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LASA TRAVEL-TIME DATA AT THE SDL

5 December 1966

Prepared For

AIR FORCE TECHNICAL APPLICATIONS CENTER
Washington, D. C.

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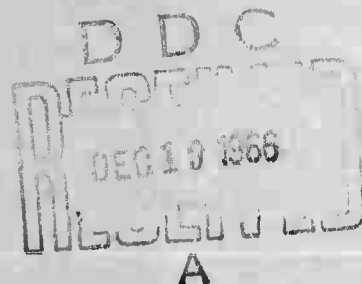
EARTH SCIENCES DIVISION
TELEDYNE INDUSTRIES, INC.

Under

Project VELA UNIFORM

Sponsored By

ADVANCED RESEARCH PROJECTS AGENCY
Nuclear Test Detection Office
ARPA Order No. 624



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LASA TRAVEL-TIME DATA AT THE SDL

SEISMIC DATA LABORATORY REPORT NO. 172

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ABSTRACT

Travel-time data at the SDL, as read from LASA films for approximately 400 events, are presented for users. These data have been used for computing travel-time anomalies which are included in SDL reports No. 147 and No. 159.

1. INTRODUCTION

During the last six months, SDL has been accumulating relative travel-times at the Montana Large Aperture Seismic Array with a view towards computing travel-time anomalies at the 21 subarrays. It appears that these raw data are in demand and may be of some use to the seismic community in general. Therefore, this report contains all pertinent travel-time data which have been used for the following previously published reports:

"Relative Travel-Time Anomalies at LASA and the Location of Epicenters using SHIFT," by E. F. Chiburis, SDL Report No. 147.

"LASA Travel-Time Anomalies for Various Epicentral Regions," by E. F. Chiburis," SDL Report No. 159.

The data in the Appendix are listed in the same order as given in SDL Report No. 159, except that more events are now included and some regions have been slightly re-defined.

The following numbered explanation, with references to the first page of the Appendix, describes the method of presentation:

1. Arbitrary region name
2. Direction of approach
3. Distance range for events included in region
4. Azimuth range for events included in region
5. Event date and name
6. PDE latitude
7. PDE longitude

8. PDE depth
9. PDE origin time
10. Arrival time in seconds*

First row, left to right: B1, B2, B3, B4,
C1, C2, C3

Second row C4, D1, D2, D3,
D4, E1, E2

Third row E3, E4, F1, F2,
F3, F4, A0

11. Arrival time, hour and minute at LASA

Note: As only relative times were needed, absolute times may not be correct. Clock corrections prior to December 1965 were not obtainable.

It is requested that any use or presentation of these data be appropriately acknowledged.

*An arrival time of "0." indicates no reading made at that subarray.

APPENDIX

11 22 00

PAGE 1

①	CENTRAL AND SOUTHERN ALASKA	⑥	⑦	⑧	⑨	④
⑤	19 AUG00 GOLF ALASKA	07 10 00. N 147 30 00. W	033.	3370 KM	313-320A2	0315
⑩	37.11	37.34	38.23	38.41	37.47	0315
	37.72	37.34	38.40	34.35	41.90	
	39.60	35.08	07.13	44.00	37.41	28.45
	15 AUG00 S. ALASKA 1	01 24 00. N 140 00 00. W	09.	13 30 23.7		1341
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.

NORTHEAST KODIAK

NW 3200 - 3300 KM 30/-3114Z

04 NOV65 KODIAK 1	57 24 00. N	151 00 00. W	033.	10 38 22.0		
0.	0.	0.	0.	0.	1044	
32.55	34.50	35.72	33.12	31.41	31.84	38.80
0.	29.72	35.00	41.30	33.55	28.15	33.60
22 APR66 KODIAK	56 54 0. N	151 43 0. W	33.	10 15 51.0		
54.20	54.52	23.55	33.20	33.00	55.08	54.30
52.75	54.87	0.	33.34	31.70	52.12	59.17
50.20	50.00	23.45	01.40	0.	46.40	53.90
30 DEC65 KODIAK 1.	58 06 00. N	152 24 00. W	33.	16 33 43.4		
00.00	00.00	00.00	00.00	00.00	00.00	49.93
00.00	50.28	21.35	48.92	47.20	60.00	54.50
51.90	42.45	20.22	27.12	42.73	41.90	49.40
19 MAR66 KODIAK	57 42 0. N	153 00 0. W	2.	08 10 47.0		
59.87	60.15	29.15	38.75	27.28	60.05	60.12
58.50	60.46	0.	29.20	27.38	57.88	0.
0.	52.73	00.72	07.20	29.72	52.00	59.60
22 DEC65 KODIAK 1	58 22 48. N	153 04 12. W	51.	19 41 23.0		
0.	0.	0.	0.	30.10	31.70	31.10
29.60	31.45	32.00	30.10	28.45	28.75	35.60
33.00	20.70	31.05	38.40	30.90	23.10	30.60

SOUTHERN KODIAK

NW 3350 - 3400 KM 305-3084Z

29 AUG66 KODIAK	56 18 00. N	153 06 00. W	033.	22 30 22.8		
33.08	33.41	32.33	32.10	0.	33.98	33.18
31.62	33.89	34.70	32.10	30.55	0.	0.
34.82	28.78	34.42	40.00	32.13	25.28	32.69
04 MAR66 KODIAK	57 00 0. N	153 24 0. W	33.	14 19 31.0		
41.64	41.92	41.00	40.70	41.10	42.25	41.80
40.20	42.30	43.48	40.80	39.25	39.50	0.
43.52	37.37	42.70	43.88	0.	33.70	41.42
16 APR66 KODIAK 3	57 00 0. N	153 36 0. W	33.	01 27 15.3		
28.38	28.70	27.74	27.47	27.80	29.20	28.58
27.00	29.00	30.20	27.80	25.92	26.29	33.23
30.34	24.13	29.49	35.29	0.	20.54	28.13
16 APR66 KODIAK 2	57 00 0. N	153 42 0. W	33.	04 40 45.0		
57.35	57.00	56.70	56.50	56.72	58.19	57.50
55.97	58.00	59.11	58.50	54.80	55.20	62.18
59.12	53.10	58.40	64.45	56.78	49.48	57.05
22 JAN66 KODIAK	56 . N	153 42 . W	33.	14 27 07.9		
20.70	21.05	20.10	20.05	20.10	21.00	0.
19.60	21.40	22.50	20.00	18.35	18.90	25.75
22.52	10.55	22.15	27.05	20.05	13.00	20.55

ALASKA PENINSULA

NW 3500 - 3700 KM 301-311AZ

10 JUN 50 ALASKA PEN.	57 24 00. N	155 42 00. W	067.	14 12 15.0		
32.60	32.94	31.97	31.71	32.07	33.48	32.76
31.27	33.22	34.31	31.80	30.27	0.	4.
0.	0.	0.	0.	0.	0.	32.26
23 DEC 55 ALASKA PEN.	58 38 00. N	155 54 00. W	121.	02 14 49.0		
0.	0.	0.	00.05	0.	62.65	0.
00.30	02.25	33.40	00.00	29.15	39.40	00.00
0.	01.50	02.40	0.	01.05	53.68	61.38
29 APR 56 ALASKA PEN.	53 48 00. N	157 46 00. W	33.	01 46 43.0		
13.22	13.58	12.50	12.40	12.78	14.21	13.33
11.89	14.15	14.85	12.51	10.74	11.60	18.11
14.75	09.04	15.06	0.	11.82	05.85	12.91

UNIMAK I.

NW 4050 - 4100 KM 303-304AZ

16 SEP 56 UNIMAK	54 00 00. N	163 30 00. W	039.	02 48 21.8		
25.32	25.56	24.62	24.42	24.79	26.16	25.31
23.97	20.00	20.84	24.50	23.02	23.58	30.15
26.70	21.05	26.04	0.	23.90	17.94	24.92
19 MAY 56 UNIMAK I	54 00 . N	163 42 . W	39.	09 18 35.0		
0.	39.55	38.52	38.35	38.75	40.12	39.32
37.85	40.08	40.73	38.27	37.00	37.83	44.02
40.64	35.08	40.90	45.05	37.80	31.96	38.88
27 FEB 56 UNIMAK	53 54 0. N	164 00 0. W	40.	20 43 00.3		
67.12	67.13	66.15	66.12	0.	67.90	67.00
65.70	67.92	0.	66.05	64.65	65.35	71.78
64.29	62.78	68.53	73.37	65.58	59.08	66.60
30 DEC 55 UNIMAK	54 18 00. N	164 18 00. W	28.	02 06 31.1		
00.00	00.00	00.00	00.00	00.00	00.00	39.75
00.00	40.50	41.00	38.70	37.43	38.00	44.42
41.12	35.40	41.22	40.05	38.25	32.30	39.32
02 JAN 56 UNIMAK	54 18 00. N	164 30 00. W	57.	04 52 17.1		
0.	0.	0.	23.50	23.55	25.00	24.10
22.75	24.90	25.55	23.20	21.80	22.45	28.80
00.00	20.05	25.65	30.52	22.75	16.80	23.75

FOX IS			NE 4300 - 4625 KM 300-304AZ				
07 MAY66 FOX IS	53 36	. N 167 16	. W	55.	17 09 16.0		
37.20	37.33	56.41	36.29	36.53	37.92	37.10	1716
35.72	37.78	0.	36.10	34.76	35.35	41.72	
38.40	32.91	56.45	0.	35.73	29.82	36.70	
15 MAY66 FOX IS	53 24	. N 167 48	. W	33.	04 34 11.0		
0.	37.42	56.45	36.30	36.65	38.00	37.20	0441
35.80	0.	56.55	36.24	34.90	0.	41.30	
38.55	33.08	56.60	43.42	35.85	29.99	36.85	
16 MAY66 FOX IS	53 24	00. N 167 54	00. W	015.	23 16 35.0		
63.63	63.92	62.95	62.80	63.10	64.48	63.70	2523
62.30	64.34	0.	62.68	61.42	61.95	68.20	
65.00	54.52	65.23	64.90	62.23	56.45	63.28	
05 MAY66 FOX IS	53 24	. N 168 42	. W	25.	00 22 27.0		
58.58	58.76	57.82	57.80	58.00	59.40	58.58	0029
57.20	0.	0.	57.55	56.30	56.98	63.18	
59.00	54.48	60.10	64.75	57.23	51.38	58.22	
24 APR66 FOX IS	52 42	. N 168 54	. W	68.	15 13 36.1		
65.38	65.68	64.70	64.53	64.90	66.20	65.38	1520
64.03	66.13	0.	64.41	63.13	63.85	70.00	
66.69	61.28	67.00	71.50	63.80	58.50	65.07	
16 FEB66 FOX IS.	52 24	00. N 169 36	00. W	47.	11 58 14.2		
49.80	0.	49.12	49.02	49.33	0.	49.88	1205
48.52	0.	51.28	0.	0.	48.40	54.47	
51.15	45.88	51.50	55.90	48.40	42.75	49.51	
03 JUL66 FOX	52 30	00. N 170 12	00. W	069.	03 55 15.7		
51.60	0.	50.98	50.82	0.	52.45	51.70	0402
50.29	52.38	53.06	50.62	49.42	50.10	56.18	
52.90	47.60	53.15	57.72	50.14	44.53	51.28	
30 MAR66 FOX IS.	51 54	0. N 170 36	0. W	33.	05 46 31.0		
13.28	13.35	0.	12.24	0.	13.90	13.18	0554
11.73	13.90	14.43	12.08	10.85	11.67	17.73	
14.36	09.08	14.70	19.20	11.66	06.10	12.83	
04 DEC65 FOX IS.	51 18	0. N 170 36	0. W	18.	02 11 40.9		
0.	0.	0.	36.10	36.45	37.60	36.90	0219
35.55	37.70	38.30	35.85	34.70	35.40	41.40	
0.	32.78	0.	42.68	0.	29.95	36.52	
30 NOV65 FOX IS	52 42	0. N 171 48	0. W	134.	12 37 26.0		
62.25	62.40	61.50	61.40	61.80	63.00	62.15	1244
60.90	62.95	63.60	61.15	60.00	60.50	66.70	
63.48	58.20	63.55	68.20	60.80	55.05	61.78	

ANDREANOF 15

NW 4/20 - 5200 KM 302-30542

19 JUL 66 ANDREANOF	51 42 00. N	175 18 00. W	047.	19 20 33.4	
26.70	20.98	26.04	27.90	26.28	29.52
27.38	29.50	00.03	27.80	26.47	27.16
29.90	24.73	0.	34.07	27.23	21.08
23 JUL 66 ANDREANOF-3	51 36 00. N	173 24 00. W	041.	14 39 48.3	
45.13	45.33	44.32	44.23	44.61	45.89
43.71	45.82	46.42	44.08	42.88	43.38
46.22	41.07	46.37	31.04	43.50	38.04
27 JUL 66 ANDREANOF	51 42 00. N	173 30 00. W	058.	10 17 22.5	
18.10	18.26	17.25	17.13	17.41	18.73
18.60	18.88	19.17	18.93	17.83	18.43
19.03	13.96	0.	23.88	18.36	11.00
23 JUL 66 ANDREANOF-2	51 42 00. N	173 30 00. W	059.	14 31 51.2	
46.38	40.53	45.68	45.45	45.88	47.14
44.97	47.13	47.74	45.31	44.11	44.82
47.51	42.27	47.87	32.23	44.82	39.32
23 JUL 66 ANDREANOF-1	51 42 00. N	173 36 00. W	041.	03 37 55.8	
53.04	53.28	52.34	52.19	52.60	53.87
51.71	53.82	54.40	52.02	50.83	51.80
54.33	49.05	54.65	59.11	51.64	46.10
15 NOV 65 ANDREANOF	51 54 0. N	173 48 0. W	48.	07 13 04.0	
00.00	00.00	00.00	00.00	00.65	00.00
0.	61.75	0.	0.	58.80	59.26
62.20	57.00	62.55	66.93	59.60	54.05
24 OCT 65 ANDREANOF	52 18 00. N	173 18 00. W	049.	03 39 07.7	
10.35	10.54	09.61	09.48	09.90	11.15
09.15	10.95	11.70	09.35	08.05	08.70
11.55	08.38	11.40	18.20	08.95	03.30
22 NOV 65 ANDREANOF-1	52 00 0. N	176 08 0. W	49.	14 00 27.0	
0.	0.	0.	33.00	33.38	34.62
32.80	39.32	35.18	33.00	31.65	32.17
35.00	29.90	35.04	39.70	32.52	0.
03 MAY 66 ANDREANOF	51 36 . N	176 48 . W	20.	12 06 54.0	
08.20	08.42	07.30	07.33	07.63	08.93
06.87	05.	09.44	07.20	05.99	08.26
09.32	04.20	09.34	13.98	08.83	01.18
20 JAN 66 ANDREANOF	51 42 0. N	177 00 0. W	54.	19 07 14.4	
26.28	26.50	25.58	0.	25.70	27.05
24.93	26.79	27.83	23.33	24.08	24.55
27.53	22.38	27.48	32.22	24.95	19.20
09 MAR 66 ANDREANOF	51 54 0. N	177 12 0. W	52.	08 11 04.0	
15.01	15.23	14.31	14.20	14.53	15.80
13.77	15.28	18.46	0.	12.62	13.28
16.13	11.02	16.04	20.88	13.62	07.93
24 FEB 66 ANDREANOF	51 48 00. N	177 18 00. W	65.	18 54 35.0	
40.40	45.61	45.72	45.00	0.	0.
0.	0.	0.	45.40	44.20	44.80
0.	42.40	47.61	0.	0.	39.43
05 JAN 66 ANDREANOF	51 42 0. N	178 08 0. W	33.	07 01 58.0	
17.32	18.03	17.29	18.95	17.30	18.60
0.	0.	0.	15.85	0.	15.15
19.00	13.00	0.	23.02	18.40	10.70
15 JAY 66 ANDREANOF	51 30 . N	178 24 . W	31.	14 46 05.5	
0.	27.40	28.61	28.40	26.70	27.94
25.97	27.77	28.35	28.30	23.02	25.50
28.51	28.46	28.19	33.13	28.04	20.30

CONTINUE

11 22 00

PAGE 1

17 MAY66 ANDREANOF	51 12	. N	178 18	. W	15.	09 11 51.0	
14.40	14.00	13.05	13.25	13.85	15.12	14.35	0920
13.10	14.98	0.	13.45	12.18	12.06	18.60	
15.58	10.44	15.45	20.22	13.03	07.38	14.04	
27 MAY66 ANDREANOF	51 24	00. N	178 30	00. W	033.	22 07 43.4	
0.	65.07	04.25	04.13	04.45	0.	65.01	2215
63.61	65.61	05.41	04.03	62.81	63.28	69.18	
66.14	61.05	05.98	70.00	03.62	57.92	64.60	
04 MAR66 ANDREANOF	51 30	0. N	178 36	0. N	53.	11 35 03.4	
22.55	22.75	21.90	21.75	22.17	23.50	22.60	1143
21.28	23.18	23.90	21.58	20.42	20.83	26.82	
23.80	18.60	23.69	28.45	21.30	15.58	22.25	
03 MAY66 ANDREANOF	51 30	. N	178 48	. W	30.	02 09.0	
30.42	30.68	29.05	29.01	29.90	31.23	30.42	0300
29.18	31.05	31.73	29.45	28.35	28.83	34.76	
31.72	20.52	31.68	36.31	29.22	23.42	30.18	
12 DEC65 ANDREANOF	51 30	0. N	178 54	0. W	50.	00 48 01.7	
0.	0.	0.	0.	22.50	23.70	23.00	0056
21.70	23.45	24.35	22.05	20.75	21.30	27.25	
24.25	19.10	24.00	20.85	21.75	16.05	22.65	
25 MAR66 ANDREANOF	51 30	0. N	179 36	0. W	33.	12 54 55.7	
22.30	22.43	21.53	0.	21.77	22.98	22.28	1303
20.93	22.70	23.58	21.37	19.98	0.	26.40	
23.51	18.28	0.	28.13	21.10	15.30	21.93	
23 NOV65 ANDREANOF	51 24	0. N	179 42	0. W	48.	02 17 49.4	
0.	0.	0.	14.05	14.35	15.70	15.00	0225
13.70	15.35	16.22	14.00	12.65	13.10	19.10	
16.20	11.00	15.90	20.90	13.70	.	14.60	
22 NOV65 ANDREANOF-2	51 18	0. N	179 48	0. W	40.	20 25 30.4	
0.	0.	0.	55.70	56.10	57.40	56.70	2033
55.40	57.10	00.00	00.00	54.40	54.85	60.75	
57.80	52.05	57.50	62.40	55.40	00.00	56.20	

RAI - NEAR IS

NW 2200 - 20/5 KM 304-310A2

27 OCT05 ANCHITKA	51 20 17. N	177 13 57. E	000.0	21 00 00.1	
00.00 00.00	00.00	00.00	00.00	00.00	2108
30.80 32.45	00.00	31.05	00.00	30.25	
33.25 20.15	32.75	37.90	30.00	25.05	31.70
06 DEC05 RAI IS.	51 30 0. N	177 24 0. E	37.0	01 22 36.0	
0. 0.	0.	0.	17.00	0.	18.25
17.00 18.72	0.	17.25	18.07	18.50	22.30
19.32 14.40	19.13	23.75	18.90	11.33	17.90
11 NOV05 RAI IS	51 42 00. N	170 12 00. E	104.0	02 21 24.4	
00.00 00.00	00.00	00.00	00.15	01.40	0.
59.50 0.	62.00	59.00	58.00	58.97	64.85
61.95 57.05	61.40	60.45	59.00	53.75	60.40
13 MAY06 RAI IS	51 00 00. N	170 12 00. E	035.0	07 54 42.0	
20.30 20.58	27.05	27.40	27.04	29.08	28.33
27.01 20.76	29.72	27.30	28.10	28.05	0.
29.50 0.	0.	34.22	27.03	21.29	28.00
02 JUN06 RAI IS	51 00 00. N	170 00 00. E	041.0	03 27 53.3	
0. 38.83	37.90	37.75	38.04	39.27	0.
37.22 39.13	39.78	37.09	38.32	38.72	42.52
39.73 34.72	0.	44.32	37.43	31.46	38.24
26 MAR06 RAI IS	50 54 0. N	175 54 0. E	44.0	13 16 48.0	
34.53 34.75	33.95	33.73	34.03	0.	34.52
33.20 35.02	33.83	33.59	32.37	32.72	33.61
35.70 30.75	0.	40.27	33.40	27.63	34.20
26 FEB06 NEAR IS	52 24 00. N	173 30 00. E	51.0	00 33 50.1	
40.31 40.05	39.72	39.53	39.70	0.	40.40
39.12 40.05	41.05	39.50	38.10	38.35	44.38
41.70 30.05	40.90	40.20	39.44	33.38	40.10
08 APR06 NEAR IS.	52 18 0. N	173 30 0. E	45.0	23 46 50.8	
41.61 0.	40.49	40.70	40.97	42.22	41.70
40.33 41.87	43.00	40.00	39.33	39.51	45.53
42.93 37.87	0.	47.45	40.78	34.53	41.27
05 DEC05 NEAR IS.	52 30 0. N	173 12 0. E	36.0	18 14 50.2	
0. 0.	0.	42.50	42.70	43.90	43.30
42.10 43.55	44.00	42.40	41.10	41.20	47.20
44.60 39.55	43.70	49.10	42.40	36.25	42.92
24 FEB06 NEAR IS	52 30 00. N	172 30 00. E	65.0	35 40 00.0	
00.00 0.	59.55	59.38	59.58	60.05	60.28
58.90 60.48	61.05	0.	58.00	58.18	64.20
61.60 50.50	60.48	60.05	59.39	53.18	59.90
13 JAN06 NEAR IS.	52 54 00. N	172 00 00. E	14.0	10 41 11.0	
11.05 11.40	11.55	10.35	10.00	11.75	11.20
10.00 11.35	12.47	10.30	08.97	09.15	17.05
12.62 07.55	11.35	10.90	0.	04.23	10.82
17 NOV05 NEAR IS	52 10 0. N	172 30 0. E	33.0	10 41 47.0	
0. 0.	0.	0.	21.55	0.	0.
20.72 52.20	23.25	21.15	19.90	20.05	22.90
53.35 40.35	22.35	27.00	21.20	0.	21.68
23 DEC05 NEAR IS.	52 42 00. N	172 00 00. E	64.0	01 59 22.0	
0. 0.	0.	14.00	15.00	16.20	15.70
14.37 15.05	15.90	14.75	13.35	13.00	19.65
17.00 11.90	15.95	21.20	14.05	08.00	15.27
16 JAN06 NEAR IS.	52 54 0. N	171 54 0. E	25.0	09 11 50.0	
07.80 00.05	47.30	47.05	47.30	48.50	43.05
06.72 40.21	49.2	47.10	45.00	45.05	51.80
04.35 44.27	40.37	23.90	0.	40.90	47.66

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PAGE 1

02 MAR 66 NEAR IS	52 24 00. N	172 18 00. E	40.	11 51 20.7	1200
17.00	17.25	16.45	16.22	16.48	17.11
15.80	17.35	16.30	16.20	16.55	21.10
16.52	16.45	17.20	22.07	16.30	16.78
08 JUN 66 NEAR	53 06 00. N	171 06 00. E	020.	19 56 21.3	2005
23.61	23.95	23.10	22.80	22.98	24.20
22.50	23.92	0.	22.80	21.46	21.62
25.20	20.00	23.90	29.50	23.15	18.76
14 JUL 66 NEAR	53 06 00. N	171 06 00. E	029.	18 07 04.1	1815
64.73	65.10	64.14	64.00	64.20	65.40
63.63	65.00	66.20	64.05	62.72	62.80
0.	61.24	65.12	70.75	0.	57.73
10 APR 66 NEAR IS	53 06 00. N	171 00 00. E	20.	10 39 51.0	1048
52.60	52.92	52.14	51.00	52.04	53.29
51.42	52.88	54.02	51.80	50.40	50.58
54.21	49.06	52.84	56.00	52.05	45.65
01 DEC 65 NEAR IS.	51 48 00. N	172 00 00. E	033.	07 26 25.0	0735
0.	0.	0.	25.20	0.	26.56
24.72	26.27	27.25	25.05	23.80	23.93
0.	22.27	26.42	51.77	25.00	19.05
14 NOV 65 NEAR IS A	53 18 00. N	170 18 00. E	33.	13 28 33.0	1337
0.	0.	0.	37.00	37.78	38.97
37.20	00.	39.70	00.	36.20	36.30
00.	34.90	00.	00.	00.	31.35

KAMCHATKA - KUMANDORSKY

NW 5850 - 6000 KM 312-315AZ

19 JUL 60 KUMANDORSKY	58 12 00. N	164 54 00. E	18.	01 40 53.9	
06.38	06.70	08.12	07.70	07.75	08.93
07.41	08.48	09.88	07.77	08.35	08.18
10.47	09.32	0.	14.59	08.92	01.53
16 JAN 60 KUMANDORSKY	54 54 00. N	165 48 00. E	15.	19 44 39.5	
55.60	55.90	55.25	55.00	55.10	0.
54.80	0.	0.	55.00	53.55	53.45
57.55	52.45	55.55	01.05	55.78	48.75
25 NOV 60 KAMCHATKA	54 12 0. N	163 00 0. E	35.	03 35 11.7	
34.78	35.37	34.60	34.25	34.28	35.50
33.98	35.00	36.38	0.	32.72	32.75
36.92	31.85	0.	41.00	35.28	28.20
18 NOV 60 KAMCHATKA	53 54 0. N	160 42 0. E	12.	21 58 12.4	
0.	0.	0.	0.	0.	0.
51.47	52.48	0.	51.97	50.45	0.
54.47	0.	0.	58.40	52.72	45.90
20 FEB 60 KAMCHATKA	53 00 00. N	159 48 00. E	44.	05 58 09.6	
51.29	51.83	51.13	50.84	50.84	0.
50.54	51.50	52.07	50.95	0.	49.27
53.38	48.53	0.	57.45	51.74	44.90
19 APR 60 E KAMCHATKA	53 06 0. N	159 18 0. E	62.	20 26 42.5	
23.43	23.84	23.25	0.	23.00	24.13
22.70	23.57	0.	0.	21.45	21.55
25.65	20.71	0.	29.02	23.93	16.95
05 FEB 60 KAMCHATKA C	52 48 0. N	150 48 0. E	44.	14 24 45.0	
31.39	31.85	31.20	30.85	0.	0.
30.63	31.53	32.08	31.04	29.56	29.38
33.44	26.53	31.32	37.45	31.56	24.09
21 DEC 60 KAMCHATKA	52 36 00. N	150 48 00. E	67.	00 32 00.7	
00.00	00.00	00.00	00.00	00.00	00.00
00.00	45.00	45.20	44.50	43.05	42.75
46.70	41.95	0.	0.	45.20	38.43
08 APR 60 KAMCHATKA 2	51 12 0. N	157 48 0. E	48.	05 24 44.6	
39.73	40.10	39.58	39.28	39.32	40.48
39.01	40.06	41.20	39.49	38.02	37.77
41.67	36.93	39.76	45.03	40.02	33.47
08 APR 60 KAMCHATKA 1	51 12 0. N	157 42 0. E	47.	01 46 44.9	
39.80	40.20	39.50	39.20	39.25	40.40
38.93	40.00	41.22	39.41	37.95	37.80
41.65	36.92	39.75	45.02	39.97	33.50
28 JAN 60 KAMCHATKA C	51 36 0. N	157 00 0. E	17.	22 38 12.2	
62.92	63.42	62.77	62.38	62.50	63.78
62.26	63.21	64.42	62.05	61.22	61.02
64.95	60.22	63.00	66.08	63.28	58.70
22 JAN 60 KAMCHATKA	51 24 0. N	156 54 00. E	151.	14 31 01.0	
46.60	47.10	46.51	46.15	46.15	47.30
45.85	0.	0.	0.	0.	44.05
48.60	45.90	46.57	52.40	46.85	40.42

KURILE IS AND SEA OF OKHOTSK NORTHERN GROUP

NW 0600 - 7075 KM 311-310AZ

21 JUN 66 KURILE	54 45 00. N	157 48 00. E	014.	23 06 25.9	
30.70	31.28	30.57	30.22	30.34	31.46
29.99	31.04	32.17	30.30	29.18	28.90
32.55	27.90	30.88	30.50	30.78	24.50
08 APR 66 KURILE	54 36 00. N	157 42 00. E	200.	23 05 36.0	
21.68	22.20	21.41	21.11	21.16	22.32
20.80	21.86	00.00	21.31	17.88	19.68
23.40	18.79	21.04	27.31	21.76	15.40
20 DEC 65 KURILE IS	50 24 00. N	150 36 00. E	033.	07 12 33.7	
00.00	00.00	00.00	00.00	38.20	39.40
37.90	30.85	00.00	38.25	38.95	36.88
00.00	35.90	38.68	00.00	38.75	32.43
11 DEC 65 KURILE IS	50 30 00. N	150 18 00. E	110.	12 18 59.9	
0.	0.	0.	60.30	60.32	61.50
60.02	60.98	62.18	60.45	59.10	58.77
62.60	50.05	0.	66.43	61.02	54.07
24 OCT 65 KURILE IS	49 42 00. N	150 06 00. E	030.	18 15 04.9	
17.74	19.06	17.35	17.10	17.15	18.40
16.95	17.90	00.00	17.30	15.95	15.75
19.40	14.95	17.75	23.40	17.70	11.65
05 FEB 66 KURILE IS	50 12 00. N	150 06 00. E	098.	16 16 01.0	
64.72	65.08	64.21	64.22	64.35	65.40
63.93	65.03	66.10	64.38	63.08	62.90
66.58	62.04	64.90	70.32	64.87	58.68
22 OCT 65 NW OF KURIL	51 36 00. N	150 12 00. E	400.	07 45 26.0	
0.	0.	0.	0.	57.05	0.
00.00	55.10	57.25	63.10	57.95	51.55
05 NOV 65 KURILE IS A	49 12 00. N	150 24 00. E	033.	03 03 22.0	
0.	0.	0.	0.	36.03	0.
35.70	0.	0.	0.	0.	40.20
0.	33.77	00.00	0.	36.47	30.40
07 NOV 65 KURILE IS	48 54 00. N	154 54 00. E	033.	14 12 38.0	
0.	0.	0.	54.10	54.12	55.30
53.72	54.73	55.80	54.16	52.92	52.70
50.25	0.	0.	60.30	54.51	48.51
21 NOV 65 KURILE IS	48 24 00. N	154 42 00. E	033.	06 10 56.0	
0.	0.	0.	0.	16.40	0.
16.10	17.05	18.10	16.40	15.20	15.05
18.55	14.15	0.	22.36	16.75	10.90
20 FEB 66 KURILE	48 00 00. N	150 00 00. E	33.	18 15 50.0	
10.90	11.37	10.62	10.35	10.65	0.
10.15	11.18	12.22	10.35	0.	09.05
0.	00.18	0.	10.30	10.68	04.33
03 MAR 66 KURILE	48 18 00. N	154 18 00. E	45.	03 25 28.0	
48.50	49.10	48.41	48.22	48.30	49.34
47.55	48.78	49.85	48.20	47.02	46.70
50.23	48.95	48.00	54.02	48.72	42.75
12 DEC 65 OKHOTSK	50 18 00. N	149 31 00. E	438.	19 25 09.1	
0.	0.	0.	0.	55.40	56.25
55.28	56.00	0.	55.65	54.25	54.00
57.75	0.	55.60	61.40	50.32	50.12

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SAKHALIN I.-SEA OF JAPAN-HOKKAIDO

NW

/550 - 8100 KM 312-317AZ

02 MAR66	SAKHALIN I.	47 12 00. N	144 18 00. E	356.	13 04 15.6	
39.38	39.85	39.25	38.88	38.81	40.00	39.92 1314
38.70	39.58	40.62	39.12	37.80	37.80	42.75
41.20	37.12	00.00	44.72	39.88	33.88	39.40
27 OCT65	SAKHALIN I.	46 00 00. N	142 54 00. E	230.	22 40 17.1	
0.	0.	0.	0.	0.	0.	2250
62.58	0.	0.	63.00	61.60	61.30	66.45
0.	60.90	62.95	68.40	63.65	57.65	63.20
19 MAR66	HOKKAIDO	43 18 0. N	145 48 0. E	11.	08 11 40.0	
55.02	55.38	54.82	54.58	54.53	55.65	55.40 0822
54.25	55.25	0.	54.65	53.49	53.29	58.32
56.58	52.60	55.13	60.15	55.03	49.48	55.00
18 FEB66	HOKKAIDO	44 18 00. N	143 06 00. E	225.	19 02 51.5	
44.80	45.12	44.62	0.	44.38	0.	45.18 1913
44.15	44.92	46.00	44.50	0.	43.05	48.18
46.42	42.50	44.70	50.00	45.22	39.25	44.80
05 MAR66	HOKKAIDO	42 48 0. N	143 06 0. E	120.	04 48 44.5	
56.25	56.66	56.07	0.	55.76	56.82	0.
55.50	56.48	57.50	55.92	54.75	54.52	59.57 0459
57.75	53.88	56.33	61.34	56.42	50.77	56.30
17 JUN66	HOKKAIDO	42 24 00. N	142 54 00. E	067.	08 48 33.2	
54.48	54.89	54.24	53.93	53.98	55.07	54.80 0859
53.75	54.68	55.64	54.10	52.94	52.70	57.77
56.04	52.10	54.51	59.50	54.67	49.02	54.46
23 JUN66	E SEA JAPAN	43 48 00. N	139 24 00. E	218.	05 01 42.4	
0.	48.03	0.	47.28	47.30	48.28	48.18 0512
47.08	47.90	48.90	47.42	46.19	45.94	50.95
49.40	45.50	47.60	52.60	48.22	42.30	47.73
28 FEB66	E SEA JAPAN	43 42 00. N	139 36 00. E	225.	02 02 13.6	
19.90	20.27	19.68	19.35	19.36	0.	20.28 0213
19.20	20.08	0.	19.55	18.35	17.98	0.
21.56	17.58	19.02	24.91	20.30	14.35	19.81

KURILE IS SOUTHERN GROUP

NW 7200 - 7700 KM 311-314AZ

10 FEB66 KURILE	47 12 00. N	150 48 00. E	168.	20 13 33.0			
0.	50.37	27.71	57.36	57.58	0.	58.38	2023
57.21	0.	29.20	57.52	58.30	58.98	61.35	
59.60	55.33	27.97	63.24	58.00	52.05	57.85	
19 NOV65 KURILE IS	45 18 00. N	150 24 00. E	013.	07 14 13.2			
0.	0.	0.	0.	0.	62.52	62.30	0724
0.	62.12	0.	61.48	60.32	60.18	65.38	
0.	59.32	62.05	67.12	61.75	56.28	61.85	
08 MAY66 KURILE	41 54 . N	150 30 . E	33.	08 29 57.0			
46.23	40.63	46.00	45.68	45.90	46.85	46.62	0840
45.45	40.53	0.	0.	44.76	44.50	49.64	
0.	43.67	46.40	21.41	46.03	40.57	46.19	
13 DEC65 KURILE IS	44 42 00. N	150 12 00. E	033.	14 46 10.2			
0.	0.	0.	61.00	0.	62.10	61.90	1456
0.	0.	0.	61.00	59.88	0.	64.88	
0.	58.90	0.	56.60	61.20	55.80	61.38	
22 JUN66 KURILE	45 24 00. N	149 12 00. E	033.	18 50 25.6			
0.	17.60	17.00	16.71	0.	17.80	17.62	1901
16.45	17.43	18.48	16.77	15.68	15.48	20.65	
18.72	0.	17.32	22.43	17.22	11.48	17.15	
18 DEC65 KURILE IS	44 42 00. N	149 24 00. E	033.	08 30 45.8			
00.00	00.00	00.00	00.00	36.90	37.95	37.68	0841
36.60	37.62	38.50	36.90	35.80	35.65	40.78	
38.83	34.80	37.32	42.50	37.15	31.70	37.30	
24 OCT65 KURILE IS	43 00 00. N	149 18 00. E	048.	18 45 38.3			
0.	32.20	0.	0.	31.35	0.	0.	1856
31.00	32.16	0.	0.	0.	30.00	35.20	
0.	29.25	31.95	37.05	31.70	26.20	31.80	
30 DEC65 KURILE IS	44 12 00. N	148 30 00. E	070.	16 56 56.2			
0.	0.	0.	30.25	0.	0.	0.	1707
50.10	51.00	22.08	30.30	49.30	49.20	54.10	
52.25	48.27	21.00	26.00	50.60	45.10	50.78	
29 NOV65 KURILE IS	43 06 00. N	146 30 00. E	153.	09 00 08.3			
55.40	55.75	25.20	24.90	24.95	56.00	55.80	0910
54.70	55.60	26.60	25.05	25.80	53.70	58.75	
57.00	53.00	25.37	0.	0.	49.88	55.33	
05 APR66 KURILE	44 00 0. N	147 42 0. E	33.	04 57 37.0			
38.90	39.32	38.71	38.34	38.42	39.52	39.33	0508
38.14	39.11	40.15	38.50	37.36	37.14	42.29	
40.31	36.39	39.12	44.02	38.83	33.31	38.84	
12 JAN66 KURILE IS	44 06 00. N	147 30 00. E	033.	01 38 10.0			
11.90	12.32	11.75	11.38	11.45	12.55	12.30	0149
11.23	12.20	13.15	11.60	0.	10.10	15.30	
13.50	09.40	12.15	17.10	11.85	06.32	11.88	
19 FEB66 KURILE	43 54 00. N	147 00 00. E	98.	22 48 55.0			
53.67	54.08	23.42	23.10	23.20	0.	54.00	2259
52.90	53.68	24.85	23.30	0.	51.92	57.05	
55.22	51.18	23.72	26.82	23.64	48.10	53.60	

HONSHU		NW		8390 - 9250 KM		507-313AZ	
02 APR 06 EAST HONSHU	38 42 0. N 141 24 0. E	39.	22 43 21.4				
63.78	64.18	63.55	63.20	63.37	64.32	64.04	2254
63.03	64.02	64.88	63.32	62.33	62.30	66.94	
65.15	61.49	64.08	0.	63.77	58.53	63.77	
23 JUN 06 CSI HONSHU	38 12 00. N 141 24 00. E	092.	21 51 57.4				
37.32	37.50	37.00	36.70	36.95	37.90	37.59	2203
36.43	0.	0.	36.80	35.97	35.80	40.40	
38.63	34.98	37.72	41.92	37.21	32.13	37.28	
09 MAY 06 HONSHU	38 24 . N 139 18 . E	20.	02 57 48.1				
41.90	42.30	41.75	41.45	41.45	42.50	42.24	0309
41.22	42.15	43.00	41.55	40.50	40.33	45.00	
43.35	39.67	42.10	46.64	42.00	36.71	41.95	
14 MAR 06 HONSHU	37 08 0. N 140 48 0. E	63.	06 38 06.5				
55.78	56.10	55.55	55.28	55.40	0.	56.02	0649
55.00	56.00	56.80	0.	54.38	54.23	58.81	
57.03	53.38	56.12	60.52	55.58	50.60	55.73	
14 NOV 05 HONSHU	36 48 00. N 140 48 00. E	067.	05 54 16.7				
0.	0.	0.	0.	0.	65.00	64.55	0605
00.00	64.80	0.	0.	63.00	0.	67.40	
65.50	62.00	64.85	0.	64.10	59.40	64.30	
03 APR 06 EAST HONSHU	36 42 0. N 140 48 0. E	68.	04 43 41.1				
31.55	31.95	31.30	31.08	31.20	32.18	31.80	0455
30.90	31.86	32.57	31.18	30.20	30.25	34.65	
32.68	29.20	31.85	36.12	31.30	26.53	31.53	
18 FEB 06 HONSHU	36 42 00. N 140 24 00. E	65.	00 27 53.6				
45.50	45.85	45.30	45.10	45.08	0.	45.80	0039
0.	45.71	46.80	45.10	0.	44.10	48.60	
46.74	43.18	46.03	50.12	45.35	40.40	45.50	
05 JAN 06 HONSHU	35 48 00. N 140 48 00. E	90.	05 46 34.3				
45.95	46.22	45.60	45.25	45.40	0.	46.10	0558
00.00	46.20	46.80	45.50	44.50	44.50	49.00	
47.10	43.52	46.50	50.40	45.55	40.90	45.85	
17 MAY 06 E C HONSHU	35 48 . N 140 30 . E	68.	00 59 06.3				
0.	62.13	61.55	61.38	61.40	62.38	62.08	0110
61.06	62.12	62.30	61.45	60.45	60.40	64.90	
63.00	59.45	62.18	66.35	61.52	56.70	61.80	
16 APR 06 E HONSHU	35 00 0. N 141 30 0. E	63.	10 13 28.0				
24.30	24.62	24.00	23.75	23.85	24.78	24.45	1025
23.60	24.60	25.30	23.80	22.85	22.90	27.38	
25.40	21.88	24.80	28.75	23.90	19.25	24.22	
05 APR 06 HONSHU	37 00 0. N 138 12 0. E	4.	08 51 16.4				
22.24	22.54	21.99	21.76	21.76	22.79	22.50	0903
21.53	22.42	23.28	21.81	20.82	20.76	25.16	
23.62	19.97	22.50	26.78	22.23	17.13	22.25	
14 JUL 06 S CSI HONSHU	35 36 00. N 140 00 00. E	071.	06 18 47.6				
45.01	45.30	44.78	44.51	44.59	45.54	45.22	0630
44.24	45.31	46.02	44.58	43.62	43.60	48.01	
46.19	42.68	45.45	49.41	44.72	39.93	44.94	
11 JAN 06 HONSHU	35 42 0. N 137 12 0. E	33.	14 18 32.2				
50.23	50.55	50.10	49.77	0.	0.	50.50	1428
0.	0.	51.21	49.85	48.90	48.93	53.12	
51.50	48.05	0.	54.00	50.00	45.38	50.22	
25 JUN 06 S. HONSHU	29 36 00. N 142 06 00. E	049.	01 46 10.4				
29.24	29.44	28.94	0.	28.63	29.70	29.36	0158
29.40	0.	0.	28.68	27.84	28.13	32.09	
30.04	26.78	30.13	33.22	28.30	24.26	29.14	

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27 NOV65 HONSHU-1	30 36	0. N	140 12	0. E	50.	03 04 20.6	
36.92	0.	38.70	38.50	38.55	0.	39.10	0316
00.00	39.30	39.85	38.45	37.82	37.75	41.77	
0.	30.58	39.00	42.95	38.30	0.	38.85	
27 NOV65 HONSHU-2	30 30	0. N	140 12	0. E	41.	03 44 04.9	
0.	20.20	25.78	25.65	25.60	0.	20.12	0350
25.20	25.32	26.95	25.40	24.65	24.75	28.80	
26.80	23.60	25.55	0.	25.30	21.35	25.90	
12 NOV65 HONSHU	30 30	00. N	140 12	00. E	040.	17 52 24.1	
0.	0.	0.	0.	0.	0.	44.65	1804
0.	44.90	45.50	44.00	43.20	43.40	47.35	
45.50	42.00	45.15	00.	43.80	39.80	44.45	
10 MAR66 S OF HONSHU	32 12	0. N	137 30	0. E	382.	04 26 19.6	
63.10	63.25	62.78	62.52	62.59	63.62	63.25	0437
62.25	63.35	63.95	0.	61.70	61.72	65.80	
64.00	60.80	63.51	67.20	62.67	58.33	63.03	
23 MAY66 HONSHU	30 00	00. N	139 48	00. E	028.	08 30 44.4	
10.02	10.20	09.73	09.45	09.65	10.55	10.07	0852
09.20	10.30	10.70	09.40	08.72	08.78	12.70	
10.72	07.68	10.60	14.00	09.20	05.30	09.85	

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BONIN-MARIANA-VOLCANO-CAROLINE IS

NW

9400 -10900 KM 292-30/AZ

19 JUL 66 BONIN IS	27 54 00. N	139 06 00. E	554.	06 22 21.0	
60.45	60.70	00.21	0.	0.	60.98 60.64 0633
0.	60.87	0.	59.94	0.	0.
0.	0.	01.23	64.26	59.76	56.08 60.49
05 JAN 66 MARIANA IS.	21 48 00. N	140 36 00. E	34.	18 10 00.0	
36.18	0.	35.95	35.70	36.00	0.
35.50	36.65	36.98	35.53	35.12	0.
36.40	33.65	0.	39.65	34.60	32.10 36.20 1822
10 FEB 66 MARIANA IS	20 48 00. N	140 18 00. E	43.	14 21 10.9	
50.98	51.08	50.57	50.48	50.72	51.52 50.87 1433
50.26	51.50	51.75	50.18	49.70	50.17 53.73
51.10	48.38	0.	54.30	49.50	46.80 50.89
29 MAR 66 VOLCANO IS.	23 42 0. N	142 06 0. E	79.	02 17 00.0	
16.08	16.13	0.	15.52	15.75	16.42 16.00 0230
0.	16.38	16.72	15.30	14.64	14.93 18.72
16.55	13.60	17.05	19.02	0.	11.73 15.90
20 NOV 65 MARIANA IS	21 54 0. N	143 48 0. E	33.	03 37 31.0	
0.	0.	0.	0.	0.	0.
36.82	37.00	38.02	36.62	36.05	0.
37.65	35.00	38.73	40.82	0.	33.22 37.32 0350
20 APR 66 MARIANA IS.	18 48 0. N	140 48 0. E	47.	06 43 00.0	
45.02	45.08	44.56	44.53	44.63	45.44 44.89 0655
44.16	45.48	0.	44.22	43.72	44.45 47.62
45.15	42.48	46.60	48.25	43.28	40.98 44.90
20 MAY 66 S MARIANA	13 54 . N	140 00 . E	66.	09 14 49.2	
0.	51.74	51.25	51.18	51.37	52.03 51.52 0927
50.90	52.15	52.22	50.78	50.38	51.00 54.32
51.78	49.15	53.32	54.74	49.88	47.68 51.50
20 JUL 66 S OF MARIANA	13 48 00. N	143 54 00. E	106.	20 50 50.0	
54.30	54.34	53.94	0.	0.	0.
0.	54.71	0.	53.45	0.	0.
54.41	51.80	0.	0.	52.58	0.
07 JUL 66 S. MARIANA	12 12 00. N	144 12 00. E	040.	09 46 33.2	
48.21	48.27	0.	47.82	47.92	0.
47.41	48.60	48.72	47.35	46.98	47.53 48.03 0959
0.	45.73	0.	51.22	46.43	44.30 48.12
07 JUN 66 CAROLINE IS	11 19 00. N	139 36 00. E	050.	13 59 36.0	
08.42	08.48	08.03	08.00	08.20	08.84 08.32 1413
07.65	08.93	3.	07.70	0.	07.65 10.98
08.62	00.05	09.92	11.48	06.88	04.63 08.35

CHINA SEA - RYUKYU - TAIWAN

NW 10000 -10790 KM 312-310AZ

04 JAN66 E CHINA SEA	29 30 00. N	127 18 00. E	71.	02 48 53.0		
47.60	47.88	47.45	47.07	47.15	48.12	47.87 0301
46.98	47.88	0.	47.25	48.35	46.22	50.05
48.85	45.00	47.75	51.55	47.65	43.05	47.62
21 MAR66 RYUKYU	26 06 0. N	129 05 0. E	33.	06 29 01.0		
09.42	09.71	09.25	09.00	09.15	10.00	09.70 0642
08.85	09.80	00.	09.05	08.22	08.28	11.88
10.40	07.35	09.80	13.20	09.17	05.10	09.40
20 MAY66 RYUKYU	25 24 00. N	128 18 00. E	058.	02 53 47.4		
0.	57.06	56.62	56.42	56.38	57.28	57.03 0306
56.13	57.02	57.65	56.35	55.52	55.60	59.25
57.85	54.70	57.15	60.00	56.55	52.50	56.80
21 FEB66 N.E. TAIWAN	26 18 00. N	125 42 00. E	103.	15 18 47.0		
54.05	54.38	53.90	53.62	53.68	0.	54.32 1331
53.46	54.50	54.98	53.75	0.	52.75	56.45
55.25	52.13	54.22	58.02	54.10	49.70	54.12
16 NOV65 RYUKYU IS	25 24 0. N	125 12 0. E	77.	17 05 37.9		
0.	0.	0.	0.	0.	0.	51.95 1718
0.	51.80	0.	51.25	0.	50.40	54.05
52.80	0.	0.	0.	51.60	47.37	51.63
10 JUL66 SW RYUKYU	24 12 00. N	125 12 00. E	028.	16 12 41.5		
06.61	06.88	06.50	06.20	06.40	07.18	06.83 1626
06.00	06.93	07.58	06.34	05.30	05.52	08.93
07.70	04.64	06.78	10.36	06.53	02.22	06.64
28 MAY66 TAIWAN	24 24 00. N	122 30 00. E	033.	00 03 56.8		
0.	26.72	26.35	25.98	26.07	26.75	26.72 0017
25.82	26.62	27.38	26.17	25.25	25.18	28.82
27.75	24.65	26.50	30.40	26.60	0.	26.42
12 MAR66 TAIWAN	24 06 0. N	122 36 0. E	63.	16 31 21.8		
48.02	48.15	47.73	47.42	47.62	48.50	48.05 1644
47.22	48.18	48.95	0.	48.55	46.57	50.29
49.19	46.01	48.00	51.70	48.02	43.50	47.93
23 MAR66 TAIWAN	23 48 0. N	122 48 0. E	51.	00 04 34.7		
63.05	63.40	62.90	62.50	62.55	63.45	63.30 0017
62.40	63.18	63.88	62.65	61.70	61.62	65.50
64.20	61.04	63.15	66.62	63.05	58.60	63.00

KAZAKH - SINKIANG

N

9310 - 9900 KM 349-353AZ

24 DEC 55 KAZAKH	49 54 00. N	070 00 00. E	0.	04 59 58.3	
00.00 00.00	00.00	00.00	39.75	40.70	41.10 0512
40.05 39.80	41.25	40.80	39.20	38.28	41.35
42.65 39.25	37.20	44.00	43.18	36.18	40.47
20 MAR 56 KAZAKH	49 54 . N	70 . E	0.	05 49 58.2	
31.20 31.08	31.50	30.95	30.72	31.67	31.98 0602
31.07 30.82	32.09	31.71	30.00	29.22	32.38
33.60 30.30	28.24	34.95	34.15	27.15	31.40
29 JUN 56 E. KAZAKH	49 54 00. N	070 00 00. E	000.	06 57 58.1	
30.50 31.11	30.82	30.32	30.00	30.88	31.21 0710
30.38 30.09	31.58	31.12	29.34	28.44	31.57
32.90 29.63	27.50	34.20	0.	26.43	30.70
05 AUG 56 E KAZAKH	49 54 00. N	070 00 00. E	0.	05 57 58.1	
30.45 30.98	30.82	30.25	30.00	31.00	31.31 0410
30.32 30.10	0.	31.08	29.47	28.58	31.80
32.90 29.51	27.59	34.20	33.48	26.50	30.72
21 JUL 56 KAZAKH	49 54 00. N	071 54 00. E	000.	05 57 57.8	
31.19 31.81	31.57	31.00	30.76	31.77	32.08 0410
31.00 30.83	32.30	31.85	30.17	29.31	32.38
33.61 30.28	0.	35.00	34.27	27.15	31.45
21 NOV 55 KAZAKH	49 48 0. N	070 06 0. E	0.	04 57 57.9	
0. 0.	0.	0.	30.15	31.20	31.45 0510
30.45 30.20	31.70	31.20	29.50	28.60	31.80
33.10 29.70	27.58	0.	33.50	26.63	30.88
13 FEB 56 KAZAKH	49 48 00. N	70 06 00. E	0.	04 57 57.7	
30.73 31.27	31.04	30.51	30.25	0.	31.50 0510
30.58 30.30	31.80	31.32	29.66	28.73	31.82
33.12 29.84	27.82	34.52	33.73	26.75	30.97
21 APR 56 KAZAKH	49 48 . N	70 . E	0.	05 57 58.0	
30.62 31.19	31.01	30.36	30.25	31.13	31.43 0410
30.51 30.29	0.	31.25	29.58	28.72	31.80
33.03 29.80	27.66	34.47	33.68	26.60	30.93
13 NOV 55 SINKIANG	43 48 00. N	087 48 00. E	059.	04 33 53.0	
0. 0.	0.	0.	43.90	44.70	45.00 0446
44.08 .	45.30	44.88	43.16	42.49	45.70
46.42 43.20	42.00	48.05	46.69	40.15	44.48

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HINDU KUSH AREA

N 10300 - 10900 KM 000-003AZ

30 APR 66 KIRGIZ SSR	41	N	72 06	0. E	19.	13 41 09.1	
22.58	23.08	22.97	22.40	22.19	22.90	23.28	1354
22.50	22.16	23.43	23.18	21.55	21.78	23.39	
24.80	21.80	19.02	25.70	25.40	19.04	22.82	
28 JAN 66 TADZHIK SSR	39 18	0. N	073 06	0. E	20.	08 52 02.2	
23.61	24.05	24.06	23.38	23.19	23.98	24.26	0905
23.50	23.26	24.55	24.18	22.80	21.80	24.40	
25.95	22.75	20.92	26.85	26.55	20.10	23.92	
31 MAR 66 HINDU KUSH	36 24	0. N	70 48	0. E	200.	23 38 00.5	
0.	0.	0.	0.	0.	0.	0.	2351
0.	0.	0.	0.	0.	10.85	13.32	
14.72	11.90	09.70	15.05	15.45	09.52	12.92	
16 NOV 65 AFGHAN-USSR	36 24	0. N	071 12	0. E	241.	01 03 55.7	
0.	0.	0.	05.00	05.55	06.25	06.60	0117
05.75	05.45	.	06.40	04.90	04.05	06.50	
8.00	0.	03.05	08.85	08.60	02.40	06.20	
04 JUN 66 HINDU KUSH	36 18	00. N	070 48	00. E	207.	05 11 54.2	
0.	0.	06.28	05.77	0.	0.	0.	0525
05.73	05.41	06.50	06.45	0.	04.08	06.54	
07.84	05.20	02.93	08.87	08.60	02.48	06.14	
06 JUN 66 AFGHAN-USSR	36 18	00. N	071 12	00. E	225.	07 46 16.2	
25.64	26.22	26.08	25.70	25.36	26.00	26.32	0759
0.	25.43	26.45	26.30	24.80	24.00	26.40	
27.90	25.13	23.02	28.74	28.59	22.38	26.02	

E. CAUCASUS

NNE 9300 - 9910 KM 018-025AZ

12 JUL 66 W. CAUCASUS	44 24	00. N	037 24	00. E	026.	18 53 08.5	
36.61	37.12	37.37	36.73	36.09	36.62	37.42	1905
37.08	35.87	37.23	38.04	0.	0.	36.18	
39.38	37.40	32.02	38.70	40.92	34.13	37.10	
02 MAR 66 E. CAUCASUS	43 00	0. N	45 48	0. E	24.	02 37 02.3	
49.48	49.96	50.14	49.01	49.00	49.61	50.30	0249
49.82	48.78	50.12	50.70	48.88	47.40	49.28	
51.95	49.93	45.22	51.73	53.30	46.88	49.93	
20 APR 66 E CAUCASUS	41 42	0. N	48 12	0. E	19.	16 42 03.7	
60.28	60.75	60.98	60.45	59.80	60.41	61.10	1654
60.68	59.80	0.	61.38	59.70	58.52	60.22	
62.65	60.50	56.22	0.	63.95	57.64	60.72	

YUGOSLAVIA-ALBANIA-GREECE-CRETE-W. TURKEY-MED. SEA NE

0750 - 9850 KM 032-041AZ

20 AUG66 YUGOSLAVIA	42 18 00. N	016 36 00. E	022.1	12 05 19.0		
22.31	22.98	23.48	22.81	22.10	22.51	23.35 1217
23.32	21.47	22.80	24.28	22.31	20.56	21.30
25.11	24.16	17.50	23.99	27.65	21.14	23.15
06 AUG66 YUGOSLAVIA	42 12 00. N	016 46 00. E	33.	02 31 08.0		
10.38	10.78	11.42	10.76	10.05	10.18	11.27 0243
11.25	09.38	10.88	12.15	10.23	0.	0.
13.00	0.	0.	11.05	15.50	09.00	11.02
09 AUG66 ALBANIA	40 18 00. N	019 54 00. E	33.	03 34 14.3		
28.30	28.82	29.34	28.73	0.	0.	29.20 0346
29.22	27.92	0.	29.98	0.	0.	27.22
0.	0.	23.65	29.72	33.36	27.17	29.00
16 AUG66 ALBANIA	40 18 00. N	019 54 00. E	33.	03 53 42.9		
57.94	58.46	58.98	58.40	57.73	57.84	0.
58.89	57.02	58.29	59.65	57.99	56.11	56.85 0405
0.	59.66	0.	0.	63.01	56.82	58.58
02 FEB66 GREECE-BULG	41 24 0. N	25 06 0. E	33.	20 08 06.3		
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	24.74	0.
29.43	0.	22.13	0.	31.63	25.32	27.46 2020
05 FEB66 GREECE 1	39 12 0. N	22 00 0. E	38.	02 01 48.3		
10.32	10.73	11.29	10.70	10.07	10.20	11.22 0214
11.17	09.43	10.67	11.92	10.22	08.42	09.19
12.78	11.68	05.66	11.08	15.08	09.14	10.93
05 FEB66 GREECE 2	39 12 0. N	22 12 0. E	45.	02 58 00.6		
22.68	23.12	23.72	23.13	22.43	22.64	23.54 0310
23.59	21.73	0.	24.33	22.58	20.80	21.63
25.20	24.27	18.00	24.03	27.60	21.48	23.33
11 JUN66 S. GREECE	37 30 00. N	021 12 00. E	051.	12 05 03.2		
29.22	29.71	30.28	29.70	29.11	29.22	30.04 1217
30.18	28.38	0.	30.85	29.20	27.53	28.13
0.	30.88	24.60	30.00	34.05	28.22	29.92
04 JUN66 MEDITERRAN SEA	36 36 00. N	021 00 00. E	080.	06 16 57.4		
0.	0.	24.49	23.88	0.	0.	0.
24.39	22.80	23.78	25.07	0.	21.73	22.36 0629
25.85	25.09	18.83	24.62	28.14	22.44	24.08
07 MAY66 TURKEY	37 48 . N	27 54 . E	12.	13 08 16.0		
59.80	60.22	60.73	60.19	59.60	59.72	60.60 1320
60.57	50.91	60.19	61.35	59.62	58.04	59.01
62.30	61.13	25.33	0.	64.28	58.45	60.36
28 NOV65 DODECANESE	36 06 0. N	027 42 0. E	89.	05 26 05.6		
45.95	46.30	46.80	46.30	45.65	45.80	46.75 0538
46.75	45.20	46.15	47.47	45.80	44.22	45.05
48.20	47.30	41.50	47.45	0.	44.55	46.45
11 MAR66 CRETE	34 24 0. N	24 24 0. E	22.	20 01 43.8		
34.10	34.50	0.	34.45	33.86	34.01	34.95 2014
34.80	33.21	34.45	0.	34.05	32.34	33.03
36.25	35.45	29.05	35.25	36.55	33.00	34.71
09 MAY66 TURKEY	37 12 . N	31 12 . E	125.	03 51 09.4		
48.05	48.52	48.97	48.40	47.83	48.10	48.83 0403
48.80	47.30	48.47	49.50	47.90	46.28	47.20
50.35	49.19	45.08	49.50	52.20	46.37	48.58
21 APR66 CRETE	34 48 . N	26 . E	52.	06 45 29.0		
15.47	15.90	16.37	15.88	15.28	15.35	16.20 0658
16.25	14.86	0.	16.98	15.35	13.81	14.58
17.73	10.86	11.08	10.65	19.00	14.30	16.08

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EASTERN TURKEY

NE 9950 - 10000 KM 024-025AZ

20 AUG66 TURKEY	39 18 00. N	040 54 00. E	037.	11 59 12.1	
08.35 08.90 09.18 08.57 08.02 08.44 09.12 1212					
08.84 07.63 08.88 09.69 07.93 06.49 07.90					
0. 09.04 04.24 10.27 12.30 06.12 08.84					
19 AUG66 TURKEY 2	39 12 00. N	041 06 00. E	033.	13 15 10.1	
07.11 07.65 07.91 07.30 06.82 07.21 07.93 1328					
07.60 06.38 07.64 08.40 06.60 05.13 06.66					
09.62 07.84 02.85 09.12 11.12 04.95 07.61					
19 AUG66 TURKEY 3	39 12 00. N	041 06 00. E	047.	14 17 57.5	
52.70 53.22 53.51 52.88 52.34 52.72 53.50 1430					
53.17 51.98 53.20 53.98 52.18 50.80 52.31					
55.15 53.42 0. 54.58 56.63 0. 53.20					
19 AUG66 TURKEY 1	39 12 00. N	041 42 00. E	026.	12 22 09.6	
08.42 09.00 09.28 08.62 08.13 08.61 09.36 1235					
08.94 07.72 09.03 09.79 08.04 06.52 08.07					
10.90 09.14 04.29 10.40 12.35 06.22 08.94					
07 MAR66 TURKEY	39 06 0. N	41 42 0. E	13.	01 16 05.8	
07.64 08.12 08.44 07.80 07.30 07.76 08.49 0129					
08.12 06.82 08.27 09.00 07.21 05.71 07.30					
10.10 08.30 03.53 09.63 11.68 05.45 08.17					

NORTHERN MID-ATLANTIC RIDGE

NE 4700 - 5100 KM 049-055AZ

19 JUL66 N ATL RIDGE	55 42 00. N	036 18 00. W	33.	10 08 37.0	
35.68 36.43 37.16 36.32 0. 35.60 0. 1016					
37.03 34.27 36.11 36.26 36.00 33.48 33.68					
39.38 0. 28.90 36.82 0. 35.70 36.59					
19 JUL66 N ATL OCEAN	55 30 00. N	035 24 00. W	33.	00 20 11.0	
0. 0. 0. 13.42 0. 0. 0. 0028					
0. 11.43 0. 0. 0. 0. 10.82					
0. 0. 0. 13.65 0. 0. 13.78					
13 JUL66 N ATL OCEAN	56 48 00. N	034 06 00. W	024.	10 34 02.8	
68.23 69.02 69.72 68.91 67.93 68.28 69.51 1042					
69.54 66.85 0. 70.82 68.47 65.97 66.45					
72.06 71.25 61.53 69.77 75.75 68.02 69.18					
19 JUL66 N ATLANTIC OC	55 24 00. N	034 48 00. W	33.	02 05 06.0	
11.50 0. 12.92 12.12 0. 0. 0. 0213					
12.92 0. 12.00 14.08 0. 0. 09.50					
15.17 0. 0. 12.68 0. 0. 12.46					
08 APR66 N ATL OCEAN	52 42 0. N	33 12 0. W	33.	05 52 40.4	
59.50 60.11 60.92 60.18 59.20 59.38 60.63 0600					
60.88 58.10 59.83 62.02 59.90 57.50 57.30					
62.98 62.77 52.96 60.18 66.62 59.93 60.41					

AZORES IS

E 6000 - 6500 KM 065-071AZ

04 APR66 AZORES IS 2	38 12 0. N	31 18 0. W	33.	20 48 38.8	
61.83 62.34 63.18 62.70 61.95 61.51 62.72 2057					
63.42 60.70 61.80 63.97 62.81 60.74 58.86					
64.02 65.33 56.22 60.33 67.86 63.95 62.65					
04 APR66 AZORES IS 1	38 00 0. N	31 12 0. W	33.	20 44 58.3	
0. 21.00 21.76 21.42 20.56 20.30 21.43 2054					
22.18 19.38 20.45 22.75 21.58 19.46 17.48					
22.82 24.15 0. 19.10 26.60 22.70 21.41					
04 JUL66 AZORES	39 00 00. N	023 54 00. W	33.	23 49 53.0	
0. 40.18 40.88 0. 0. 47.52 48.60 2359					
49.17 0. 47.72 0. 0. 46.53 44.97					
50.07 0. 0. 46.08 0. 0. 48.50					

11 22 60

PAGE 1

EQUATORIAL MID-ATLANTIC RIDGE

E 9000 - 9400 KM 096-101AZ

14 MAR 66	MID ATL RIDG	00 54	00. N	27 42	00. W	33.	03 21 31.7	
48.00	48.20	48.90	48.82	48.51	47.65	48.30		0333
49.30	47.65	47.45	0.	49.25	48.30	45.00		
48.18	51.00	45.35	44.70	50.48	51.30	48.48		
01 JAN 66	MID ATL RIDG	00 36	00. N	025 24	00. W	33.	19 25 50.9	
00.00	00.00	00.00	00.00	16.60	15.90	16.52		1938
17.42	00.00	15.45	00.00	17.35	16.47	13.22		
16.37	19.07	13.45	13.08	18.75	19.22	16.66		
12 JUN 66	S ATL OCEAN	03 00	00. S	028 12	00. W	018.	20 20 58.1	
28.12	28.13	28.80	28.81	28.45	27.70	28.30		2033
29.30	27.50	27.30	29.08	29.40	28.60	25.12		
27.97	30.95	25.62	24.60	30.22	31.35	28.49		

NORTHERN WEST INDIES

ESE 4600 - 5260 KM 112-118AZ

10 SEP66	MUNA PASSAG	19 16 00. N	067 54 00. W	028.	21 58 46.8	
33.93	33.68	34.57	34.91	34.82	33.20	2206
35.50	33.52	32.27	34.98	36.87	35.45	
32.50	38.32	0.	27.07	35.46	41.20	34.25
13 JAN66	VIRGIN IS.	19 06 00. N	064 42 00. W	41.	10 30 51.1	
53.90	53.70	54.65	54.88	54.60	53.20	53.92 1038
55.50	53.38	52.40	55.17	56.55	55.45	49.20
52.90	58.45	51.82	47.45	0.	60.68	54.30
16 JUL66	VIRGIN	18 12 00. N	064 36 00. W	130.	20 09 51.1	
51.30	51.04	51.98	52.18	51.98	50.51	51.21 2017
52.79	50.80	49.00	52.37	53.98	53.02	46.68
49.98	55.56	0.	44.74	52.87	58.00	51.59
24 APR66	LEEWARD IS	17 42 . N	60 36 . W	33.	23 04 03.0	
35.92	35.63	36.62	0.	36.50	35.23	35.88 2312
37.47	35.45	0.	37.15	38.57	37.22	31.37
35.02	40.38	33.58	29.65	38.00	42.00	36.23
15 JUL66	LEEWARD IS.	16 54 00. N	061 30 00. W	089.	08 00 00.7	
27.78	27.52	28.70	0.	28.46	26.90	27.72 0808
29.30	0.	26.19	28.95	30.38	29.22	23.22
0.	32.13	25.57	0.	29.68	34.10	28.18

SOUTHERN W. INDIES - VENEZUELA

ESE 5660 - 5710 KM 118-121AZ

09 JAN 66	WINDWARD IS	11 30	00. N	062 18	00. W	156.	09 11 30.3	
17.73	17.32	18.17	18.50	18.40	16.98	17.45		0920
18.93	17.38	0.	18.50	0.	19.67	13.30		
16.10	21.60	16.80	11.45	0.	24.12	18.00		
14 MAY 66	VENEZUELA	10 30	0. N	63	0. W	16.	20 27 27.4	
0.	33.23	34.10	34.43	34.30	32.85	33.30		2036
34.90	33.28	31.92	0.	36.26	35.68	29.30		
00.	37.40	32.74	00.	35.06	40.05	33.85		

EASTERN MEXICO

SE 3400 - 3800 KM 156-165AZ

21 DEC65 GUERRERO MX	16 48 00. N	098 06 00. W	53.	08 41 00.4	
0.	0.	0.	0.	12.50	10.70
12.10	12.10	09.20	10.70	14.20	15.60
06.65	13.35	16.30	03.50	06.65	19.20
22 JAN66 CHIAPAS MEX	17 24 0. N	94 06 0. W	139.	07 36 49.3	
54.75	54.20	0.	25.58	55.70	54.15
55.75	55.32	22.62	0.	57.78	58.85
50.55	57.25	0.	46.80	50.88	62.95
02 APR66 OAXACA MEX	16 30 0. N	97 24 0. W	42.	01 52 38.3	
54.00	53.08	23.75	54.60	54.76	53.28
54.52	54.53	21.70	23.77	26.65	28.03
49.30	55.87	28.63	45.88	49.25	61.65
06 FEB66 MEXICO	15 54 00. N	93 36 00. W	92.	04 12 26.9	
49.40	48.75	49.20	20.10	50.30	48.68
50.20	49.73	47.18	49.03	22.15	53.35
45.22	51.83	23.25	41.28	45.60	57.40
19 FEB66 OAXACA MEX	15 24 00. N	94 12 00. W	43.	02 00 44.0	
14.80	13.90	14.55	15.28	15.78	0.
15.50	15.10	12.50	14.30	0.	18.75
0.	16.90	18.80	06.65	10.55	22.65
12 JAN66 OAXACA MEX.	15 18 0. N	94 24 0. W	51.	12 20 29.1	
60.85	60.20	60.75	61.50	61.88	60.10
61.65	61.30	28.65	0.	63.65	64.82
56.40	63.15	05.02	22.80	0.	68.80
07 MAR66 CHIAPAS MEX	14 30 0. N	93 12 0. W	22.	09 10 54.5	
38.12	37.42	38.03	38.85	39.15	37.39
38.92	0.	35.95	37.85	41.01	42.03
34.80	40.67	41.87	30.08	34.36	46.14
09 FEB66 CHIAPAS MEX	14 18 0. N	93 00 0. W	53.	00 55 19.8	
61.72	61.03	61.62	62.35	0.	60.88
62.52	62.11	0.	61.25	64.48	65.21
57.42	64.20	65.40	23.60	57.81	69.62
16 AUG66 CHIAPAS	14 18 00. N	092 54 00. W	40.	15 00 46.0	
0.	28.62	0.	29.98	0.	0.
30.05	0.	0.	0.	0.	0.
25.10	31.88	0.	21.20	25.42	37.20

11 22 60							PAGE	1
NORTHERN CENTRAL AMERICA							SE	3800 - 4200 KM 149-155AZ
17 JAN 66 GUATEMALA	14 00 00. N	091 42 00. W	126.	14 42 22.9				
0.	62.65	63.35	63.95	0.	0.	62.25		1448
64.15	63.70	0.	62.95	66.10	67.15	59.75		
59.30	65.80	66.80	55.35	59.70	71.20	63.30		
13 MAR 66 HONDURAS	14 24 00. N	80 24 00. W	21.	21 46 22.0				
21.12	20.50	21.20	21.80	22.15	20.40	20.10		2153
22.15	21.38	0.	0.	23.95	24.54	17.31		
17.41	24.00	23.80	13.22	18.20	28.90	21.15		
04 APR 66 EL SALVADOR	13 48 00. N	89 42 00. W	108.	19 50 07.6				1956
0.	56.48	57.11	57.82	58.08	56.20	56.13		
57.95	00.	54.95	56.75	59.92	00.	53.46		
53.15	59.72	60.18	49.18	53.85	64.90	57.04		
07 AUG 66 EL SALVADOR	13 30 00. N	089 48 00. W	71.	05 33 40.2				0540
35.64	34.88	35.60	36.34	36.62	34.67	34.73		
30.48	30.03	0.	35.49	0.	39.39	32.00		
31.70	30.33	08.73	27.68	32.32	43.56	35.55		
01 JUL 66 EL SALVADOR	13 42 00. N	088 24 00. W	201.	20 17 49.3				2024
0.	0.	0.	0.	0.	0.	0.		
0.	34.35	32.00	33.92	36.95	37.43	30.28		
33.40	36.90	66.73	26.25	0.	41.85	34.00		
16 DEC 65 EL SALVA.-A	13 00 00. N	088 48 00. W	33.	05 22 54.0				
00.00	00.00	00.00	00.00	64.10	62.40	00.00		0529
64.15	63.42	00.00	63.05	60.00	66.70	59.35		
59.35	62.95	62.05	55.32	00.00	70.90	63.15		
13 JUL 66 NICARAGUA	12 36 00. N	087 42 00. W	061.	08 20 59.4				0827
67.47	66.66	67.57	68.17	68.33	66.70	66.71		
68.41	67.70	65.47	67.42	70.32	70.95	63.78		
63.90	70.39	70.20	59.72	64.73	75.23	67.42		
24 JUL 66 CENT AMERICA	12 12 00. N	088 36 00. W	33.	18 50 55.0				1857
0.	0.	0.	0.	68.00	0.	0.		
67.98	67.32	0.	66.90	0.	70.54	0.		
63.22	67.73	0.	59.18	64.00	74.82	67.02		
04 MAY 66 NICARAGUA	12 30 00. N	87 36 00. W	60.	18 13 54.3				1820
64.60	64.00	64.63	0.	65.53	0.	0.		
65.54	64.82	0.	0.	67.40	68.13	60.92		
00.	00.	67.35	56.87	00.	72.40	64.55		

11 22 66

PAGE 1

SOUTHERN CENTRAL AMERICA

SE 4600 - 5200 KM 144-14/AZ

10 JUL 66 COSTA RICA	09 54 00. N	083 42 00. W	33.	19 18 59.0	
43.82	43.28	43.95	44.55	44.64	43.04
44.79	43.85	41.88	43.94	46.53	47.00
0.	40.98	45.87	36.29	0.	43.88
09 APR 66 COSTA RICA	09 24 0. N	84 12 0. W	40.	02 34 23.0	
66.64	66.12	66.76	67.34	67.50	65.80
67.65	66.76	64.76	66.70	69.39	69.88
0.	69.65	68.95	59.14	64.41	74.18
25 JAN 66 PANA-COST R	08 48 00. N	82 48 00. W	71.	16 59 53.0	
44.80	44.23	45.01	45.53	45.72	44.11
0.	44.90	42.88	44.96	47.63	48.08
41.60	47.87	46.93	37.42	42.69	52.38
09 MAY 66 COSTA RICA	06 24 . N	83 . W	37.	05 30 06.0	
62.90	62.32	62.95	63.00	63.70	62.09
63.86	63.00	61.00	63.00	65.55	66.04
69.60	65.90	64.95	55.37	60.90	70.32
01 APR 66 SO PANAMA	05 06 0. N	82 30 0. W	39.	15 19 51.8	
16.07	15.52	16.25	16.83	16.92	15.31
17.00	16.18	14.14	16.13	18.68	19.30
12.87	16.92	18.37	00.	14.03	23.45
15 APR 66 SO PANAMA	05 00 0. N	82 24 0. W	33.	06 42 59.7	
24.67	24.20	24.83	25.40	25.59	24.00
25.65	24.83	22.80	24.77	27.38	27.90
21.52	27.63	27.00	17.53	22.68	32.00

NORTHERN COLUMBIA

SE 2100 - 2470 KM 135-138AZ

30 MAY 66 NO COLUMBIA	07 36 00. N	077 00 00. W	033.	03 09 34.4	
0.	0.	29.00	59.46	57.98	58.18 0317
54.80	58.02	58.00	59.20	61.40	61.75
55.15	62.22	59.90	51.55	0.	66.32 58.75
29 MAR 66 NO COLUMBIA	07 12 0. N	73 42 0. W	185.	10 06 14.0	
36.12	32.80	0.	38.95	37.05	35.37 35.70 1014
0.	38.05	34.24	38.05	38.90	39.13 31.88
34.11	39.77	36.83	29.15	0.	43.60 36.23
07 MAR 66 N. COLUMBIA	07 00 0. N	73 00 0. W	144.	10 24 44.0	
15.57	12.13	15.90	16.40	16.45	14.86 15.11 1033
16.80	12.55	13.74	0.	18.41	18.48 11.27
13.42	19.11	18.30	08.07	15.28	22.92 15.65
21 APR 66 NO COLUMBIA	06 54 0. N	73 06 0. W	152.	08 18 23.9	
55.40	54.88	55.00	56.15	56.20	54.50 54.83 0826
58.50	55.20	0.	55.82	58.15	58.15 51.02
55.12	58.88	56.10	48.40	55.02	62.65 55.52
24 JUN 66 N. COLUMBIA	06 54 00. N	073 06 00. W	142.	20 00 07.0	
39.63	39.12	39.90	40.38	40.40	38.85 39.10 2008
40.60	39.54	37.71	40.10	42.33	42.54 35.33
37.52	43.13	40.20	32.61	0.	46.86 39.70
10 APR 66 NO COLUMBIA	06 54 0. N	73 00 0. W	155.	10 33 35.0	
65.42	64.97	65.75	66.15	66.38	64.71 65.02 1041
66.65	65.38	63.70	65.90	68.22	68.33 61.12
63.28	68.98	68.13	58.43	65.08	72.60 65.58
30 NOV 65 N. COLUMBIA	06 54 0. N	073 00 0. W	159.	09 18 11.6	
42.95	42.55	43.15	43.60	43.70	42.15 42.50 0924
44.20	42.90	41.12	43.48	45.80	45.75 38.80
40.70	46.40	00.00	36.00	42.65	50.22 43.15
21 DEC 65 N COLUMBIA	06 54 00. N	073 00 00. W	172.	12 25 43.0	
0.	0.	0.	13.70	13.80	12.10 12.40 1234
14.10	12.00	11.05	13.40	15.70	15.70 08.80
10.65	18.50	13.65	05.95	12.60	20.00 13.05
20 FEB 66 N COLUMBIA	06 54 00. N	73 00 00. W	152.	04 10 27.5	
59.08	58.60	59.37	59.92	60.00	0. 58.62 0418
60.32	59.05	57.23	59.82	0.	61.97 54.80
57.03	62.64	59.90	52.12	58.80	66.39 59.22
07 JUL 66 N. COLUMBIA	06 54 00. N	073 00 00. W	147.	00 10 30.5	
62.52	0.	0.	63.20	63.23	61.68 61.88 0018
63.68	62.40	60.80	62.97	65.20	65.40 58.12
60.40	68.02	63.17	55.50	62.10	69.78 62.53
06 JAN 66 N COLUMBIA	06 48 00. N	073 06 00. W	168.	04 19 59.3	
0.	29.25	29.90	30.55	0.	28.95 29.40 0428
30.95	29.70	27.90	0.	0.	32.78 25.50
27.50	33.30	30.05	22.75	29.33	36.90 29.95
12 JUN 66 N. COLUMBIA	06 30 00. N	073 00 00. W	142.	03 56 20.0	
54.11	53.88	54.47	54.88	55.09	53.35 53.59 0404
55.39	54.08	52.27	54.82	58.92	57.10 49.84
52.07	57.70	54.90	47.14	53.80	61.49 54.18

PE: U-BRAZIL-EQUADOR

SE 0000 - 0400 KM 143-149A2

24 AUG 05 ECUADOR	01.30	00.5	077	36	0.4	104.	23 10 08.0	
13.42	14.04	15.27	16.12	16.27	16.71	14.82	2019	
16.43	17.30	18.54	19.51	19.06	18.57	11.70		
12.73	16.45	17.24	08.08	13.40	22.28	17.40		
28 JAN 06 PERU*ECU	03.54	0.5	80	34	0.4	19.	13 29 18.4	
11.34	50.82	21.48	22.02	0.	30.71	50.64	1538	
0.	51.30	12.56	51.40	23.43	0.	47.85		
48.32	54.62	23.77	44.03	47.22	38.13	51.33		
12 JAN 06 PERU*ECU	02.18	00.5	077	00	00.4	182.	08 02 09.6	
10.00	24.48	25.28	25.05	29.80	24.10	0.	0511	
23.20	27.08	0.	25.10	27.00	25.07	21.24		
22.07	27.90	20.80	10.40	0.	31.70	24.95		
29 DEC 05 PERU*ECU	03.12	00.5	077	10	00.4	24.	04 08 24.1	
00.00	00.00	00.00	00.00	02.28	00.70	00.85	0417	
52.40	01.50	29.38	01.28	03.40	04.42	27.67		
08.62	04.35	03.24	04.77	09.77	08.12	01.40		
20 AUG 06 PERU*ECU	03.12	00.5	077	12	00.4	116.	07 43 27.6	
54.60	54.68	24.74	25.32	25.40	23.82	53.97	0752	
55.60	54.70	22.73	24.74	27.17	57.08	51.02		
51.86	57.50	26.40	46.00	23.00	61.30	24.60		
23 MAR 06 PERU*BRAZIL	07.18	0.5	74	48	0.4	137.	21 57 09.6	
17.35	0.	0.	08.10	0.	06.08	06.75	2207	
08.33	07.60	0.	07.52	09.90	10.43	04.00		
04.75	10.37	09.35	01.12	06.00	13.75	07.48		
21 MAY 06 PERU*BRAZIL	08.06	0.5	074	24	0.4	160.	07 44 20.0	
0.	21.10	21.00	22.32	22.24	20.43	21.02	0754	
22.63	21.77	19.86	21.03	24.15	24.01	18.15		
19.05	24.45	23.35	15.33	20.12	27.47	21.63		
09 SEP 06 PERU*BRAZIL	08.12	00.5	074	12	01.4	156.	04 04 03.7	
07.70	07.14	07.42	08.37	08.45	06.40	07.04	0414	
08.67	07.72	09.88	07.40	10.11	10.03	04.10		
15.04	10.24	04.40	01.40	06.20	13.73	07.60		
01 MAY 06 PERU*BRAZIL	08.24	00.5	074	10	00.4	134.	08 50 18.9	
0.	23.28	24.00	24.22	24.62	23.08	23.14	0400	
24.73	23.85	22.07	23.48	26.32	26.78	20.22		
21.13	29.05	25.20	17.20	22.38	30.10	23.77		
13 JAN 06 PERU*BRAZIL	08.24	00.5	074	00	00.4	190.	14 17 10.8	
12.10	11.05	12.20	12.80	12.85	0.	0.	1427	
0.	12.20	10.20	12.32	14.00	15.12	04.52		
14.62	12.00	13.05	05.45	0.	14.45	12.05		

PERU - BOLIVIA

SE /400 - 7950 KM 142-148AZ

16 JUN06 CST. PERU	14 48 00. S	070 00 00. W	022.	08 13 25.8	
17.70	17.25	17.87	18.44	18.58	17.02
18.63	17.95	15.94	17.85	20.12	20.70
14.97	20.33	19.83	11.49	15.85	23.63
19 JUN06 CST. PERU	14 54 00. S	075 54 00. W	029.	15 40 47.6	
40.25	39.76	40.45	41.02	41.14	39.60
41.25	40.47	0.	40.39	42.78	43.38
37.61	42.96	42.44	34.12	38.48	46.25
07 JUN06 PERU	15 00 00. S	075 48 00. W	048.	00 59 48.6	
36.84	30.27	36.90	37.38	37.82	36.19
37.70	37.12	0.	36.00	39.20	39.82
34.24	39.48	38.98	30.69	35.16	42.77
07 JUN06 PERU	15 06 00. S	075 54 00. W	042.	03 24 17.2	
0.	09.35	10.02	10.61	10.70	09.18
10.86	10.03	0.	09.96	12.42	12.83
07.18	12.52	11.94	0.	08.04	15.90
09 FEB06 PERU CST	15 12 0. S	75 12 0. W	54.	15 13 30.1	
23.43	23.05	23.55	24.10	24.30	22.78
24.40	23.65	21.80	23.48	25.86	26.29
20.90	25.90	25.38	17.38	21.74	29.23
02 JUN06 S. PERU	15 30 00. S	071 30 00. W	121.	17 05 38.0	
0.	34.48	35.03	35.50	35.68	34.18
35.72	35.02	33.38	35.00	37.22	37.68
32.51	37.50	36.42	29.00	33.41	40.58
10 FEB06 PERU	16 42 00. S	75 54 00. W	13.	10 43 30.3	
40.27	39.67	40.33	40.84	41.08	39.48
41.12	40.35	0.	40.25	42.66	43.04
37.65	42.77	42.02	0.	38.51	45.90
04 JAN06 S PERU	15 24 00. S	070 54 00. W	189.	12 48 13.2	
63.30	62.80	63.50	64.00	64.10	62.60
64.20	63.45	61.60	63.50	65.60	66.00
61.00	65.90	64.80	57.50	62.00	68.90
09 FEB06 PERU	16 42 00. S	72 54 00. W	33.	03 55 00.9	
10.42	0.	10.54	11.11	11.25	09.71
11.36	10.62	08.66	10.54	0.	13.16
07.96	13.04	12.14	04.52	00.87	16.08
30 DEC05 S PERU	16 48 00. S	071 12 00. W	118.	06 16 05.9	
0.	0.	0.	0.	09.40	0.
69.35	68.60	68.80	68.52	70.75	71.08
65.10	71.00	69.92	62.55	67.68	73.90
02 DEC05 PERU=BOL	16 24 0. S	69 36 0. W	190.	00 36 30.1	
0.	0.	0.	0.	28.50	27.00
28.60	27.75	25.95	27.88	29.95	0.
25.45	30.20	28.90	22.00	0.	33.10
02 MAY06 PERU=BOLIV	16 30 . S	68 54 . W	138.	21 34 01.0	
08.03	07.50	08.19	08.76	0.	07.32
08.92	08.09	0.	08.12	10.52	10.53
05.89	10.60	0.	02.42	06.80	13.40
15 MAR06 PERU=BOL	16 36 0. S	69 00 0. W	172.	03 46 27.0	
31.03	00.	31.18	31.78	31.90	30.35
31.98	31.20	29.40	31.20	33.37	33.59
28.82	33.67	32.38	25.40	29.63	36.45

NORTHEN CHILE - BOLIVIA BORDER AREA						SE	0000 - 0500 KM	141-14042
14 JUN 66 CHILE	18 35 00. S	070 00 00. W	140.	08 54 58.4				
13.00	14.44	23.14	13.00	13.70	12.30	12.30		0900
13.90	13.00	11.20	13.00	13.30	15.23	09.80		
10.84	12.44	14.20	07.40	11.02	18.20	13.03		
07 JAN 66 N CHILE	18 54 00. S	007 30 00. W	101.	03 53 48.0				
10.00	00.00	00.00	00.00	11.90	10.44	10.50		0405
12.07	11.25	09.90	11.27	13.40	13.07	07.90		
17.00	13.04	12.40	05.20	10.00	10.50	11.10		
30 DEC 65 N. CHILE	19 00 00. S	009 30 00. W	110.	10 42 44.5				
0.	0.	0.	00.00	00.72	05.47	05.45		1053
06.00	06.20	04.44	06.20	00.30	00.00	02.00		
03.90	00.20	07.25	00.20	04.90	71.35	00.07		
02 MAR 66 BOLIVIA	19 12 0. S	07 00 0. W	274.	05 50 28.0				
32.04	32.30	33.00	33.30	33.60	32.15	32.23		0507
33.70	33.00	31.19	30.00	35.10	35.21	29.63		
30.04	32.40	34.00	27.30	32.02	30.07	32.90		
11 MAR 66 N CHILE 1	19 30 0. S	07 12 0. W	115.	01 48 34.8				
59.24	50.70	59.41	59.99	00.00	50.50	50.54		0159
00.20	58.37	57.00	0.	01.40	01.07	50.04		
57.02	61.07	00.51	23.02	50.04	64.30	59.20		
27 DEC 65 N CHILE	19 30 00. S	069 24 00. W	117.	11 35 11.2				
00.00	00.00	00.00	00.00	33.75	34.32	34.33		1204
35.85	37.03	33.17	35.00	37.17	37.40	31.75		
02.00	37.40	30.20	00.00	33.75	40.20	34.87		
04 JUN 66 NO CHILE	20 00 00. S	067 24 00. W	099.	10 07 00.0				
0.	29.00	29.64	0.	0.	28.90	28.91		1010
30.43	29.77	0.	29.00	0.	32.07	26.43		
7.44	32.07	30.00	24.00	20.30	34.74	29.65		
08 MAR 66 CHILE - BOL	20 00 0. S	60 24 0. W	122.	20 40 12.0				
37.50	30.90	39.74	40.15	40.20	30.77	30.77		2057
40.33	39.31	37.77	0.	41.53	41.05	30.25		
37.30	41.00	0.	33.00	30.10	0.	39.45		
23 MAY 66 CHILE-BOLIV	20 30 00. S	060 48 00. W	113.	10 00 16.4				
0.	0.	47.32	47.90	47.92	46.02	46.50		1411
40.07	47.33	45.45	47.30	49.30	49.36	44.03		
45.02	0.	48.45	41.00	45.90	52.30	47.15		
13 JAN 66 N CHILE	20 40 0. S	67 10 0. W	110.	19 26 29.0				
54.90	54.40	55.00	55.50	55.70	54.32	54.32		1437
55.80	52.00	0.	0.	57.07	57.30	51.05		
52.02	57.40	50.30	49.20	0.	60.05	54.98		
17 APR 66 CHILE-BOLIV	20 42 0. S	60 00 0. W	01.	00 30 37.0				
0.	0.	0.	0.	0.	0.	0.		0050
0.	0.	0.	0.	0.	10.21	12.72		
13.74	10.31	17.13	10.30	14.72	20.90	15.67		
12 JUL 66 CHILE-BOLIV	21 10 00. S	060 24 00. W	099.	00 01 37.0				
12.00	12.40	13.97	13.00	13.00	12.33	12.30		0413
13.77	14.05	11.37	13.00	13.00	15.71	09.70		
10.00	10.30	14.10	07.49	11.77	17.94	12.89		
19 APR 66 CHILE-BOLIV	21 42 00. S	60 24 00. W	112.	12 40 10.0				
50.00	50.00	50.00	51.40	51.70	0.	0.		0254
51.72	51.00	0.	50.90	0.	53.10	47.75		
40.73	50.27	52.12	45.47	44.71	55.00	50.90		
04 JAN 66 N CHILE	22 10 00. S	070 12 00. W	52.	00 29 27.0				
0.03	09.30	40.00	10.20	10.00	09.20	09.20		0141
12.02	10.00	40.1	03.30	11.55	12.21	00.65		
07.00	10.07	41.00	04.30	00.00	14.01	09.02		

CONTINUED

11 22 00						PAGE		1
03 FEB06 CHILE-BOLIV	21 42	U. S	60 24	U. W	110.	00 47 19.2		
U.	U.	U.	U.	U.	U.	U.	0058	
54.24	50.85	57.52	51.00	55.25	58.70	53.40		
					61.35	50.40		

NORTHERN CHILE - ARGENTINA BORDER AREA						SE	8530	8975 KM	142-148AZ
10 FEB06 N CHILE	22 24	U. S	U60 30	U. W	160.	22 46 30.0			
00.00	00.00	00.00	00.00	00.00	00.00	00.00	2258		
00.00	00.00	09.85	11.50	00.00	13.75	08.40			
09.22	13.90	12.70	06.10	00.00	16.40	11.50			
11 MAR06 N CHILE 2	23 42	U. S	69 12	U. W	67.	09 30 42.0			
33.32	32.00	33.41	33.90	34.05	32.70	32.65	0942		
34.10	33.51	31.67	U.	35.37	35.57	30.28			
31.22	35.55	34.73	27.90	32.03	38.20	33.33			
01 MAR06 N CHILE	23 18	U. S	60 00	U. W	120.	12 21 51.4			
37.12	30.52	37.28	37.71	37.90	36.48	30.48	1233		
37.92	37.20	35.44	37.10	39.05	39.30	34.05			
35.07	39.30	38.18	31.02	35.90	41.75	37.10			
20 OCT05 N CHILE	24 24	U. S	070 12	U. W	055.	12 15 08.3			
U.	U.	U.	U.	6.55	5.15	5.20	1227		
6.50	5.95	4.10	5.05	0.	7.85	2.60			
13.50	07.70	07.05	00.40	04.30	10.45	05.67			
19 JUL06 ARGENTINA	23 12	U. S	U60 48	U. W	183.	07 25 27.6			
08.17	07.08	08.34	08.02	08.92	07.53	07.50	0737		
09.00	08.28	06.54	08.17	10.17	10.34	05.16			
06.22	10.45	09.28	02.90	07.12	12.97	08.22			
07 FEB06 CHILE-ARG	24 48	U. S	60 42	U. W	94.	14 59 48.0			
42.23	41.70	42.32	42.79	42.94	41.56	41.62	1511		
42.97	42.41	U.	42.14	44.12	44.36	39.25			
44.05	44.35	43.00	37.05	40.92	46.92	42.22			
06 FEB06 CHILE-ARG	24 12	U. S	67 18	U. W	173.	14 54 30.5			
16.70	16.23	16.78	17.35	17.51	16.08	16.15	1506		
17.47	16.06	15.19	16.70	18.04	18.78	13.63			
14.64	18.03	17.80	11.40	15.50	21.33	16.78			
04 JAN06 CHILE-ARG	24 48	U. S	U60 12	U. W	90.	14 51 54.0			
50.05	49.50	50.05	50.05	U.	U.	49.42	1503		
U.	50.20	U.	U.	52.00	52.28	47.10			
48.02	52.20	U.	44.90	48.05	54.05	50.10			
20 FEB06 N CHILE	26 00	U. S	70 24	U. W	67.	21 38 52.4			
52.47	51.74	52.38	52.00	53.02	51.75	U.	2150		
53.64	52.50	50.00	52.20	54.15	54.03	U.			
50.13	54.48	53.70	47.05	50.00	56.90	52.32			
20 OCT05 ARGENTINA	23 54	U. S	U60 12	U. W	150.	19 31 37.0			
U.	U.	U.	U.	U.	U.	U.	1943		
20.20	27.00	00.	00.	29.40	29.60	00.			
25.43	27.00	00.	22.21	07.	32.10	27.40			
31 JAN06 SALTA ARGENT	24 40	U. S	64 24	U. W	43.	14 01 25.4			
34.47	34.68	34.22	35.00	35.14	33.72	33.75	1413		
35.20	34.50	U.	34.43	36.20	36.44	31.45			
32.45	36.55	35.27	29.35	33.35	39.02	34.43			
04 APR06 SALTA ARGENT	25 00	U. S	64 30	U. W	25.	06 19 13.6			
25.82	22.30	20.00	20.42	20.55	25.35	25.28	0531		
02.02	20.00	24.30	25.05	27.70	U.	22.80			
33.72	20.00	U.	20.72	24.91	30.45	25.85			

11 22 60

PAGE 1

CENTRAL CHILE - ARGENTINA BORDER AREA

SE 9100 - 9750 KM 146-152AZ

23 OCT55 C CHILE CSI 29 24 00. S 071 36 00. W 033. 05 53 32.8

53.34 0. 53.14 53.92 0. 52.85 52.60 0705

53.90 53.45 51.75 53.05 0. 55.25 50.45

51.00 55.05 54.75 48.25 51.40 57.55 53.15

12 JUN66 ARGENTINA 29 00 00. S 068 24 00. W 095. 19 26 21.6

35.37 34.88 35.40 0. 36.04 34.72 34.73 1938

36.02 35.60 35.90 35.25 37.15 37.45 32.60

33.38 37.33 36.62 30.53 34.11 39.85 35.36

13 NOV65 ARGENTINA 29 24 0. S 068 06 0. W 48. 1/ 59 41.7

0. 0. 0. 0. 05.10 0. 63.75 1811

65.15 64.55 62.85 64.15 0. 0. 61.60

62.25 60.30 0. 59.45 62.95 68.70 64.3

06 JUN66 CHILE-ARGEN 30 36 00. S 069 18 00. W 109. 09 56 33.4

52.00 51.57 52.05 52.02 52.69 51.47 51.39 1008

52.72 52.22 50.50 51.86 53.81 54.07 49.39

49.91 53.92 53.38 47.16 50.61 56.21 52.09

11 DEC65 ARGENTINA 29 42 0. S 067 00 0. W 029. 13 40 13.0

0. 0. 0. 41.95 42.10 40.80 40.78 352

42.05 41.60 39.85 41.22 43.18 43.38 38.50

39.28 0. 42.62 36.45 40.08 45.75 41.32

10 SEP66 CSI C CHILE 31 42 00. S 072 00 00. W 020. 14 12 46.2

16.04 15.58 16.01 16.57 16.73 15.50 15.30 1425

16.60 16.35 14.60 15.65 0. 0. 13.43

13.87 17.81 0. 11.14 14.32 20.33 16.02

14 OCT65 C CHILE 32 18 00. S 071 42 00. W 039. 03 28 08.3

0. 0. 0. 0. 0. 0. 0. 0340

0. 06.02 06.45 07.55 0. 09.80 05.30

05.50 09.50 9.30 03.00 06.15 11.90 07.82

08 MAR66 S J ARGENT 31 18 0. S 68 36 0. W 102. 02 32 52.7

16.76 16.25 16.81 17.31 17.48 16.20 16.13 0245

17.44 17.01 15.36 0. 18.55 18.73 14.02

14.74 16.67 18.13 12.05 15.40 21.05 16.77

02 DEC65 ARGENTINA 31 18 0. S 068 30 0. W 46. 10 16 27.0

0. 0. 0. 57.90 58.10 56.75 56.75 1028

57.95 57.60 55.90 57.15 59.10 59.22 54.65

55.26 59.17 0. 52.50 55.90 61.67 57.35

23 OCT65 C CHILE 32 24 00. S 071 18 00. W 067. 15 34 47.2

0. 31.63 0. 32.75 32.85 31.60 0. 1547

0. 32.40 30.65 32.00 0. 34.05 29.55

29.75 33.80 0. 27.30 30.55 0. 32.10

12 MAR66 S J ARGENT 31 36 0. S 67 00 0. W 128. 06 58 37.5

62.35 61.80 62.37 62.90 63.64 61.75 61.71 0710

63.00 62.66 60.61 0. 64.08 64.18 59.52

60.25 64.23 63.60 0. 60.97 66.22 62.28

29 APR66 CHILE-ARGEN 35 18 0. S 70 42 0. W .93. 03 32 20.2

57.91 57.38 57.89 58.42 58.56 57.38 57.28 0344

58.51 58.24 58.60 57.69 59.65 59.78 55.42

55.71 57.50 59.40 53.35 58.28 61.78 57.90

WESTERN MEXICO

S 2800 - 3100 KM 181-186AZ

23 MAY66 REVILLA GIG	21 24	. N	100 42	. W	58.	11 21 30.0	1156
54.02	53.02	53.30	54.35	55.04	53.44	52.50	
54.10	55.08	51.83	52.27	50.18	58.43	52.13	
48.44	54.08	60.60	46.00	46.45	60.00	53.60	
22 MAY66 REVILLA GIG	21 12	. N	100 42	. W	53.	07 42 50.0	0748
15.92	14.92	15.18	16.20	16.86	15.32	14.37	
15.91	16.85	13.77	14.17	18.10	20.28	14.03	
10.25	12.90	22.41	08.52	08.35	21.93	15.40	
08 AUG66 REV GIG IS	19 18 00.	. N	100 00	. W	33.	08 02 45.8	0808
30.08	27.19	29.41	30.50	31.05	29.50	28.62	
30.12	31.04	0.	28.47	32.36	34.42	28.20	
24.52	30.29	36.47	22.00	22.80	36.21	29.62	
06 DEC65 JALISCO MEX	18 54	. N	107 06	. W	37.	11 34 53.7	1140
0.	0.	0.	40.40	41.00	39.45	38.62	
40.15	0.	57.76	38.48	42.61	44.25	37.85	
34.52	40.38	0.	0.	32.90	46.38	39.60	
30 AUG66 JALISCO	18 42 00.	. N	107 00	. W	054.	23 37 19.0	2342
0.	0.	05.98	0.	0.	66.00	65.13	
66.70	67.40	64.32	65.10	68.52	70.80	64.40	
61.20	67.03	0.	58.93	59.55	72.98	66.15	

EAST CENT PACIFIC AND NORTH EASTER CORDILLERA

S 4925 - 5675 KM 176-180AZ

10 AUG66 E CENT PACF	02 06 00.	. N	103 18	. W	33.	17 47 42.0	1755
0.	51.55	52.00	0.	53.32	0.	0.	
52.78	53.11	0.	51.30	54.70	0.	50.08	
47.69	53.33	0.	45.15	46.74	0.	52.16	
21 JUL66 ESTRAGALOP	03 54 00.	. S	104 18	. W	033.	05 32 18.2	0541
14.68	13.77	14.19	15.02	15.52	13.92	13.40	
14.84	15.25	12.70	13.44	16.84	18.54	0.	
10.05	15.40	0.	07.61	08.92	20.11	14.28	
02 SEP66 N EASTER CD	04 30 00.	. S	105 54	. W	033.	07 59 05.7	0807
66.31	65.42	65.74	66.50	67.12	65.65	65.03	
68.40	67.03	64.45	65.02	68.41	70.10	64.17	
61.68	66.75	71.57	59.40	60.41	71.33	65.91	

NORTHWEST OF EASTER I.

S 1650 - 8000 KM 187-190AZ

06 NOV65 EASTER I	22 16	0. S	113 48	0. W	33.	09 21 48.6	
0.	0.	0.	0.	54.25	52.95	52.21	0932
53.25	54.33	51.88	51.75	54.72	56.00	52.18	
49.50	53.25	58.35	48.60	48.00	00.	53.08	
09 NOV65 EASTER I	22 18	0. S	113 42	0. W	33.	21 59 04.3	
0.	0.	0.	0.	0.	0.	0.	2210
10.00	11.15	0.	05.60	11.60	13.50	09.05	
6.35	10.10	0.	05.40	04.90	14.00	09.90	
05 NOV65 EASTER I	22 18	00. S	113 54	00. W	033.	10 03 27.0	
0.	0.	0.	0.	0.	0.	40.00	1014
41.05	0.	59.60	0.	0.	44.30	0.	
37.40	41.08	46.23	30.38	35.70	44.88	40.87	

SOUTH AND WEST OF EASTER I.

S 6100 - 9025 KM 182-188AZ

08 APR66 EASTER	26 12	0. S	114 24	0. W	33.	14 07 53.9	
0.	29.92	41.08	0.	22.48	21.25	0.	1419
21.58	22.57	20.25	20.25	23.08	24.75	20.53	
17.93	21.60	26.42	0.	16.05	25.15	21.32	
09 APR66 EASTER	27 30	0. S	113 36	0. W	33.	04 07 52.0	
26.65	0.	25.88	26.00	27.38	26.13	25.37	0419
26.52	27.50	25.00	25.10	27.97	29.64	25.30	
22.75	26.40	31.24	21.00	21.22	30.05	26.18	
24 NOV65 EASTER I.	30 00	00. S	114 42	00. W	33.	03 12 43.0	
32.65	31.68	32.00	32.95	33.45	32.15	31.50	0324
32.50	33.40	31.05	31.10	33.92	35.02	31.30	
28.80	32.42	37.30	27.85	27.15	0.	32.20	
29 NOV65 EASTER I	32 30	0. S	109 00	0. W	33.	18 50 31.0	
32.88	32.07	32.28	0.	0.	32.30	31.73	1902
32.80	33.52	31.20	31.50	34.20	35.60	31.30	
29.25	0.	36.70	0.	27.83	0.	32.48	
24 MAR66 EASTER	33 00	0. S	109 00	0. W	33.	07 24 52.0	
56.98	50.25	56.35	0.	57.63	56.42	55.83	0736
57.04	0.	0.	55.52	58.40	59.65	55.45	
53.48	50.95	00.	52.13	51.85	60.35	56.59	
05 APR66 EASTER	34 48	0. S	109 42	0. W	33.	18 34 53.0	
07.36	00.60	06.86	07.68	08.11	0.	06.23	1847
07.41	07.93	0.	06.05	0.	09.92	05.76	
03.90	07.45	0.	02.01	02.55	10.56	06.97	

SAIUA - TONGA IS. REGION

WSW 9560 -10400 KM 239-244AZ

12 MAR 66	SARUA	15 00	0. S	175 36	0. W	35.	14 19 38.0	
18.20	17.63	17.35	17.95	18.39	18.04	17.23	1432	
17.52	17.00	17.70	0.	17.64	19.02	17.45		
15.83	15.80	22.22	17.55	13.24	16.53	17.75		
12 MAR 66	TONGA	15 42	0. S	175 00	0. W	35.	14 26 57.6	
39.25	30.54	38.36	38.93	39.37	38.93	38.22	1439	
38.43	0.	38.68	0.	38.60	39.95	40.36		
36.77	30.75	43.10	38.48	34.28	37.43	38.71		
20 NOV 65	TONGA IS	15 24	0. S	174 30	0. W	12.	03 47 52.4	
0.	0.	0.	0.	0.	0.	61.22	0400	
61.40	62.88	61.50	60.85	0.	0.	0.		
00.	59.72	65.95	61.00	00.	60.25	61.68		
05 JUL 66	TONGA	15 12	00. S	174 54	00. W	252.	03 22 45.2	
05.18	04.45	04.20	04.82	05.27	04.90	04.13	0335	
04.33	0.	04.45	03.42	0.	05.80	0.		
02.73	02.69	08.93	04.46	0.	03.27	04.61		
02 JAN 66	TONGA IS.	16 00	00. S	174 00	00. W	111.	03 33 54.4	
0.	0.	0.	30.95	0.	0.	30.15	0346	
30.48	32.00	60.52	29.48	30.60	31.95	32.30		
28.70	28.78	35.10	30.47	20.30	29.50	30.72		
26 DEC 65	TONGA IS.	16 24	0. S	174 42	0. W	300.	16 44 44.0	
0.	0.	0.	61.05	61.45	61.10	60.33	1656	
60.52	62.00	60.65	59.55	60.65	61.90	62.40		
0.	58.80	65.10	60.55	56.40	59.40	60.80		
20 MAR 66	TONGA 1	17 00	0. S	174 30	0. W	117.	07 47 50.2	
30.10	29.41	29.23	29.89	30.47	30.10	29.12	0800	
29.50	30.89	29.55	28.52	29.55	30.95	31.35		
27.60	27.69	34.02	29.39	25.19	28.40	29.69		
08 JUL 66	TONGA	19 00	00. S	174 30	00. W	005.	22 12 23.2	
25.09	24.47	24.20	24.05	25.30	24.88	24.10	2225	
24.42	25.88	24.40	23.42	24.60	25.68	26.16		
22.60	22.71	29.10	24.28	20.20	23.50	24.63		
29 MAR 66	TONGA	20 00	0. S	175 18	0. W	95.	10 42 15.1	
11.05	10.41	0.	10.80	11.22	10.80	10.00	1055	
10.32	11.80	10.38	09.20	10.52	11.90	12.20		
08.60	09.85	15.05	10.25	0.	09.48	10.60		
27 MAR 66	TONGA 2	21 00	0. S	174 30	0. W	95.	09 04 31.8	
29.46	28.77	28.63	29.22	29.65	0.	28.51	0917	
28.82	30.22	28.88	27.80	29.00	30.40	30.56		
26.97	27.26	33.40	26.73	24.63	28.01	29.02		
16 MAR 66	TONGA	21 12	0. S	174 18	0. W	66.	12 13 02.4	
63.80	63.15	63.00	0.	63.95	63.58	62.73	1225	
63.33	64.55	63.05	62.06	63.50	64.65	64.82		
61.20	61.67	67.70	62.93	58.90	62.30	63.35		
21 MAY 66	TONGA IS	20 54	00. S	175 18	00. W	075.	10 50 59.8	
0.	60.60	60.40	61.02	61.50	61.03	60.27	1103	
60.52	62.10	60.78	59.62	60.80	62.22	62.45		
59.80	59.15	65.13	60.53	20.52	59.80	60.80		
15 MAR 66	TONGA	20 44	0. S	175 24	0. W	65.	18 40 40.7	
43.77	43.21	42.65	43.25	43.88	43.55	42.75	1453	
43.07	44.55	0.	0.	43.35	44.67	44.80		
41.32	41.21	47.08	42.86	08.02	42.20	43.35		
01 JUN 66	TONGA IS	23 24	00. S	174 54	00. W	029.	11 47 33.1	
48.71	48.01	47.06	48.45	48.92	48.43	47.62	1200	
48.85	47.45	0.	47.53	48.20	49.58	49.62		
46.14	46.61	22.50	47.78	43.65	0.	48.25		

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27 JUN 66 TONGA		22 42 00. S 175 48 00. W		060.	08 38 45.8	
56.45	55.76	55.60	56.22	56.65	56.22	55.46
55.75	57.25	55.78	54.87	56.00	57.30	57.51
53.97	54.30	50.23	55.00	51.76	54.96	56.02

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FIJI IS. REGION

WSW 10100 -10725 KM 239-246AZ

09 DEC 65 FIJI IS. #2		17 42 00. S 175 18 00. W		650.	13 25 40.7	
0.	0.	0.	40.50	0.	40.65	39.90
40.40	41.54	40.00	39.20	40.10	41.44	41.97
38.50	38.40	44.50	40.33	38.30	39.00	40.35
04 DEC 65 FIJI IS. #1		18 00 00. S 170 12 00. W		650.	13 12 55.5	
0.	0.	0.	55.50	56.10	55.62	55.00
55.13	56.72	55.35	54.30	55.25	60.00	57.12
53.60	53.00	59.85	55.50	51.35	54.18	55.50
20 FEB 66 FIJI IS.		17 54 00. S 175 30 00. W		583.	08 11 54.4	
61.45	60.92	60.86	61.12	61.20	0.	60.53
60.75	62.23	60.95	59.85	0.	62.02	62.68
59.22	59.04	65.04	61.05	56.43	59.53	61.05
26 JAN 66 FIJI IS.		17 54 0. S 170 30 0. W		579.	04 27 34.3	
41.64	41.06	40.74	41.30	41.78	41.44	40.70
40.91	0.	41.05	0.	41.02	42.22	42.85
39.34	39.27	45.32	41.10	37.07	39.73	41.18
27 JAN 66 FIJI IS.		17 54 00. S 175 30 00. W		608.	02 01 36.7	
42.13	41.25	41.24	41.62	42.10	41.95	41.18
41.45	42.80	41.52	40.90	41.80	42.74	43.38
39.83	39.70	42.62	41.60	37.60	40.22	41.68
18 MAR 66 FIJI		19 18 0. S 177 00 0. W		320.	17 15 19.4	
52.54	51.67	51.04	52.25	52.65	52.33	51.60
51.80	53.21	51.97	0.	51.94	53.26	53.70
0.	50.24	50.20	51.95	47.47	50.83	52.11
24 MAR 66 FIJI		21 30 0. S 174 24 0. W		191.	04 04 55.5	
48.30	47.55	47.40	48.02	48.45	48.13	47.25
47.82	47.04	0.	48.85	47.50	49.11	49.50
45.40	40.10	52.04	47.55	43.54	46.40	47.50
14 NOV 65 FIJI IS.		16 48 0. S 177 54 0. W		421.	20 00 19.0	
0.	0.	0.	0.	0.	0.	42.70
42.40	44.50	43.07	42.00	0.	0.	0.
41.55	41.24	0.	43.18	39.12	41.80	43.25
21 DEC 65 FIJI IS.		19 06 0. S 177 30 0. W		366.	1 50 10.2	
0.	0.	0.	38.00	0.	38.80	38.65
38.25	0.	38.40	37.40	0.	39.70	40.05
39.62	38.78	42.60	38.20	34.45	37.63	38.50
25 OCT 65 FIJI IS. #4		14 00 00. S 179 12 00. W		625.	02 57 57.4	
0.	0.	0.	63.15	63.50	65.20	62.50
62.71	64.20	62.05	61.30	62.04	64.00	64.55
61.13	62.31	61.25	62.70	58.51	61.20	62.95

25 DEC 65 FIJI IS. -6	18 06 00. S	179 06 00. W	620.	20 16 43.6	
0.	0.	0.	48.95	49.25	49.05
48.42	49.87	48.55	47.55	00.00	00.00
00.00	46.75	52.90	46.80	44.65	00.00
17 DEC 65 FIJI IS.	18 00 00. S	179 18 00. W	620.	02 21 27.0	
0.	0.	0.	32.90	33.27	33.05
32.35	33.90	32.58	31.55	32.40	33.72
00.00	30.78	36.78	00.00	00.00	31.30
25 DEC 65 FIJI IS. -5	18 06 00. S	179 12 00. W	620.	19 20 45.1	
00.00	00.00	00.00	00.00	50.80	50.60
00.00	00.00	50.20	49.15	00.00	51.40
48.50	48.40	54.40	50.30	46.10	48.90
26 MAY 66 FIJI	21 12 00. S	176 54 00. W	230.	18 30 07.4	
0.	55.82	55.63	50.18	56.60	56.22
55.72	57.22	55.84	54.82	55.63	57.23
54.08	54.29	0.	55.77	51.85	54.85
17 JAN 66 FIJI IS.	20 48 0. S	176 30 0. W	543.	17 49 59.3	
19.28	18.55	18.40	0.	0.	19.05
18.50	0.	18.85	17.65	18.65	20.02
0.	16.98	22.95	18.05	14.78	17.58
16 APR 66 FIJI	21 06 0. S	176 36 0. W	511.	15 23 29.3	
53.37	52.80	52.58	53.17	53.55	53.22
52.68	54.18	52.87	51.78	52.83	54.13
51.08	51.15	57.08	52.82	48.90	51.70
08 FEB 66 FIJI IS.	21 12 00. S	176 30 00. W	529.	10 02 09.0	
31.64	31.07	30.82	31.38	31.83	31.49
30.96	32.41	31.64	30.00	31.09	32.57
29.36	27.43	35.39	31.08	27.14	29.97
17 MAR 66 FIJI	21 06 0. S	179 12 0. W	626.	15 50 32.2	
47.38	46.55	46.45	0.	47.40	47.05
46.55	0.	46.75	45.70	00.00	48.05
45.10	45.15	51.00	46.58	42.68	0.
13 APR 66 SU FIJI IS	23 36 0. S	179 54 0. W	550.	04 27 54.8	
26.77	26.13	25.93	26.55	26.90	26.60
25.08	27.55	26.26	25.18	0.	27.50
24.40	24.62	30.47	26.15	22.35	25.18
					26.34

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SOLOMON ISLANDS

N 10900 ~11080 57 263-274A2

29 JUL 66	SOLOMON IS	10 30 00. S	162 48 00. E	75.	11 46 15.6	
0.	47.32	46.98	47.28	47.54	0.	46.98 1159
46.78	0.	0.	0.	0.	47.65	49.72
46.40	0.	0.	0.	44.15	44.58	47.30
05 AUG 66	SOLOMON IS	10 54 00. S	162 18 00. E	93.	04 33 07.4	
39.80	39.48	39.13	39.37	39.72	0.	39.13 0446
38.96	40.47	0.	38.42	0.	39.82	41.80
0.	37.25	0.	0.	36.19	36.72	39.48
01 AUG 66	SOLOMON IS	10 12 00. S	161 06 00. E	70.	03 23 03.1	
39.68	39.30	38.98	39.20	39.44	39.80	39.01 0336
38.80	0.	39.60	38.33	38.56	39.62	41.77
38.57	37.06	42.50	40.83	36.22	36.48	39.30
28 AUG 66	SOLOMON	04 36 00. S	155 12 00. E	509.	10 03 03.0	
51.29	51.06	50.62	50.78	51.05	51.47	50.75 1015
50.40	51.89	51.39	50.02	50.08	51.13	53.50
50.54	48.66	53.90	53.18	48.45	47.80	50.98

ATLANTIC RIDGE ****AVERAGES NOT VALID**** NE TO ESE 5980 9840 KM

16 NOV 65	N ATL RIDGE	31 00 0. N	041 30 0. W	17.	15 24 42.9	
00.00	00.00	00.00	00.00	48.00	00.00	48.68 1533
00.00	47.20	47.30	50.00	49.40	00.00	0.
49.28	52.32	43.20	44.70	53.30	0.	48.77
15 JUL 66	N ATLANTIC RD	35 24 00. N	030 24 00. W	33.	02 26 15.0	
0.	26.06	0.	0.	0.	0.	0. 0235
27.43	0.	25.43	0.	0.	0.	22.30
0.	0.	0.	0.	31.48	0.	26.49
25 JUL 66	N ATLANTIC RD	12 12 00. N	045 54 00. W	33.	11 42 01.0	
0.	22.84	23.80	23.74	0.	22.38	0. 1152
24.42	0.	21.86	24.36	0.	23.60	19.02
22.67	20.82	0.	18.36	0.	0.	23.36
17 DEC 65	MID ATL RIDG	08 36 00. N	039 24 00. W	33.	06 17 24.7	
00.00	00.00	00.00	00.00	22.60	21.65	22.40 0628
00.00	21.50	21.15	23.55	24.10	22.90	18.50
22.00	25.90	19.45	17.90	24.80	26.50	22.75
15 NOV 65	MID-ATL RIDG	00 16 0. S	018 42 0. W	24.	11 18 49.9	
0.	0.	0.	0.	43.15	42.50	43.00 1131
43.95	42.30	42.25	0.	0.	42.90	40.10
43.15	42.25	40.00	0.	45.30	45.30	43.10

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CONTINENTAL V S *****AVERAGES NOT VALID*****

650 - 2900 KM 101-281AZ

CONTINENTAL V S *****AVERAGES NOT VALID							
29 JUL 66 CHASE VII	06 16 00. N	074 06 00. W	1.	04 36 24.8			0441
00.20	0.	0.	01.21	0.	59.00	0.	
01.00	0.	0.	02.00	02.73	0.	59.34	
00.10	00.52	20.00	24.30	04.42	0.	60.60	
21 OCT 65 E MISSOURI	37 30 00. N	091 00 00. W	022.	02 04 38.3			0207
0.	0.	0.	00.00	57.55	58.60		
0.	20.19	0.	00.22	02.72	02.29	51.70	
57.00	0.	57.00	0.	0.	0.	59.30	
03 APR 66 COLORADO	39 21 47. N	108 27 44. W	0.	10 21 33.5			1623
24.00	22.40	22.00	24.00	25.15	0.	21.33	
23.72	22.27	0.	21.22	0.	0.	21.25	
15.40	24.13	33.40	13.11	13.42	33.55	23.00	
23 JAN 66 NEW MEXICO	37 00 0. N	100 54 0. W	10.	01 50 38.0			0158
00.40	50.05	00.05	01.00	59.50	0.		
0.	01.70	07.00	0.	05.10	66.25	58.00	
52.00	00.00	09.00	49.20	49.02	09.10	59.40	
17 MAR 66 UTAH	41 48 0. N	111 24 0. W	10.	11 47 49.0			1149
00.07	19.20	18.03	00.00	21.00	00.00	18.01	
17.20	23.00	18.00	18.50	21.72	26.00	22.50	.05 .20
13.30	10.04	32.70	15.02	00.55	24.54	19.67	
12 SEP 66 LO CALIFORNIA	39 24 00. N	120 00 00. W	008.	15 41 01.7			1043
05.52	04.17	03.10	04.02	05.95	05.42	63.00	
03.32	07.75	04.50	01.23	04.90	08.83	68.78	
54.36	54.32	0.	04.10	52.55	63.82	64.07	
23 OCT 65 WASH STATE	47 30 0. N	122 24 0. W	23.	16 27 59.3			1030
0.	0.	0.	0.	01.40	0.		
0.	0.	00.00	08.30	57.40	00.00	0.	
0.	0.	0.	0.	53.90	51.75	59.75	
00.00	59.05	0.	0.				

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MISCELLANEOUS *****NO AVERAGE*****

KM

01 DEC 05 S. ALGERIA	24 00	0. N	00 00	0. E	0.	10 29 50.0	
0.	0.	0.	0.	44.33	44.10	44.95	1042
45.40	43.53	44.32	0.	44.75	43.18	42.63	
46.33	46.62	40.10	44.47	48.08	44.82	44.83	
25 JUL 06 N. EASTERN CH	13 15	00. S	111 24	00. W	33.	13 22 54.0	
0.	57.93	58.10	0.	0.	0.	57.60	1332
58.74	57.70	57.07	57.27	0.	0.	57.32	
54.52	58.07	64.05	52.96	52.90	62.63	58.35	
02 SEP 06 GULF CALIF	26 48	00. N	110 48	00. W	034.	21 20 17.0	
0.	51.04	21.20	0.	0.	51.06	50.40	2124
52.00	0.	49.75	49.90	54.40	57.22	51.02	
45.70	51.67	00.97	44.02	0.	58.62	51.64	
18 SEP 06 N. PACIFIC O	18 24	00. S	132 48	00. W	035.	06 40 36.8	
41.98	41.02	40.94	42.05	42.64	41.52	40.52	0651
41.43	43.00	40.62	39.04	43.03	44.90	41.82	
37.81	41.00	47.74	38.27	35.53	44.20	41.40	
23 JUL 06 ON CHLITIE	54 30	00. N	134 54	00. W	33.	17 34 57.0	
0.	27.50	26.40	0.	26.51	28.23	0.	1939
25.48	0.	29.25	26.01	0.	0.	33.26	
29.35	22.05	0.	0.	0.	17.52	26.78	
12 AUG 06 S. OF ALASKA	52 54	00. N	161 36	00. W	31.	20 16 59.8	
0.	57.22	56.24	56.10	56.48	57.74	56.91	2023
55.62	57.72	0.	55.88	0.	55.48	0.	
58.17	52.72	58.80	63.13	55.23	49.80	56.62	
17 JUL 06 BERING SEA	55 30	00. N	166 54	00. W	35.	01 03 03.6	
0.	19.03	0.	0.	18.13	0.	18.89	0110
17.35	0.	20.32	17.90	0.	0.	0.	
0.	14.72	0.	25.51	18.23	11.12	18.36	
26 AUG 06 ALASKA	67 06	00. N	161 54	00. W	014.	10 19 34.8	
29.41	30.06	29.33	28.79	28.72	30.30	30.18	1026
28.63	29.50	31.24	29.32	27.08	26.50	33.68	
32.67	20.22	28.22	37.03	31.56	21.61	29.48	
22 MAR 06 N. E. CHINA	37 30	0. N	115 00	0. E	11.	05 11 33.7	
28.55	28.80	28.55	28.05	28.02	29.01	29.01	0424
28.13	28.65	27.80	28.55	27.20	0.	0.	
0.	0.	0.	0.	0.	0.	28.52	
30 AUG 06 LAKE BAIKAL	51 42	00. N	104 24	00. E	033.	06 10 33.4	
32.64	33.18	32.82	32.29	32.29	33.22	33.39	0522
32.20	32.68	34.08	32.92	31.23	30.78	35.00	
0.	31.18	31.16	37.59	35.13	27.75	32.74	
30 JUL 06 SVENYA ZILA	84 33	00. N	104 12	00. E	29.	20 32 00.7	
41.71	42.56	42.37	0.	41.00	42.38	42.97	2040
41.71	41.03	43.60	42.54	40.01	38.36	0.	
46.07	40.83	0.	46.16	0.	35.66	42.20	
09 JUL 06 SIVERNYAYA	85 18	00. N	092 54	00. E	033.	06 57 52.0	
29.52	30.47	30.28	29.46	28.87	30.12	30.96	0706
29.62	28.84	31.47	30.80	27.88	26.24	31.52	
34.07	28.96	24.62	35.94	34.01	23.78	30.03	
02 JAN 06 RAFFIN PAT	74 36	0. N	71 12	0. W	33.	11 51 42.0	
0.	0.	0.	12.15	11.30	12.60	13.80	1158
12.65	10.93	13.88	0.	10.80	08.45	12.75	
17.81	13.00	05.15	17.00	20.10	07.45	12.75	

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		2b. GROUP ---
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11. SUPPLEMENTARY NOTES ---	12. SPONSORING MILITARY ACTIVITY ADVANCED RESEARCH PROJECTS AGENCY NUCLEAR TEST DETECTION OFFICE WASHINGTON, D. C.	
13. ABSTRACT Travel-time data at the SDL, as read from LASA films for approximately 400 events, are presented for users. These data have been used for computing travel-time anomalies which are included in SDL reports No. 147 and No. 159 .		

DD FORM 1 JAN 64 1473

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14	KEY WORDS	LINK A		LINK B		LINK C	
		ROLE	WT	ROLE	WT	ROLE	WT
LASA Seismic Array Travel-Times							

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