OBSERVER'S DAILY REPORT

NEECHO 82-3

82041 obs

U.S. GEOLOGICAL SURVEY
OFFICE OF MARINE GEOLOGY

Woods Hole, Massachusetts

02543

82-3
NEECH 101493
82041

no single channel records

82-3

U.S. GEOLOGICAL SURVEY

OBSERVER'S DAILY REPORT

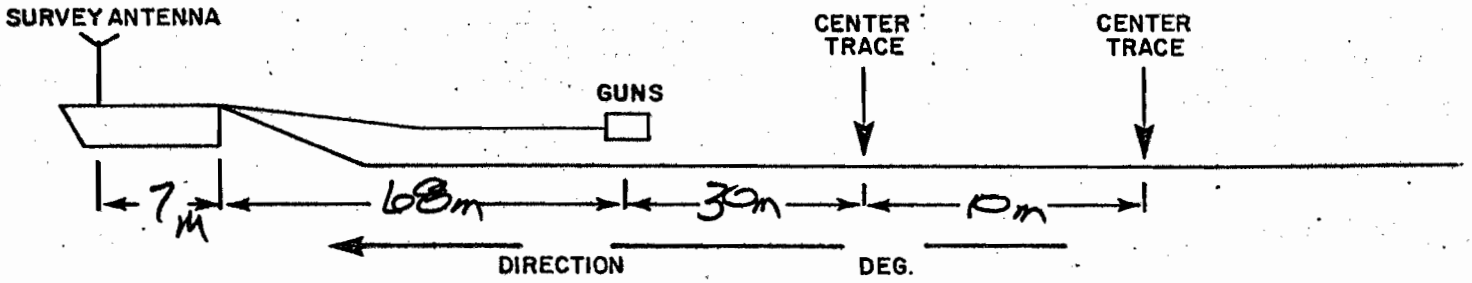
82041.obs

VESSEL R/V Needs SYSTEM TYPE DFS V DATE 6/6/82

OFFSET 30 meter
LINE NO. 1 5 DIR. ____ DEG.
PROSPECT RARITAN BAY
LOCATION N. Jersey - New York
SAMPLE RATE 1 MS. BPI 1600
RECORD LENGTH 2 SEC.

PRIME NAVIGATION LORAN C
CABLE TYPE FAIRFIELD 12 Channel
TRACE INT. 10m
SHOT INT. 10 m
WEATHER Rainy Foggy Windy
OPERATOR Nichols

*MC #'s 670-675 REEL #'s 1-6 BOX #1



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / IFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
256 + 18 dB	18/18	256		18	256	3	3	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
2	1	157	0001		001	383			16:57	1729
1	2	157	0001		384	764			1729	1801
2	3	157	0001		765	1147			1801	1832
1	4	157	0001		1148	1528			1832	1904
2	5	157	0001		1529	1913			1904	1937
1	6				1913	1954			1937	1940

No P.E. I.d. Burst "First File" on This Line Forgot First File [illegible]
All Times GMT
Cable Depth 5' until File 402 - 10' For Remainder of Line.

U.S. GEOLOGICAL SURVEY

OBSERVER'S DAILY REPORT

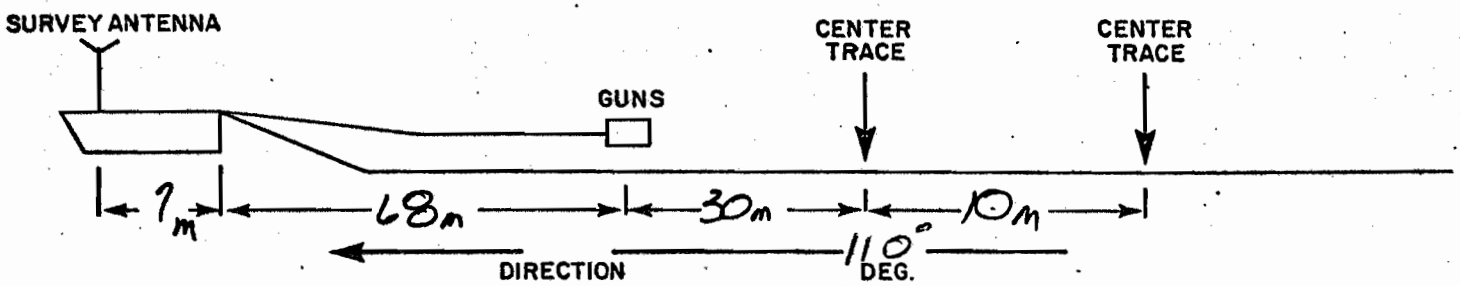
82-3

VESSEL R/V Needle SYSTEM TYPE DFS V DATE 6-8-82

OFFSET 30 Meters
LINE NO. 2 DIR. 110° DEG.
PROSPECT RARITAN BAY
LOCATION N. JERSEY
SAMPLE RATE 1 MS. BPI 1600
RECORD LENGTH 2 SEC.

PRIME NAVIGATION LORAN C
CABLE TYPE FAIRFIELD 12 CHANNEL
TRACE INT. 10m
SHOT INT. 10m
WEATHER FAIR
OPERATOR NICHOLS

REEL#'S 7-9 * MC#'S 676-678 Box #1



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / FP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
256	18/18	256		18	256	3	3	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
1	7	159	0002		001	365			15:45	16:18
2	8				366	768			16:18	16:49
1	9				769	782			16:49	16:55

SEARCH TAPES 8-10 - These SP's NOT SHOWN ON TAPE

No P.E.I.d. Burst on This Line. Forgot First File Button at SP
Gun Depth 6 Feet
Cable Depth Five Feet at start of Line.
Void File 384 - Parity Errors
Cable Depth at 7-10 Feet at Shot Point 100

U.S. GEOLOGICAL SURVEY

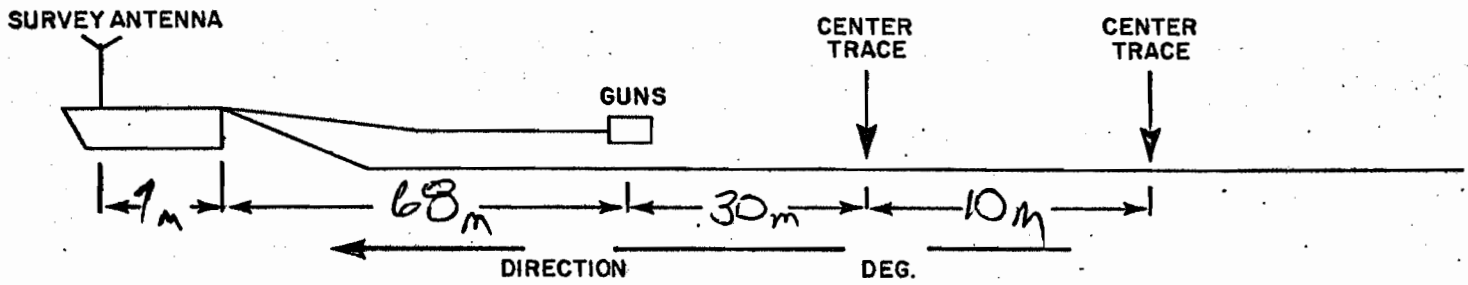
OBSERVER'S DAILY REPORT

VESSEL R/V Heeola 82-3 SYSTEM TYPE DFS V DATE 6-8-82

OFFSET 30 meters
LINE NO. 3 DIR. ____ DEG.
PROSPECT Raritan Bay
LOCATION New Jersey
SAMPLE RATE 1 MS. BPI 1600
RECORD LENGTH 2 SEC.

PRIME NAVIGATION Loran C
CABLE TYPE Fairfield 12 channel
TRACE INT. 10 m
SHOT INT. 10 m
WEATHER
OPERATOR Nichols

REEL # 9 *MC 678 BOX # 1



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / TFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
128	18/18	256		18	256	3	3	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
2	9	159	0003		098	382			20:21	21:08

Using 80 in³ water gun.

U.S. GEOLOGICAL SURVEY

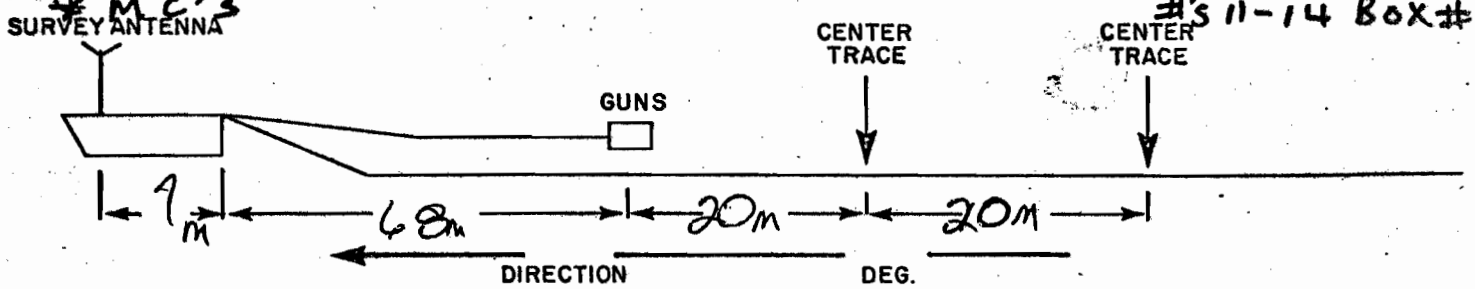
OBSERVER'S DAILY REPORT

VESSEL R/V Neel 82-3 SYSTEM TYPE DFS V DATE 6-9-82

OFFSET 20 meter
LINE NO. 4 & 5 DIR. ____ DEG.
PROSPECT Rinatan Bay
LOCATION New York - OFFSHORE
SAMPLE RATE 1 MS. BPI 1600
RECORD LENGTH 2 SEC.

PRIME NAVIGATION LORAN C
CABLE TYPE FAIRFIELD 12 CHANNEL
TRACE INT. 20 m
SHOT INT. 20 m
WEATHER Good
OPERATOR Nichols

~~REEL #'s~~ 679 - 683 REEL #'s 10 - 14 #10 - BOX #1
~~#MC's~~ #'s 11-14 BOX #2



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / FP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
128	18/18	256		18	256	3	3	AGC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
1	10	160	0004		001	383			15:25	16:29
2	11				385	570			16:29	17:00
2	11	160	0005		572	766			17:40	18:12
1	12				768	1148			18:12	19:16
2	13				1149	1531			19:16	20:20
1	14				1532	1759			20:20	20:58

This sheet contains info for line 4 & 5.
Line #5 is 10 meter spacing. 120 meter config.

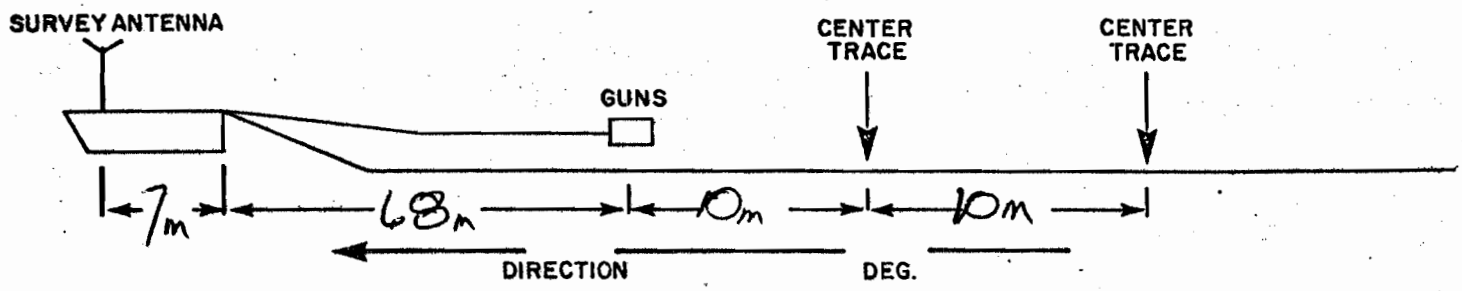
20 meter group / 240 meter streamer.
Times GMT
Cable Depth 12-14 Feet
Gun Depth 9 Feet.

U.S. GEOLOGICAL SURVEY

OBSERVER'S DAILY REPORT

VESSEL R/V Neuch 82-3 SYSTEM TYPE DFS V DATE 6/11/82

OFFSET ~~20 meter~~ 10 meter
PRIME NAVIGATION LORAN C
LINE NO. 6E7 DIR. ____ DEG.
CABLE TYPE FAIRFIELD 12 CHANNEL
PROSPECT Hudson River
TRACE INT. 20 meter
LOCATION New York
SHOT INT. 20 meter
SAMPLE RATE 1 MS. BPI 1600
WEATHER CALM
RECORD LENGTH 1 SEC.
OPERATOR Nichols
REEL #15 & MC # 684
BOX #2



RECORD				REPRODUCE				
INPUT GAIN (500 OHM IMP)	FILTERS LO/SLOPE	FILTERS HI	MAN / IFP	FILTERS LO	FILTERS HI	TRIP SENSE	INITIAL GAIN	MODE
256	18/18	256		18	256	3	3	ABC

DECK NO.	REEL NO.	CONSTANTS DAY NO.	CONSTANTS LINE NO.	CONSTANTS DIR. DEG.	FILE NO. FROM	FILE NO. TO	SP NO. FROM	SP NO. TO	TIME START	TIME FINISH
2	15	162	0006		001	135			16:49	17:23
2	15	162	0007		136	252			17:40.5	18:00

NECH 82-3

Config. Same as 82-2

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR.	BINARY	
143	31	61	NULL	0 0 0 0 0 0 0 0	
		62	NULL	0 0 0 0 0 0 0 0	
144	32	63	NULL	0 0 0 0 0 0 0 0	
		64	NULL	0 0 0 0 0 0 0 0	
145	33	65	NULL	0 0 0 0 0 0 0 0	
		66	NULL	0 0 0 0 0 0 0 0	
146	34	67	NULL	0 0 0 0 0 0 0 0	
		68	NULL	0 0 0 0 0 0 0 0	
147	35	69	NULL	0 0 0 0 0 0 0 0	
		70	NULL	0 0 0 0 0 0 0 0	
48	36	71	LF	0 0 0 0 1 0 1 0	
		72	LF	0 0 0 0 1 0 1 0	
49	37	73	DIGIT	0 0 1 1 - - - -	DAY NO.
		74	DIGIT	0 0 1 1 - - - -	
150	38	75	DIGIT	0 0 1 1 - - - -	
		76	SPACE	0 0 1 0 0 0 0 0	
151	39	77	DIGIT	0 0 1 1 - - - -	HOURS
		78	DIGIT	0 0 1 1 - - - -	N.B.S. Clock
152	40	79	:	0 0 1 1 1 0 1 0	
		80	DIGIT	0 0 1 1 - - - -	MINUTES
53	41	81	DIGIT	0 0 1 1 - - - -	
		82	:	0 0 1 1 1 0 1 0	
54	42	83	DIGIT	0 0 1 1 - - - -	SECONDS
		84	DIGIT	0 0 1 1 - - - -	

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
E) 155	43	85	.(dec. pt.)	0 0 1 0 1 1 1 0	SECONDS
		86	DIGIT	0 0 1 1 - - - -	
156	44	87	See II, E		
		88	SPACE	0 0 1 0 0 0 0 0	
157	45	89	SPACE	0 0 1 0 0 0 0 0	
		90	SPACE	0 0 1 0 0 0 0 0	
158	46	91	DIGIT	0 0 1 1 - - - -	
		92	DIGIT	0 0 1 1 - - - -	
159	47	93	DIGIT	0 0 1 1 - - - -	DEG.
LA .UDE		94	DIGIT	0 0 1 1 - - - -	
160	48	95	SPACE	0 0 1 0 0 0 0 0	
		96	DIGIT	0 0 1 1 - - - -	
161	49	97	DIGIT	0 0 1 1 - - - -	
		98	.(dec. pt.)	0 0 1 0 1 1 1 0	MIN.
162	50	99	DIGIT	0 0 1 1 - - - -	
		100	DIGIT	0 0 1 1 - - - -	
163	51	101	N or S	0 1 0 0 1 1 1 0 0 1 0 1 0 0 1 1	
		102	SPACE	0 0 1 0 0 0 0 0	
164	52	103	SPACE	0 0 1 0 0 0 0 0	
		104	DIGIT	0 0 1 1 - - - -	DEG.
TUDE 165	53	105	DIGIT	0 0 1 1 - - - -	
		106	DIGIT	0 0 1 1 - - - -	
166	54	107	DIGIT	0 0 1 1 - - - -	
		108	SPACE	0 0 1 0 0 0 0 0	

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
67	55	109	DIGIT	0 0 1 1 - - - -	MIN
		110	DIGIT	0 0 1 1 - - - -	
NGITUDE 68	56	111	.(dec. pt.)	0 0 1 0 1 1 1 0	
		112	DIGIT	0 0 1 1 - - - -	
69	57	113	DIGIT	0 0 1 1 - - - -	
		114	E or W	0 1 0 0 0 1 0 1 0 1 0 1 0 1 1 1	MANUAL CYCLE SEL..WAR
70	58	115	CR	0 0 0 0 1 1 0 1	
		116	NULL	0 0 0 0 0 0 0 0	
71	59	117	NULL	0 0 0 0 0 0 0 0	
		118	NULL	0 0 0 0 0 0 0 0	
72	60	119	NULL	0 0 0 0 0 0 0 0	
		120	NULL	0 0 0 0 0 0 0 0	
73	61	121	NULL	0 0 0 0 0 0 0 0	
		122	NULL	0 0 0 0 0 0 0 0	
74	62	123	NULL	0 0 0 0 0 0 0 0	
		124	NULL	0 0 0 0 0 0 0 0	
75	63	125	NULL	0 0 0 0 0 0 0 0	
		126	LF	0 0 0 0 1 0 1 0	
76	64	127	M	0 1 0 0 1 1 0 1	
		128	DIGIT	0 0 1 1 - - - -	GRI'S
77	65	129	DIGIT	0 0 1 1 - - - -	
		130	DIGIT	0 0 1 1 - - - -	
78	66	131	DIGIT	0 0 1 1 - - - -	
		132	SPACE	0 0 1 0 0 0 0 0	

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
79	67	133	SPACE	0 0 1 0 0 0 0 0	
		134	SPACE	0 0 1 0 0 0 0 0	
80	68	135	SPACE	0 0 1 0 0 0 0 0	
		136	SPACE	0 0 1 0 0 0 0 0	
81	69	137	DIGIT	0 0 1 1 - - - -	
		138	DIGIT	0 0 1 1 - - - -	
82	70	139	DIGIT	0 0 1 1 - - - -	TIME DELAY
		140	DIGIT	0 0 1 1 - - - -	
83	71	141	DIGIT	0 0 1 1 - - - -	
		142	.(dec. pt.)	0 0 1 0 1 1 1 0	
84	72	143	DIGIT	0 0 1 1 - - - -	
		144	SPACE	0 0 1 0 0 0 0 0	
85	73	145	SPACE	0 0 1 0 0 0 0 0	
		146	DIGIT	0 0 1 1 - - - -	
86	74	147	DIGIT	0 0 1 1 - - - -	
		148	DIGIT	0 0 1 1 - - - -	
87	75	149	DIGIT	0 0 1 1 - - - -	TIME DELAY
		150	DIGIT	0 0 1 1 - - - -	
88	76	151	.(dec. pt.)	0 0 1 0 1 1 1 0	
		152	DIGIT	0 0 1 1 - - - -	
89	77	153	SPACE	0 0 1 0 0 0 0 0	
		154	SPACE	0 0 1 0 0 0 0 0	
90	78	155	DIGIT	0 0 1 1 - - - -	TIME DELAY
		156	DIGIT	0 0 1 1 - - - -	

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
91	79	157	DIGIT	0 0 1 1 - - - -	
		158	DIGIT	0 0 1 1 - - - -	TIME DELAY
92	80	159	DIGIT	0 0 1 1 - - - -	
		160	.(dec.pt.)	0 0 1 0 1 1 1 0	
93	81	161	DIGIT	0 0 1 1 - - - -	
		162	SPACE	0 0 1 0 0 0 0 0	
94	82	163	SPACE	0 0 1 0 0 0 0 0	
		164	DIGIT	0 0 1 1 - - - -	
95	83	165	DIGIT	0 0 1 1 - - - -	
		166	DIGIT	0 0 1 1 - - - -	
96	84	167	DIGIT	0 0 1 1 - - - -	TIME DELAY
		168	DIGIT	0 0 1 1 - - - -	
97	85	169	.(dec. pt.)	0 0 1 0 1 1 1 0	
		170	DIGIT	0 0 1 1 - - - -	
98	86	171	CR	0 0 0 0 1 1 0 1	
		172	NULL	0 0 0 0 0 0 0 0	
99	87	173	NULL	0 0 0 0 0 0 0 0	
		174	NULL	0 0 0 0 0 0 0 0	
100	88	175	NULL	0 0 0 0 0 0 0 0	
		176	NULL	0 0 0 0 0 0 0 0	
101	89	177	NULL	0 0 0 0 0 0 0 0	
		178	NULL	0 0 0 0 0 0 0 0	
102	90	179	NULL	0 0 0 0 0 0 0 0	
		180	NULL	0 0 0 0 0 0 0 0	

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
103	91	181	NULL	0 0 0 0 0 0 0 0	
		182	LF	0 0 0 0 1 0 1 0	
104	92	183	SPACE	0 0 1 0 0 0 0 0	
		184	B	0 1 0 0 0 0 1 0	BLINK WARNING
105	93	185	C	0 1 0 0 0 0 1 1	CYCLE SEL WARNIN
		186	S	0 1 0 1 0 0 1 1	LOW SNR WARNING
106	94	187	SPACE	0 0 1 0 0 0 0 0	
		188	DIGIT	0 0 1 1 - - - -	
107	95	189	DIGIT	0 0 1 1 - - - -	S N R
		190	DIGIT	0 0 1 1 - - - -	
108	96	191	SPACE	0 0 1 0 0 0 0 0	
		192	SPACE	0 0 1 0 0 0 0 0	
109	97	193	B	0 1 0 0 0 0 1 0	BLINK WARNING
		194	C	0 1 0 0 0 0 1 1	CYCLE SEL WARNIN
110	98	195	S	0 1 0 1 0 0 1 1	LOW SNR WARNING
		196	SPACE	0 0 1 0 0 0 0 0	
111	99	197	DIGIT	0 0 1 1 - - - -	
		198	DIGIT	0 0 1 1 - - - -	S N R
112	100	199	DIGIT	0 0 1 1 - - - -	
		200	SPACE	0 0 1 0 0 0 0 0	
113	101	201	SPACE	0 0 1 0 0 0 0 0	
		202	B	0 1 0 0 0 0 1 0	BLINKING WARNING
114	102	203	C	0 1 0 0 0 0 1 1	CYCLE SEL WARNIN
		204	S	0 1 0 1 0 0 1 1	LOW SNR WARNING

MOUNTAIN SYSTEMS SERVICE

24 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
115	103	205	SPACE	0 0 1 0 0 0 0 0	
		206	DIGIT	0 0 1 1 - - - -	S N R
116	104	207	DIGIT	0 0 1 1 - - - -	
		208	DIGIT	0 0 1 1 - - - -	
117	105	209	SPACE	0 0 1 0 0 0 0 0	
		210	SPACE	0 0 1 0 0 0 0 0	
118	106	211	B	0 1 0 0 0 0 1 0	BLINK WARNING
		212	C	0 1 0 0 0 0 1 1	CYCLE SEL WARNI
119	107	213	S	0 1 0 1 0 0 1 1	LOW SNR WARNING
		214	SPACE	0 0 1 0 0 0 0 0	
120	108	215	DIGIT	0 0 1 1 - - - -	
		216	DIGIT	0 0 1 1 - - - -	S N R
121	109	217	DIGIT	0 0 1 1 - - - -	
		218	SPACE	0 0 1 0 0 0 0 0	
122	110	219	SPACE	0 0 1 0 0 0 0 0	
		220	B	0 1 0 0 0 0 1 0	BLINK WARNING
123	111	221	C	0 1 0 0 0 0 1 1	CYCLE SEL WARNI
		222	S	0 1 0 1 0 0 1 1	LOW SNR WARNING
124	112	223	SPACE	0 0 1 0 0 0 0 0	
		224	DIGIT	0 0 1 1 - - - -	
125	113	225	DIGIT	0 0 1 1 - - - -	S N R
		226	DIGIT	0 0 1 1 - - - -	
126	114	227	CR	0 0 0 0 1 1 0 1	
		228	NULL	0 0 0 0 0 0 0 0	

MOUNTAIN SYSTEMS SERVICE

4 CHANNEL

	WORD NO.	BYTE NO.	ASC II CHAR	BINARY	
127	115	229	SPACE	0 0 1 0 0 0 0 0	
		230	DIGIT	0 0 1 1 - - - -	A CHANNEL CODE
128	116	231	SPACE	0 0 1 0 0 0 0 0	
		232	DIGIT	0 0 1 1 - - - -	A CHANNEL RANGE
129	117	233	DIGIT	0 0 1 1 - - - -	
		234	DIGIT	0 0 1 1 - - - -	
130	118	235	DIGIT	0 0 1 1 - - - -	
		236	DIGIT	0 0 1 1 - - - -	
131	119	237	DIGIT	0 0 1 1 - - - -	
		238	SPACE	0 0 1 0 0 0 0 0	
132	120	239	DIGIT	0 0 1 1 - - - -	B CHANNEL CODE
		240	SPACE	0 0 1 0 0 0 0 0	
133	121	241	DIGIT	0 0 1 1 - - - -	B CHANNEL RANGE
		242	DIGIT	0 0 1 1 - - - -	
134	122	243	DIGIT	0 0 1 1 - - - -	
		244	DIGIT	0 0 1 1 - - - -	
135	123	245	DIGIT	0 0 1 1 - - - -	
		246	DIGIT	0 0 1 1 - - - -	
136	124	247	CR	0 0 0 0 1 1 0 1	
		248	LF	0 0 0 0 1 0 1 0	
137	125	249	NULL	0 0 0 0 0 0 0 0	
		250	NULL	0 0 0 0 0 0 0 0	