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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,  
NTS EVENT 'HUSKY PUP', 24 OCTOBER 1975

K. J. Hill, et al

Teledyne Geotech

Prepared for:

Air Force Technical Applications Center

28 January 1976

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097156

SDCS-ER-75-67

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT  
NTS Event "HUSKY PUP", 24 October 1975**

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**Taledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314**

**January 1976**

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ARPA Order No. 2897**

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312 Montgomery Street, Alexandria, Virginia 22314**

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Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER SDCS-ER-75-67	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) SPECIAL DATA COLLECTION SYSTEM (SDCS) NTS Event "HUSKY PUP", 24 October 1975		5. TYPE OF REPORT & PERIOD COVERED Technical
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Hill, K. J., Dawkins, M. S., Baumstark, R. R., and Gillespie, M. D.		8. CONTRACT OR GRANT NUMBER(s) F08606-74-C-0013
9. PERFORMING ORGANIZATION NAME AND ADDRESS Teledyne Geotech 314 Montgomery Street Alexandria, Virginia 22314		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS T/4703
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advanced Research Projects Agency Nuclear Monitoring Research Office 1400 Wilson Blvd.-Arlington, Virginia		12. REPORT DATE 28 January 1976
		13. NUMBER OF PAGES 11
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) VELA Seismological Center 312 Montgomery Street Alexandria, Virginia 22314		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

SDCS EVENT REPORT NO. 67

NTS Event "HUSKY PUP" 24 October 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event.

Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	$m_b$	$M_s$
NORSAR	17:22:58.2	17:11:38	38 N	116 W	4.4	N/A
Hagfors	17:23:06.4	17:11:20	36 N	118 W	5.1	N/A

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

17:11:27.0 37.1N 116.2W 4.7 N/A

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at WH2YK, CPSO, HN-ME, RK-ON, LASA and NORSAR. FN-WV did not record a "P" Arrival for this event and was not included in this report. Horizontal SP channels at WH2YK, CPSO and HN-ME were rotated. Horizontal SP channels at RK-ON were not rotated because the SP transverse channel was inoperative.

The SDCS stations and LASA did not record LP signal arrivals and are not included in this report. ALPA and NORSAR long-period data were not recoverable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT - PERIOD	LONG - PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be 316° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT                    24 OCT 75  
 17:11:22.0    37.000N    116.000W    0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	REST		
LD2	17 14 20.2	0.0	0.7	12.1	35.7
FK-CN	17 16 11.8	-0.1	-1.0	21.1	42.3
CFSC	17 16 49.1	-0.1	0.8	24.7	84.2
WH2YK	17 17 05.4	0.1	0.7	26.5	339.2
HN-ME	17 18 34.4	0.4	-0.2	36.7	60.2
NAC	17 22 58.2	-0.2	-1.0	73.3	24.1

67 HERRIN TRAVEL TIME TABLES

CFIGIN	IAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
17:11:39.4	37.540N	115.866W	78. CALC	0.2	3	6
17:11:27.0	37.082N	116.194W	0. REST	0.9	2	6

CAIC			REST		
	1	1		1	1
0	.	0	0	.	0
0	0.	1	0	0.	1
.	.	.	.	.	.
0	0.	0	0	0.	0
0	.	0	0	.	0
0	0.	0	0	0.	0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.74  
 MAJOR 66.2KM. MINOR 42.4KM. AZ= 24 AREA= 8818 SQ.KM. FIST

DATA SUMMARY

INPUT FOR EVENT 24 OCT 75  
 17:11:22.0 37.000N 116.000W 0KM.

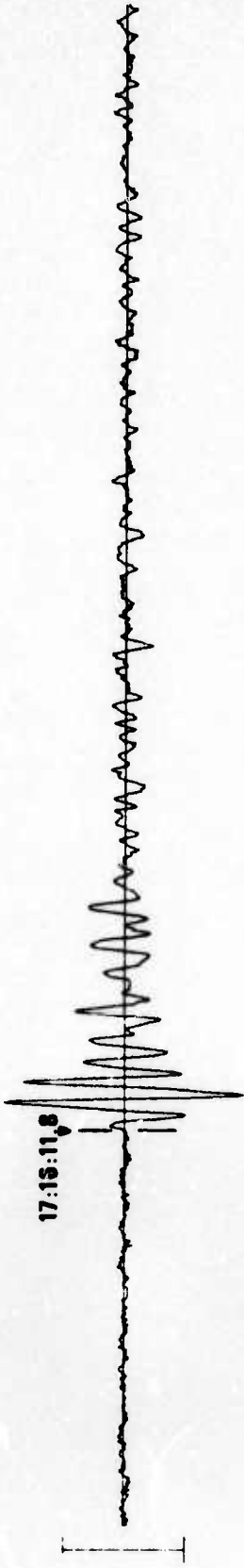
STA.	PHASE	ARRIVAL		INST	FER	A/T	MAGNITUDE		DIR	DIST
		TIME					ME	MS		
ID2 M	EP	17 14	20.2	SAB	0.8	63.	5.59			12.1
RK-CN	EP	17 16	11.8	SPZ	0.8	250.	5.21			21.1
CFSC	EP	17 16	49.1	SPZ	0.8	39.	4.72			24.7
WR2YK	EP	17 17	05.4	SPZ	0.7	13.	4.26			26.5
HN-ME	EP	17 18	34.4	SPZ	0.9	51.	4.94			36.7
NAC	EP	17 22	58.2	AP	0.8	8.	4.47			73.3

CFIGIN	IAT.	ICNG.	DEPTH (KM)	MAG	SDV	STA
17:11:39.4	37.540N	115.866W	78. CAIC	4.64	0.47	5
17:11:27.0	37.082N	116.194W	C. REST	4.72	0.38	5

Short-period magnitudes ( $m_h$ ) used in averaging are restricted to those recorded at distances between 20 and 110 degrees from the epicenter.

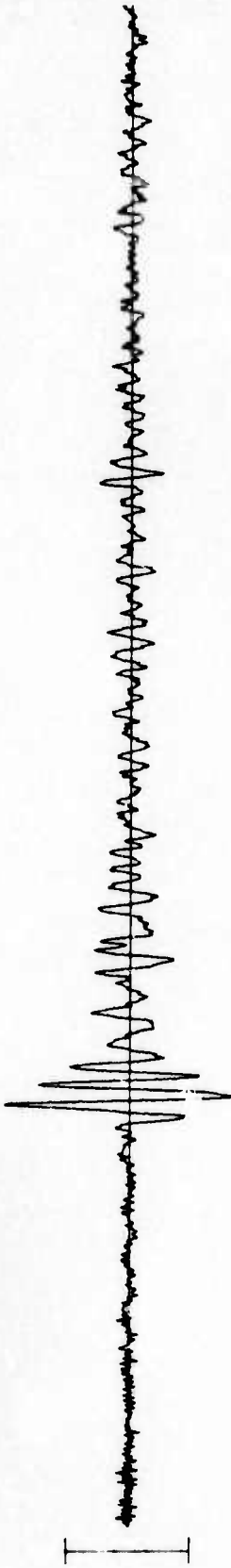
**RK-ON 24 OCT 75**

**SPZ  
146.98 MHz**



17:15:11.8

**SPR  
110.29 MHz**



**SPT  
56.00 MHz**



**TIME**



10 SEC

17:16:30

**CPSO 24 OCT 75**

**SPZ**  
24.35 MP

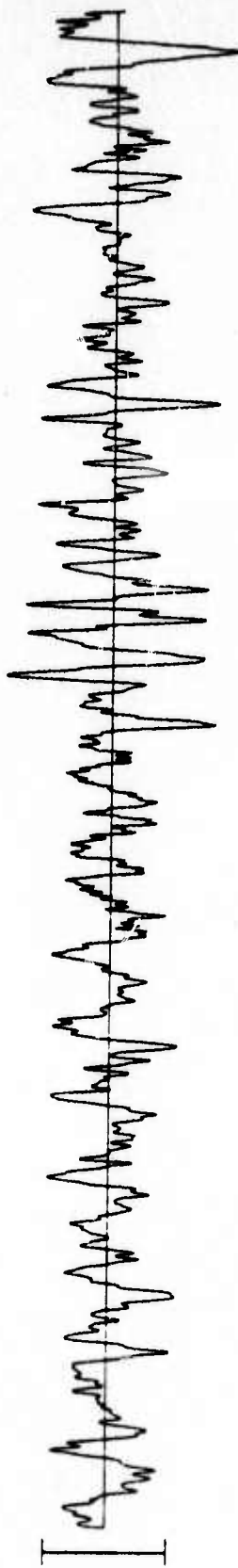
17:16:49.1



**SPR**  
11.11 MP



**SPT**  
19.43 MP



**TIME**



WH2YK 24 OCT 75

17:17:05.4

SPZ  
11.36 MP



SPR  
18.03 MP



SPT  
18.96 MP



TIME

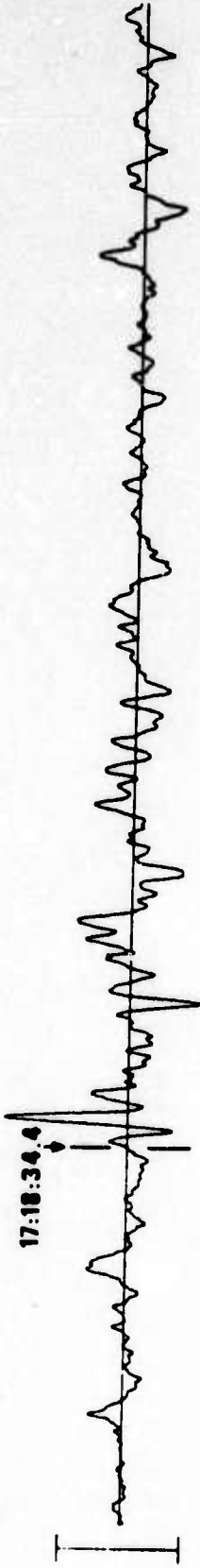


10 SEC

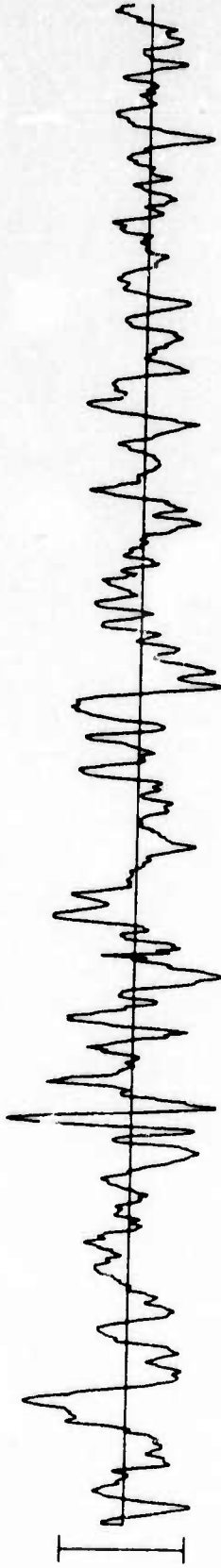
17:17:30

**HN-ME 24 OCT 75**

**SPZ  
34.19 MP**



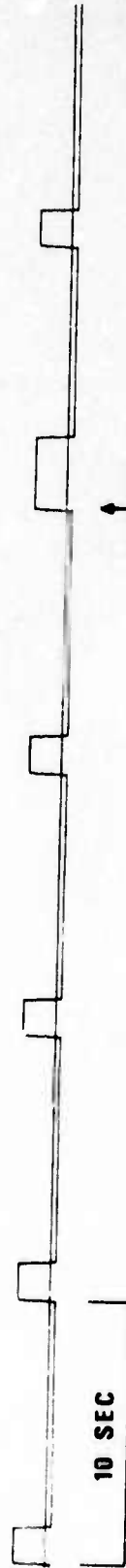
**SPR  
17.73 MP**



**SPT  
13.73 MP**



**TIME**



LASA INFINITE VELOCITY SUBARRAY SUMS 24 OCT 75



A0SUM  
42.93 MP



D1SUM  
41.66 MP

17:14:28.2



D2SUM  
63.55 MP



D3SUM  
44.63 MP



D4SUM  
127.60 MP

17:14:06.9

20 SEC

NORSAR EVENT FILE

1975 OCT 24

EPX NO. 36260 ARR. 17.22.58.0 38.2N 115.6W 4.4MB 33KM

DIST = 72.1 AZI = 318.2 AMP = 3.5 PER = 0.7

————— = 5 SECONDS

