' N 162°40' W	11,000	11,000		355	48	31
HW0724	19 May	2200	60	09°00' N 161°15' W	05°10' N 162°40' W	11,000	11,000		350	46	30

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0725	19 May	2100	60	12°00' N 161°15' W	09°00' N 161°40' W	11,000	11,000		355	106	69
HW0726	19 May	2100	60	12°00' N 161°15' W	09°00' N 161°40' W	11,000	11,000		350	98	64
HW0727	19 May	2000	60	15°00' N 160°20' W	12°00' N 161°15' W	11,000	11,000		355	238	154
HW0728	19 May	2000	60	15°00' N 160°20' W	12°00' N 161°15' W	11,000	11,000		350	236	153
HW0729	19 May	1900	60	17°45' N 159°25' W	15°00' N 160°20' W	11,000	11,000		355	448	291
HW0730	19 May	1800	60	20°25' N 158°05' W	17°45' N 159°25' W	11,000	11,000		350	400	259
HW0731	19 May	1900	60	17°45' N 159°25' W	15°00' N 160°20' W	11,000	11,000		355	512	332
HW0732	19 May	1800	60	20°25' N 158°05' W	17°45' N 159°25' W	11,000	11,000		350	344	223
HW0733	20 May	1625	24	20°40' N 159°30' W	21°15' N 158°00' W	5,000	5,000	No descent data from 9,000 ft to 5,000 ft recorded	357	1,014	1,467
HW0734	20 May	1400	145	17°20' N 167°32' W	20°40' N 159°30' W	15,000	9,000		357	1,189	325
HW0735	20 May	1100	180	13°33' N 177°57' W	17°20' N 167°32' W	15,000	15,000		357	1,479	345
HW0736	20 May	0900	120	10°04' N 174°28' E	13°33' N 177°57' W	15,000	15,000		357	11,651	4,080
HW0737	20 May	0705	115	08°40' N 168°00' E	10°04' N 174°28' E	5,000	15,000		357	16,607	5,512

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
EW0738	20 May	1820	70	21°20' N 157°58' W	18°15' N 158°55' W	1,000	10,000		357	540	270
EW0739	20 May	1820	70	21°20' N 157°58' W	18°15' N 158°55' W	1,000	10,000		357	487	242
EW0740	20 May	1930	60	18°15' N 158°55' W	15°00' N 160°00' W	10,000	10,000		357	459	292
EW0741	20 May	1930	60	18°15' N 158°55' W	15°00' N 160°00' W	10,000	10,000		357	335	213
EW0742	20 May	2030	60	15°00' N 160°00' W	12°15' N 160°40' W	10,000	10,000		357	135	86
EW0743	20 May	2030	60	15°00' N 160°00' W	12°15' N 160°40' W	10,000	10,000		357	115	73
EW0744	20 May	2130	60	12°15' N 160°40' W	09°00' N 161°20' W	10,000	10,000		357	27	17
EW0745	20 May	2130	60	12°15' N 160°40' W	09°00' N 161°20' W	10,000	10,000		357	23	15
EW0746	20 May	2230	60	09°00' N 161°20' W	05°50' N 162°15' W	10,000	10,000		357	83	53
EW0747	20 May	2230	60	09°00' N 161°20' W	05°50' N 162°15' W	10,000	10,000		357	81	52
EW0748	20 May	2330	60	05°50' N 162°15' W	02°20' N 163°00' W	10,000	10,000		357	224	143
EW0749	20 May	2330	60	05°50' N 162°15' W	02°20' N 163°00' W	10,000	10,000		357	198	126
EW0750	21 May	0030	60	02°20' N 163°00' W	01°15' S 163°40' W	10,000	10,000		357	3	2

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0751	21 May	0030	60	02°20' N 163°00' W	01°15' S 163°40' W	10,000	10,000		357	22	14
HW0752	21 May	0130	60	01°15' S 163°40' W	01°00' N 163°10' W	10,000	20,000		357	26	18
HW0753	21 May	0130	60	01°15' S 163°40' W	01°00' N 163°10' W	10,000	20,000		357	2	1
HW0754	21 May	0230	60	01°00' N 163°10' W	04°50' N 162°05' W	20,000	20,000		357	47	37
HW0755	21 May	0230	60	01°00' N 163°10' W	04°50' N 162°05' W	20,000	20,000		357	26	20
HW0756	21 May	0330	60	04°50' N 162°05' W	09°00' N 161°15' W	20,000	20,000		357	70	55
HW0757	21 May	0330	60	04°50' N 162°05' W	09°00' N 161°15' W	20,000	20,000		357	97	76
HW0758	21 May	0430	60	09°00' N 161°15' W	12°30' N 160°05' W	20,000	20,000		357	169	132
HW0759	21 May	0430	60	09°00' N 161°15' W	12°30' N 160°05' W	20,000	20,000		357	124	97
HW0760	21 May	0530	60	12°30' N 160°05' W	16°30' N 159°10' W	20,000	20,000		357	651	509
HW0761	21 May	0530	60	12°30' N 160°05' W	16°30' N 159°10' W	20,000	20,000		357	620	485
HW0762	21 May	0630	80	16°30' N 159°10' W	21°20' N 157°58' W	20,000	1,000		357	483	232
HW0763	21 May	0630	80	16°30' N 159°10' W	21°20' N 157°58' W	20,000	1,000		357	323	155

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0764	21 May	1915	60	21°20' N 158°15' W	18°40' N 158°52' W	500	11,000	Climb on course to 20°18' N, 158°12' W	350	323	190
HW0765	21 May	1915	60	21°20' N 158°15' W	18°40' N 158°52' W	500	11,000	Climb on course to 20°18' N, 158°12' W	354	515	303
HW0766	21 May	2015	60	18°48' N 158°52' W	15°00' N 159°38' W	11,000	11,000		350	222	144
HW0767	21 May	2015	60	18°48' N 158°52' W	15°00' N 159°38' W	11,000	11,000		354	305	198
HW0768	21 May	2115	60	15°00' N 159°38' W	10°53' N 160°32' W	11,000	11,000		350	172	112
HW0769	21 May	2115	60	15°00' N 159°38' W	10°52' N 160°32' W	11,000	11,000		354	186	121
HW0770	21 May	2215	60	10°52' N 160°32' W	07°55' N 161°27' W	11,000	11,000		350	60	39
HW0771	21 May	2215	60	10°52' N 160°32' W	07°55' N 161°27' W	11,000	11,000		354	34	22
HW0772	21 May	2315	60	07°55' N 161°27' W	03°45' N 162°38' W	11,000	14,000	Start climb at 04°20' N, 162°33' W	350	140	93
HW0773	21 May	2315	60	07°55' N 161°27' W	03°45' N 162°38' W	11,000	14,000	Start climb at 04°20' N, 162°33' W	354	56	37
HW0774	22 May	0015	60	03°45' N 162°38' W	07°50' N 161°04' W	14,000	21,000	Climb at 05°05' N, 162°18' W	350	41	30
HW0775	22 May	0015	60	03°45' N 162°38' W	07°50' N 161°04' W	14,000	21,000	Climb at 05°05' N, 162°18' W	354	37	27
HW0776	22 May	0115	60	07°50' N 161°04' W	12°07' N 160°12' W	21,000	21,000		350	278	223

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HWD777	22 May	0115	60	07°50' N 161°04' W	12°07' N 160°12' W	21,000	21,000		354	239	192
HWD778	22 May	0215	60	12°07' N 160°12' W	16°15' N 159°12' W	21,000	21,000		350	459	376
HWD779	22 May	0215	60	12°07' N 160°12' W	16°15' N 159°12' W	21,000	21,000		350	426	341
HWD780	22 May	0315	60	16°15' N 159°12' W	20°18' N 158°18' W	21,000	500	Start descent at 18°47' N, 158°25' W	354	176	115
HWD781	22 May	0315	60	16°15' N 159°12' W	20°18' N 158°18' W	21,000	500	Start descent at 18°47' N, 158°25' W	354	202	132
HWD782	27 May	2017	120	37°42' N 123°00' W	37°42' N 129°40' W	500	500		350	4	1
HWD783	27 May	2217	120	37°42' N 129°40' W	37°42' N 136°35' W	500	500		350	35	10
HWD784	28 May	0017	120	37°42' N 136°35' W	37°42' N 143°40' W	500	500		350	10	3
HWD785	28 May	0217	120	37°42' N 143°40' W	34°33' N 148°10' W	500	10,000		350	7	2
HWD786	28 May	0417	120	34°33' N 148°10' W	29°05' N 152°10' W	10,000	10,000		350	29	9
HWD787	28 May	0617	120	29°05' N 152°10' W	23°07' N 154°40' W	10,000	10,000		350	32	10
HWD788	28 May	0817	60	23°07' N 154°40' W	21°30' N 158°00' W	10,000	10,000		350	25	16
HWD789	29 May	1915	120	37°42' N 133°00' W	33°05' N 126°35' W	800	800		354	- 4	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
HW0790	29 May	1915	120	37°42' N 133°00' W	33°05' N 126°35' W	800	800		354	- 7	0
HW0791	29 May	2115	120	33°05' N 126°35' W	29°00' N 130°45' W	1,000	1,000		354	- 9	0
HW0792	29 May	2115	120	33°05' N 126°35' W	29°00' N 130°45' W	1,000	1,000		354	- 7	0
HW0793	29 May	2315	120	29°00' N 130°45' W	24°37' N 134°50' W	1,000	1,000		354	-16	0
HW0794	29 May	2415	120	29°00' N 130°45' W	24°37' N 134°50' W	1,000	1,000		354	9	2
HW0795	30 May	0115	53	24°37' N 134°50' W	23°00' N 136°55' W	1,000	10,000		354	- 7	0
HW0796	30 May	0115	53	24°37' N 134°50' W	23°00' N 136°55' W	1,000	10,000		354	9	6
HW0797	30 May	0208	120	23°00' N 136°55' W	22°20' N 143°43' W	10,000	10,000		354	- 1	0
HW0798	30 May	0208	120	23°00' N 136°55' W	22°20' N 143°43' W	10,000	10,000		354	17	5
HW0799	30 May	0408	120	22°20' N 143°43' W	21°45' N 152°15' W	10,000	10,000		354	- 5	0
HW0800	30 May	0408	120	22°20' N 143°43' W	21°45' N 152°15' W	10,000	10,000		354	0	0
HW0801	30 May	0608	117	21°45' N 152°15' W	21°17' N 158°12' W	10,000	10,000		354	11	4
HW0802	30 May	0608	117	21°45' N 152°15' W	21°17' N 158°12' W	10,000	10,000		354	11	4

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0001	5 Apr	1516	180	11°25' N 162°26' E	11°45' N 162°45' E	1,500	1,500		334	9	2
KW0002	5 Apr	1132	115	08°44' N 167°44' E	11°35' N 162°26' E	10,000	10,000		329	6	2
KW0003	5 Apr	1327	45	11°35' N 162°25' E	11°45' N 164°50' E	10,000	Unknown		344	6	5
KW0004	5 Apr	1412	64	11°45' N 164°50' E	11°25' N 162°26' E	Unknown	1,500		334	2	1
KW0005	5 Apr	1652	70	10°13' N 166°01' E	11°15' N 162°19' E	5,000	5,000		327	12	6
KW0006	5 Apr	1612	40	08°45' N 162°45' E	10°13' N 166°01' E	5,000	5,000		337	-1	0
KW0007	5 Apr	1802	51	11°15' N 162°19' E	11°15' N 162°19' E	5,000	5,000		353	-15	0
KW0008	5 Apr	1800	180	08°30' N 168°00' E	04°20' N 175°50' E	10,000	Unknown		327	11	2
KW0009	5 Apr	2100	180	04°20' N 175°50' E	01°00' N 171°25' E	Unknown	1,500		337	-7	0
KW0010	6 Apr	0005	180	01°00' N 171°25' E	05°30' N 163°20' E	1,500	Unknown		343	-4	0
KW0011	6 Apr	0305	165	05°30' N 163°20' E	08°43' N 167°44' E	Unknown	10,000		331	19	4
KW0012	6 Apr	2300	90	13°13' N 166°48' E	13°00' N 172°00' E	9,300	Unknown		336	2	1
KW0013	7 Apr	0030	123	13°00' N 172°00' E	08°45' N 167°42' E	Unknown	1,500		350	-16	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0014	6 Apr	2000	180	14°00' N 155°00' E	13°19' N 155°98'. E	9,300	9,300		325	-18	0
KW0015	6 Apr	1500	150	08°45' N 167°42' E	11°40' N 162°16' E	1,500	Unknown		350	3	1
KW0016	6 Apr	1730	150	11°40' N 162°16' E	14°00' N 156°00' E	Unknown	9,400		326	- 4	0
KW0017	7 Apr	0458	56	07°33' N 160°33' E	06°33' N 164°44' E	10,000	10,000		326	5	3
KW0018	7 Apr	0610	72	06°33' N 164°44' E	08°44' N 167°47' E	10,000	10,000		350	22	12
KW0019	7 Apr	0420	57	06°55' N 158°20' E	07°33' N 160°33' E	10,000	10,000		336	- 3	0
KW0020	7 Apr	0250	75	05°25' N 162°35' E	06°55' N 158°20' E	Unknown	10,000		326	6	3
KW0021	6 Apr	1936	118	05°00' N 176°00' E	00°40' N 174°25' E	Unknown	1,500		325	- 1	0
KW0022	6 Apr	1700	156	08°30' N 168°00' E	05°00' N 176°00' E	10,000	Unknown		350	- 5	0
KW0023	6 Apr	2134	180	00°40' N 174°25' E	03°35' N 166°40' E	1,500	1,500		336	- 8	0
KW0024	7 Apr	0034	136	03°35' N 166°40' E	05°25' N 162°35' E	1,500	Unknown		326	-21	0
KW0025	7 Apr	1400	135	11°45' N 162°15' E	08°45' N 167°45' E	Unknown	20,000		305	- 3	0
KW0026	7 Apr	1400	135	11°45' N 162°15' E	08°45' N 167°45' E	Unknown	20,000		342	21	7

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0027	7 Apr	1100	170	08°45' N 167°45' E	11°45' N 162°15' E	1,500	Unknown		333	3	1
KW0028	7 Apr	1100	170	08°45' N 167°45' E	11°45' N 162°15' E	1,500	Unknown		315	6	1
KW0029	7 Apr	1930	110	11°20' N 163°10' E	08°45' N 167°48' E	5,000	5,000		305	-26	0
KW0030	7 Apr	1930	110	11°20' N 163°10' E	08°45' N 167°48' E	5,000	5,000		342	-36	0
KW0031	7 Apr	1600	115	08°48' N 167°45' E	11°09' N 162°08' E	5,000	5,000		333	-73	0
KW0032	7 Apr	1600	115	08°48' N 167°45' E	11°09' N 162°08' E	5,000	5,000		315	-44	0
KW0033	7 Apr	1755	95	11°09' N 162°08' E	11°20' N 163°10' E	5,000	5,000		333	10	4
KW0034	7 Apr	1755	95	11°09' N 162°08' E	11°20' N 163°10' E	5,000	5,000		315	7	3
KW0035	8 Apr	1820	180	11°35' N 162°15' E	12°38' N 173°07' E	Unknown	9,500		347	-14	0
KW0036	8 Apr	1615	125	08°40' N 167°50' W	11°35' N 162°15' E	1,500	Unknown		339	18	5
KW0037	8 Apr	2120	67	12°38' N 173°07' E	13°00' N 177°00' E	9,500	9,500		347	-17	0
KW0038	8 Apr	2227	60	13°00' N 177°00' E	10°00' N 178°00' E	9,500	Unknown		339	23	14
KW0039	8 Apr	2327	138	10°00' N 178°00' E	08°40' N 164°50' E	Unknown	1,500		332	32	8

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0040	10 Apr	1630	180	08°45' N 167°45' E	12°40' N 159°50' E	1,500	Unknown		346	-12	0
KW0041	11 Apr	0057	103	12°25' N 171°25' E	08°45' N 167°45' E	Unknown	1,500		346	2	1
KW0042	10 Apr	2036	180	14°00' N 156°00' E	13°17' N 167°10' E	10,000	10,000		346	0	0
KW0043	10 Apr	1930	66	12°40' N 159°50' E	14°00' N 156°00' E	Unknown	10,000		346	-17	0
KW0044	10 Apr	2336	61	13°17' N 167°10' E	12°25' N 171°25' E	10,000	Unknown		346	- 9	0
KW0045	10 Apr	1649	179	08°45' N 167°45' E	05°00' N 176°00' E	9,500	Unknown		331	3	1
KW0046	10 Apr	1948	110	05°00' N 176°00' E	00°37' N 174°24' E	Unknown	1,500		346	- 1	0
KW0047	11 Apr	0038	62	03°38' N 166°11' E	05°18' N 163°00' E	Unknown	10,000		331	3	2
KW0048	10 Apr	2138	180	00°37' N 174°24' E	03°38' N 166°11' E	1,500	Unknown		346	- 4	0
KW0049	11 Apr	0145	111	05°18' N 163°00' E	08°45' N 167°45' E	10,000	10,000		346	7	2
KW0050	11 Apr	1545	180	08°45' N 167°45' E	12°25' N 160°15' E	1,500	10,000		324	3	1
KW0051	11 Apr	2115	180	13°42' N 161°06' E	13°00' N 172°00' E	10,000	Unknown		341	6	1
KW0052	11 Apr	1815	180	12°25' N 160°15' E	13°42' N 161°06' E	10,000	10,000		343	- 9	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0053	12 Apr	0015	180	12°00' N 172°00' E	08°45' N 167°45' E	Unknown	1,500		324	43	8
KW0054	12 Apr	1635	180	08°45' N 167°45' E	09°47' N 176°18' E	1,500	1,500		323	5	1
KW0055	12 Apr	2016	44	10°58' N 177°41' E	13°00' N 177°00' E	1,500	Unknown		356	- 1	0
KW0056	12 Apr	1935	41	09°47' N 176°18' E	10°58' N 177°41' E	1,500	1,500		322	17	14
KW0057	12 Apr	2100	180	13°00' N 177°00' E	12°08' N 167°17' E	Unknown	8,500		317	2	0
KW0058	13 Apr	0000	105	12°08' N 167°17' E	11°21' N 162°21' E	8,500	Unknown		324	16	6
KW0059	13 Apr	0145	129	11°21' N 162°21' E	08°45' N 167°45' E	Unknown	1,500		356	5	1
KW0060	12 Apr	1615	135	09°00' N 167°45' E	11°40' N 162°10' E	1,500	Unknown		323	6	1
KW0061	12 Apr	2027	180	14°00' N 156°00' E	13°20' N 167°00' E	8,500	8,500		356	- 9	0
KW0062	12 Apr	1830	117	11°40' N 162°10' E	14°00' N 156°00' E	Unknown	8,500		322	6	2
KW0063	12 Apr	2327	72	13°20' N 167°00' E	13°00' N 172°00' E	8,500	Unknown		317	- 1	0
KW0064	13 Apr	0049	115	13°00' N 172°00' E	08°45' N 167°45' E	Unknown	1,500		324	9	3
KW0065	13 Apr	2140	240	14°00' N 156°00' E	14°00' N 179°00' E	8,200	8,200		335	- 6	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0066	13 Apr	2140	240	14°00' N 155°00' E	14°00' N 170°00' E	8,200	8,200		344	- 4	0
KW0067	13 Apr	1840	180	11°20' N 162°20' E	14°00' N 156°00' E	Unknown	8,200		333	11	2
KW0068	13 Apr	1840	180	11°20' N 162°20' E	14°00' N 156°00' E	Unknown	8,200		337	27	5
KW0069	13 Apr	1449	231	08°42' N 167°44' E	11°20' N 162°20' E	1,600	Unknown		335	- 3	0
KW0070	13 Apr	1449	231	08°42' N 167°44' E	11°20' N 162°20' E	1,600	Unknown		344	1	0
KW0071	14 Apr	0140	35	14°00' N 170°00' E	12°00' N 171°00' E	8,200	8,200		333	-10	0
KW0072	14 Apr	0140	35	14°00' N 170°00' E	12°00' N 171°00' E	8,200	8,200		337	8	8
KW0073	14 Apr	0215	45	12°00' N 171°00' E	10°00' N 170°00' E	8,200	Unknown		333	-44	0
KW0074	14 Apr	0215	45	12°00' N 171°00' E	10°00' N 170°00' E	8,200	Unknown		337	7	6
KW0075	14 Apr	0300	35	10°00' N 170°00' E	08°42' N 167°44' E	Unknown	1,600		344	6	6
KW0076	14 Apr	0300	35	10°00' N 170°00' E	08°42' N 167°44' E	Unknown	1,600		335	16	15
KW0077	13 Apr	1931	37	07°08' N 170°45' E	05°47' N 169°35' E	Unknown	5,500		333	-11	0
KW0078	13 Apr	1615	75	08°45' N 167°45' E	07°08' N 170°45' E	1,500	Unknown		337	- 4	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0079	13 Apr	2008	113	05°47' N 169°35' E	05°20' N 163°00' E	8,000	8,000		344	- 4	0
KW0080	13 Apr	2201	90	05°20' N 163°08' E	07°25' N 158°10' E	8,000	8,000		335	- 6	0
KW0081	13 Apr	2331	54	07°25' N 158°10' E	10°43' N 158°00' E	8,000	8,000		344	- 3	0
KW0082	14 Apr	0035	186	10°43' N 158°00' E	08°45' N 167°45' E	8,000	8,000		335	7	1
KW0083	14 Apr	0225	50	11°20' N 157°30' E	08°00' N 167°00' E	1,500	1,500		334	- 8	0
KW0084	13 Apr	2245	105	16°00' N 160°00' E	11°00' N 162°00' E	8,100	Unknown		344	- 8	0
KW0085	14 Apr	0030	115	11°00' N 162°00' E	11°20' N 167°30' E	Unknown	1,500		335	3	1
KW0086	13 Apr	1810	150	08°40' N 157°40' E	17°00' N 167°00' E	1,500	Unknown		337	- 1	0
KW0087	13 Apr	2040	125	17°00' N 167°00' E	16°00' N 160°00' E	Unknown	8,100		344	0	0
KW0088	14 Apr	1300	390	11°50' N 162°20' E	08°45' N 167°45' E	Unknown	20,000		326	15	2
KW0089	14 Apr	1300	390	11°50' N 162°20' E	08°45' N 167°45' E	Unknown	20,000		329	38	5
KW0090	14 Apr	1000	180	08°45' N 167°45' E	11°50' N 162°20' E	1,500	Unknown		327	12	2
KW0091	14 Apr	1000	180	08°45' N 167°45' E	11°50' N 162°20' E	1,500	Unknown		329	- 3	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0092	14 Apr	1124	180	08°45' N 167°45' E	12°09' N 162°43' E	8,000	Unknown		326	0	0
KW0093	14 Apr	1124	180	08°45' N 167°45' E	12°09' N 162°43' E	8,000	Unknown		329	- 1	0
KW0094	14 Apr	1424	196	12°09' N 162°43' E	11°45' N 162°52' E	Unknown	12,000		341	-39	0
KW0095	14 Apr	1424	196	12°09' N 163°43' E	11°45' N 162°52' E	Unknown	12,000		355	-13	0
KW0096	14 Apr	1740	78	11°45' N 162°52' E	11°42' N 162°35' E	12,000	12,000		326	2	1
KW0097	14 Apr	1740	78	11°45' N 162°52' E	11°42' N 162°35' E	12,000	12,000		329	5	3
KW0098	14 Apr	1858	60	11°42' N 162°35' E	11°34' N 162°40' E	12,000	Unknown		354	-10	0
KW0099	14 Apr	1858	60	11°42' N 162°35' E	11°34' N 162°40' E	12,000	Unknown		341	-36	0
KW0100	14 Apr	1958	62	11°34' N 162°40' E	10°33' N 164°44' E	Unknown	7,000		329	2	1
KW0101	14 Apr	1958	62	11°34' N 162°40' E	10°33' N 164°44' E	Unknown	7,000		326	3	2
KW0102	14 Apr	2100	70	10°33' N 164°44' E	08°45' N 167°45' E	7,000	7,000		341	-14	0
KW0103	14 Apr	2100	70	10°33' N 164°44' E	08°45' N 167°45' E	7,000	7,000		355	-12	0
KW0104	14 Apr	1645	115	08°45' N 167°45' E	11°25' N 162°25' E	5,000	5,000		322	38,462	11,613

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
KW0105	14 Apr	1645	115	08°45' N 167°45' E	11°25' N 162°25' E	5,000	5,000		337	5,820	1,757
KW0106	14 Apr	1840	20	11°25' N 162°25' E	11°12' N 162°16' E	5,000	5,000		336	2,210	3,837
KW0107	14 Apr	1840	20	11°25' N 162°25' E	11°12' N 162°16' E	5,000	5,000		322	1,877	3,259
KW0108	14 Apr	1900	40	11°12' N 162°16' E	11°52' N 161°58' E	5,000	10,200	Spiral climb at extraction	336	17,417	15,776
KW0109	14 Apr	1900	40	11°12' N 162°16' E	11°52' N 161°58' E	5,000	10,200	Spiral climb at extraction	322	32,355	29,307
KW0110	14 Apr	1940	20	11°52' N 161°58' E	11°20' N 162°15' E	10,200	14,700		322	190	380
KW0111	14 Apr	1940	20	11°52' N 161°58' E	11°20'N 162°15' E	10,200	14,700		336	834	1,668
KW0112	14 Apr	2000	90	11°20' N 162°15' E	11°20' N 162°28' E	14,700	10,000	Climbing on course to 20,000 ft then descending to 10,000 ft.		8,824	3,922
KW0113	14 Apr	2000	90	11°20' N 162°15' E	11°20' N 162°28' E	14,700	10,000	Climbing on course to 20,000 ft then descending to 10,000 ft.		4,431	1,996
KW0114	14 Apr	2130	60	11°20' N 162°28' E	12°00' N 161°27' E	10,000	Unknown		COUNT EXTREMELY HIGH		
KW0115	14 Apr	2130	60	11°20' N 162°28' E	12°00' N 161°27' E	10,000	Unknown		COUNT EXTREMELY HIGH		
KW0116	14 Apr	2230	60	12°00' N 161°27' E	11°25' N 162°18' E	Unknown	5,100		COUNT EXTREMELY HIGH		
KW0117	14 Apr	2230	60	12°00' N 161°27' E	11°25' N 162°18' E	Unknown	5,100		COUNT EXTREMELY HIGH		

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0118	14 Apr	2330	60	11°25' N 162°18' E	11°40' N 162°15' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0119	14 Apr	2330	60	11°25' N 162°18' E	11°40' N 162°15' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0120	15 Apr	0030	60	11°40' N 162°15' E	10°35' N 165°17' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0121	15 Apr	0030	60	11°40' N 162°15' E	10°35' N 165°17' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0122	15 Apr	0130	63	10°35' N 165°17' E	08°45' N 167°45' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0123	15 Apr	0130	63	10°35' N 165°17' E	08°45' N 167°45' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0124	15 Apr	0510	100	08°45' N 167°45' E	11°15' N 166°35' E	6,000	Unknown		322	5,605	1,980
KW0125	15 Apr	0510	100	08°45' N 167°45' E	11°15' N 166°35' E	6,000	Unknown		336	27,879	9,851
KW0126	15 Apr	0650	59	11°15' N 166°35' E	13°15' N 164°15' E	Unknown	25,000			COUNT EXTREMELY HIGH	
KW0127	15 Apr	0650	59	11°15' N 166°35' E	13°15' N 164°15' E	Unknown	25,000			COUNT EXTREMELY HIGH	
KW0128	15 Apr	0749	31	13°15' N 164°15' E	13°50' N 165°25' E	25,000	25,000			COUNT EXTREMELY HIGH	
KW0129	15 Apr	0749	31	13°15' N 164°15' E	13°50' N 165°25' E	25,000	25,000			COUNT EXTREMELY HIGH	
KW0130	15 Apr	0820	66	13°50' N 165°25' E	11°45' N 167°10' E	25,000	Unknown			COUNT EXTREMELY HIGH	

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0131	15 Apr	0820	66	13°50' N 155°25' E	11°45' N 167°10' E	25,000	Unknown			COUNT EXTREMELY HIGH	
KW0132	15 Apr	0926	55	11°45' N 167°10' E	08°45' N 167°45' E	Unknown	20,000			COUNT EXTREMELY HIGH	
KW0133	15 Apr	0926	55	11°45' N 167°10' E	08°45' N 167°45' E	Unknown	20,000			COUNT EXTREMELY HIGH	
KW0134	15 Apr	0329	60	08°41' N 167°41' E	10°43' N 165°05' E	1,500	Unknown			COUNT EXTREMELY HIGH	
KW0135	15 Apr	0329	60	08°41' N 167°41' E	10°43' N 165°05' E	1,500	Unknown			COUNT EXTREMELY HIGH	
KW0136	15 Apr	0429	60	10°43' N 165°05' E	12°45' N 162°25' E	Unknown	5,000			COUNT EXTREMELY HIGH	
KW0137	15 Apr	0429	60	10°43' N 165°05' E	12°45' N 162°25' E	Unknown	5,000			COUNT EXTREMELY HIGH	
KW0138	15 Apr	0529	36	12°45' N 162°25' E	14°00' N 160°51' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0139	15 Apr	0529	36	12°45' N 162°25' E	14°00' N 160°51' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0140	15 Apr	0605	75	14°00' N 160°51' E	14°50' N 159°50' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0141	15 Apr	0605	75	14°00' N 160°51' E	14°50' N 159°50' E	5,000	5,000			COUNT EXTREMELY HIGH	
KW0142	15 Apr	0720	14	14°50' N 159°50' E	15°00' N 160°40' E	5,000	10,000			COUNT EXTREMELY HIGH	
KW0143	15 Apr	0720	14	14°50' N 159°50' E	15°00' N 160°40' E	5,000	10,000			COUNT EXTREMELY HIGH	

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0144	15 Apr	0734	83	15°00' N 160°40' E	14°12' N 161°25' E	10,000	Unknown			COUNT EXTREMELY HIGH	
KW0145	15 Apr	0734	83	15°00' N 160°40' E	14°12' N 161°25' E	10,000	Unknown			COUNT EXTREMELY HIGH	
KW0146	15 Apr	0857	60	14°12' N 161°25' E	11°29' N 163°56' E	Unknown	8,000			COUNT EXTREMELY HIGH	
KW0147	15 Apr	0857	60	14°12' N 161°25' E	11°29' N 163°56' E	Unknown	8,000			COUNT EXTREMELY HIGH	
KW0148	15 Apr	0957	75	11°29' N 163°56' E	08°44' N 167°44' E	8,000	8,000			COUNT EXTREMELY HIGH	
KW0149	15 Apr	0957	75	11°29' N 163°56' E	08°44' N 167°44' E	8,000	8,000			COUNT EXTREMELY HIGH	
KW0150	15 Apr	1500	80	08°42' N 167°44' E	12°10' N 166°45' E	20,000	Unknown			COUNT EXTREMELY HIGH	
KW0151	15 Apr	1500	80	08°42' N 167°44' E	12°10' N 166°45' E	20,000	Unknown			COUNT EXTREMELY HIGH	
KW0152	15 Apr	1720	35	12°10' N 166°45' E	14°48' N 165°48' E	Unknown	25,000		423	4,980	7,450
KW0153	15 Apr	1720	35	12°10' N 166°45' E	14°48' N 165°48' E	Unknown	25,000		457	6,105	9,132
KW0154	15 Apr	1755	65	14°48' N 165°48' E	16°30' N 166°55' E	25,000	25,000		470	2,532	2,031
KW0155	15 Apr	1755	65	14°48' N 165°48' E	16°30' N 166°55' E	25,000	25,000		538	4,030	3,246
KW0156	15 Apr	1900	70	16°30' N 166°55' E	14°45' N 169°15' E	25,000	25,000		423	2,168	1,622

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0157	15 Apr	1900	70	16°30' N 166°55' E	14°45' N 169°15' E	25,000	25,000		457	4,482	3,352
KW0158	15 Apr	2010	55	14°45' N 169°15' E	14°15' N 165°55' E	25,000	15,000		470	12,208	10,421
KW0159	15 Apr	2010	55	14°45' N 169°15' E	14°15' N 165°55' E	25,000	15,000		538	17,799	15,193
KW0160	15 Apr	2105	60	14°15' N 165°55' E	10°15' N 167°25' E	15,000	5,000		COUNT EXTREMELY HIGH		
KW0161	15 Apr	2105	60	14°15' N 165°55' E	10°15' N 167°25' E	15,000	5,000		COUNT EXTREMELY HIGH		
KW0162	15 Apr	2205	60	10°15' N 167°25' E	08°42' N 167°44' E	5,000	5,000		423	29,244	16,924
KW0163	15 Apr	2205	60	10°15' N 167°25' E	08°42' N 167°44' E	5,000	5,000		457	15,776	9,130
KW0164	15 Apr	1545	60	08°40' N 167°30' E	10°10' N 165°11' E	5,000	5,000		469	334	193
KW0165	15 Apr	1545	60	08°40' N 167°30' E	10°10' N 165°11' E	5,000	5,000		537	508	294
KW0166	15 Apr	1645	60	10°10' N 165°11' E	12°00' N 161°15' E	5,000	5,000		423	107	62
KW0167	15 Apr	1645	60	10°10' N 165°11' E	12°00' N 161°15' E	5,000	5,000		457	-23	0
KW0168	15 Apr	1745	60	12°00' N 161°15' E	13°10' N 159°00' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0169	15 Apr	1745	60	12°00' N 161°15' E	13°10' N 159°00' E	5,000	5,000		COUNT EXTREMELY HIGH		

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0170	15 Apr	1845	63	13°10' N 159°00' E	14°00' N 155°20' E	5,000	5,000		423	39,412	21,722
KW0171	15 Apr	1845	63	13°10' N 159°00' E	14°00' N 155°20' E	5,000	5,000		457	30,294	16,696
KW0172	15 Apr	1948	10	14°00' N 155°20' E	13°05' N 156°25' E	5,000	5,000		469	7,815	27,135
KW0173	15 Apr	1948	10	14°00' N 155°20' E	13°05' N 156°25' E	5,000	5,000		537	15,126	52,520
KW0174	15 Apr	1958	37	13°05' N 156°25' E	15°05' N 156°20' E	5,000	Unknown		469	2,005	1,882
KW0175	15 Apr	1958	37	13°05' N 156°25' E	15°05' N 156°20' E	5,000	Unknown		537	7,875	7,390
KW0176	15 Apr	2035	17	15°05' N 156°20' E	14°35' N 157°28' E	Unknown	10,000		423	292	656
KW0177	15 Apr	2035	17	15°05' N 156°20' E	14°35' N 157°28' E	Unknown	10,000		457	336	754
KW0178	15 Apr	2052	33	14°35' N 157°28' E	14°35' N 159°40' E	10,000	10,000		469	696	805
KW0179	15 Apr	2052	33	14°35' N 157°28' E	14°35' N 159°40' E	10,000	10,000		537	135	156
KW0180	15 Apr	2125	27	14°35' N 159°40' E	15°35' N 158°32' E	10,000	10,000		423	206	291
KW0181	15 Apr	2125	27	14°35' N 159°40' E	15°35' N 158°32' E	10,000	10,000		457	172	243
KW0182	15 Apr	2152	34	15°35' N 158°32' E	13°50' N 158°42' E	10,000	10,000		469	1,139	1,279

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0183	15 Apr	2152	34	15°35' N 158°32' E	13°50' N 158°42' E	10,000	10,000		537	1,026	1,129
KW0184	15 Apr	2226	64	13°50' N 158°42' E	12°00' N 161°25' E	10,000	10,000		COUNT EXTREMELY HIGH		
KW0185	15 Apr	2226	64	13°50' N 158°42' E	12°00' N 161°25' E	10,000	10,000		COUNT EXTREMELY HIGH		
KW0186	15 Apr	2330	60	12°00' N 161°25' E	09°17' N 164°39' E	10,000	10,000		423	52,920	33,664
KW0187	15 Apr	2330	60	12°00' N 161°25' E	09°17' N 164°39' E	10,000	10,000		457	21,811	13,875
KW0188	16 Apr	0030	49	09°17' N 164°39' E	08°40' N 167°30' E	10,000	10,000		423	8,181	6,372
KW0189	16 Apr	0030	49	09°17' N 164°39' E	08°40' N 167°30' E	10,000	10,000		457	17,907	13,948
KW0190	16 Apr	0119	60	08°45' N 167°45' E	10°10' N 164°44' E	5,000	5,000		384	-20	0
KW0191	16 Apr	0119	60	08°45' N 167°45' E	10°10' N 164°44' E	5,000	5,000		350	0	0
KW0192	16 Apr	0219	60	10°10' N 164°44' E	07°24' N 162°16' E	5,000	5,000		446	251	145
KW0193	16 Apr	0219	60	10°10' N 164°44' E	07°24' N 162°16' E	5,000	5,000		491	-50	0
KW0194	16 Apr	0319	60	07°24' N 162°16' E	12°55' N 159°19' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0195	16 Apr	0319	60	07°24' N 162°16' E	12°55' N 159°19' E	5,000	5,000		COUNT EXTREMELY HIGH		

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0196	16 Apr	0419	60	12°55' N 159°19' E	14°19' N 156°15' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0197	16 Apr	0419	60	12°55' N 159°19' E	14°19' N 156°15' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0198	16 Apr	0519	29	14°19' N 156°15' E	15°00' N 154°43' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0199	16 Apr	0519	29	14°19' N 156°15' E	15°00' N 154°43' E	5,000	5,000		COUNT EXTREMELY HIGH		
KW0200	16 Apr	0548	98	15°00' N 154°43' E	16°00' N 153°03' E	5,000	5,000		446	225	80
KW0201	16 Apr	0548	98	15°00' N 154°43' E	16°00' N 153°03' E	5,000	5,000		491	323	114
KW0202	16 Apr	0726	33	16°00' N 153°03' E	15°30' N 175°11' E	5,000	Unknown		364	9	9
KW0203	16 Apr	0726	33	16°00' N 153°03' E	15°30' N 175°11' E	5,000	Unknown		350	1,579	1,661
KW0204	16 Apr	0759	100	15°30' N 175°11' E	14°30' N 156°00' E	Unknown	10,000		446	21	8
KW0205	16 Apr	0759	100	15°30' N 175°11' E	14°30' N 156°00' E	Unknown	10,000		491	296	113
KW0206	16 Apr	0939	124	14°30' N 156°00' E	11°35' N 162°08' E	10,000	10,000		COUNT EXTREMELY HIGH		
KW0207	16 Apr	1143	120	11°35' N 162°08' E	08°45' N 167°45' E	10,000	10,000		COUNT EXTREMELY HIGH		
KW0208	16 Apr	0445	59	08°45' N 167°45' E	11°56' N 168°18' E	25,000	25,000		COUNT EXTREMELY HIGH		

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0209	16 Apr	0445	59	08°45' N 167°45' E	11°56' N 168°18' E	25,000	25,000		COUNT EXTREMELY HIGH		
KW0210	16 Apr	0544	28	11°56' N 168°18' E	13°50' N 168°44' E	25,000	25,000		384	132	247
KW0211	16 Apr	0544	28	11°56' N 168°18' E	13°50' N 168°44' E	25,000	25,000		350	80	150
KW0212	16 Apr	0612	77	13°50' N 168°44' E	14°43' N 168°50' E	25,000	Unknown		446	37	25
KW0213	16 Apr	0612	77	13°50' N 168°44' E	14°43' N 168°50' E	25,000	Unknown		491	257	175
KW0214	16 Apr	0729	136	14°43' N 168°50' E	08°45' N 167°45' E	Unknown	10,000		COUNT EXTREMELY HIGH		
KW0215	16 Apr	0729	136	14°43' N 168°50' E	08°45' N 167°45' E	Unknown	10,000		COUNT EXTREMELY HIGH		
KW0216	16 Apr	1945	120	08°45' N 167°45' E	13°55' N 169°35' E	1,500	1,500		462	18,565	5,056
KW0217	16 Apr	1945	120	08°45' N 167°45' E	13°55' N 169°35' E	1,500	1,500		475	9,528	2,595
KW0218	16 Apr	2145	60	13°55' N 169°35' E	15°45' N 172°25' E	1,500	8,000	Climbing on course 15°36' N, 171°36' E to end.	358	7,535	4,360
KW0219	16 Apr	2145	60	13°55' N 169°35' E	15°45' N 172°25' E	1,500	8,000	Climbing on course 15°36' N, 171°36' E to end.	348	8,256	4,778
KW0220	16 Apr	2245	135	15°45' N 172°25' E	17°45' N 178°15' E	8,000	30,000		402	7,363	2,513
KW0221	16 Apr	2245	135	15°45' N 172°25' E	17°45' N 178°15' E	8,000	30,000		475	8,889	3,034

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0222	17 Apr	0100	120	17°45' N 178°15' E	14°10' N 171°38' E	30,000	30,000		358	14,153	6,979
KW0223	17 Apr	0100	120	17°45' N 178°15' E	14°10' N 171°38' E	30,000	30,000		348	27,420	13,521
KW0224	17 Apr	0300	105	14°10' N 171°38' E	08°45' N 167°45' E	30,000	25,000		COUNT EXTREMELY HIGH		
KW0225	17 Apr	0300	105	14°10' N 171°38' E	08°45' N 167°45' E	30,000	25,000		COUNT EXTREMELY HIGH		
KW0226	17 Apr	0230	120	08°45' N 167°45' E	11°30' N 162°20' E	1,500	5,000	Spiral climb at insertion	395	15,782	4,443
KW0227	17 Apr	0230	120	08°45' N 167°45' E	11°30' N 162°20' E	1,500	5,000	Spiral climb at insertion	410	15,814	4,452
KW0228	17 Apr	0430	80	11°30' N 162°20' E	13°33' N 158°51' E	5,000	5,000		337	1,262	548
KW0229	17 Apr	0430	80	11°30' N 162°20' E	13°33' N 158°51' E	5,000	5,000		337	738	320
KW0230	17 Apr	0550	110	13°33' N 158°51' E	14°54' N 154°01' E	5,000	5,000		395	4,040	1,275
KW0231	17 Apr	0550	110	13°33' N 158°51' E	14°54' N 154°01' E	5,000	5,000		410	1,525	481
KW0232	17 Apr	0740	120	14°54' N 154°01' E	15°15' N 154°09' E	5,000	10,000	Spiral climb at 15°36'N, 151°06'W	337	167	50
KW0233	17 Apr	0740	120	14°54' N 154°01' E	15°15' N 154°09' E	5,000	10,000	Spiral climb at 15°36'N, 151°06'W	336	740	223
KW0234	17 Apr	0940	120	15°15' N 154°09' E	13°50' N 159°31' E	10,000	5,000	Descending on course to 15°24' N, 157°42' E	395	1,912	577

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0235	17 Apr	0940	120	15°15' N 154°09' E	13°50' N 159°31' E	10,000	5,000	Descending on course to 15°24' N, 157°42' E	410	1,343	405
KW0236	17 Apr	1140	120	13°50' N 159°31' E	10°30' N 165°05' E	5,000	5,000		337	27,823	8,051
KW0237	17 Apr	1140	120	13°50' N 159°31' E	10°30' N 165°05' E	5,000	5,000		336	10,464	3,028
KW0238	17 Apr	1340	120	10°30' N 165°05' E	08°45' N 167°45' E	5,000	5,000		395	4,440	1,285
KW0239	17 Apr	1340	120	10°30' N 165°05' E	08°45' N 167°45' E	5,000	5,000		410	716	207
KW0240	19 Apr	0047	56	08°44' N 167°44' E	11°10' N 168°33' E	1,400	10,000		359	3,228	2,015
KW0241	19 Apr	0117	125	08°44' N 167°44' E	14°52' N 170°24' E	20,000	20,000		391	4,935	1,854
KW0242	19 Apr	0322	120	14°52' N 170°24' E	11°38' N 172°37' E	20,000	Unknown		339	-49	0
KW0243	19 Apr	0143	69	11°10' N 168°33' E	14°52' N 170°24' E	10,000	20,000		346	307	205
KW0244	19 Apr	0252	60	14°52' N 170°24' E	13°26' N 173°58' E	20,000	20,000		359	0	0
KW0245	19 Apr	0522	120	11°38' N 172°37' E	08°44' N 167°44' E	Unknown	10,000		346	12,902	4,104
KW0246	19 Apr	0352	60	13°26' N 173°58' E	11°38' N 172°37' E	20,000	20,000		339	28	22
KW0247	19 Apr	0452	60	11°38' N 172°37' E	09°45' N 169°15' E	20,000	11,000		346	8,678	6,155

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0248	19 Apr	0552	35	09°45' N 169°15' E	08°44' N 167°44' E	11,000	4,000		391	592	613
KW0249	20 Apr	2135	120	12°20' N 170°45' E	12°50' N 177°10' E	8,100	8,100		361	383	117
KW0250	20 Apr	2135	120	12°20' N 170°45' E	12°50' N 177°10' E	8,100	8,100		389	692	211
KW0251	21 Apr	0020	200	10°00' N 177°00' E	08°42' N 167°44' E	Unknown	1,600		335	971	159
KW0252	21 Apr	0020	200	10°00' N 177°00' E	08°42' N 167°44' E	Unknown	1,600		408	1,520	248
KW0253	20 Apr	2335	45	12°50' N 177°10' E	10°00' N 177°00' E	8,100	Unknown		389	1,669	1,359
KW0254	20 Apr	2335	45	12°50' N 177°10' E	10°00' N 177°00' E	8,100	Unknown		335	1,092	889
KW0255	20 Apr	1605	150	08°44' N 167°44' E	11°20' N 162°20' E	1,600	Unknown		361	1,015	221
KW0256	20 Apr	1605	150	08°44' N 167°44' E	11°20' N 162°20' E	1,600	Unknown		408	1,464	319
KW0257	20 Apr	1835	180	11°20' N 162°20' E	12°20' N 170°45' E	Unknown	8,100		389	1,351	275
KW0258	20 Apr	1835	180	11°20' N 162°20' E	12°20' N 170°45' E	Unknown	8,100		335	449	91
KW0259	21 Apr	0045	180	13°30' N 145°30' E	11°05' N 156°00' E	15,100	15,100		340	1,704	398
KW0260	21 Apr	0045	180	13°30' N 145°30' E	11°05' N 156°00' E	15,100	15,100		327	2,391	558

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0261	21 Apr	0345	180	11°05' N 156°00' E	09°10' N 157°00' E	15,000	15,000		340	9,932	2,318
KW0262	21 Apr	0345	180	11°05' N 156°00' E	09°10' N 167°00' E	15,000	15,000		327	8,507	1,985
KW0263	21 Apr	1555	125	08°40' N 167°40' E	11°30' N 162°50' E	1,500	8,000	Spiral climb at insertion	359	661	184
KW0264	21 Apr	1555	125	08°40' N 167°40' E	11°30' N 162°50' E	1,500	8,000	Spiral climb at insertion	383	356	99
KW0265	21 Apr	1800	130	11°30' N 162°50' E	14°00' N 156°00' E	8,100	8,100		351	350	99
KW0266	21 Apr	1800	130	11°30' N 162°50' E	14°00' N 156°00' E	8,100	8,100		330	375	106
KW0267	21 Apr	2010	180	14°00' N 156°00' E	13°20' N 166°10' E	8,100	8,100		351	555	113
KW0268	21 Apr	2010	180	14°00' N 156°00' E	13°20' N 166°10' E	8,100	8,100		330	867	176
KW0269	21 Apr	2310	90	13°20' N 166°10' E	13°04' N 171°04' E	8,100	Unknown		359	96	39
KW0270	21 Apr	2310	90	13°20' N 166°10' E	13°04' N 171°04' E	8,100	Unknown		383	90	37
KW0271	22 Apr	0040	115	13°04' N 171°04' E	08°40' N 167°50' E	Unknown	1,500		351	854	243
KW0272	22 Apr	0040	115	13°04' N 171°04' E	08°40' N 167°50' E	Unknown	1,500		330	582	165
KW0273	22 Apr	0353	187	13°30' N 145°00' E	11°20' N 156°00' E	1,500	10,500	Spiral climb at insertion	359	668	126

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0274	22 Apr	0353	187	13°30' N 145°00' E	11°20' N 156°00' E	1,500	10,500	Spiral climb at insertion	351	489	92
KW0275	22 Apr	0700	175	11°20' N 156°00' E	09°10' N 164°10' E	10,000	10,000		351	579	126
KW0276	22 Apr	0700	175	11°20' N 156°00' E	09°10' N 164°10' E	10,000	10,000		330	195	43
KW0277	22 Apr	0955	55	09°10' N 164°10' E	08°45' N 167°45' E	10,000	10,000		359	741	514
KW0278	22 Apr	0955	55	09°10' N 164°10' E	08°45' N 167°45' E	10,000	10,000		383	644	447
KW0279	22 Apr	1640	175	08°45' N 168°00' E	05°00' N 176°00' W	8,100	Unknown		385	2,343	490
KW0280	22 Apr	1640	175	08°45' N 168°00' E	05°00' N 176°00' E	8,100	Unknown		362	11,248	2,354
KW0281	22 Apr	1935	180	05°00' N 176°00' E	04°38' N 166°45' E	Unknown	1,500		331	2,565	466
KW0282	22 Apr	1935	180	05°00' N 176°00' E	04°38' N 166°45' E	Unknown	1,500		333	1,874	340
KW0283	22 Apr	2235	180	04°38' N 166°45' E	07°05' N 163°18' E	1,500	8,100	Climbed at 06°06' N, 161°06' E	331	1,099	212
KW0284	22 Apr	2235	180	04°38' N 166°45' E	07°05' N 163°18' E	1,500	8,100	Climbed at 06°06' N, 161°06' E	333	909	175
KW0285	23 Apr	0135	155	07°05' N 163°18' E	08°45' N 168°00' E	8,100	8,100		362	804	190
KW0286	23 Apr	0135	155	07°05' N 163°18' E	08°45' N 168°00' E	8,100	8,100		385	605	143

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0287	23 Apr	1608	133	08°46' N 167°44' E	11°37' N 162°16' E	1,500	Unknown		353	80	20
KW0288	23 Apr	1608	133	08°46' N 167°44' E	11°37' N 162°16' E	1,500	Unknown		336	85	21
KW0289	23 Apr	1821	174	11°37' N 162°16' E	12°25' N 170°55' E	Unknown	8,500		377	323	69
KW0290	23 Apr	1821	174	11°37' N 162°16' E	12°25' N 170°55' E	Unknown	8,500		357	217	46
KW0291	23 Apr	2115	115	12°25' N 170°55' E	13°00' N 176°00' E	8,500	8,500		357	182	59
KW0292	23 Apr	2115	115	12°25' N 170°55' E	13°00' N 176°00' E	8,500	8,500		377	266	86
KW0293	23 Apr	1845	182	08°45' N 167°45' E	05°00' N 176°00' E	10,000	Unknown		353	430	90
KW0294	23 Apr	1845	182	08°45' N 167°45' E	05°00' N 176°00' E	10,000	Unknown		336	400	84
KW0295	23 Apr	1947	73	05°00' N 176°00' E	03°00' N 173°00' E	Unknown	1,500		353	134	60
KW0296	23 Apr	1947	73	05°00' N 176°00' E	03°00' N 173°00' E	Unknown	1,500		336	106	47
KW0297	23 Apr	2100	240	03°00' N 173°00' E	06°15' N 160°40' E	1,500	1,500		336	161	22
KW0298	23 Apr	2100	240	03°00' N 173°00' E	06°15' N 160°40' E	1,500	1,500		353	133	18
KW0299	24 Apr	0100	140	06°15' N 160°40' E	08°45' N 167°45' E	1,500	1,500		377	530	124

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0300	24 Apr	0100	140	06°15' N 160°40' E	08°45' N 167°45' E	1,500	1,500		357	591	138
KW0301	24 Apr	1700	145	08°44' N 167°44' E	11°43' N 162°38' E	1,500	Unknown		358	196	43
KW0302	24 Apr	1700	149	08°44' N 167°44' E	11°43' N 162°38' E	1,500	Unknown		364	165	36
KW0303	24 Apr	1929	130	11°43' N 162°38' E	12°25' N 171°48' E	Unknown	8,500		352	393	81
KW0304	24 Apr	1929	180	11°43' N 162°38' E	12°25' N 171°48' E	Unknown	8,500		358	316	65
KW0305	24 Apr	2229	101	12°25' N 171°48' E	12°26' N 177°12' E	8,500	8,500		363	202	74
KW0306	24 Apr	2229	101	12°25' N 171°48' E	12°26' N 177°12' E	8,500	8,500		352	194	71
KW0307	25 Apr	0010	42	12°26' N 177°12' E	10°00' N 178°00' E	8,500	Unknown		358	81	71
KW0308	25 Apr	0010	42	12°26' N 177°12' E	10°00' N 178°00' E	8,500	Unknown		363	185	163
KW0309	25 Apr	0052	188	10°00' N 178°00' E	08°44' N 167°44' E	Unknown	1,500		352	123	21
KW0310	25 Apr	0052	188	10°00' N 178°00' E	08°44' N 167°44' E	Unknown	1,500		358	85	15
KW0311	26 Apr	0042	140	06°20' N 160°45' E	08°45' N 167°45' E	8,500	8,500		337	226	60
KW0312	26 Apr	0042	140	06°20' N 160°45' E	08°45' N 167°45' E	8,500	8,500		361	248	66

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0313	25 Apr	2352	50	05°20' N 162°40' E	06°20' N 160°45' E	1,500	8,500	Climbing on course to 06°06' N, 161°00' E	384	27	19
KW0314	25 Apr	2352	50	05°20' N 162°40' E	06°20' N 160°45' E	1,500	8,500	Climbing on course to 06°06' N, 161°00' E	337	80	56
KW0315	25 Apr	2052	180	03°00' N 173°00' E	05°30' N 162°40' E	1,500	1,500		361	80	15
KW0316	25 Apr	2052	180	03°00' N 173°00' E	05°30' N 162°40' E	1,500	1,500		384	89	16
KW0317	25 Apr	1932	80	05°00' N 175°00' E	03°00' N 173°00' E	Unknown	1,500		339	126	51
KW0318	25 Apr	1932	80	05°00' N 175°00' E	03°00' N 173°00' E	Unknown	1,500		361	51	21
KW0319	25 Apr	1647	165	08°45' N 167°45' E	05°00' N 175°00' E	8,500	Unknown		337	601	135
KW0320	25 Apr	1647	165	08°45' N 167°45' E	05°00' N 175°00' E	8,500	Unknown		361	629	141
KW0321	25 Apr	2230	115	12°24' N 170°50' E	13°00' N 177°00' E	8,200	8,200		337	65	21
KW0322	26 Apr	0113	180	10°00' N 178°00' E	07°00' N 167°00' E	Unknown	1,600		361	311	56
KW0323	26 Apr	0113	180	10°00' N 178°00' E	07°00' N 167°00' E	Unknown	1,600		337	159	29
KW0324	26 Apr	0025	48	13°00' N 177°00' E	10°00' N 178°00' E	8,000	Unknown		361	14	11
KW0325	26 Apr	0025	48	13°00' N 177°00' E	10°00' N 178°00' E	8,000	Unknown		384	8	6

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0326	25 Apr	2230	115	12°24' N 170°50' E	13°00' N 177°00' E	8,200	8,200		361	35	11
KW0327	25 Apr	1935	175	11°40' N 162°20' E	12°24' N 170°50' E	Unknown	8,200		337	197	42
KW0328	25 Apr	1935	175	11°40' N 162°20' E	12°24' N 170°50' E	Unknown	8,200		361	186	39
KW0329	25 Apr	1707	148	08°42' N 167°44' E	11°40' N 162°20' E	1,600	Unknown		384	36	8
KW0330	25 Apr	1707	148	08°42' N 167°44' E	11°40' N 162°20' E	1,600	Unknown		337	89	20
KW0331	26 Apr	1640	163	08°40' N 167°40' E	05°16' N 175°19' E	1,500	Unknown		350	580	116
KW0332	26 Apr	1640	163	08°40' N 167°40' E	05°16' N 175°19' E	1,500	Unknown		332	429	86
KW0333	26 Apr	1923	67	05°16' N 175°19' E	03°09' N 172°21' E	Unknown	8,100		402	753	412
KW0334	26 Apr	1923	67	05°16' N 175°19' E	03°09' N 172°21' E	Unknown	8,100		350	976	534
KW0335	26 Apr	2030	95	03°09' N 172°21' E	04°12' N 167°54' E	8,100	8,100		332	1,163	448
KW0336	26 Apr	2030	95	03°09' N 172°21' E	04°12' N 167°54' E	8,100	8,100		402	1,031	398
KW0337	26 Apr	2205	70	04°12' N 167°54' E	08°40' N 167°40' E	7,500	7,500		350	230	119
KW0338	26 Apr	2205	70	04°12' N 167°54' E	08°40' N 167°40' E	7,500	7,500		332	389	201

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0339	26 Apr	2358	90	13°47' N 166°48' E	08°45' N 167°45' E	8,100	8,100		401	68	28
KW0340	26 Apr	2227	91	14°20' N 158°20' E	13°47' N 166°48' E	8,500	8,500		350	29	11
KW0341	26 Apr	2053	94	11°39' N 153°55' E	14°20' N 158°20' E	8,000	8,000		332	81	32
KW0342	26 Apr	1905	108	11°40' N 160°18' E	11°39' N 153°55' E	8,000	8,000		402	21	7
KW0343	26 Apr	1605	180	08°45' N 167°45' E	11°40' N 160°18' E	1,500	8,000	Spiral climb at 11°30'N, 160°42'E	350	203	39
KW0344	26 Apr	2145	180	13°35' N 144°50' E	11°40' N 153°53' E	9,000	9,000		350	13	3
KW0345	26 Apr	2145	180	13°35' N 144°50' E	11°40' N 153°53' E	9,000	9,000		332	20	4
KW0346	27 Apr	0045	180	11°40' N 153°53' E	09°30' N 164°00' E	9,000	9,000		402	67	14
KW0347	27 Apr	0045	180	11°40' N 153°53' E	09°30' N 164°00' E	9,000	9,000		332	36	7
KW0348	27 Apr	0345	66	09°30' N 164°00' E	08°45' N 167°45' E	9,000	9,000		350	2	1
KW0349	27 Apr	0345	66	09°30' N 164°00' E	08°45' N 167°45' E	9,000	9,000		402	9	5
KW0350	28 Apr	0107	153	06°17' N 160°41' E	08°42' N 167°42' E	Unknown	1,500		354	13	3
KW0351	28 Apr	0107	153	06°17' N 160°41' E	08°42' N 167°42' E	Unknown	1,500		338	34	7

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0352	28 Apr	0013	54	05°34' N 163°31' E	06°17' N 160°41' E	9,500	Unknown		443	44	31
KW0353	28 Apr	0013	54	05°34' N 163°31' E	06°17' N 160°41' E	9,500	Unknown		355	-1	0
KW0354	27 Apr	1600	120	08°45' N 167°45' E	11°30' N 162°25' E	1,500	1,500		339	75	20
KW0355	27 Apr	1600	120	08°45' N 167°45' E	11°30' N 162°25' E	1,500	1,500		443	16	4
KW0356	27 Apr	1800	180	11°30' N 162°25' E	13°55' N 157°25' E	1,500	Unknown		355	13	2
KW0357	27 Apr	1800	180	11°30' N 162°25' E	13°55' N 157°25' E	1,500	Unknown		339	17	3
KW0358	27 Apr	2100	120	13°55' N 157°25' E	13°00' N 177°00' E	Unknown	10,000		443	7	2
KW0359	27 Apr	2100	120	13°55' N 157°25' E	13°00' N 177°00' E	Unknown	10,000		355	124	39
KW0360	27 Apr	2300	150	13°00' N 177°00' E	13°00' N 177°00' E	10,000	10,000		339	170	43
KW0361	27 Apr	2300	150	13°00' N 177°00' E	13°00' N 177°00' E	10,000	10,000		443	186	47
KW0362	28 Apr	0130	110	13°00' N 177°00' E	08°45' N 167°45' E	10,000	10,000		355	3	1
KW0363	28 Apr	0130	110	13°00' N 177°00' E	08°45' N 167°45' E	10,000	10,000		339	5	2
KW0364	27 Apr	2113	180	03°06' N 172°48' E	05°34' N 163°31' E	9,500	9,500		443	80	17

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0365	27 Apr	2113	180	03°06' N 172°48' E	05°34' N 163°51' E	9,500	9,500		355	98	21
KW0366	27 Apr	2004	69	05°00' N 176°00' E	03°06' N 172°48' E	Unknown	9,500		339	152	83
KW0367	27 Apr	2004	69	05°00' N 176°00' E	03°06' N 172°48' E	Unknown	9,500		443	123	67
KW0368	27 Apr	1650	194	08°42' N 167°42' E	05°00' N 176°00' E	1,500	Unknown		355	107	18
KW0369	27 Apr	1650	194	08°42' N 167°42' E	05°00' N 176°00' E	1,500	Unknown		339	111	19
KW0370	28 Apr	1500	180	08°45' N 167°45' E	12°05' N 160°30' E	1,500	8,800	Spiral climb at extraction	406	80	15
KW0371	28 Apr	1500	180	08°45' N 167°45' E	12°05' N 160°30' E	1,500	8,800	Spiral climb at extraction	406	35	7
KW0372	28 Apr	1800	180	12°05' N 160°30' E	13°40' N 161°12' E	8,800	8,800		343	22	5
KW0373	28 Apr	1800	180	12°05' N 160°30' E	13°40' N 161°12' E	8,800	8,800		406	31	6
KW0374	28 Apr	2100	180	13°40' N 161°12' E	13°00' N 172°00' E	8,400	Unknown		353	84	13
KW0375	28 Apr	2100	180	13°40' N 161°12' E	13°00' N 172°00' E	8,400	Unknown		343	26	5
KW0376	29 Apr	0000	123	13°00' N 172°00' E	08°45' N 167°45' E	Unknown	1,500		406	-35	0
KW0377	29 Apr	0000	123	13°00' N 172°00' E	08°45' N 167°45' E	Unknown	1,500		353	90	24

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0378	28 Apr	1648	160	08°40' N 167°40' E	05°11' N 175°18' E	1,500	Unknown		343	324	66
KW0379	28 Apr	1648	160	08°40' N 167°40' E	05°11' N 175°18' E	1,500	Unknown		406	200	41
KW0380	28 Apr	1928	62	05°11' N 175°18' E	03°11' N 172°23' E	Unknown	8,100		343	81	48
KW0381	28 Apr	1928	62	05°11' N 175°18' E	03°11' N 172°23' E	Unknown	8,100		406	-2	0
KW0382	28 Apr	2030	180	03°11' N 172°23' E	05°40' N 162°50' E	8,100	8,100		343	63	13
KW0383	28 Apr	2030	180	03°11' N 172°23' E	05°40' N 162°50' E	8,100	8,100		406	34	7
KW0384	28 Apr	2330	20	05°40' N 162°50' E	06°05' N 161°14' E	8,100	1,500		353	49	85
KW0385	28 Apr	2330	20	05°40' N 162°50' E	06°05' N 161°14' E	8,100	1,500		343	7	12
KW0386	28 Apr	2350	140	06°05' N 161°14' E	08°40' N 167°40' E	1,500	1,500		406	-4	0
KW0387	28 Apr	2350	140	06°05' N 161°14' E	08°40' N 167°40' E	1,500	1,500		353	80	19
KW0388	29 Apr	0138	270	11°20' N 162°20' E	07°00' N 167°00' E	Unknown	1,600		343	75	9
KW0389	29 Apr	0138	270	11°20' N 162°20' E	07°00' N 167°00' E	Unknown	1,600		406	-11	0
KW0390	29 Apr	0005	93	12°08' N 167°35' E	11°20' N 162°20' E	8,200	Unknown		353	33	13

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0391	29 Apr	0005	93	12°08' N 167°35' E	11°20' N 168°20' E	8,200	Unknown		406	-24	0
KW0392	28 Apr	1943	82	10°00' N 178°00' E	13°00' N 177°07' E	Unknown	8,200		343	96	43
KW0393	28 Apr	1943	82	10°00' N 178°00' E	13°00' N 177°07' E	Unknown	8,200		406	94	42
KW0394	28 Apr	2105	180	13°00' N 177°07' E	12°08' N 167°35' E	8,200	8,200		353	189	38
KW0395	28 Apr	2105	180	13°00' N 177°07' E	12°08' N 167°35' E	8,200	8,200		343	94	19
KW0396	28 Apr	1628	195	08°42' N 167°45' E	10°00' N 178°00' E	1,600	Unknown		406	65	11
KW0397	28 Apr	1628	195	08°42' N 167°45' E	10°00' N 178°00' E	1,600	Unknown		343	75	13
KW0398	29 Apr	1504	180	08°43' N 167°45' E	11°42' N 161°37' E	1,500	Unknown		355	81	15
KW0399	29 Apr	1504	180	08°43' N 167°45' E	11°42' N 161°37' E	1,500	Unknown		346	42	8
KW0400	29 Apr	1804	101	11°42' N 161°37' E	14°00' N 155°00' E	Unknown	8,400		397	0	0
KW0401	29 Apr	1804	101	11°42' N 161°37' E	14°00' N 156°00' E	Unknown	8,400		355	11	4
KW0402	29 Apr	1945	130	14°00' N 156°00' E	13°22' N 156°00' E	8,400	8,400		346	5	1
KW0403	29 Apr	1945	180	14°00' N 156°00' E	13°22' N 156°00' E	8,400	8,400		397	- 8	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0404	29 Apr	2245	105	13°22' N 166°00' E	13°00' N 172°00' E	8,500	Unknown		355	1	0
KW0405	29 Apr	2245	105	13°22' N 166°00' E	13°00' N 172°00' E	8,500	Unknown		346	11	4
KW0406	30 Apr	0030	115	13°00' N 172°00' E	08°43' N 167°45' E	Unknown	1,500		397	- 4	0
KW0407	30 Apr	0030	115	13°00' N 172°00' E	08°43' N 167°45' E	Unknown	1,500		355	9	3
KW0408	29 Apr	1630	180	08°45' N 167°45' E	09°45' N 175°53' E	1,500	Unknown		346	118	21
KW0409	29 Apr	1630	180	08°45' N 167°45' E	09°45' N 175°53' E	1,500	Unknown		355	31	6
KW0410	29 Apr	1930	45	09°45' N 175°53' E	10°00' N 178°00' E	Unknown	8,000		397	18	15
KW0411	29 Apr	1930	45	09°45' N 175°53' E	10°00' N 178°00' E	Unknown	8,000		346	37	30
KW0412	29 Apr	2015	60	10°00' N 178°00' E	13°00' N 177°00' E	8,000	8,000		355	- 7	0
KW0413	29 Apr	2015	60	10°00' N 178°00' E	13°00' N 177°00' E	8,000	8,000		346	17	10
*KW0414	29 Apr	2115	180	13°00' N 177°00' E	12°00' N 166°48' E	8,000	8,000		355	22	4
KW0415	29 Apr	2115	180	13°00' N 177°00' E	12°00' N 166°48' E	8,000	8,000		346	93	19
KW0416	30 Apr	0015	90	12°00' N 166°48' E	11°21' N 162°21' E	8,000	8,000		355	22	9

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0417	30 Apr	0015	90	12°00' N 166°46' E	11°21' N 162°21' E	8,000	8,000		397	-20	0
KW0418	30 Apr	0145	195	11°21' N 162°21' E	08°45' N 167°45' E	8,000	8,000		346	16	3
KW0419	30 Apr	0145	195	11°21' N 162°21' E	08°45' N 167°45' E	8,000	8,000		355	7	1
KW0420	30 Apr	1002	158	08°44' N 167°43' E	11°18' N 162°50' E	1,600	Unknown		352	34	7
KW0421	30 Apr	1002	158	08°44' N 167°43' E	11°18' N 162°50' E	1,600	Unknown		412	10	2
KW0422	30 Apr	1240	212	11°18' N 162°50' E	11°45' N 163°00' E	Unknown	Unknown	Single altitude 30,000 ft given	334	17	5
KW0423	30 Apr	1240	212	11°18' N 162°50' E	11°45' N 163°00' E	Unknown	Unknown	Single altitude 30,000 ft given	352	19	5
KW0424	30 Apr	1612	98	11°45' N 163°00' E	11°45' N 163°00' E	Unknown	12,000		412	- 9	0
KW0425	30 Apr	1612	98	11°45' N 163°00' E	11°45' N 163°00' E	Unknown	12,000		334	33	13
KW0426	30 Apr	1750	60	11°45' N 163°00' E	11°09' N 164°13' E	12,000	Unknown		352	15	10
KW0427	30 Apr	1750	60	11°45' N 163°00' E	11°09' N 164°13' E	12,000	Unknown		334	50	33
KW0428	30 Apr	1850	80	11°09' N 164°13' E	08°44' N 167°44' E	Unknown	10,000		411	26	12
KW0429	20 Apr	1850	80	11°09' N 164°13' E	08°44' N 167°44' E	Unknown	10,000		352	18	9

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0430	30 Apr	1121	158	08°45' N 167°45' E	11°35' N 162°35' E	1,500	1,500		360	300	52
KW0431	30 Apr	1121	186	08°45' N 167°45' E	11°35' N 162°35' E	1,500	1,500		350	610	106
KW0432	30 Apr	1423	200	11°35' N 162°35' E	11°40' N 162°55' E	1,500	Unknown		369	67	11
KW0433	30 Apr	1429	200	11°35' N 162°35' E	11°40' N 162°55' E	1,500	Unknown		350	55	9
KW0434	30 Apr	1749	50	11°40' N 162°55' E	11°48' N 163°07' E	Unknown	Unknown	Single altitude of 10,000 ft given	369	64	49
KW0435	30 Apr	1749	50	11°40' N 162°55' E	11°48' N 163°07' E	Unknown	Unknown	Single altitude of 10,000 ft given	360	14	11
KW0436	30 Apr	1839	30	11°48' N 163°07' E	12°20' N 163°07' E	Unknown	8,500		350	15	19
KW0437	30 Apr	1839	30	11°48' N 163°07' E	12°20' N 163°07' E	Unknown	8,500		360	14	17
KW0438	30 Apr	1909	30	12°20' N 163°07' E	12°18' N 162°57' E	8,500	8,500		350	7	9
KW0439	30 Apr	1909	30	12°20' N 163°07' E	12°13' N 162°57' E	8,500	8,500		360	-13	0
KW0440	30 Apr	1939	30	12°18' N 162°57' E	11°50' N 163°45' E	8,500	8,500		350	- 5	0
KW0441	30 Apr	1939	30	12°18' N 162°57' E	11°50' N 163°45' E	8,500	8,500		369	64	79
KW0442	30 Apr	2009	30	11°50' N 163°45' E	11°35' N 165°04' E	8,500	8,500		360	12	15

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)		REMARKS	BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED				
KW0443	30 Apr	2009	30	11°50' N 163°45' E	11°35' N 165°04' E	8,500	8,500		350	-13	0
KW0444	30 Apr	2039	29	11°35' N 165°04' E	10°00' N 165°57' E	8,500	8,500		369	51	65
KW0445	30 Apr	2039	29	11°35' N 165°04' E	10°00' N 165°57' E	8,500	8,500		360	0	0
KW0446	30 Apr	2108	41	10°00' N 165°57' E	08°45' N 167°45' E	8,500	8,500		350	17	15
KW0447	30 Apr	2108	41	10°00' N 165°57' E	08°45' N 167°45' E	8,500	8,500		369	51	46
KW0448	1 May	0205	35	11°25' N 163°30' E	11°10' N 163°15' E	10,000	10,000		350	52,828	57,610
KW0449	1 May	0205	35	11°25' N 163°30' E	11°10' N 163°15' E	10,000	10,000		350	105,256	114,782
KW0450	1 May	0240	30	11°10' N 163°15' E	10°10' N 166°05' E	10,000	10,000		350	97,432	123,959
KW0451	1 May	0240	30	11°10' N 163°15' E	10°10' N 166°05' E	10,000	10,000		350	20,880	26,565
KW0452	1 May	0310	30	10°10' N 166°05' E	09°10' N 167°05' E	10,000	10,000		350	145,256	184,804
KW0453	1 May	0310	30	10°10' N 166°05' E	09°10' N 167°05' E	10,000	10,000		350	144,136	183,379
KW0454	30 Apr	1545	180	08°45' N 167°45' E	11°10' N 162°00' E	10,000	10,000		360	388	82
KW0455	30 Apr	1545	180	08°45' N 167°45' E	11°10' N 162°00' E	10,000	10,000		369	750	159

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0456	1 May	0727	62	12°32' N 168°34' E	08°40' N 167°40' E	18,000	20,000	Climbing on course	350	222,960	165,720
KW0457	1 May	0617	70	14°32' N 167°28' E	12°32' N 168°34' E	27,500	18,000	Descending on course		COUNT EXTREMELY HIGH	
KW0458	1 May	0449	88	12°08' N 167°46' E	14°32' N 167°28' E	10,000	27,500	Spiral climb at start		COUNT EXTREMELY HIGH	
KW0459	1 May	0354	55	08°40' N 167°40' E	12°08' N 167°46' E	100	10,000	Spiral climb at start	350	3,425	2,162
KW0460	1 May	0449	88	12°08' N 167°46' E	14°32' N 167°28' E	10,000	27,500	Spiral climb at start		COUNT EXTREMELY HIGH	
KW0461	1 May	0354	55	08°40' N 167°40' E	12°08' N 167°46' E	100	10,000	Spiral climb at start	350	5,302	3,347
KW0462	1 May	0727	62	12°32' N 168°34' E	08°40' N 167°40' E	18,000	20,000	Climbing on course	360	149,920	111,432
KW0463	1 May	0617	70	14°32' N 167°28' E	12°32' N 168°34' E	27,500	18,000			COUNT EXTREMELY HIGH	
KW0464	1 May	0530	30	11°00' N 161°35' E	11°00' N 160°00' E	5,000	5,000		350	1,289	1,492
KW0465	1 May	0600	30	11°00' N 160°00' E	11°00' N 158°20' E	5,000	5,000		360	502	581
KW0466	1 May	0530	30	11°00' N 161°35' E	11°00' N 160°00' E	5,000	5,000		369	1,341	1,552
KW0467	1 May	0500	30	11°00' N 163°12' E	11°00' N 161°35' E	5,000	5,000		369	3,908	4,523
KW0468	1 May	0500	30	11°00' N 163°12' E	11°00' N 161°35' E	5,000	5,000		360	5,911	6,841

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0469	1 May	0430	30	10°09' N 164°41' E	11°00' N 163°12' E	5,000	5,000		350	9,644	1,116
KW0470	1 May	0430	30	10°05' N 164°41' E	11°00' N 163°12' E	5,000	5,000		369	3,038	352
KW0471	1 May	0400	30	09°30' N 166°12' E	10°09' N 164°41' E	5,000	5,000		350	2,456	284
KW0472	1 May	0830	30	10°45' N 160°00' E	10°55' N 161°00' E	10,000	10,000		350	22,799	29,006
KW0473	1 May	0830	30	10°45' N 160°00' E	10°55' N 161°00' E	10,000	10,000		369	32,911	41,872
KW0474	1 May	0630	30	11°00' N 158°20' E	10°00' N 158°00' E	5,000	5,000		350	4,152	4,806
KW0475	1 May	0600	30	11°00' N 160°00' E	11°00' N 158°20' E	5,000	5,000		350	2,788	3,223
KW0476	1 May	1530	28	07°00' N 167°00' E	09°30' N 166°12' E	5,000	5,000		369	1,224	1,518
KW0477	1 May	1530	28	07°00' N 167°00' E	09°30' N 166°12' E	5,000	5,000		360	5,661	7,020
KW0478	1 May	1558	30	09°30' N 166°12' E	10°09' N 164°41' E	5,000	5,000		350	5,474	6,336
KW0479	1 May	0800	30	10°08' N 161°20' E	10°45' N 160°00' E	Unknown	10,000		350	11,054	14,063
KW0480	1 May	0800	30	10°08' N 161°20' E	10°45' N 160°00' E	Unknown	10,000		360	2,158	2,746
KW0481	1 May	0730	30	10°00' N 159°30' E	10°08' N 161°20' E	5,000	Unknown		369	11,024	12,759

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0482	1 May	0730	30	10°00' N 159°30' E	10°08' N 161°20' E	5,000	Unknown		350	488	565
KW0483	1 May	0700	30	10°00' N 158°00' E	10°00' N 159°30' E	5,000	5,000		360	137	159
KW0484	1 May	0730	30	10°00' N 158°00' E	10°00' N 159°30' E	5,000	5,000		369	849	983
KW0485	1 May	1030	30	11°10' N 162°43' E	10°36' N 164°25' E	5,000	5,000		350	12,993	15,038
KW0486	1 May	1030	30	11°10' N 162°43' E	10°36' N 164°25' E	5,000	5,000		360	16,580	19,190
KW0487	1 May	0630	30	11°00' N 158°20' E	10°00' N 158°00' E	5,000	5,000		369	627	726
KW0488	1 May	1100	30	10°36' N 164°25' E	09°48' N 165°40' E	5,000	5,000		350	10,231	11,841
KW0489	1 May	1000	30	11°21' N 162°05' E	11°10' N 162°43' E	Unknown	5,000		360	43,221	50,024
KW0490	1 May	1000	30	11°21' N 162°05' E	11°10' N 162°43' E	Unknown	5,000		369	41,891	48,485
KW0491	1 May	1130	30	09°48' N 165°40' E	07°00' N 167°00' E	5,000	5,000		360	24,660	28,542
KW0492	1 May	0930	30	11°21' N 162°05' E	11°21' N 162°05' E	10,000	Unknown		350	56,680	72,112
KW0493	1 May	0900	30	10°55' N 161°00' E	11°21' N 162°05' E	10,000	10,000		COUNT EXTREMELY HIGH		
KW0494	1 May	0930	30	11°21' N 162°05' E	11°21' N 162°05' E	10,000	Unknown		350	61,150	77,799

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0495	1 May	1130	30	09°48' N 163°40' E	07°00' N 167°00' E	5,000	5,000		350	6,239	7,221
KW0496	1 May	1100	30	10°36' N 164°25' E	09°48' N 165°40' E	5,000	5,000		360	8,110	9,387
KW0497	1 May	0900	30	10°55' N 161°00' E	11°21' N 162°05' E	10,000	10,000		369	24,652	31,364
KW0498	1 May	0405	30	08°50' N 167°35' E	09°10' N 166°00' E	5,000	5,000		617	426	493
KW0499	1 May	0405	30	08°50' N 167°35' E	09°10' N 166°00' E	5,000	5,000		423	18	21
KW0500	1 May	0435	30	09°10' N 166°00' E	09°25' N 164°35' E	5,000	5,000		1111	- 1	0
KW0501	1 May	0435	30	09°10' N 166°00' E	09°25' N 164°35' E	5,000	5,000		617	413	478
KW0502	1 May	0505	25	09°25' N 164°35' E	09°43' N 163°05' E	5,000	Unknown		423	26	36
KW0503	1 May	0505	25	09°25' N 164°35' E	09°43' N 163°05' E	5,000	Unknown		1111	-57	0
KW0504	1 May	0530	30	09°43' N 163°05' E	11°00' N 161°25' E	Unknown	6,000		617	270	318
KW0505	1 May	0530	30	09°43' N 163°05' E	11°00' N 161°25' E	Unknown	6,000		423	-13	0
KW0506	1 May	0600	30	11°00' N 161°25' E	11°00' N 159°50' E	6,000	6,000		617	225	265
KW0507	1 May	0600	30	11°00' N 161°25' E	11°00' N 159°50' E	6,000	6,000		1111	9	11

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0508	1 May	0630	30	11°00' N 159°30' E	10°00' N 158°00' E	6,000	6,000		423	5	6
KW0509	1 May	0630	30	11°00' N 159°30' E	10°00' N 158°00' E	6,000	6,000		617	235	277
KW0510	1 May	0700	30	10°00' N 158°00' E	10°55' N 157°15' E	6,000	Unknown		1111	-24	0
KW0511	1 May	0700	30	10°00' N 158°00' E	10°55' N 157°15' E	6,000	Unknown		423	- 1	0
KW0512	1 May	0730	30	10°55' N 157°15' E	10°55' N 158°55' E	Unknown	10,000		617	213	271
KW0513	1 May	0730	30	10°55' N 157°15' E	10°55' N 158°55' E	Unknown	10,000		1111	-39	0
KW0514	1 May	0800	30	10°55' N 158°55' E	11°08' N 160°30' E	10,000	10,000		423	66	84
KW0515	1 May	0800	30	10°55' N 158°55' E	11°08' N 160°30' E	10,000	10,000		617	219	279
KW0516	1 May	0830	30	11°08' N 160°30' E	12°50' N 160°55' E	10,000	10,000		1111	484	616
KW0517	1 May	0830	30	11°08' N 160°30' E	12°50' N 160°55' E	10,000	10,000		423	162	206
KW0518	1 May	0900	30	12°50' N 160°55' E	13°45' N 160°15' E	10,000	Unknown		617	444	565
KW0519	1 May	0930	120	13°45' N 160°15' E	10°55' N 165°43' E	Unknown	Unknown	Single altitude of 20,000 ft given	1111	172,336	67,424
KW0520	1 May	0930	120	13°45' N 160°15' E	10°55' N 165°43' E	Unknown	Unknown	Single altitude of 20,000 ft given	423	447,096	174,920

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0521	1 May	1130	60	10°55' N 165°43' E	12°55' N 164°30' E	Unknown	Unknown	Single altitude of 14,000 ft given	617	1,151,360	792,948
KW0522	1 May	1130	60	10°55' N 165°43' E	12°55' N 164°30' E	Unknown	Unknown	Single altitude of 14,000 ft given	1111	515,912	355,311
KW0523	1 May	1230	115	12°55' N 164°30' E	08°45' N 167°45' E	Unknown	12,000		423	39,307	13,563
KW0524	1 May	1230	115	12°55' N 164°30' E	08°45' N 167°45' E	Unknown	12,000		617	101,527	35,033
KW0525	1 May	0900	30	12°50' N 150°55' E	13°45' N 150°15' E	10,000	Unknown		1111	1,877	2,388
KW0526	1 May	1530	75	08°45' N 167°45' E	12°06' N 171°07' E	1,500	Unknown		617	200	87
KW0527	1 May	1530	75	08°45' N 167°45' E	12°06' N 171°07' E	1,500	Unknown		423	815	355
KW0528	1 May	2055	60	11°20' N 169°52' E	08°45' N 167°45' E	10,000	10,000		1111	2,144	1,364
KW0529	1 May	2055	60	11°20' N 169°52' E	08°45' N 167°45' E	10,000	10,000		617	3,565	2,268
KW0530	1 May	1955	60	13°25' N 172°27' E	11°20' N 169°52' E	14,500	10,000		423	13,232	8,821
KW0531	1 May	1955	60	13°25' N 172°27' E	11°20' N 169°52' E	14,500	10,000		1111	1,443	962
KW0532	1 May	1845	70	16°17' N 175°06' E	13°25' N 172°27' E	30,000	14,500	Descending on course	617	137	97
KW0533	1 May	1845	70	16°17' N 175°06' E	13°25' N 172°27' E	30,000	14,500	Descending on course	423	1,104	781

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0534	1 May	1745	60	15°00' N 174°00' E	16°17' N 175°06' E	Unknown	30,000		1111	1,066	1,051
KW0535	1 May	1745	60	15°00' N 174°00' E	16°17' N 175°06' E	Unknown	30,000		617	3,426	3,379
KW0536	1 May	1645	60	12°06' N 171°07' E	15°00' N 174°00' E	Unknown	Unknown	Single altitude of 22,000 ft given	432	242,624	198,222
KW0537	1 May	1645	60	12°06' N 171°07' E	15°00' N 174°00' E	Unknown	Unknown	Single altitude of 22,000 ft given	1111	90,456	73,902
KW0538	1 May	1630	30	09°31' N 162°40' E	09°50' N 161°00' E	5,000	5,000		617	-95	0
KW0539	1 May	1630	30	09°31' N 162°40' E	09°50' N 161°00' E	5,000	5,000		423	79	91
KW0540	1 May	1500	30	08°45' N 167°45' E	09°00' N 166°02' E	5,000	5,000		617	21	24
KW0541	1 May	1500	30	08°45' N 167°45' E	09°00' N 166°02' E	5,000	5,000		423	158	183
KW0542	1 May	1530	30	09°00' N 166°02' E	09°17' N 164°22' E	5,000	5,000		617	125	146
KW0543	1 May	1530	30	09°00' N 166°02' E	09°17' N 164°22' E	5,000	5,000		423	226	262
KW0544	1 May	1600	30	09°17' N 164°22' E	09°31' N 162°40' E	5,000	5,000		1111	-363	0
KW0545	1 May	1600	30	09°17' N 164°22' E	09°31' N 162°40' E	5,000	5,000		617	-142	0
KW0546	1 May	1700	30	09°50' N 161°00' E	10°03' N 159°28' E	5,000	5,000		423	- 27	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0547	1 May	1700	30	09°50' N 161°00' E	10°03' N 159°28' E	5,000	5,000		1111	-398	0
KW0548	1 May	1730	30	10°03' N 159°28' E	10°25' N 157°50' E	5,000	5,000		617	1,327	1,536
KW0549	1 May	1730	30	10°03' N 159°28' E	10°25' N 157°50' E	5,000	5,000		423	1,297	1,501
KW0550	1 May	1800	30	10°25' N 157°50' E	10°40' N 156°08' E	5,000	5,000		1111	-315	0
KW0551	1 May	1800	30	10°25' N 157°50' E	10°40' N 156°08' E	5,000	5,000		617	429	497
KW0552	1 May	1830	30	10°40' N 156°08' E	10°55' N 154°30' E	5,000	5,000		423	- 3	0
KW0553	1 May	1830	30	10°40' N 156°08' E	10°55' N 154°30' E	5,000	5,000		1111	-401	0
KW0554	1 May	1900	30	10°55' N 154°30' E	10°45' N 154°55' E	5,000	5,000		423	659	763
KW0555	1 May	1900	30	10°55' N 154°30' E	10°45' N 154°55' E	5,000	5,000		617	612	708
KW0556	1 May	1930	30	10°45' N 154°55' E	10°12' N 156°30' E	5,000	Unknown		617	-200	0
KW0557	1 May	1930	30	10°45' N 154°55' E	10°12' N 156°30' E	5,000	Unknown		423	- 5	0
KW0558	1 May	2000	30	10°12' N 156°30' E	10°45' N 157°40' E	Unknown	10,000		617	- 99	0
KW0559	1 May	2000	30	10°12' N 156°30' E	10°45' N 157°40' E	Unknown	10,000		423	- 25	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0560	1 May	2030	30	10°45' N 157°40' E	12°25' N 159°00' E	10,000	10,000		1111	-329	0
KW0561	1 May	2030	30	10°45' N 157°40' E	12°25' N 159°00' E	10,000	10,000		617	-188	0
KW0562	1 May	2100	30	12°25' N 159°00' E	12°18' N 160°20' E	10,000	10,000		423	- 35	0
KW0563	1 May	2100	30	12°25' N 159°00' E	12°18' N 160°20' E	10,000	10,000		1111	-331	0
KW0564	1 May	2130	30	12°18' N 160°20' E	11°48' N 161°35' E	10,000	10,000		617	37,298	47,453
KW0565	1 May	2130	30	12°18' N 160°20' E	11°48' N 161°35' E	10,000	10,000		423	1,047	1,332
KW0566	1 May	2200	30	11°48' N 161°35' E	11°03' N 163°08' E	10,000	10,000		1111	30,539	38,854
KW0567	1 May	2200	30	11°48' N 161°35' E	11°03' N 163°08' E	10,000	10,000		617	36,048	45,865
KW0568	1 May	2230	30	11°03' N 163°08' E	10°18' N 164°35' E	10,000	10,000		423	462	588
KW0569	1 May	2230	30	11°03' N 163°08' E	10°18' N 164°35' E	10,000	10,000		1111	428	542
KW0570	1 May	2300	30	10°18' N 164°35' E	08°45' N 167°45' E	10,000	10,000		617	60,440	76,898
KW0571	1 May	2300	30	10°18' N 164°35' E	08°45' N 167°45' E	10,000	10,000		617	53,543	68,121
KW0572	2 May	0140	63	08°45' N 167°45' E	09°00' N 166°08' E	5,000	5,000		369	1,395	880

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0573	2 May	0243	30	09°00' N 166°08' E	09°19' N 164°24' E	5,000	5,000		395	407	471
KW0574	2 May	0313	30	09°19' N 164°24' E	09°34' N 162°44' E	5,000	5,000		857	415	480
KW0575	2 May	0343	32	09°34' N 162°44' E	09°48' N 161°03' E	5,000	5,000		369	823	893
KW0576	2 May	0415	58	09°48' N 161°03' E	09°48' N 161°03' E	5,000	Unknown		395	316	189
KW0577	2 May	0513	95	09°48' N 161°03' E	09°19' N 164°24' E	Unknown	10,000		857	369	148
KW0578	2 May	0648	95	09°19' N 164°24' E	08°45' N 167°45' E	10,000	10,000		857	12,666	5,089
KW0579	2 May	0230	30	09°30' N 167°15' E	10°30' N 166°15' E	12,000	12,000		603	6,550	8,664
KW0580	2 May	0300	60	10°30' N 166°15' E	12°40' N 167°00' E	12,000	12,000		603	416,204	275,267
KW0581	2 May	0400	60	12°40' N 167°00' E	15°30' N 166°40' E	12,000	Unknown		910	275,604	182,277
KW0582	2 May	0500	60	15°30' N 166°40' E	14°00' N 165°55' E	Unknown	Unknown	Single altitude of 7,000 ft given	603	682,576	409,218
KW0583	2 May	0600	120	14°00' N 165°55' E	14°45' N 173°15' E	Unknown	10,000		603	185,844	56,729
KW0584	2 May	0800	60	14°45' N 173° 15' E	12°05' N 170°50' E	10,000	9,000		910	80,394	50,562
KW0585	2 May	0900	60	12°05' N 170°50' E	09°25' N 168°30' E	9,000	2,000		910	63,819	37,191

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0586	2 May	0649	60	17°20' N 178°00' E	15°30' N 179°03' E	Unknown	Unknown	Single altitude of 16,500 ft given	603	437	317
KW0587	2 May	0749	60	15°30' N 179°03' E	13°55' N 176°00' E	Unknown	Unknown	Single altitude of 15,000 ft given	603	132	92
KW0588	2 May	0849	60	13°55' N 176°00' E	12°12' N 173°11' E	Unknown	1,500		910	246	134
KW0589	2 May	0949	60	12°12' N 173°11' E	10°35' N 170°40' E	1,500	1,500		603	233	127
KW0590	2 May	1049	60	10°35' N 170°40' E	08°42' N 167°45' E	1,500	1,500		603	2,963	1,614
KW0591	2 May	0104	30	08°43' N 167°45' E	09°35' N 168°48' E	1,500	1,500		910	1,358	1,479
KW0592	2 May	0134	30	09°35' N 168°48' E	10°25' N 169°53' E	1,500	1,500		603	326	355
KW0593	2 May	0204	30	10°25' N 169°53' E	11°14' N 170°52' E	1,500	1,500		603	- 4	0
KW0594	2 May	0234	30	11°14' N 170°52' E	12°08' N 172°01' E	1,500	1,500		910	767	836
KW0595	2 May	0304	30	12°08' N 172°01' E	12°56' N 173°56' E	1,500	1,500		603	445	485
KW0596	2 May	0334	30	12°56' N 173°56' E	13°53' N 174°19' E	1,500	1,500		603	-26	0
KW0597	2 May	0404	30	13°53' N 174°19' E	14°48' N 175°31' E	1,500	1,500		910	609	663
KW0598	2 May	0434	30	14°48' N 175°31' E	15°42' N 175°38' E	1,500	1,500		603	152	166

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0599	2 May	0504	30	15°42' N 178°38' E	16°42' N 176°00' E	1,500	Unknown		603	- 52	0
KW0600	2 May	0534	75	16°42' N 176°00' E	17°29' N 173°09' E	Unknown	Unknown	Single altitude of 30,000' given	910	1,101	869
KW0601	2 May	2244	120	09°21' N 161°21' E	08°44' N 157°44' E	10,000	10,000		506	31,267	12,258
KW0602	2 May	2044	120	09°45' N 154°22' E	09°21' N 161°21' E	10,000	10,000		787	1,575	501
KW0603	2 May	1844	120	12°00' N 148°00' E	09°45' N 154°22' E	Unknown	10,000		506	486	155
KW0604	2 May	1744	60	11°29' N 151°28' E	12°00' N 148°00' E	5,300	Unknown		787	1,212	706
KW0605	2 May	1644	60	11°52' N 155°05' E	11°29' N 151°28' E	5,300	5,300		506	1,489	868
KW0606	2 May	1530	74	10°12' N 158°29' E	11°52' N 155°05' E	5,300	5,300		506	3,297	1,558
KW0607	2 May	1430	60	09°44' N 161°50' E	10°12' N 158°29' E	5,300	5,300		476	1,615	941
KW0608	2 May	1330	60	09°15' N 165°08' E	09°44' N 161°50' E	5,000	5,000		787	13,878	8,031
KW0609	2 May	1230	60	08°44' N 157°44' E	09°15' N 165°08' E	5,000	5,000		476	19,487	11,277
KW0610	2 May	1510	55	10°22' N 170°42' E	11°45' N 173°41' E	10,000	10,000		506	16,130	11,194
KW0611	2 May	1405	60	11°45' N 173°41' E	13°15' N 176°45' E	10,000	10,000		476	174,976	111,308

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0612	2 May	1505	60	13°15' N 175°45' E	15°00' N 179°40' E	10,000	10,000		787	9,813	6,242
KW0613	2 May	1605	60	15°00' N 179°40' E	16°20' N 176°40' E	10,000	10,000		506	4,963	3,157
KW0614	2 May	1705	45	16°20' N 176°40' E	16°50' N 175°34' E	10,000	10,000		787	2,273	1,928
KW0615	2 May	1750	114	16°50' N 175°34' E	17°10' N 174°45' E	10,000	5,000	Climbing on course to 30,000 ft then descending on course to 5,000 ft	476	2,339	912
KW0616	2 May	1944	120	17°10' N 174°45' E	14°30' N 179°43' E	5,000	5,000		506	2,858	827
KW0617	2 May	2144	120	14°30' N 179°43' E	11°35' N 174°35' E	5,000	5,000		476	131,456	38,037
KW0618	2 May	2344	155	11°35' N 174°35' E	08°45' N 167°45' E	5,000	5,000		787	17,093	3,829
KW0619	2 May	1206	84	08°45' N 167°45' E	10°22' N 170°42' E	10,000	10,000		506	16,019	9,553
KW0620	5 May	1635	110	08°40' N 167°40' E	11°35' N 162°38' E	1,500	Unknown		503	3,919	1,164
KW0621	5 May	1825	119	11°35' N 162°38' E	14°00' N 158°00' E	Unknown	8,100		413	5,066	1,559
KW0622	5 May	2024	201	14°00' N 158°00' E	13°13' N 168°05' E	8,100	8,100		503	17,552	3,199
KW0623	5 May	2345	42	13°13' N 168°05' E	13°05' N 171°11' E	8,100	Unknown		413	2,411	2,103
KW0624	6 May	0027	100	13°05' N 171°11' E	08°40' N 167°40' E	Unknown	1,500		503	1,027	336

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0625	6 May	1600	180	08°45' N 167°45' E	12°20' N 160°00' E	1,500	9,000	Climb on course to 12°00' N, 160°42' E	478	4,103	797
KW0626	6 May	1900	180	12°20' N 160°00' E	13°35' N 161°30' E	9,000	9,000		664	1,693	351
KW0627	6 May	2200	180	13°35' N 161°30' E	13°00' N 172°00' E	9,000	Unknown		478	12,175	2,524
KW0628	7 May	0100	105	13°00' N 172°00' E	08°45' N 167°45' E	Unknown	1,500		664	223	69
KW0629	6 May	1815	180	21°19' N 158°05' E	17°30' N 168°30' E	12,000	12,000		478	7,960	1,755
KW0630	6 May	2115	180	17°30' N 168°30' E	13°00' N 179°20' E	12,000	12,000		664	20,395	4,496
KW0631	7 May	0015	180	13°00' N 179°20' E	08°45' N 167°45' E	12,000	12,000		423	80	18
KW0632	6 May	2200	120	13°35' N 145°03' E	12°30' N 151°00' E	9,000	9,000		478	260	81
KW0633	6 May	2200	120	13°35' N 145°03' E	12°30' N 151°00' E	9,000	9,000		664	344	107
KW0634	7 May	0000	120	12°30' N 151°00' E	11°00' N 156°36' E	9,000	9,000		423	14,757	4,589
KW0635	7 May	0000	120	12°30' N 151°00' E	11°00' N 156°36' E	9,000	9,000		423	19,596	6,093
KW0636	7 May	0200	120	11°00' N 156°36' E	09°40' N 164°10' E	9,000	Unknown		423	13,775	4,283
KW0637	7 May	0200	120	11°00' N 156°36' E	09°40' N 164°10' E	9,000	Unknown		423	15,507	4,822

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0638	7 May	0400	45	09°40' N 164°10' E	09°12' N 167°10' E	Unknown	10,000		423	9,023	7,653
KW0639	7 May	0400	45	09°40' N 164°10' E	09°12' N 167°10' E	Unknown	10,000		423	10,143	8,603
KW0640	7 May	1600	170	08°45' N 167°45' E	11°05' N 162°05' E	1,500	Unknown		469	641	123
KW0641	7 May	1600	170	08°45' N 167°45' E	11°05' N 162°05' E	1,500	Unknown		463	935	180
KW0642	7 May	1850	180	11°05' N 162°05' E	12°03' N 170°03' E	Unknown	8,500		504	3,729	767
KW0643	7 May	1850	180	11°05' N 162°05' E	12°03' N 170°03' E	Unknown	8,500		463	9,146	1,882
KW0644	7 May	2150	120	12°03' N 170°03' E	13°00' N 177°00' E	8,500	Unknown		469	2,747	848
KW0645	7 May	2150	120	12°03' N 170°03' E	13°00' N 177°00' E	8,500	Unknown		504	3,006	927
KW0646	7 May	2350	60	13°00' N 177°00' E	10°00' N 178°00' E	Unknown	Unknown	Single altitude of 9,000 ft given	463	3,963	2,465
KW0647	7 May	2350	60	13°00' N 177°00' E	10°00' N 175°00' E	Unknown	Unknown	Single altitude of 9,000 ft given	469	5,216	3,244
KW0648	8 May	0050	180	10°00' N 178°00' E	08°45' N 167°45' E	Unknown	1,500		463	1,007	183
KW0649	8 May	0050	180	10°00' N 178°00' E	08°45' N 167°45' E	Unknown	1,500		469	1,728	314
KW0650	8 May	2045	60	08°50' N 167°45' E	11°20' N 162°20' E	4,500	Unknown		679	- 29	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0651	8 May	2145	60	11°20' N 162°20' E	08°50' N 167°45' E	Unknown	9,000		470	6,746	4,195
KW0652	9 May	1600	172	08°43' N 167°45' E	11°17' N 162°23' E	1,500	Unknown		403	2,236	425
KW0653	9 May	1852	180	11°17' N 162°23' E	12°51' N 171°54' E	Unknown	8,500		648	6,059	1,247
KW0654	9 May	2152	86	12°51' N 171°54' E	13°00' N 177°00' E	8,500	8,500		471	1,111	478
KW0655	9 May	2318	62	13°00' N 177°00' E	10°00' N 178°00' E	8,500	Unknown		403	1,901	1,136
KW0656	10 May	0020	180	10°00' N 178°00' E	08°43' N 167°45' E	Unknown	1,500		647	288	52
KW0657	9 May	1645	185	08°45' N 167°45' E	05°00' N 176°00' E	1,500	Unknown		471	1,688	298
KW0658	9 May	1950	60	05°00' N 176°00' E	03°00' N 173°00' E	Unknown	8,000		403	328	200
KW0659	9 May	2050	195	03°00' N 173°00' E	06°14' N 160°40' E	8,000	Unknown		648	530	100
KW0660	10 May	0005	175	06°14' N 160°40' E	08°45' N 167°45' E	Unknown	1,500		471	407	76
KW0661	10 May	1631	177	08°45' N 167°45' E	04°50' N 175°45' E	1,500	Unknown		386	503	93
KW0662	10 May	1928	51	04°50' N 175°45' E	03°00' N 173°00' E	Unknown	8,500		436	584	424
KW0663	10 May	2019	207	03°00' N 173°00' E	06°10' N 160°44' E	8,500	Unknown		386	1,478	264

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0664	10 May	2346	145	06°10' N 160°44' E	08°45' N 167°45' E	Unknown	1,500		436	662	149
KW0665	10 May	1630	121	08°44' N 167°44' E	11°40' N 162°15' E	1,500	Unknown		386	582	157
KW0666	10 May	1831	139	11°40' N 162°15' E	14°00' N 156°00' E	Unknown	8,800		436	5,703	1,531
KW0667	10 May	2050	139	14°00' N 156°00' E	13°25' N 164°20' E	8,800	8,800		386	5,236	1,406
KW0668	10 May	2309	25	13°25' N 164°20' E	12°39' N 165°05' E	8,800	8,800		436	671	1,001
KW0669	10 May	2334	113	12°39' N 165°05' E	13°00' N 172°00' E	8,800	Unknown		386	2,604	860
KW0670	11 May	0127	123	13°00' N 172°00' E	08°44' N 167°44' E	Unknown	1,500		436	411	109
KW0671	11 May	1635	170	08°40' N 167°40' E	05°00' N 176°00' E	1,500	Unknown		381	878	169
KW0672	11 May	1925	65	05°00' N 176°00' E	03°11' N 172°24' E	Unknown	8,100		438	252	142
KW0673	11 May	2030	180	03°11' N 172°24' E	06°10' N 161°10' E	8,100	Unknown		453	4,421	900
KW0674	11 May	2330	150	06°10' N 161°10' E	08°40' N 167°40' E	Unknown	1,500		438	469	102
KW0675	11 May	1600	180	09°45' N 167°42' E	11°30' N 162°00' E	1,500	Unknown		438	3,293	598
KW0676	11 May	1900	120	11°30' N 162°00' E	14°00' N 156°00' E	Unknown	8,000		381	1,223	373

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0703	13 May	1645	200	08°45' N 167°45' E	09°58' N 177°41' E	1,500	Unknown		427	374	61
KW0704	13 May	2007	56	09°58' N 177°41' E	12°53' N 177°00' E	Unknown	8,500		461	1,437	950
KW0705	13 May	2103	180	12°53' N 177°00' E	11°35' N 166°23' E	8,500	8,500		383	5,094	1,048
KW0706	14 May	0003	89	11°35' N 166°23' E	11°22' N 162°22' E	8,500	8,500		427	4,186	1,742
KW0707	14 May	0132	115	11°22' N 162°22' E	08°45' N 167°45' E	8,500	8,500		383	1,344	433
KW0708	14 May	1000	140	08°45' N 167°45' E	11°25' N 162°25' E	1,500	10,000	No climb data given	423	452	114
KW0709	14 May	1000	140	08°45' N 167°45' E	11°25' N 162°25' E	1,500	10,000	No climb data given	429	903	229
KW0710	14 May	1220	260	11°25' N 162°25' E	11°31' N 163°06' E	10,000	30,000		377	106	19
KW0711	14 May	1220	260	11°25' N 162°25' E	11°31' N 163°06' E	10,000	30,000		432	108	20
KW0712	14 May	1640	115	11°31' N 163°06' E	11°03' N 163°04' E	30,000	Unknown		429	292	150
KW0713	14 May	1640	115	11°31' N 163°06' E	11°03' N 163°04' E	30,000	Unknown		377	506	260
KW0714	14 May	1835	85	11°03' N 163°04' E	08°45' N 167°45' E	Unknown	10,000		429	883	396
KW0715	14 May	1835	85	11°03' N 163°04' E	08°45' N 167°45' E	Unknown	10,000		432	1,004	451

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0716	14 May	1114	41	08°40' N 167°40' E	10°30' N 165°35' E	1,500	Unknown		377	378	317
KW0717	14 May	1114	41	08°40' N 167°40' E	10°30' N 165°35' E	1,500	Unknown		423	252	201
KW0718	14 May	1155	56	10°30' N 165°35' E	11°25' N 162°30' E	Unknown	8,000		377	2,149	1,406
KW0719	14 May	1251	180	11°25' N 162°30' E	11°37' N 163°00' E	8,100	8,100	Climbing on course from 8,100 ft to 20,000 – descending to 8,100 ft	423	296	60
KW0720	14 May	1551	124	11°37' N 163°00' E	11°37' N 163°00' E	8,100	8,100		377	1,950	576
KW0721	14 May	1755	30	11°37' N 163°00' E	11°37' N 163°00' E	8,100	8,100		429	426	520
KW0722	14 May	1755	30	11°37' N 163°00' E	11°37' N 163°00' E	8,100	8,100		423	284	347
KW0723	14 May	1825	30	11°37' N 163°00' E	11°25' N 162°55' E	8,100	8,100		377	421	514
KW0724	14 May	1855	30	11°25' N 162°55' E	11°20' N 162°55' E	8,100	8,100		423	294	359
KW0725	14 May	1925	30	11°20' N 162°55' E	11°37' N 163°00' E	8,100	8,100		429	1,286	1,570
KW0726	14 May	1955	30	11°37' N 163°00' E	11°37' N 163°00' E	8,100	8,100		377	439	536
KW0727	14 May	2025	30	11°37' N 163°00' E	10°20' N 164°18' E	8,100	Unknown		423	1,318	1,609
KW0728	14 May	2055	30	10°20' N 164°18' E	09°50' N 165°15' E	Unknown	7,000		429	983	1,179

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0729	14 May	2125	45	09°50' N 165°15' E	08°40' N 167°40' E	7,000	7,000	Descending on course	377	410	313
KW0730	15 May	0135	33	11°24' N 162°25' E	10°34' N 164°00' E	9,000	9,000		429	190,380	215,265
KW0731	15 May	0208	22	10°34' N 164°00' E	09°45' N 165°25' E	9,000	9,000		442	55,941	94,880
KW0732	15 May	0230	40	09°45' N 165°25' E	09°00' N 167°00' E	9,000	9,000		442	894,048	834,000
KW0733	14 May	1540	90	09°00' N 167°00' E	11°06' N 162°22' E	10,000	10,000		442	14,904	6,321
KW0734	14 May	1540	90	09°00' N 167°00' E	11°06' N 162°22' E	10,000	10,000		442	8,081	3,427
KW0735	15 May	0305	60	08°45' N 167°45' E	11°58' N 165°30' E	20,000	20,000		373	123,795,456	96,866,554
KW0736	15 May	0405	70	11°58' N 165°30' E	08°45' N 167°45' E	20,000	20,000		429	4,893,568	3,282,071
KW0737	15 May	0323	30	09°24' N 166°06' E	10°06' N 164°38' E	5,000	5,000		373	7,111	8,230
KW0738	15 May	0253	30	08°44' N 167°44' E	09°24' N 166°06' E	5,000	5,000		429	556	644
KW0739	15 May	0353	30	10°06' N 164°38' E	10°50' N 163°09' E	5,000	5,000		373	5,584	6,440
KW0740	15 May	0423	30	10°50' N 163°09' E	11°21' N 161°27' E	5,000	5,000		442	1,239	1,434
KW0741	15 May	0453	30	11°21' N 161°27' E	12°02' N 161°04' E	5,000	Unknown		373	5,215	6,036

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0742	15 May	0523	30	12°02' N 161°04' E	12°43' N 161°33' E	Unknown	10,000		429	326	415
KW0743	15 May	0553	30	12°43' N 161°33' E	12°15' N 163°00' E	10,000	10,000		442	690	878
KW0744	15 May	0623	30	12°15' N 163°00' E	11°18' N 164°17' E	10,000	10,000		429	565	719
KW0745	15 May	0653	30	11°18' N 164°17' E	10°20' N 165°30' E	10,000	10,000		442	780	992
KW0746	15 May	0723	47	10°20' N 165°30' E	08°44' N 167°44' E	10,000	10,000		373	4,900	3,979
KW0747	15 May	1515	90	08°45' N 167°45' E	11°16' N 169°43' E	1,500	Unknown		1419	45,028,352	16,350,164
KW0748	15 May	1515	90	08°45' N 167°45' E	11°16' N 169°43' E	1,500	Unknown		1419	46,982,144	17,059,602
KW0749	15 May	1645	75	11°16' N 169°43' E	13°42' N 169°54' E	Unknown	20,000		1419	229,248	143,504
KW0750	15 May	1645	75	11°16' N 169°43' E	13°42' N 169°54' E	Unknown	20,000		1419	836,864	523,859
KW0751	15 May	1800	75	13°42' N 169°54' E	11°42' N 167°55' E	20,000	Unknown		1419	1,029,760	644,607
KW0752	15 May	1800	75	13°42' N 169°54' E	11°42' N 167°55' E	20,000	Unknown		1419	1,367,936	856,298
KW0753	15 May	1915	60	11°42' N 167°55' E	11°12' N 168°58' E	Unknown	10,000		1419	746,880	475,115
KW0754	15 May	1915	60	11°42' N 167°55' E	11°12' N 168°58' E	Unknown	10,000		1419	338,432	215,288

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0755	15 May	1900	60	08°40' N 167°25' E	12°00' N 167°55' E	12,000	Unknown		1419	254,848	168,550
KW0756	15 May	2015	30	11°12' N 168°58' E	12°15' N 169°15' E	10,000	10,000		1419	132,854	169,038
KW0757	15 May	2045	30	12°15' N 169°15' E	11°12' N 169°57' E	10,000	10,000		1419	135,680	172,621
KW0758	15 May	2045	30	12°15' N 169°15' E	11°12' N 169°57' E	10,000	10,000		1419	134,272	170,830
KW0759	15 May	2115	30	11°12' N 169°57' E	10°02' N 169°38' E	10,000	10,000		MEASUREMENT DATA NOT RELIABLE		
KW0760	15 May	2115	30	11°12' N 169°57' E	10°02' N 169°38' E	10,000	10,000		1419	403,840	513,791
KW0761	15 May	2145	45	10°02' N 169°38' E	08°45' N 167°45' E	10,000	10,000		MEASUREMENT DATA NOT RELIABLE		
KW0762	15 May	2145	45	10°02' N 169°38' E	08°45' N 167°45' E	10,000	10,000		1419	333,696	283,033
KW0763	15 May	1449	30	08°43' N 167°41' E	09°30' N 166°10' E	1,500	1,500		1419	336	366
KW0764	15 May	1519	33	09°30' N 166°10' E	10°15' N 165°01' E	1,500	1,500		805	- 8	0
KW0765	15 May	1552	60	10°15' N 165°01' E	11°35' N 161°32' E	1,500	Unknown		598	149	81
KW0766	15 May	1652	30	11°35' N 161°32' E	11°00' N 160°00' E	Unknown	5,000		1419	644	745
KW0767	15 May	1722	30	11°00' N 160°00' E	11°15' N 158°28' E	5,000	5,000		805	87	101

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0768	15 May	1752	69	11°15' N 158°28' E	12°42' N 160°28' E	5,000	Unknown		598	711	358
KW0769	15 May	1901	36	12°42' N 160°28' E	14°00' N 160°12' E	Unknown	10,000		1419	23	24
KW0770	15 May	1937	25	14°00' N 160°12' E	15°00' N 160°19' E	10,000	10,000		598	16	22
KW0771	15 May	2005	15	15°00' N 160°19' E	14°50' N 161°00' E	10,000	10,000		805	-71	0
KW0772	15 May	2020	29	14°50' N 161°00' E	14°50' N 162°00' E	10,000	10,000		598	-22	0
KW0773	15 May	2049	60	14°50' N 162°00' E	12°24' N 164°17' E	10,000	10,000		1419	109,502	69,658
KW0774	15 May	2149	87	12°24' N 164°17' E	08°43' N 167°45' E	10,000	10,000		1419	6,963	3,055
KW0775	15 May	1900	60	08°40' N 167°25' E	12°00' N 167°55' E	12,000	Unknown		1419	43,631	28,856
KW0776	15 May	2000	60	12°00' N 167°55' E	14°22' N 170°15' E	Unknown	20,000		1419	35,294	27,617
KW0777	15 May	2100	60	14°22' N 170°15' E	13°20' N 175°40' E	20,000	Unknown		598	1,121	877
KW0778	15 May	2200	120	13°20' N 175°40' E	12°15' N 169°55' E	Unknown	8,000		598	2,406	734
KW0779	16 May	0000	70	12°15' N 169°55' E	08°45' N 167°45' E	8,000	8,000		805	3,405	1,782
KW0780	16 May	0025	30	08°45' N 167°45' E	09°07' N 166°17' E	5,000	5,000		453	722	836

4.9.3

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0781	16 May	0055	30	09°07' N 168°17' E	09°43' N 164°26' E	5,000	5,000		1092	-412	0
KW0782	16 May	0125	45	09°43' N 164°26' E	10°30' N 162°10' E	5,000	5,000		699	155	120
KW0783	16 May	0210	30	10°30' N 162°10' E	10°00' N 160°35' E	5,000	5,000		453	1,067	1,235
KW0784	16 May	0240	30	10°00' N 160°35' E	11°29' N 158°50' E	5,000	5,000		1092	0	0
KW0785	16 May	0310	30	11°29' N 158°50' E	11°40' N 158°20' E	5,000	5,000		1092	456	528
KW0786	16 May	0340	25	11°40' N 158°20' E	12°37' N 156°17' E	5,000	Unknown		453	677	940
KW0787	16 May	0405	30	12°37' N 156°17' E	13°16' N 157°40' E	Unknown	10,000		699	146	186
KW0788	16 May	0435	30	13°16' N 157°40' E	14°00' N 159°07' E	10,000	10,000		1092	-188	0
KW0789	16 May	0505	25	14°00' N 159°07' E	14°45' N 160°58' E	10,000	10,000		453	64	98
KW0790	16 May	0530	30	14°45' N 160°58' E	15°30' N 162°30' E	10,000	10,000		1092	-247	0
KW0791	16 May	0600	55	15°30' N 162°30' E	17°00' N 165°00' E	10,000	10,000		1092	190,392	132,125
KW0792	16 May	0655	60	17°00' N 166°00' E	17°35' N 165°40' E	10,000	10,000		453	27,932	17,768
KW0793	16 May	0755	75	13°35' N 165°40' E	08°45' N 167°45' E	10,000	10,000		1092	13,100	6,667

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0794	16 May	0037	30	08°45' N 167°45' E	09°20' N 169°07' E	1,500	1,500		731	122	133
KW0795	16 May	0037	30	08°45' N 167°45' E	09°20' N 169°07' E	1,500	1,500		424	220	240
KW0796	16 May	0107	30	09°20' N 169°07' E	10°15' N 170°00' E	1,500	1,500		731	38	41
KW0797	16 May	0107	30	09°20' N 169°07' E	10°15' N 170°00' E	1,500	1,500		424	86	94
KW0798	16 May	0137	30	10°15' N 170°00' E	10°45' N 172°45' E	1,500	1,500		731	5	5
KW0799	16 May	0137	30	10°15' N 170°00' E	10°45' N 172°45' E	1,500	1,500		424	136	148
KW0800	16 May	0207	30	10°45' N 172°45' E	11°22' N 172°25' E	1,500	1,500		657	26	28
KW0801	16 May	0207	30	10°45' N 172°45' E	11°22' N 172°25' E	1,500	1,500		731	- 13	0
KW0802	16 May	0237	30	11°22' N 172°25' E	11°47' N 173°22' E	1,500	Unknown		424	87	95
KW0803	16 May	0237	30	11°22' N 172°25' E	11°47' N 173°22' E	1,500	Unknown		657	39	42
KW0804	16 May	0307	53	11°47' N 173°22' E	13°25' N 175°10' E	Unknown	30,000		731	2,661	2,971
KW0805	16 May	0307	53	11°47' N 173°22' E	13°25' N 175°10' E	Unknown	30,000		424	1,660	1,853
KW0806	16 May	0400	60	13°25' N 175°10' E	15°30' N 178°30' E	30,000	30,000		657	- 7	0

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0807	16 May	0400	60	13°25' N 176°10' E	15°30' N 178°30' E	30,000	30,000		731	- 8	0
KW0808	16 May	0500	60	15°30' N 178°30' E	14°40' N 173°10' E	30,000	30,000		424	45,604	44,974
KW0809	16 May	0500	60	15°30' N 178°30' E	14°40' N 173°10' E	30,000	30,000		657	57,563	56,768
KW0810	16 May	0600	70	14°40' N 173°10' E	13°40' N 177°35' E	30,000	Unknown		731	652	551
KW0811	16 May	0600	70	14°40' N 173°10' E	13°40' N 177°35' E	30,000	Unknown		424	929	785
KW0812	16 May	0710	60	13°40' N 177°35' E	12°52' N 178°56' E	Unknown	Unknown	Single altitude of 10,000 ft given	731	271	172
KW0813	16 May	0810	55	12°52' N 178°56' E	11°25' N 175°30' E	Unknown	6,000		424	660	424
KW0814	16 May	0905	60	11°25' N 175°30' E	09°58' N 172°07' E	6,000	6,000		657	374	220
KW0815	16 May	1005	60	09°58' N 172°07' E	08°45' N 167°45' E	6,000	6,000		731	152	90
KW0816	16 May	1105	55	08°40' N 167°40' E	09°36' N 164°37' E	5,000	5,000		731	493	311
KW0817	16 May	1200	60	09°36' N 164°37' E	10°13' N 161°20' E	5,000	5,000		424	571	330
KW0818	16 May	1300	60	10°13' N 161°20' E	10°44' N 158°19' E	5,000	5,000		657	41,038	23,749
KW0819	16 May	1400	60	10°44' N 158°19' E	11°30' N 154°52' E	5,000	5,000		657	33,008	19,102

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0820	16 May	1500	30	11°30' N 154°52' E	12°00' N 153°00' E	5,000	Unknown		657	4,781	5,534
KW0821	16 May	1530	60	12°00' N 153°00' E	13°10' N 155°15' E	Unknown	10,000		731	705	448
KW0822	16 May	1630	30	13°10' N 156°15' E	14°00' N 158°00' E	10,000	10,000		424	63	80
KW0823	16 May	1700	60	14°00' N 158°00' E	12°32' N 161°07' E	10,000	10,000		731	7,757	4,934
KW0824	16 May	1800	60	12°32' N 161°07' E	10°47' N 163°45' E	10,000	10,000		424	3,556	2,262
KW0825	16 May	1900	40	10°47' N 163°45' E	10°05' N 165°47' E	10,000	10,000		731	13,698	13,071
KW0826	16 May	1940	60	10°05' N 165°47' E	10°05' N 169°10' E	10,000	10,000		424	59,474	37,833
KW0827	16 May	2040	15	10°05' N 169°10' E	10°05' N 170°00' E	10,000	10,000		731	314	799
KW0828	16 May	2055	15	10°05' N 170°00' E	09°00' N 169°50' E	10,000	10,000		424	226	575
KW0829	16 May	2110	35	09°00' N 169°50' E	08°40' N 167°40' E	10,000	10,000		657	711	775
KW0830	17 May	0049	120	09°22' N 167°45' E	09°53' N 159°55' E	10,000	10,000		426	25,906	8,240
KW0831	17 May	0249	120	09°53' N 159°55' E	10°46' N 153°30' E	10,000	10,000		426	27,696	8,809
KW0832	17 May	0449	59	10°46' N 153°30' E	12°00' N 154°00' E	10,000	10,000		539	26,345	17,043

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
KW0833	17 May	0548	120	12°00' N 154°00' E	10°00' N 160°20' E	10,000	10,000		584	23,350	7,427
KW0834	17 May	0748	120	10°00' N 160°20' E	09°00' N 166°50' E	10,000	10,000		584	5,436	1,729
KW0835	26 May	1600	180	11°20' N 174°02' E	09°45' N 167°20' E	8,000	8,000		351	2,918	594
KW0836	26 May	1300	180	10°05' N 174°45' E	11°20' N 174°02' E	8,000	8,000		351	1,199	244
KW0837	26 May	1000	180	18°40' N 154°55' E	10°05' N 174°45' E	8,000	8,000		351	725	148

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	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
TR1001	27 Apr	0708	182	38°45' N 27°01' W	37°10' N 14°45' W	1,000 ft	20,000 ft	Climbed on course, reaching 20,000 ft at 38°12' N, 22°48' W.	362	0	0
TR1002	27 Apr	0708	182	38°45' N 27°01' W	37°10' N 14°45' W	1,000 ft	20,000 ft	Climbed on course, reaching 20,000 ft at 38°12' N, 22°48' W.	362	695	179
TR1003	27 Apr	1011	180	37°09' N 14°41' W	36°15' N 02°22' W	20,000 ft	20,000 ft		362	10	3
TR1004	27 Apr	1011	180	37°09' N 14°41' W	36°15' N 02°22' W	20,000 ft	20,000 ft		362	9	2
TR1005	27 Apr	1311	139	36°15' N 02°22' W	36°55' N 10°50' E	20,000 ft	20,000 ft		362	- 2	0
TR1006	27 Apr	1311	139	36°15' N 02°22' W	36°55' N 10°50' E	20,000 ft	20,000 ft		362	- 2	0
TR1007	27 Apr	1530	62	36°55' N 10°50' E	33°25' N 13°00' E	20,000 ft	1,500 ft	20,000 ft to 34°54' N, 12°30' E. Descent to 1500 ft at end.	362	-13	0
TR1008	27 Apr	1530	62	36°55' N 10°50' E	33°25' N 13°00' E	20,000 ft	1,500 ft	20,000 ft to 34°54' N, 12°30' E. Descent to 1500 ft at end.	362	-17	0
TR1009	29 Apr	0400	130	32°00' N 14°00' E	22°15' N 21°30' E	20,000 ft	20,000 ft		354	43	11
TR1010	29 Apr	0400	180	32°00' N 14°00' E	22°15' N 21°30' E	20,000 ft	20,000 ft		354	27	7
TR1011	29 Apr	0700	180	22°15' N 21°30' E	12°00' N 29°50' E	20,000 ft	20,000 ft		354	108	28
TR1012	29 Apr	0700	180	22°15' N 21°30' E	12°00' N 29°50' E	20,000 ft	20,000 ft		354	110	29
TR1013	29 Apr	1000	180	12°00' N 29°50' E	20°00' N 21°00' E	30,000 ft	30,000 ft		354	1790	588

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
TR1014	29 Apr	1000	180	12°00' N 29°50' E	20°00' N 21°00' E	30,000 ft	30,000 ft		354	1910	628
TR1015	29 Apr	1300	180	20°00' N 21°00' E	31°00' N 17°00' E	30,000 ft	30,000 ft		354	227	75
TR1016	29 Apr	1300	180	20°00' N 21°00' E	31°00' N 17°00' E	30,000 ft	30,000 ft		354	255	84
TR1021	29 Apr	0145	180	38°50' N 27°00' W	35°30' N 11°00' W	20,000 ft	20,000 ft		362	-20	0
TR1022	29 Apr	0145	180	38°50' N 27°00' W	35°30' N 11°00' W	20,000 ft	20,000 ft		362	-10	0
TR1023	29 Apr	0445	180	35°30' N 11°00' W	36°40' N 01°45' E	20,000 ft	20,000 ft		362	- 8	0
TR1024	29 Apr	0445	180	35°30' N 11°00' W	36°40' N 01°45' E	20,000 ft	20,000 ft		362	- 6	0
TR1025	29 Apr	0745	105	36°40' N 01°45' E	37°40' N 10°50' E	20,000 ft	20,000 ft		362	1	0
TR1026	29 Apr	0745	105	36°40' N 01°45' E	37°40' N 10°50' E	20,000 ft	20,000 ft		362	-10	0
TR1027	29 Apr	0930	130	37°40' N 10°50' E	33°25' N 13°00' W	20,000 ft	500 ft	Descending to 500 ft at end when dust was accumulated on filter.	362	135	46
TR1028	29 Apr	0930	130	37°40' N 10°50' E	33°25' N 13°00' W	20,000 ft	500 ft	Descending to 500 ft at end when dust was accumulated on filter.	362	118	35
TR1029	30 Apr	0500	185	32°00' N 13°55' E	20°55' N 21°47' E	20,000 ft	20,000 ft		343	90	23
TR1030	30 Apr	0500	185	32°00' N 13°55' E	20°55' N 21°47' E	20,000 ft	20,000 ft		343	93	24

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/ GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
TR1031	30 Apr	0805	135	20°55' N 21°47' E	12°52' N 27°04' E	20,000 ft	20,000 ft		343	119	41
TR1032	30 Apr	0805	135	20°55' N 21°47' E	12°52' N 27°04' E	20,000 ft	20,000 ft		343	111	39
TR1033	30 Apr	1020	180	12°52' N 27°04' E	22°40' N 20°32' E	20,000 ft	25,000 ft		343	221	66
TR1034	30 Apr	1020	180	12°52' N 27°04' E	22°40' N 20°32' E	20,000 ft	25,000 ft		343	230	63
TR1035	30 Apr	1320	180	22°40' N 20°32' E	31°40' N 14°08' E	25,000 ft	25,000 ft		343	379	110
TR1036	30 Apr	1320	180	22°40' N 20°32' E	31°40' N 14°08' E	25,000 ft	25,000 ft		343	287	84
TR3003	14 May	2059	181	38°40' N 11°20' W	37°00' N 11°20' W	21,000 ft	21,000 ft		346	63	17
TR3004	15 May	0000	183	37°00' N 11°20' W	36°35' N 03°05' E	21,000 ft	21,000 ft		346	36	10
TR3005	15 May	0303	162	36°35' N 03°05' E	32°55' N 13°15' E	21,000 ft	21,000 ft		346	54	16
TR3019	13 May	2000	180	38°50' N 25°15' W	37°15' N 13°05' W	500 ft	21,000 ft	Climb on course reaching 21,000 ft at 38°10' N, 23°03' W.	350	25	7
TR3020	13 May	2300	180	37°15' N 13°05' W	36°50' N 03°00' E	21,000 ft	20,900 ft		350	47	13
TR3021	14 May	0200	165	36°50' N 03°00' E	34°00' N 12°25' E	20,900 ft	20,900 ft		350	36	11
TR4001	14 May	1618	180	31°10' N 18°05' E	22°10' N 21°32' E	11,000 ft	11,000 ft		346	174	38

FILTER PAPER NUMBER	TIME OF INSERTION		MINUTES EXPOSURE	LOCATION		ALTITUDE (FEET)			BACKGROUND C/M	NET COUNTS/MIN.	10^{-18} CURIES/GM. OF AIR FILTERED
	DATE (1948)	HOUR (GMT)		INSERTED	EXTRACTED	INSERTED	EXTRACTED	REMARKS			
TR4002	14 May	1918	187	22°10' N 21°32' E	14°00' N 29°18' E	11,000 ft	11,000 ft		346	276	57
TR4003	14 May	2225	50	14°00' N 29°18' E	13°50' N 29°30' E	11,000 ft	30,000 ft	Climb on course to 21,000 ft at 12°42'N, 29°18E, turn, continuing on course.	345	316	304
TR4004	14 May	2315	180	13°50' N 29°30' E	24°15' N 19°10' E	30,000 ft	30,000 ft		346	246	81
TR4005	15 May	0215	125	24°15' N 19°10' E	32°10' N 14°40' E	30,000 ft	30,000 ft		346	422	200