

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 95090414	FM: TBPB	TO: TBPB
FLT NO: 95-46	BLK IN: 0447	ATA: 0444
ETD: 2130Z	BLK OUT: 2123	ATD: 2132
ETE: 7.5	BLK TIME: 7:24 (2.4)	FLT TIME:
SPONSOR ORG: HAD	PROGRAM: Research	PURPOSE: H. Luis. V.D.

OAO PERSONNEL

AC Ticknor ✓	SYS ENG Goldstein ✓
CP Kennedy ✓	DATA SYS Poles ✓
NAV Rothman ✓	RADAR Barr ✓
FE Torrey Wade ✓	BT/ODW Gonzales ✓
RADIO Arneson ✓	CLD PHYS McFadden ✓
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Gamache, J. ✓	P.I.	1412D
Black, P. ✓	C-Seat	↓
Black, M. ✓	2nd	
Dodge, P. ✓	12nd	
Ritchie, E. ✓	Visitor	
Lee, W. Chan ✓	Visitor	
		DCAA

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

30/24 230/44 FLY VTD Ex W 0430F at 12K PA. EA

29.83 (1010) 28.4 15.1 1004.5 220/18 1006.15m 5X 1012.3m 1K.

29/24 10 penetrations

SP 1013.2 Fm 2K
SP 1013.0 Fm 1.5K
SP 1012.0 Fm .9K

29.5/24.5

95090414 H. LUIS VTD EXPERIMENT

Time	Lat	Lon	TK	WD	WS	PA	OA	TH	TD	SP	PS			
2124	13 04.7	59 29.4				78		29.3	25.0		1003.7	BLK		
213345	13 03.5	59 33.9	240	225	22.7	661	702	22.8	22.7	1014.0	929.2		CA 1.9K PA	
214230	13 34.6	59 44.2	348	233	29.5	3510	3705	5.5	1.1	1013.6	632.3			
2152	14 07	59 55.5	13	248	36	3669	3865	4.4	-					
220330	14 56	59 50	4	260	40.2	3669	3841	5.7	4.3	1007.8	643.5	IP		
221330	15 37.5	59 49.1	0	268	52.1	3667	3794	5.4	6.0	1003.3	643.5			
22230	16 37	59 53	0	260	74.8	3662	3591	8.0	-	975.5	644.0			
223645	17 06.1	59 53						16.5	9.5	938		\$		
2245	17 43	59 52	359	99	115	3674	3607	7.6	-	978.0	643.5			
2249	17 59	59 53	300	99	103.7	3673	3703	7.2	-	988.7	643.2	N PS		
2302	17 11	60 46	~	2	91	3672	3660	8.1	-	982.8	643.5			
231220	17 10	60 03										\$		
231815	17 09.8	59 36.7	89	182	105.8	3668	3554	8.0	-	973.4	644.1			
2324	17 11	59 14	11	179	94	3680	3707	7.2	-	989	644	AT E PS		
232830	17 37	59 22	~	149	101	3673	3701	6.1	-			AT EOE PS		
233315	17 30	59 38	239	139	116	3663	3569	7.4	-	973.0	643.8	IN EOE WALL		
214105	17 10	60 09										\$		
234930	16 52.4	60 46.5	239	333	77.6	3658	3628	7.7	7.4	981.9	644.1			
235210	16 46	60 50	207	341	78	3655	3674	8.0	-	981.5	643.3	WSD PT		
235815	16 35	60 19	104	278	74	3667	3644	8.6	8.4	981.3	643.8			
000520	16 26	59 44	74	227	71	3649	3693	7.3	7.0	990.9	644.8	SSSE PT		
001720	17 11	60 12										\$		
002315	17 34	60 24	328	70	120	3661	3518	964.7	9.4	974.4	643.5			
0030	17 39	60 43	194	50	101	3668	3598	7.6	-	975.9	643.5			
004015	16 46	60 57	~	335	92.3	3662	3644	8.4	-	982.9	644.1	PT B		
005030	17 00	60 18.4										\$		
005830	17 25	59 46	59	149	105	3676	3635	6.3	-	986	643	WALL EOE AT		
0105	17 39	60 04	284	116	106	3659	3608	7.7	-	979.3	644.3			
0113	17 52	60 49	232	66	110	3682	3701	6.9	-	987.1	643.6	NNW PT		
012715	17 04	60 23										\$		
013330	16 41	60 08	151	230	78	3668	3632	8.6	-	980.2	643.4			
013815	16 29.8	59 55.5	44	225	76.6	3666	3708	6.5	-	990.5	643.5	SSSE PT		
014130	16 44	59 42	~	206	88	3668	3704	6.6	-	988.1	643.3	ESSE PT		
015410	17 09	60 29										\$		
015945	17 20	60 51.5	297	30	111	3674	3531	10.3	10.3	966.2	643.7			
020730	17 16.9	61 12	165	21	95	3668	3652	8.0	-	981.4	643.5			
021645	16 29.3	60 57.7	~	290	84	3665	3696	7.7	-	985.0	643.1			
022730	17 06.3	60 36.5										\$		
023815	17 44	60 11.5	~	124	111	3666	3675	7.0	-	986.2	644.2	NNW TRACK		
024835	17 31	61 09.5	188	37	99	3665	3626	8.7	-	979	643.6	PT C		
0252	17 23.8	60 58.8	120	37	118	3667	3507	10.2	-	956	645	NW WALL		
025845	17 11.1	60 32.9								940		\$		
0311	16 49	59 49	0	196	87	3662	3706	6.3	6.5	991	644			
032230	17 54	60 12	240	128	87	3670	3683	8.1	7.8	986	644	AT NW PT		
033530	17 11	60 41										\$		
0346	16 34	61 02.5	209	287	89	3670	3681	7.3	7.3	988.4	643.6			
034730	16 30	61 05	END OF PHASE											
0400	15 35	60 42	158	264	55.8	3663	3809	5.9	3.9					
041745	14 23	60 08.6	156	238	21.5	3666	3867	5.5	1.7	1011.6	643.9			
042945	13 37.4	59 45.5	156	221	20.2	3673	3898	4.5	-5.1	1016.1	648.1			
0447	13 02.5	59 22.4				58		32.1	25.3		1005	BLK		

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
H.LUIS HRD VME
YYMMDDL FLT I.D.
950904H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
212301
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
044700
HHMMSS TAKE OFF TIME
213200
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
01
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
1
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
2
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
2
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPONT TEMPERATURE PROBE (I1) [1 OR 2]
1
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
1
* -----PRINTOUT RATE SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2952.CON
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950904H N42RF HRD Hurricane Luis VME

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2 (See note)
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altimeter	APN-159
Altitude change option (for vertical winds)	RA
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2952.CON

Notes:

INE 2 positions were corrected periodically with good GPS positions. No corrections were made to inertial groundspeeds.

Patched large positive APN-159 RA departure at takeoff with APN-232 radar altimeter.

Removed one substantial Dewpoint #1 departure around 0123Z, and substituted corrected Dewpoint #2 values when necessary.

J-W Liquid Water instrument was inoperatave for the flight.

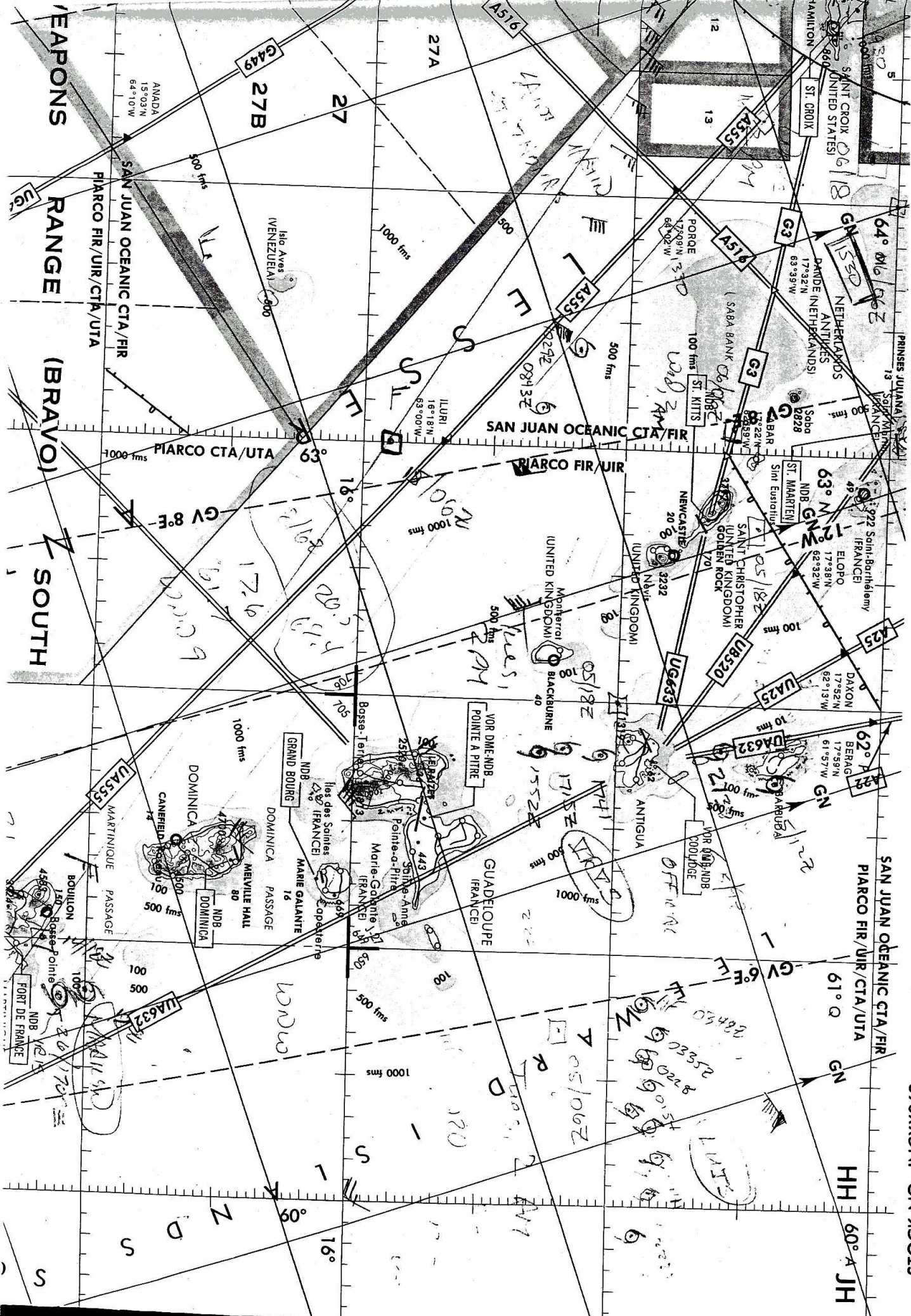
Special note. Locations 80, 81 and 82 of the Type 5 record on the Standard Tape contain vertical groundspeed, vertical airspeed and vertical wind, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Jack Parrish, Flight Director

are located entirely over land areas.

1961
ANNUAL RATE OF CHANGE 8' INCREASE

STOCKS ON KOCK



WEAPONS

RANGE

(BRAVO)

SOUTH

IDE 2 READ

213200	0.0	+0.1	04.6	29.1 ✓
215530	-0.3	⊕ -0.1	21.7	53.4 ✓
222000	-1.1	⊕ -0.5	08.5	49.8 ✓
225900	+0.2	⊖ +1.2	26.1	39.6 ✓
233630	-1.0	⊕ -0.4	22.6	51.5 ✓
002500	-0.6	⊖ +1.2	40.1	28.5 ✓
005500	-1.1	⊕ -0.5	18.0	00.1 ✓
015500	-1.0	⊖ +2.2	11.1	32.6 ✓
023300	-2.5	⊕ -0.9	27.1	22.2 ✓
032300	-1.5	⊖ +3.3	53.2	12.6 ✓
040030	-3.5	⊕ -1.0	32.9	41.4 ✓
(12) 0447	-2.6	⊖ +4.0	04.6	29.4 ✓

DPWZ next

MISSION LOG

PAGE 1 OF 1

CLEARANCES

FREQ	ALT	HDG	OTHER

POSITION REPORT

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE 243.0 VHF/VOICE 121.5 MF/VOICE 2182 KHZ HF/CW 8364 KHZ MF/CW 500 KHZ

MAYDAY, MAYDAY, MAYDAY THIS IS NOAA, NOAA, NOAA

- POSITION N/S E/W AT Z

- HEADING TRUE/MAG

- AT KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE

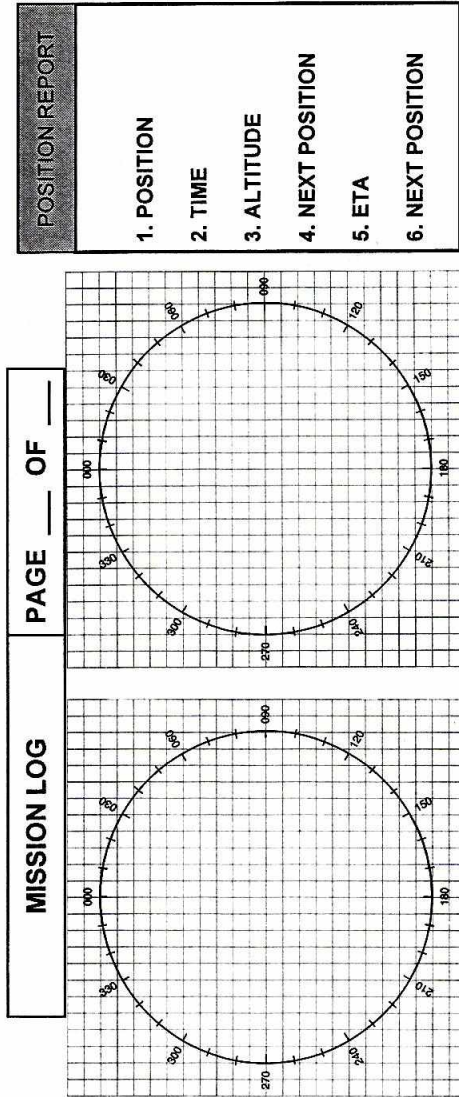
- WE ARE A P-3 AIRCRAFT WITH SOULS ON BOARD

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE ENDURANCE REMAINING



TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
2120																				ENB START
2123																				TAXI
2131	GPS	13.54.5	13.54.4	+1.1	13.54.6	-1.1		331	912	340	236	241	33	120	229					TAXI OFF
2148	FM1	59.55.1	59.55.2	-1.1	59.55.1	0		347	1302	000	241	255	53	120	235					PIP
2209		15.10.6	15.10.0	-1.4	15.19.5	-1.9		004	51	359	262	130	24	120	248					5
223650		17.06.1	17.06.2	-1.1	17.06.9	-1.8		004	51	359	262	130	24	120	248					5
231220		17.10.2	17.10.4	+1.8	17.10.3	-1.1		003	31	090	257	172	17	120	257					5
234110		17.09.9	17.09.5	+1.4	17.11.0	-1.1		241	31	238	274	020	21	120	260					5
000720		60.08.8	60.08.5	+1.3	60.08.5	+1.3		333	61	327	276	090	42	120	258					5
005020		17.11.1	17.10.6	+1.5	17.12.0	-1.9		065	71	058	275	175	40	120	259					5
012715		17.08.7	17.07.7	+1.0	17.09.7	-1.0		171	202	151	242	235	106	120	259					5
015410		60.22.9	60.24.0	-1.1	60.24.3	-1.2		301	51	296	256	032	26	120	252					5
022730		17.09.3	17.08.0	+1.3	17.10.4	-1.1		035	61	029	272	138	28	120	262					5
025845		60.29.0	60.31.0	-2.0	60.31.3	-2.3		131	131	118	245	195	72	120	264					5
033530		17.06.3	17.06.0	+1.3	17.08.7	-2.4		216	61	210	253	269	33	120	270					5
04444		60.36.5	60.35.0	+1.5	60.35.5	+1.0														LAND