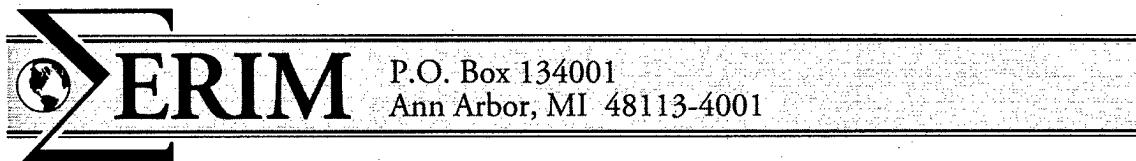


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Engineering Report for  
P-3/UWB Flight  
Portage, Maine  
27-28 June 1995

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## Introduction

This report is written as an aid to users of the SAR data collected by the P-3/SAR on 27-28 June 1995. The data set generated consists of:

HDDT #E1439  
HDDT #E1440  
HDDT #E1441  
HDDT #E1442  
Mission Plan disk, data, etc.  
Navigation disks  
Post Pass disks  
Post Pass Summary Sheets

The report consists of a summary of each pass with crew comments included. Users of the data should review the pass summaries to be alerted for anomalies that may have occurred during the collection or noted by processing or analysis people. The appendix contains plots of critical parameters as a function of time.

This information is provided so that users can examine, in some detail the exact time and magnitude of observed anomalies. In addition users can go back to this data to determine if there is a correlation between "funnies" observed during processing and the engineering data. For example, if there was a blank strip in the image it might correlate with the transmitter power plot showing that the transmitter was off during that time.

All of the data shown in the plots is also recorded on the HDDT's in the Aux. data block and could be reproduced by the user. These plots are included in the appendix as a convenience for users of the data. The appendix is available upon request and thus is not included with this set of data.

## Results

This, the third flight of the deployment, went about as well as the previous two. Navigational accuracy over the target was fair, with many passes having a GPS cross-track error of less than .1 nautical mile (nm), and some passes having GPS cross-track errors in excess of .3 nm. Although the Navigator of the aircraft would perform a position update on the LTN-51 INS when excessive cross-track errors were observed, the INS did not always drive the GPS cross-track error to zero. Five passes were noted as "bad" due to cross-track errors in excess of .15 nm. Two of those bad passes were repeated, with one repeat pass a success. The other three passes did not have repeat attempts. The UWB Transmitter performed as well as it did on the other two flights, with occasional computer-to-transmitter communications problems, but no actual transmitter output power faults on this flight.

The target site was named the Illustrative Example (IE). The sensor flew by the target site at various aspect and depression angles. Two XLC mode passes were flown, and only the Low 509 MHz mode of the UWB system was used. This mode was run with two transmit waveform notches:

243.0 MHz center frequency, 10 dB depth  
255.4 MHz center frequency, 10 dB depth

### Problems Noted

- C-band Transmitter output power questionable - Passes 3 and 4-5
- X-band RMS video level low - Passes 3 and 4-5
- UWB RF drive manual attenuator not reset to 0 - 1st 30 seconds Pass 6
- UWB Transmitter to Control Computer communications problem - Pass 11
- High RFI noted by radar crew - Pass 25-26

## Pass Summaries

UWB Portage, Maine Day #3  
27-28 June 1995

### Pass 1 Line 2

XLC synthetic target.

### Pass 2 Line 7

UWB low-band, pre-TWT synthetic target.

### Pass 3 Line 2

XLC mode. Target: IE + 0 degree aspect angle. This was the first of two XLC mode training passes at 13,500 ft altitude. The X-band RMS video level on this pass appears low (ranging from 4% to 8% RMS). This could have been caused by the receive attenuator being set too high (20 dB). The C-band transmitter seems to have had some type of output power problem during the first few seconds of the pass, then appeared to operate correctly for the remainder of the pass. This looks like it was basically a good pass.

### Pass 4-5 Line 4

XLC mode. Target: IE + 180 degree aspect angle. This was the second of the two training passes. The C-band transmitter again seemed to have some type of problem. RMS video level very low on the X and C-band channels, although receiver attenuation was reduced on the X-band channel from the previous pass. Both X and L-band transmitters worked well, and navigation was otherwise good.

### Pass 6 Line 7

UWB Lo-509. Target: IE + 0 degree aspect angle. It appears that an RF drive manual attenuator was not reset after the Pass 2 Synthetic target was run, and output power of the UWB transmitter was lower than usual for the first 30 seconds of the pass. Then, the transmitter was shut down, the manual attenuator reset, and the transmitter powered back up. This operation took less than 10 seconds. The transmitter operated then for the remainder of the pass (about 104 seconds) at full output power. Navigation was excellent, below .02 nm for most of the pass.

### Pass 7 Line 5

UWB Lo-509. Target: IE + 180 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .1 nm throughout pass.

### Pass 8 Line 9

UWB Lo-509. Target: IE + 270 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .1 and .13 nm throughout the pass.

Pass 9 Line 11

UWB Lo-509. Target: IE + 90 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .15 nm for most of the pass.

Pass 10 Line 13

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Bad pass, due to cross-track errors in excess of .15 nm throughout pass (from .15 to .2 nm during pass). A priority 1 pass which was not repeated during the flight.

Pass 11 Line 15

UWB Lo-509. Target: IE + 180 degree aspect angle. First pass at 10,000 ft. was a good one. Although the P Band Power plot shows the UWB transmitter had a problem at the start map point, the radar crew noted the problem was with the Control Computer to transmitter communications (i.e. the transmitter had not faulted) and did not attempt to reset the transmitter. Navigation was good, with a beginning cross-track error of 0 and an ending cross-track error of .14 nm.

Pass 12 Line 17

UWB Lo-509. Target: IE + 0 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error below .05 nm throughout pass.

Pass 13 Line 19

UWB Lo-509. Target: IE + 270 degree aspect angle. A fair pass due to cross-track errors between .3 nm and .15 nm during the first 25% of the pass. Cross-track error continued to decrease throughout the pass, to end at 0. No UWB transmitter faults.

Pass 14 Line 21

UWB Lo-509. Target: IE + 90 degree aspect angle. GPS cross-track error was .19 nm at the start of this pass, then decreased very rapidly so that, about 20 seconds into the pass, cross-track error was less than .15 nm (which continued to decrease throughout the pass to end up at .11 nm at end map). UWB transmitter performed without fault. Good pass.

Pass 15 Line 23

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. A fair pass, based on GPS cross-track error being in excess of .15 nm for about 75% of the pass. Cross-track error started out at .13 nm and increased steadily throughout the pass to end at .22 nm. UWB transmitter did not fault during the pass.

Pass 16 Line 25

UWB Lo-509. Target: IE + 30 degree aspect angle. It appears that the LTN-51 INS was updated after start map on this pass, but even that was not good enough to correct a GPS cross-track error of .3 nm (only dropped to .2 nm after update). Bad pass, which was repeated as pass 18.

Pass 17 Line 27

UWB Lo-509. Target: IE + 210 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .04 nm and .08 nm throughout pass.

Pass 18 Line 25

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Repeat of pass 16, this time was a good one, with the UWB transmitter performing without faults and the GPS cross-track error below .13 nm for most of the pass.

Pass 19 Line 29

UWB Lo-509. Target: IE + 120 degree aspect angle. Good pass, with the UWB Transmitter performing without faults and cross-track error between .07 nm and .05 nm throughout pass.

Pass 20 Line 31

UWB Lo-509. Target: IE + 300 degree aspect angle. Bad pass, due to GPS cross-track error between .23 nm (start) and .15 nm (end) throughout pass. This pass was repeated as pass 23.

Pass 21 Line 33

UWB Lo-509. Target: IE + 60 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error below .13 nm for most of the pass. The INS appears to have been updated sometime after start map.

Pass 22 Line 35

UWB Lo-509. Target: IE + 240 degree aspect angle. It appears that the LTN-51 INS was updated after start map on this pass, but even that was not good enough to correct a GPS cross-track error of .3 nm (only dropped to .2 nm after update). Bad pass, which was not repeated.

Pass 23 Line 31

UWB Lo-509. Target: IE + 300 degree aspect angle. Repeat of pass 20. Bad pass, due to GPS cross-track error between .15 nm (start) and .3 nm (end) throughout pass. Pass was not repeated again.

Pass 24 Line 41

UWB Lo-509. Target: IE + 300 degree aspect angle. First pass at 6000 ft altitude, it was a bad pass due to GPS cross-track error between .19 nm and .25 nm during pass. The radar crew noted that there was "no time to repeat" the pass.

Pass 25-26 Line 43

UWB Lo-509. Target: IE + 0 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .02 nm and .06 nm throughout the pass. The radar crew noted "large interference on this pass", referring to RFI observed on an analog oscilloscope.

Pass 27 Line 45

UWB Lo-509. Target: IE + 270 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .03 nm and .09 nm throughout the pass.

Pass 28 Line 47

UWB Lo-509. Target: IE + 90 degree aspect angle. Good pass, with the UWB transmitter performing without faults and the GPS cross-track error between .1 nm and .04 nm throughout the pass.

Pass 29 Line 49

UWB Lo-509. Target: Calibration Array, Empty Cedar Swamp, Site 5. Bad pass due to GPS cross-track error between .16 nm and .23 nm during pass. This was the last pass of the flight.

## **Mission Summaries**

Differential GPS Navigation Summary for Portage, ME June 27, 1995  
 Xtk. and Alt. Error (feet)

	Alt. Mean	Alt. St. Dev.	Xtk. Mean	Xtk. St. Dev.
Pass 3	-3.39	18.92	-963.63	91.11
Pass 4	43.51	2.73	1390.47	201.56
Pass 5	39.46	0.04	-1458	2.72
Pass 6	55.08	2.53	-98.75	25.72
Pass 7	38.85	2.89	700.78	35.67
Pass 8	46.85	2.94	-300.11	65.84
Pass 9	48.59	2.78	404.48	72.95
Pass 10	47.06	3.45	-493.99	50.07
Pass 11	-11.15	1.89	293.17	217.39
Pass 12	-4.41	3.3	-263.95	77.06
Pass 13	-4.06	3.24	167.03	426.48
Pass 14	-3.06	2.09	27.79	88.79
Pass 15	-4.52	3.5	-616.98	95.23
Pass 16	8.52	3.25	720.54	238.09
Pass 17	3.59	4.31	604.43	20.16
Pass 18	14.13	1.7	264.29	202.94
Pass 19	19.13	2.56	-461.08	19.84
Pass 20	14.73	2.76	-456.35	152.1
Pass 21	17.63	3.02	53.9	261.51
Pass 22	6.06	2.35	-875.57	388.11
Pass 23	13.98	2.03	-887.74	349.95
Pass 24	-42.51	3.02	1361.87	97.4
Pass 25	-43.47	1.55	-369.6	69.71
Pass 26	-43.66	1.43	-376.54	69.76
Pass 27	-36.02	1.99	645.78	82.27
Pass 28	-41.03	2.27	-153.59	119.91
Pass 29	-40.4	2.1	-519.84	172.7

NORMALIZED AVE POWER LEVEL SUMMARY  
 (TO: Max Groundspeed & 2000 Hz)

FOR P3 FLIGHT OF 28 Jun 1995, STARTING HOUR: 3

NOTE: X and L band transmitter power levels may vary  
 if the gain of the RF pulse was not adjusted for a  
 radar configuration change. Consult the Mission  
 Summary sheet for details.

PASS	LINE	POWER (dBm)						GNDSPD (kt)		
		X	L	C	P					
3	2	-31.4	.05	-31.2	.05	-37.3	.04	-70.0	0.00	254.5
4	4	-31.4	0.00	-31.2	0.00	-70.0	0.00	-70.0	0.00	250.7
5		-31.4	0.00	-31.2	0.00	-28.2	0.00	-70.0	0.00	252.6
6	7	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.0	.97	250.7
7	5	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.05	254.4
8	9	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.06	251.8
9	11	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.2	.02	252.0
10	13	-70.0	0.00	-70.0	0.00	-70.0	0.00	47.1	.03	251.0
11	15	-70.0	0.00	-70.0	0.00	-70.0	0.00	-70.0	0.00	251.7
12	17	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	.04	254.9
13	19	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.8	.08	249.7
14	21	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	250.0
15	23	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.04	251.6
16	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	250.7
17	27	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	253.1
18	25	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	248.8
19	29	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.04	248.4
20	31	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.05	252.0
21	33	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.05	247.2
22	35	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.6	.04	255.1
23	31	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.7	.03	247.4
24	41	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.5	.03	249.8
25	43	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	0.00	251.7
26		-70.0	0.00	-70.0	0.00	-70.0	0.00	46.4	.05	251.8
27	45	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.2	.04	250.2
28	47	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.1	.04	251.6
29	49	-70.0	0.00	-70.0	0.00	-70.0	0.00	46.0	.05	249.2
AVE:		-31.4	.02	-31.2	.02	-32.8	.02	46.6	.08	

## PEAK POWER LEVEL SUMMARY

FOR P3 FLIGHT OF 28 Jun 1995, STARTING HOUR: 3

PASS LINE PEAK POWER (Watts)

PASS	LINE	X	J	C	P
3	2	2317.0	3542.9	755.5	0.0
4	4	2328.7	3565.5	0.0	0.0
5		2310.6	3537.7	6077.5	0.0
6	7	0.0	0.0	0.0	946.3
7	5	0.0	0.0	0.0	1001.7
8	9	0.0	0.0	0.0	1002.9
9	11	0.0	0.0	0.0	999.2
10	13	0.0	0.0	0.0	975.0
11	15	0.0	0.0	0.0	0.0
12	17	0.0	0.0	0.0	834.6
13	19	0.0	0.0	0.0	901.2
14	21	0.0	0.0	0.0	870.4
15	23	0.0	0.0	0.0	865.6
16	25	0.0	0.0	0.0	862.3
17	27	0.0	0.0	0.0	857.1
18	25	0.0	0.0	0.0	847.0
19	29	0.0	0.0	0.0	846.8
20	31	0.0	0.0	0.0	861.5
21	33	0.0	0.0	0.0	857.7
22	35	0.0	0.0	0.0	867.0
23	31	0.0	0.0	0.0	889.7
24	41	0.0	0.0	0.0	853.0
25	43	0.0	0.0	0.0	831.8
26		0.0	0.0	0.0	822.3
27	45	0.0	0.0	0.0	796.6
28	47	0.0	0.0	0.0	775.0
29	49	0.0	0.0	0.0	765.7

AVE: -----  
-----  
2318.8      3548.7      2142.8      875.2

**MISSION SUMMARY FOR:**

## Presque Isle DAY 3

ON: 27 Jun 1995

PASS	LN #	S	R	L	R	BRD	DP	ANGS	DES	SAR	WAVE/POL CHANNEL:								
		W	E	O	T		D		TRK	LK	1	2	3	4					
		A	S	O	P	A	S	T											
		T	K	N		C	G												
		H		T		A		T											
	2	S	H	L	2	25.0	45	0	45.0	0	270	X	HH	L	HH	C	HH	L	VV
4-5	4	S	H	L	1	25.0	45	0	45.0	180	90	X	HH	L	HH	C	HH	L	VV
6	7	S	H	R	1	25.0	45	0	45.0	0	90	p	VV	p	VH	p	HV	p	HH
	5	S	H	R	1	25.0	45	0	45.0	180	270	p	VV	p	VH	p	HV	p	HH
	9	S	H	R	1	25.0	45	0	45.0	270	0	p	VV	p	VH	p	HV	p	HH
9	11	S	H	R	1	25.0	45	0	45.0	90	180	p	VV	p	VH	p	HV	p	HH
0	13	S	H	R	1	25.0	45	0	45.0	276	6	p	VV	p	VH	p	HV	p	HH
1	15	S	H	R	1	25.0	30	0	30.0	180	270	p	VV	p	VH	p	HV	p	HH
12	17	S	R	1		25.0	30.0	30.0		0	90	p	VV	p	VH	p	HV	p	HH
13	19	S	R	1		25.0	30.0	30.0		270	0	p	VV	p	VH	p	HV	p	HH
4	21	S	R	1		25.0	30.0	30.0		90	180	p	VV	p	VH	p	HV	p	HH
15	23	S	R	1		25.0	30.0	30.0		276	6	p	VV	p	VH	p	HV	p	HH
16	25	S	R	1		25.0	30.0	30.0		30	120	p	VV	p	VH	p	HV	p	HH
7	27	S	R	1		25.0	30.0	30.0		210	300	p	VV	p	VH	p	HV	p	HH
8	25	S	R	1		25.0	30.0	30.0		30	120	p	VV	p	VH	p	HV	p	HH
19	29	S	R	1		25.0	30.0	30.0		120	210	p	VV	p	VH	p	HV	p	HH
0	31	S	R	1		25.0	30.0	30.0		300	30	p	VV	p	VH	p	HV	p	HH
1	33	S	H	R	1	25.0	30	0	30.0	60	150	p	VV	p	VH	p	HV	p	HH
22	35	S	H	R	1	25.0	30	0	30.0	240	330	p	VV	p	VH	p	HV	p	HH
23	31	S	R	1		25.0	30.0	30.0		300	30	p	VV	p	VH	p	HV	p	HH
4	41	S	H	R	1	25.0	15	0	15.0	180	270	p	VV	p	VH	p	HV	p	HH
5-26	43	S	H	R	1	25.0	15	0	15.0	0	90	p	VV	p	VH	p	HV	p	HH
27	45	S	H	R	1	25.0	15	0	15.0	270	0	p	VV	p	VH	p	HV	p	HH
8	47	S	H	R	1	25.0	15	0	15.0	90	180	p	VV	p	VH	p	HV	p	HH
9	49	S	H	R	1	25.0	15	0	15.0	276	6	p	VV	p	VH	p	HV	p	HH

## MISSION SUMMARY FOR:

Presque Isle DAY 3

ON: 27 Jun 1995

PASS(S)	LINE	HDDT	MOCOMP COUNT	UCT TIME	PASS LEN	TGT ALT
-5	2	E1439	029861.. - 0321127	22:36:14 - 22:38:32	( 138)	770
	4	E1439	0353808.. - 0377098	22:46:47 - 22:49:12	( 145)	770
6	7	E1439	0394610.. - 0421111	22:56:35 - 22:59:13	( 158)	770
7	5	E1439	0452624.. - 0478957	23:06:45 - 23:09:22	( 157)	770
9	9	E1439	0500974.. - 0528135	23:19:10 - 23:21:52	( 162)	770
11	11	E1439	0558847.. - 0585317	23:30:01 - 23:32:39	( 158)	770
10	13	E1439	0622168.. - 0649162	23:41:40 - 23:44:21	( 161)	800
11	15	E1439	0667010.. - 0693841	23:53:19 - 23:55:59	( 160)	770
12	17	E1440	0726024.. - 0751689	00:04:13 - 00:06:46	( 153)	770
13	19	E1440	0784368.. - 0811200	00:17:57 - 00:20:37	( 160)	770
14	21	E1440	0835044.. - 0861712	00:27:52 - 00:30:31	( 159)	770
15	23	E1440	0893597.. - 0920725	00:39:17 - 00:41:59	( 162)	800
16	25	E1440	0956070.. - 0983072	00:52:00 - 00:54:41	( 161)	770
17	27	E1440	1010451.. - 1037274	01:02:43 - 01:05:23	( 160)	770
18	25	E1440	1066285.. - 1093454	01:13:19 - 01:16:01	( 162)	770
19	29	E1440	1131299.. - 1158804	01:26:37 - 01:29:21	( 164)	770
20	31	1441	1180490.. - 1207494	01:36:25 - 01:39:06	( 161)	770
21	33	1441	1252216.. - 1279011	01:49:45 - 01:52:25	( 160)	770
22	35	1441	1315361.. - 1341200	02:01:48 - 02:04:22	( 154)	770
23	31	1441	1366879.. - 1393891	02:16:28 - 02:19:09	( 161)	770
24	41	1441	1449751.. - 1476593	02:38:13 - 02:40:53	( 160)	770
25-26	43	1441	1501771.. - 1527940	02:48:11 - 02:50:47	( 156)	770
27	45	1441	1564287.. - 1590796	03:02:38 - 03:05:17	( 158)	770
28	47	1441	1616641.. - 1643480	03:13:11 - 03:15:51	( 160)	770
29	49	E1442	1670511.. - 1697661	03:24:16 - 03:26:58	( 162)	800

Navigation Summary Sheet  
For P3 Flight of June 27 Starting at 22:36 (UCT)

Pass No	Time (UCT) (hr:mm:ss)	INS XTE		INS/GPS		Lat. Dif. (ft)	INS/GPS		Lon. Dif. (ft)	INS DR.		RATE (kt)
		Mean (nm)	S.D. (nm)	Mean (ft)	S.D. (ft)		Mean (ft)	S.D. (ft)		LAT (kt)	LON (kt)	
3	22:36:16	-0.00	.02	-704.6	390.0	-165.1	265.9	-2.0	-1.9			
4	22:46:50	-0.00	.02	853.8	495.2	-1117.8	302.0	.7	-3.6			
6	22:56:35	-0.00	.02	-1276.4	448.0	62.9	75.5	.4	-.4			
7	23:06:45	-.01	.03	1003.8	437.5	320.7	77.9	.7	.4			
8	23:19:11	-.04	.05	635.7	279.2	1588.4	408.9	-1.9	1.2			
9	23:30:05	-.06	.05	-20.7	264.3	505.0	449.0	-2.0	2.6			
10	23:41:40	-.09	.03	-70.2	350.1	492.5	415.6	.1	-2.2			
11	23:53:23	0.00	0.00	602.7	481.4	-478.9	323.5	2.6	-3.2			
12	00:04:17	.01	.02	-720.5	531.4	-105.4	125.1	-.5	-0.0			
13	00:17:58	.02	.06	1573.8	301.4	279.1	492.8	2.7	-2.4			
14	00:27:52	-.05	.05	529.8	318.8	308.3	404.6	-.3	1.9			
15	00:39:17	-.10	.02	-693.3	324.4	1128.9	447.7	-.2	2.8			
16	00:52:03	-.12	.06	-560.8	506.7	74.8	402.9	-2.9	.9			
17	01:02:47	-.08	.04	8.4	483.3	-268.7	368.8	-1.4	-1.2			
18	01:13:22	-.08	.04	-775.0	473.0	-335.3	321.4	1.3	-2.0			
19	01:26:37	0.00	.02	700.3	387.8	-1093.2	394.7	.4	-2.5			
20	01:36:29	-.05	.06	-12.3	506.5	380.0	329.1	2.5	-1.8			
21	01:49:45	-.08	.05	-235.9	466.2	-95.2	482.2	2.9	2.8			
22	02:01:49	.02	.09	428.3	560.5	325.7	906.5	4.3	-9.0			
23	02:16:29	-.08	.10	-633.9	437.1	778.7	700.4	-1.9	-2.6			
24	02:38:14	-.07	.05	430.3	633.4	-119.2	212.2	3.5	.4			
25	02:48:15	-.02	.04	-521.0	375.1	55.0	313.6	.7	-1.6			
27	03:02:40	-.10	0.00	-440.3	325.9	767.6	464.8	2.2	-2.3			
28	03:13:15	-.08	.05	-427.3	337.0	-101.5	357.8	-3.2	1.2			
29	03:24:17	-.06	.05	-205.1	385.1	457.9	410.7	-2.5	1.7			

**Navigation Summary Sheet**  
**For P3 Flight of June 27 Starting at 22:36 (UCT)**

Pass No	Time (UCT) (hr:mm:ssc)	GPS Mean (nm)	XTE S.D. (nm)	Comp. Mean	Inc. S.D. (°)	Ang. (°)	Baro. Mean (ft)	Alt. S.D. (ft)	Gndspeed INS (kt)	GPS (kt)
3	22:36:16	.28	0.00	0.0	0.0	13273.3	19.5	254.5	254.2	
4	22:46:50	.20	.04	0.0	0.0	13264.7	3.0	251.5	252.0	
6	22:56:35	.01	0.00	0.0	0.0	13334.8	3.7	250.8	251.1	
7	23:06:45	.08	.01	0.0	0.0	13266.1	3.5	254.4	254.6	
8	23:19:11	-.12	.01	0.0	0.0	13313.5	3.3	251.8	254.4	
9	23:30:05	.14	.01	0.0	0.0	13297.4	3.8	252.1	250.6	
10	23:41:40	-.18	.01	0.0	0.0	13314.6	4.4	251.0	251.4	
11	23:53:23	.07	.04	0.0	0.0	9862.1	2.3	251.7	252.4	
12	00:04:17	-.03	.01	0.0	0.0	9894.3	3.8	254.9	254.4	
13	00:17:58	-.11	.08	0.0	0.0	9883.2	3.7	249.8	249.4	
14	00:27:52	.13	.02	0.0	0.0	9874.9	2.6	250.1	249.6	
15	00:39:17	-.18	.03	0.0	0.0	9888.7	2.3	251.6	254.0	
16	00:52:03	.18	.04	0.0	0.0	9900.4	2.6	250.7	252.8	
17	01:02:47	.06	.01	0.0	0.0	9876.2	3.7	253.1	251.7	
18	01:13:22	.10	.04	0.0	0.0	9901.2	1.7	248.8	250.2	
19	01:26:37	-.05	.01	0.0	0.0	9886.3	2.2	248.4	251.4	
20	01:36:29	-.18	.02	0.0	0.0	9899.8	2.4	252.1	250.7	
21	01:49:45	.09	.05	0.0	0.0	9899.9	2.2	247.2	247.2	
22	02:01:49	-.23	.06	0.0	0.0	9888.8	2.3	255.1	255.6	
23	02:16:29	-.24	.06	0.0	0.0	9903.4	2.0	247.4	250.2	
24	02:38:14	.22	.02	0.0	0.0	5940.6	2.9	249.8	250.3	
25	02:48:15	-.04	.02	0.0	0.0	5948.3	2.3	251.8	250.8	
27	03:02:40	.05	.02	0.0	0.0	5957.6	3.3	250.2	249.4	
28	03:13:15	.05	.01	0.0	0.0	5946.8	1.9	251.6	251.9	
29	03:24:17	-.18	.03	0.0	0.0	5960.7	3.8	249.2	250.6	

## **Pre-pass Data Sheets**

# Pre-pass Data Sheet

Date: 6/27/95

Line No.: 1

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.93	Start	N 46:49.12	W 68:28.98	770 ft
Line-up:	N 47:01.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.93	Last	N 46:39.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.93				
TO:	N 30:02.59	W 68:25.93	Tgt Trk:	0.0°	Vel:	0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH		45.00°	45.00°	1.64 nmi
Ch 2:	L HH		45.00°	45.00°	1.64 nmi
Ch 3:	C HH		45.00°	45.00°	1.64 nmi
Ch 4:	L VV		45.00°	45.00°	1.64 nmi

# Pre-pass Data Sheet

Date: 6/27/95

Line No.: 2

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:25.93				
Line-up:	N 46:27.13	W 68:25.93	Start	N 46:39.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:25.93	Last	N 46:49.12	W 68:28.98	770 ft
TO:	N 63:21.83	W 68:25.93				
			Tgt Trk:	0.0°	Vel:	0.0 knots

Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Left
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	-90.00°	End Squint:	-90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH		45.00°	45.00°	1.64 nmi
Ch 2:	L HH		45.00°	45.00°	1.64 nmi
Ch 3:	C HH		45.00°	45.00°	1.64 nmi
Ch 4:	L VV		45.00°	45.00°	1.64 nmi

# Pre-pass Data Sheet

Date: 6/27/95

Line No.: 3

Miss Title: Portage, ME: DAY 3

## Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:32.03	Start	N 46:39.12	W 68:28.98	770 ft
Line-up:	N 46:27.13	W 68:32.03	Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:32.03	Last	N 46:49.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:32.03				
TO:	N 63:21.83	W 68:32.03	Tgt Trk:	0.0°	Vel:	0.0 knots

## Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.11 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Str.p Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj End Scene:	5000.00 ft		

Pre-processor mode: Presum6

## Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	X HH		45.00°	45.00°	1.64 nmi
Ch 2:	L HH		45.00°	45.00°	1.64 nmi
Ch 3:	C HH		45.00°	45.00°	1.64 nmi
Ch 4:	L VV		45.00°	45.00°	1.64 nmi

# Pre-pass Data Sheet

Date: 6/27/95

Line No.: 4

Miss Title: Portage, ME: DAY 3

## Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:32.03				
Line-up:	N 47:01.12	W 68:32.03	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:32.03	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:32.03	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:32.03				
			Tgt Trk:	0.0°	Vel:	0.0 knots

## Radar data

Radar Mode: XLC

Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Left
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	-90.00°	End Squint:	-90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

## Channel Settings:

	Wv/Pol	Swth:	Cent Ang	Tgt	Dep Ang	Starting	Range
Ch 1:	X HH		45.00°		45.00°	1.64	nmi
Ch 2:	L HH		45.00°		45.00°	1.64	nmi
Ch 3:	C HH		45.00°		45.00°	1.64	nmi
Ch 4:	L VV		45.00°		45.00°	1.64	nmi

# Pre-pass Data Sheet

Date: 6/27/95

Line No.: 5

Miss Title: Portage, ME: DAY 3

Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.93				
Line-up:	N 47:01.12	W 68:25.93	Start	N 46:49.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.93	Main	N 46:44.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.93	Last	N 46:39.12	W 68:28.98	770 ft
TO:	N 30:02.59	W 68:25.93				
			Tgt Trk:	0.0°	Vel:	0.0 knots

Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	4.09 ft	Alt over tgt:	12730.00 ft	Des Trk:	180.00°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum

Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:		Predistortion Type:	UWB Amplitude fix
1 )	1 MHz Bandwidth Centered @	242.9 MHz, Depth @	9.3 dB
2 )	1 MHz Bandwidth Centered @	406 MHz, Depth @	9.3 dB

Receive Chirp File: CR\1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		45.00°	45.00°	2.71 nmi
Ch 2:	p VH		45.00°	45.00°	2.71 nmi
Ch 3:	p HV		45.00°	45.00°	2.71 nmi
Ch 4:	p HH		45.00°	45.00°	2.71 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 7

Miss Title: Portage, ME: DAY 3

### Aircraft positions

### Target: IE

	Latitude	Longitude
FROM:	N 30:02.59	W 68:32.03
Line-up:	N 46:27.13	W 68:32.03
Start:	N 46:39.12	W 68:32.03
End:	N 46:49.12	W 68:32.03
TO:	N 63:21.83	W 68:32.03

No.	Latitude	Longitude	Altitude
Start	N 46:39.12	W 68:28.98	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:49.12	W 68:28.98	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.11 ft	Alt over tgt:	12730.00 ft	Des Trk:	0.00°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj(ond Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		45.00°	45.00°	2.71 nmi
Ch 2:	p VH		45.00°	45.00°	2.71 nmi
Ch 3:	p HV		45.00°	45.00°	2.71 nmi
Ch 4:	p HH		45.00°	45.00°	2.71 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 9

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 44:13.17	W 44:58.54
Line-up:	N 46:41.98	W 68:04.28
Start:	N 46:42.02	W 68:21.71
End:	N 46:42.02	W 68:36.25
TO:	N 44:13.17	W 91:59.42

No.	Latitude	Longitude	Altitude
Start	N 46:44.11	W 68:21.71	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:44.12	W 68:36.25	770 ft

Tgt Trk: 0.0° Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.53 ft	Alt over tgt:	12730.00 ft	Des Trk:	270.09°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency: 215.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

Notches: NONE Predistortion Type: UWB Amplitude fix

Receive Chirp File: CRJ1N0A

Starting Frequency: 1405.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		45.00°	45.00°	2.71 nmi
Ch 2:	p VH		45.00°	45.00°	2.71 nmi
Ch 3:	p HV		45.00°	45.00°	2.71 nmi
Ch 4:	p HH		45.00°	45.00°	2.71 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 11

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude		No.	Latitude	Longitude	Altitude
FROM:	N 44:17.01	W 92:01.04		Start	N 46:44.11	W 68:36.25	770 ft
Line-up:	N 46:46.17	W 68:53.71		Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:46.21	W 68:36.25		Last	N 46:44.12	W 68:21.71	770 ft
End:	N 46:46.21	W 68:21.71		Tgt Trk:	0.0°	Vel:	0.0 knots
TO:	N 44:17.01	W 44:56.92					

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.55 ft	Alt over tgt:	12730.00 ft	Des Trk:	89.91°
Cmp Grg:	2.10 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12730.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRJ1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		45.00°	45.00°	2.71 nmi
Ch 2:	p VH		45.00°	45.00°	2.71 nmi
Ch 3:	p HV		45.00°	45.00°	2.71 nmi
Ch 4:	p HH		45.00°	45.00°	2.71 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 13

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: CALCS

	Latitude	Longitude		No.	Latitude	Longitude	Altitude
FROM:	N 42:36.03	W 45:45.85		Start	N 46:43.76	W 68:21.75	800 ft
Line-up:	N 46:40.39	W 68:04.74		Main	N 46:44.29	W 68:28.98	800 ft
Start:	N 46:41.68	W 68:22.07		Last	N 46:44.81	W 68:36.21	800 ft
End:	N 46:42.73	W 68:36.53					
TO:	N 45:53.35	W 92:35.40					
			Tgt Trk:	0.0°			Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	18.32 ft	Alt over tgt:	12700.00 ft	Des Trk:	276.08°
Cmp Grg:	2.09 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	12700.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	2.96 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: C:\L1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		45.00°	45.00°	2.70 nmi
Ch 2:	p VH		45.00°	45.00°	2.70 nmi
Ch 3:	p HV		45.00°	45.00°	2.70 nmi
Ch 4:	p HH		45.00°	45.00°	2.70 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 15

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude		No.	Latitude	Longitude	Altitude
FROM:	N 63:21.83	W 68:25.15		Start	N 46:49.12	W 68:28.98	770 ft
Line-up:	N 47:01.12	W 68:25.15		Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:49.12	W 68:25.15		Last	N 46:39.12	W 68:28.98	770 ft
End:	N 46:39.12	W 68:25.15					
TO:	N 30:02.59	W 68:25.15					
			Tgt Trk:	0.0°			Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.45 ft	Alt over tgt:	9230.00 ft	Des Trk:	180.00°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency: 215.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

Notches: NONE Predistortion Type: UWB Amplitude fix

Receive Chirp File: CR\1N0A

Starting Frequency: 1405.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 17

Miss Title: Portage, ME: DAY 3

### Aircraft positions

### Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 30:02.59	W 68:32.80	Start	N 46:39.12	W 68:28.98	770 ft
Line-up:	N 46:27.13	W 68:32.80	Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:39.12	W 68:32.80	Last	N 46:49.12	W 68:28.98	770 ft
End:	N 46:49.12	W 68:32.80				
TO:	N 63:21.83	W 68:32.80				
			Tgt Trk:	0.0°	Vel:	0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	6.45 ft	Alt over tgt:	9230.00 ft	Des Trk:	0.00°
Cmp Grg:	2.64 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2A

Starting Frequency: 215.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

Notches: NONE Predistortion Type: UWB Amplitude fix

Receive Chirp File: CRJ1NOA

Starting Frequency: 1405.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 19

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 44:12.68	W 44:58.75
Line-up:	N 46:41.44	W 68:04.28
Start:	N 46:41.48	W 68:21.71
End:	N 46:41.48	W 68:36.25
TO:	N 44:12.68	W 91:59.21

No.	Latitude	Longitude	Altitude
Start	N 46:44.11	W 68:21.71	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:44.12	W 68:36.25	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.52 ft	Alt over tgt:	9230.00 ft	Des Trk:	270.09°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj End Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: CBL1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 21

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude			
FROM:	N 44:17.50	W 92:01.25	No.	Latitude	Longitude
Line-up:	N 46:46.70	W 68:53.71	Start	N 46:44.11	W 68:36.25
Start:	N 46:46.74	W 68:36.25	Main	N 46:44.12	W 68:28.98
End:	N 46:46.74	W 68:21.71	Last	N 46:44.12	W 68:21.71
TO:	N 44:17.50	W 44:56.71	Tgt Trk:	0.0°	Altitude 770 ft

Tgt Trk: 0.0° Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	24.55 ft	Alt over tgt:	9230.00 ft	Des Trk:	89.91°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2A

Starting Frequency: 215.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

Notches: NONE Predistortion Type: UWB Amplitude fix

Receive Chirp File: C:\L1NOA

Starting Frequency: 1405.0 MHz Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 23

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: CALCS

	Latitude	Longitude
FROM:	N 42:35.56	W 45:46.11
Line-up:	N 46:39.86	W 68:04.82
Start:	N 46:41.15	W 68:22.15
End:	N 46:42.20	W 68:36.61
TO:	N 45:52.85	W 92:35.25

No.	Latitude	Longitude	Altitude
Start	N 46:43.76	W 68:21.75	800 ft
Main	N 46:44.29	W 68:28.98	800 ft
Last	N 46:44.81	W 68:36.21	800 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	22.72 ft	Alt over tgt:	9200.00 ft	Des Trk:	276.08°
Cmp Grg:	2.62 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9200.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.03 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp      File: CRL1U2A

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CRL1N0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.78 nmi
Ch 2:	p VH		30.00°	30.00°	2.78 nmi
Ch 3:	p HV		30.00°	30.00°	2.78 nmi
Ch 4:	p HH		30.00°	30.00°	2.78 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 25

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 31:49.89	W 78:14.04
Line-up:	N 46:30.71	W 68:44.60
Start:	N 46:41.11	W 68:35.93
End:	N 46:49.77	W 68:28.66
TO:	N 60:12.77	W 51:51.23

No.	Latitude	Longitude	Altitude
Start	N 46:39.80	W 68:32.62	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:48.45	W 68:25.33	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	1.65 ft	Alt over tgt:	9230.00 ft	Des Trk:	29.95°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2A

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CR\1N0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 27

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 60:10.02	W 51:45.39
Line-up:	N 46:57.51	W 68:13.24
Start:	N 46:47.13	W 68:22.02
End:	N 46:38.47	W 68:29.28
TO:	N 31:47.42	W 78:07.50

No.	Latitude	Longitude	Altitude
Start	N 46:48.45	W 68:25.33	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:39.80	W 68:32.62	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	1.68 ft	Alt over tgt:	9230.00 ft	Des Trk:	210.05°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: CUL1U2A

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec

Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CRL1N0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec

Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 29

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude		No.	Latitude	Longitude	Altitude
FROM:	N 52:47.33	W 92:35.12		Start	N 46:46.61	W 68:35.29	770 ft
Line-up:	N 46:54.86	W 68:48.54		Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:48.89	W 68:33.37		Last	N 46:41.63	W 68:22.68	770 ft
End:	N 46:43.89	W 68:20.78					
TO:	N 36:51.34	W 50:24.96					
			Tgt Trk:	0.0°			Vel: 0.0 knots

### Radar data

Radar Mode: UWB Radar Collection mode: Stripmap

X Offset:	11.97 ft	Alt over tgt:	9230.00 ft	Des Trk:	119.94°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: CRJ1NOA

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 31

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude	No.	Latitude	Longitude	Altitude
FROM:	N 36:47.45	W 50:29.32	Start	N 46:41.62	W 68:22.69	770 ft
Line-up:	N 46:33.32	W 68:09.55	Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:39.35	W 68:24.60	Last	N 46:46.62	W 68:35.28	770 ft
End:	N 46:44.34	W 68:37.19	Tgt Trk:	0.0°	Vel:	0.0 knots
TO:	N 52:42.60	W 92:36.70				

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	11.89 ft	Alt over tgt:	9230.00 ft	Des Trk:	300.06°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2A

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: C:\L1NOA

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 33

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 36:51.35	W 86:33.02
Line-up:	N 46:37.87	W 68:52.25
Start:	N 46:43.90	W 68:37.18
End:	N 46:48.90	W 68:24.59
TO:	N 52:47.34	W 44:22.84

No.	Latitude	Longitude	Altitude
Start	N 46:41.62	W 68:35.27	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:46.62	W 68:22.68	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	19.98 ft	Alt over tgt:	9230.00 ft	Des Trk:	59.91°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presumed

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CRJ1NOA

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 35

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 52:42.59	W 44:21.25
Line-up:	N 46:50.30	W 68:05.61
Start:	N 46:44.33	W 68:20.76
End:	N 46:39.33	W 68:33.35
TO:	N 36:47.44	W 86:28.63

No.	Latitude	Longitude	Altitude
Start	N 46:46.61	W 68:22.67	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:41.63	W 68:35.28	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	20.01 ft	Alt over tgt:	9230.00 ft	Des Trk:	240.09°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 37

Miss Title: Portage, ME: DAY 3

### Aircraft positions

### Target: IE

	Latitude	Longitude
FROM:	N 60:12.77	W 85:06.75
Line-up:	N 47:00.14	W 68:38.09
Start:	N 46:49.76	W 68:29.32
End:	N 46:41.10	W 68:22.05
TO:	N 31:49.89	W 58:43.93

No.	Latitude	Longitude	Altitude
Start	N 46:48.45	W 68:32.63	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:39.80	W 68:25.34	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.49 ft	Alt over tgt:	9230.00 ft	Des Trk:	149.97°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: CRJ1NOA

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 39

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 31:47.43	W 58:50.45
Line-up:	N 46:28.08	W 68:19.99
Start:	N 46:38.48	W 68:28.66
End:	N 46:47.14	W 68:35.93
TO:	N 60:10.03	W 85:12.55

No.	Latitude	Longitude	Altitude
Start	N 46:39.80	W 68:25.34	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:48.45	W 68:32.62	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	4.48 ft	Alt over tgt:	9230.00 ft	Des Trk:	330.03°
Cmp Grg:	2.63 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	9230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.04 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		30.00°	30.00°	2.79 nmi
Ch 2:	p VH		30.00°	30.00°	2.79 nmi
Ch 3:	p HV		30.00°	30.00°	2.79 nmi
Ch 4:	p HH		30.00°	30.00°	2.79 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 41

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 63:21.83	W 68:24.31
Line-up:	N 47:01.12	W 68:24.31
Start:	N 46:49.12	W 68:24.31
End:	N 46:39.12	W 68:24.31
TO:	N 30:02.59	W 68:24.31

No.	Latitude	Longitude	Altitude
Start	N 46:49.12	W 68:28.98	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:39.12	W 68:28.98	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.62 ft	Alt over tgt:	5230.00 ft	Des Trk:	180.00°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: C:\L1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		15.00°	15.00°	3.07 nmi
Ch 2:	p VH		15.00°	15.00°	3.07 nmi
Ch 3:	p HV		15.00°	15.00°	3.07 nmi
Ch 4:	p HH		15.00°	15.00°	3.07 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 43

Miss Title: Portage, ME: DAY 3

### Aircraft positions

### Target: IE

	Latitude	Longitude
FROM:	N 30:02.59	W 68:33.65
Line-up:	N 46:27.13	W 68:33.65
Start:	N 46:39.12	W 68:33.65
End:	N 46:49.12	W 68:33.65
TO:	N 63:21.83	W 68:33.65

No.	Latitude	Longitude	Altitude
Start	N 46:39.12	W 68:28.98	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:49.12	W 68:28.98	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	9.62 ft	Alt over tgt:	5230.00 ft	Des Trk:	0.00°
Cmp Grg:	3.22 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		15.00°	15.00°	3.07 nmi
Ch 2:	p VH		15.00°	15.00°	3.07 nmi
Ch 3:	p HV		15.00°	15.00°	3.07 nmi
Ch 4:	p HH		15.00°	15.00°	3.07 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 45

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude		No.	Latitude	Longitude	Altitude
FROM:	N 44:12.15	W 44:58.97		Start	N 46:44.11	W 68:21.71	770 ft
Line-up:	N 46:40.86	W 68:04.28		Main	N 46:44.12	W 68:28.98	770 ft
Start:	N 46:40.90	W 68:21.71		Last	N 46:44.12	W 68:36.25	770 ft
End:	N 46:40.90	W 68:36.25					
TO:	N 44:12.15	W 91:58.99					
			Tgt Trk:	0.0°			Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	29.93 ft	Alt over tgt:	5230.00 ft	Des Trk:	270.09°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp File: C:\L1NOA

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		15.00°	15.00°	3.07 nmi
Ch 2:	p VH		15.00°	15.00°	3.07 nmi
Ch 3:	p HV		15.00°	15.00°	3.07 nmi
Ch 4:	p HH		15.00°	15.00°	3.07 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 47

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: IE

	Latitude	Longitude
FROM:	N 44:18.04	W 92:01.47
Line-up:	N 46:47.28	W 68:53.71
Start:	N 46:47.33	W 68:36.25
End:	N 46:47.33	W 68:21.71
TO:	N 44:18.04	W 44:56.49

No.	Latitude	Longitude	Altitude
Start	N 46:44.11	W 68:36.25	770 ft
Main	N 46:44.12	W 68:28.98	770 ft
Last	N 46:44.12	W 68:21.71	770 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	29.98 ft	Alt over tgt:	5230.00 ft	Des Trk:	89.91°
Cmp Grg:	3.21 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5230.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.33 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	AdjGnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency:	215.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec
Notches:	NONE	Predistortion Type:	UWB Amplitude fix

Receive Chirp      File: CRJ1N0A

Starting Frequency:	1405.0 MHz	Rate:	26.3 MHz/uSec
Sampling Frequency:	800.0 MHz	Length:	0.0 uSec

### Channel Settings:

	Wv/Pol	Swth	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		15.00°	15.00°	3.07 nmi
Ch 2:	p VH		15.00°	15.00°	3.07 nmi
Ch 3:	p HV		15.00°	15.00°	3.07 nmi
Ch 4:	p HH		15.00°	15.00°	3.07 nmi

## Pre-pass Data Sheet

Date: 6/27/95

Line No.: 49

Miss Title: Portage, ME: DAY 3

### Aircraft positions

Target: CALCS

	Latitude	Longitude
FROM:	N 42:35.05	W 45:46.39
Line-up:	N 46:39.29	W 68:04.91
Start:	N 46:40.59	W 68:22.23
End:	N 46:41.63	W 68:36.69
TO:	N 45:52.31	W 92:35.10

No.	Latitude	Longitude	Altitude
Start	N 46:43.76	W 68:21.75	800 ft
Main	N 46:44.29	W 68:28.98	800 ft
Last	N 46:44.81	W 68:36.21	800 ft

Tgt Trk: 0.0°      Vel: 0.0 knots

### Radar data

Radar Mode: UWB

Radar Collection mode: Stripmap

X Offset:	27.31 ft	Alt over tgt:	5200.00 ft	Des Trk:	276.08°
Cmp Grg:	3.19 nmi	Ant Dep ang:	25.00°	Look:	Right
Cmp Alt:	5200.00 ft	Est time:	2:24 min	Resolution:	
Map Len:	10.00 nmi	MCP Slt rng:	3.31 nmi	Swath Width:	Single
Strip Len:	10.00 nmi	Strip Len Pad:	0.00 nmi		
Req Pndr:	0.00 ft	Beg Squint:	90.00°	End Squint:	90.00°
RgGtDlt:	0.00 ft	Adj Gnd Scene:	5000.00 ft		

Pre-processor mode: Presum6

### Chirp File Parameters:

Transmit Chirp      File: C:\L1U2B

Starting Frequency: 215.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

Notches: NONE      Predistortion Type: UWB Amplitude fix

Receive Chirp      File: CR\LN0A

Starting Frequency: 1405.0 MHz      Rate: 26.3 MHz/uSec  
Sampling Frequency: 800.0 MHz      Length: 0.0 uSec

### Channel Settings:

	Wv/Pol	Swtch	Cent Ang	Tgt Dep Ang	Starting Range
Ch 1:	p VV		15.00°	15.00°	3.05 nmi
Ch 2:	p VH		15.00°	15.00°	3.05 nmi
Ch 3:	p HV		15.00°	15.00°	3.05 nmi
Ch 4:	p HH		15.00°	15.00°	3.05 nmi

## **Post-pass Data Sheets**

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 2  
Mission: Presque Isle DAY 3

Time: 178:22:36:14  
Pass 3  
Req.# 1

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13273 ft s.d. = 19	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	0.0°	Far Rng Dep:	30.6°	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	20.0	35.0	18.0	35.0
End Sq:	-90.0°	RMS Video (%FS)	7.0	27.5	24.2	26.8

WAYPOINTS

Latitude	Longitude	
Line_up: N 46:27.13	W 68:25.93	Main Target: IE
Start: N 46:39.12	W 68:25.93	Mocomp Point:
End: N 46:49.12	W 68:25.93	Lat: N 46:44.12
From: N 30:02.59	W 68:25.93	Long: W 68:28.98
To: N 63:21.83	W 68:25.93	Tgt Trk: 0.0 Tgt Vel: 0.0
		Alt: 770.0 ft

RADAR PARAMETERS - for XJC

RTP Channel: 2	Filter damping is Hi -> 10 sec
Resolution: High	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 254.5 kts
RMS Time Constant: 2^7	Mocomp On
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF

Ave Ref Vel -> -1.1 fps (s.d.= 1.2)  
Ave Fil Vel -> .2 fps (s.d.= 1.0)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -31.4	Elevation: 0.0°		
L: -31.2	Azimuth: 0.0°	Starting: 472 ft	(1)
C: -37.3	Pitch: 0.0°	Ending: 1535 ft	(1)
P: -70.0			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 22:36:14
Y: -463.0	L: 63.8 dB	End: 22:38:32
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 298611 00048:E73h	Alt: 0 ft (GPS)
End: 321127 00041:667h	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 4  
Mission: Presque Isle DAY 3

Time: 178:22:46:47  
Pass 4  
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4
Desired:	13500 ft	X-HH	L-HH	C-HH	L-VV
Baro:	13264 ft s.d. = 2	Swath Ctr Ang:	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°
Des. trk:	180.0°	Far Rng Dep:	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	18.0	35.0	18.0
End Sq:	-90.0°	RMS Video (%FS)	9.1	26.9	3.2
					26.9

WAYPOINTS

Latitude	Longitude	
Line_up: N 47:01.12	W 68:32.03	Main Target: IE
Start: N 46:49.12	W 68:32.03	Mocomp Point:
End: N 46:39.12	W 68:32.03	Lat: N 46:44.12
From: N 63:21.83	W 68:32.03	Long: W 68:28.98
To: N 30:02.59	W 68:32.03	Tgt Trk: 0.0 Tgt Vel: 0.0
		Alt: 770.0 ft

RADAR PARAMETERS - for XMC

RTP Channel: 1	Filter damping is Hi -> 10 sec
Resolution: High	PRF Factor is FAST (262.5 kts)
Swath width: Single	Ave Gndspd: Real -> 250.7 kts
RMS Time Constant: 2^7	Mocomp On
Position Reference: ON	GPS Vel/Pos Reference
Atten. Tracking: OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta: 0.0 ft	Range Tracking is OFF
Azimuth Presum Rate: Presum6	Clutterlock Reference: OFF

Ave Ref Vel -> 4.3 fps (s.d.= .8)  
Ave Fil Vel -> 6.2 fps (s.d.= .7)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -31.4	Elevation: 0.0°	Starting: 1548 ft	(1)
L: -31.2	Azimuth: 0.0°	Ending: 2615 ft	(1)
C: -70.0	Pitch: 0.0°		
P: -70.0			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 22:46:47
Y: -463.0	L: 63.8 dB	End: 22:49:12
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 353808 00056610h	Alt: 0 ft (GPS)
End: 367315 00059AD3h	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 4  
Mission: Presque Isle DAY 3

Time: 178:22:48:11  
Pass 5  
Req.# 2

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	13500 ft	Wave/Pol.:	X-HH	L-HH	C-HH	L-VV
Baro:	13266 ft s.d. =	3 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Left	St rng (ft):	9947	9947	9947	9947
Depr Ang:	25.0°	Near Rng Dep:	90.0°	90.0°	90.0°	90.0°
Des. trk:	180.0°	Far Rng Dep:	30.6°	30.6°	30.6°	30.6°
Start Sq:	-90.0°	Atten (dB):	18.0	35.0	15.0	35.0
End Sq:	-90.0°	RMS Video (%FS)	9.3	28.4	4.7	27.1

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 47:01.12	W 68:32.03	Main Target: IE
Start:	N 46:49.12	W 68:32.03	Mocomp Point:
End:	N 46:39.12	W 68:32.03	Lat: N 46:44.12
From:	N 63:21.83	W 68:32.03	Long: W 68:28.98
To:	N 30:02.59	W 68:32.03	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for XJC

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	High	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 252.6 kts
RMS Time Constant:	2^7	Mocomp On
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF

Ave Ref Vel -> 3.4 fps (s.d.= .5)  
Ave Fil Vel -> 5.4 fps (s.d.= .4)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -31.4	Elevation: 0.0°		
L: -31.2	Azimuth: 0.0°	Starting: 1548 ft	(1)
C: -28.2	Pitch: 0.0°	Ending: 2615 ft	(1)
P: -70.0			

Vel Bias	Cal Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 22:48:11
Y: -463.0	L: 63.8 dB	End: 22:49:12
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 367315 00050AD3h	Alt: 0 ft (GPS)
End: 377098 0005010Ah	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 7  
Mission: Presque Isle DAY 3

Time: 178:22:56:35  
Pass 6  
Req.# 4

#### AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	13500 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	13334 ft s.d. =	4	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°	
Look:	Right	St rng (ft):	16466	16466	16466	16466	
Depr Ang:	25.0°	Near Rng Dep:	54.1°	54.1°	54.1°	54.1°	
Des. trk:	0.0°	Far Rng Dep:	24.2°	24.2°	24.2°	24.2°	
Start Sq:	90.0°	Atten (dB):	55.0	66.0	54.0	63.0	
End Sq:	90.0°	RMS Video (%FS)	19.0	12.5	16.4	14.7	

#### WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:27.13	W 68:32.03	Main Target: IE
Start:	N 46:39.12	W 68:32.03	Mocomp Point:
End:	N 46:49.12	W 68:32.03	Lat: N 46:44.12
From:	N 30:02.59	W 68:32.03	Long: W 68:28.98
To:	N 63:21.83	W 68:32.03	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

#### RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTL.U2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 250.7 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .6 fpss (s.d.= 1.0)  
Ave Fil Vel -> 1.8 fpss (s.d.= .8)

NML XMIT PWR	ANLL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 2630 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 3873 ft	(1)
P: 47.0			

Vel Bias	CAJ Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 22:56:35
Y: -463.0	L: 63.8 dB	End: 22:59:13
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 394610 00060572h	Alt: 0 ft (GPS)
End: 421111 000606CF7h	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 5  
Mission: Presque Isle DAY 3

Time: 178:23:06:45  
Pass 7  
Req.# 3

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	13500 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	13266 ft s.d. =	4	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°	
Look:	Right	St rng (ft):	16466	16466	16466	16466	
Depr Ang:	25.0°	Near Rng Dep:	53.7°	53.7°	53.7°	53.7°	
Des. trk:	180.0°	Far Rng Dep:	24.0°	24.0°	24.0°	24.0°	
Start Sq:	90.0°	Atten (dB):	51.0	64.0	50.0	61.0	
End Sq:	90.0°	RMS Video (%FS)	29.0	13.2	24.3	16.9	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 47:01.12	W 68:25.93	Main Target: IE
Start:	N 46:49.12	W 68:25.93	Mocomp Point:
End:	N 46:39.12	W 68:25.93	Lat: N 46:44.12
From:	N 63:21.83	W 68:25.93	Long: W 68:28.98
To:	N 30:02.59	W 68:25.93	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 254.4 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 1.6 fps (s.d.= 1.2)  
Ave Fil Vel -> 2.2 fps (s.d.= .9)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 3888 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 5113 ft	(1)
P: 47.2			

Vel Bias	Cal Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)  
Start: 23:06:45  
End: 23:09:22

Mocomp Counters

Start: 452624 00061810h  
End: 478957 00074EEDh

CPA (UCT): 00:00:00  
Alt: 0 ft (GPS)  
Lat: N 0:00: 0  
Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 9  
Mission: Presque Isle DAY 3

Time: 178:23:19:10  
Pass 8  
Req.# 5

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13314 ft s.d. =	3 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	54.0°	54.0°	54.0°	54.0°
Des. trk:	270.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°
Start Sq:	90.0°	Atten (dB):	54.0	64.0	55.0	61.0
End Sq:	90.0°	RMS Video (%FS)	25.8	22.4	18.5	19.6

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:41.98	W 68:04.28	Main Target: IE
Start:	N 46:42.02	W 68:21.71	Mocomp Point:
End:	N 46:42.02	W 68:36.25	Lat: N 46:44.12
From:	N 44:13.17	W 44:58.54	Long: W 68:28.98
To:	N 44:13.17	W 91:59.42	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 251.8 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .9 fps (s.d.= 1.1)  
Ave Fil Vel -> 2.4 fps (s.d.= .9)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 5128 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 6384 ft	(1)
P: 47.2			

Vel Bias	CAL Atten
X: 1024.0	X: 63.8 dB
Y: -463.0	L: 63.8 dB
Z: 6435.0	C: 63.8 dB

LINE Map Time (UCT)  
Start: 23:19:10  
End: 23:21:52

Mocomp Counters

Start: 500974 0007A4EEh  
End: 528135 00080F07h

CPA (UCT): 00:00:00  
Alt: 0 ft (GPS)  
Lat: N 0:00: 0  
Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 11  
Mission: Presque Isle DAY 3

Time: 178:23:30:01  
Pass 9  
Req.# 6

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	13500 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	13297 ft s.d. =	4 Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	18003 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°
Look:	Right	St rng (ft):	16466	16466	16466	16466
Depr Ang:	25.0°	Near Rng Dep:	53.9°	53.9°	53.9°	53.9°
Des. trk:	90.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°
Start Sq:	90.0°	Atten (dB):	54.0	67.0	55.0	63.0
End Sq:	90.0°	RMS Video (%FS)	24.1	11.8	16.3	15.9

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:46.17	W 68:53.71	Main Target: IE
Start:	N 46:46.21	W 68:36.25	Mocomp Point:
End:	N 46:46.21	W 68:21.71	Lat: N 46:44.12
From:	N 44:17.01	W 92:01.04	Long: W 68:28.98
To:	N 44:17.01	W 44:56.92	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 252.0 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .4 fps (s.d.= 2.3)  
Ave Fil Vel -> .7 fps (s.d.= 2.0)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 6399 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 7645 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 47.2			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:30:01
Y: -463.0	L: 63.8 dB	End: 23:32:39
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 558847 000886FFh	Alt: 0 ft (GPS)
End: 585317 00081E65h	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 13  
Mission: Presque Isle DAY 3

Time: 178:23:41:40  
Pass 10  
Req.# 7

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	13500 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	13315 ft s.d. =	5	Swath Ctr Ang:	45.0°	45.0°	45.0°	45.0°
Slt. rng:	17961 ft	Tgt Dep Ang:	45.0°	45.0°	45.0°	45.0°	
Look:	Right	St rng (ft):	16424	16424	16424	16424	
Depr Ang:	25.0°	Near Rng Dep:	54.2°	54.2°	54.2°	54.2°	
Des. trk:	276.0°	Far Rng Dep:	24.1°	24.1°	24.1°	24.1°	
Start Sq:	90.0°	Atten (dB):	55.0	65.0	55.0	61.0	
End Sq:	90.0°	RMS Video (%FS)	21.7	13.5	16.9	19.0	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:40.39	W 68:04.74	Main Target: CALCS
Start:	N 46:41.68	W 68:22.07	Mocomp Point:
End:	N 46:42.73	W 68:36.53	Lat: N 46:44.29
From:	N 42:36.03	W 45:45.85	Long: W 68:28.98
To:	N 45:53.35	W 92:35.40	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 251.0 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -.8 fps (s.d.= 1.5)  
Ave Fil Vel -> .6 fps (s.d.= 1.2)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 7660 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 8928 ft	(1)
P: 47.1			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:41:40
Y: -463.0	L: 63.8 dB	End: 23:44:21
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 622168 0009'E58h	Alt: 0 ft (GPS)
End: 649162 000917CAh	Lat: N 0:00: 0
	Lon: E 0:00: 0

27 Jun 1995  
Tape: E1439

Post-line Data Sheet  
Line 15  
Mission: Presque Isle DAY 3

Time: 178:23:53:19  
Pass 11  
Req.# 8

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9862 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.6°	35.6°	35.6°	35.6°	
Des. trk:	180.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	52.0	65.0	51.0	61.0	
End Sq:	90.0°	RMS Video (%FS)	23.8	12.0	18.6	15.1	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 47:01.12	W 68:25.15	Main Target: IE
Start:	N 46:49.12	W 68:25.15	Mocomp Point:
End:	N 46:39.12	W 68:25.15	Lat: N 46:44.12
From:	N 63:21.83	W 68:25.15	Long: W 68:28.98
To:	N 30:02.59	W 68:25.15	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UVB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 251.7 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -4.7 fpss (s.d.= .6)  
Ave Fil Vel -> -4.7 fpss (s.d.= .5)

NML XMIT PWR	ANAL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 8942 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 10185 ft	(1)
P: -70.0			

Vel Bias	CA1 Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 23:53:19
Y: -463.0	L: 63.8 dB	End: 23:55:59
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 667010 000A0D82h	Alt: 0 ft (GPS)
End: 693841 000A0651h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 17  
Mission: Presque Isle DAY 3

Time: 179:00:04:13  
Pass 12  
Req.# 9

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9894 ft s.d. =	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	0.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	68.0	51.0	67.0
End Sq:	90.0°	RMS Video (%FS)	23.9	9.9	19.6	11.1

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:27.13	W 68:32.80	Main Target: IE
Start:	N 46:39.12	W 68:32.80	Mocomp Point:
End:	N 46:49.12	W 68:32.80	Lat: N 46:44.12
From:	N 30:02.59	W 68:32.80	Long: W 68:28.98
To:	N 63:21.83	W 68:32.80	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 254.9 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2A	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .7 fps (s.d.= 1.4)  
Ave Fil Vel -> 1.4 fps (s.d.= 1.1)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 200 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 1434 ft	(2)
P: 46.4			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:04:13
Y: -463.0	L: 63.8 dB	End: 00:06:46
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 726024 000B1408h	Alt: 0 ft (GPS)
End: 751689 000B1849h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 19  
Mission: Presque Isle DAY 3

Time: 179:00:17:57  
Pass 13  
Req.# 10

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9883 ft s.d. =	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	270.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	54.0	63.0	53.0	65.0
End Sq:	90.0°	RMS Video (%FS)	19.9	14.4	18.2	13.4

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:41.44	W 68:04.28	Main Target: IE
Start:	N 46:41.48	W 68:21.71	Mocomp Point:
End:	N 46:41.48	W 68:36.25	Lat: N 46:44.12
From:	N 44:12.68	W 44:58.75	Long: W 68:28.98
To:	N 44:12.68	W 91:59.21	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 249.7 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -9.5 fps (s.d.= 7.1)  
Ave Fil Vel -> -7.9 fps (s.d.= 6.9)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 1448 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 2692 ft	(2)
P: 46.8			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:17:57
Y: -463.0	L: 63.8 dB	End: 00:20:37
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 784368 000BJ'7FOh	Alt: 0 ft (GPS)
End: 811200 000C60C0h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 21  
Mission: Presque Isle DAY 3

Time: 179:00:27:52  
Pass 14  
Req.# 11

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9875 ft s.d. =	3 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	90.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	63.0	51.0	66.0
End Sq:	90.0°	RMS Video (%FS)	23.8	11.5	17.1	11.8

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:46.70	W 68:53.71	Main Target: IE
Start:	N 46:46.74	W 68:36.25	Mocomp Point:
End:	N 46:46.74	W 68:21.71	Lat: N 46:44.12
From:	N 44:17.50	W 92:01.25	Long: W 68:28.98
To:	N 44:17.50	W 44:56.71	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 250.0 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.0 fps (s.d.= 4.2)  
Ave Fil Vel -> 1.3 fps (s.d.= 3.9)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 2706 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 3963 ft	(2)
P: 46.6			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:27:52
Y: -463.0	L: 63.8 dB	End: 00:30:31
Z: 6435.0	C: 63.8 dB	

Mocomp Counters

Start: 835044	000C3DE4h	CPA (UCT): 00:00:00
End: 861712	000D610h	Alt: 0 ft (GPS)
		Lat: N 0:00: 0
		Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 23  
Mission: Presque Isle DAY 3

Time: 179:00:39:17  
Pass 15  
Req.# 12

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9889 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slr. rng:	18400 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16861	16861	16861	16861	
Depr Ang:	25.0°	Near Rng Dep:	35.9°	35.9°	35.9°	35.9°	
Des. trk:	276.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	55.0	63.0	54.0	66.0	
End Sq:	90.0°	RMS Video (%FS)	18.3	13.6	17.0	18.2	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:39.86	W 68:04.82	Main Target: CALCS
Start:	N 46:41.15	W 68:22.15	Mocomp Point:
End:	N 46:42.20	W 68:36.61	Lat: N 46:44.29
From:	N 42:35.56	W 45:46.11	Long: W 68:28.98
To:	N 45:52.85	W 92:35.25	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 251.6 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.6 fps (s.d.= .8)  
Ave Fil Vel -> 3.9 fps (s.d.= .8)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 3976 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 5250 ft	(2)
P: 46.6			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:39:17
Y: -463.0	L: 63.8 dB	End: 00:41:59
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 893597 000D\29Dh	Alt: 0 ft (GPS)
End: 920725 000E\0C95h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 25  
Mission: Presque Isle DAY 3

Time: 179:00:52:00  
Pass 16  
Req.# 13

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	63.0	52.0	67.0
End Sq:	90.0°	RMS Video (%FS)	29.2	13.6	21.4	13.8

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:30.71	W 68:44.60	Main Target: IE
Start:	N 46:41.11	W 68:35.93	Mocomp Point:
End:	N 46:49.77	W 68:28.66	Lat: N 46:44.12
From:	N 31:49.89	W 78:14.04	Long: W 68:28.98
To:	N 60:12.77	W 51:51.23	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 250.7 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.0 fps (s.d.= 9.8)  
Ave Fil Vel -> 3.2 fps (s.d.= 9.3)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 5263 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 6520 ft	(2)
P: 46.6			

Vel Bias	CAU Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:52:00
Y: -463.0	L: 63.8 dB	End: 00:54:41
Z: 6435.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 956073 000E06A9h	Alt: 0 ft (GPS)
End: 983072 000F0020h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 27  
Mission: Presque Isle DAY 3

Time: 179:01:02:43  
Pass 17  
Req.# 14

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9876 ft s.d. =	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	210.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	60.0	52.0	60.0
End Sq:	90.0°	RMS Video (%FS)	26.3	14.7	17.9	18.0

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:57.51	W 68:13.24	Main Target: IE
Start:	N 46:47.13	W 68:22.02	Mocomp Point:
End:	N 46:38.47	W 68:29.28	Lat: N 46:44.12
From:	N 60:10.02	W 51:45.39	Long: W 68:28.98
To:	N 31:47.42	W 78:07.50	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 253.1 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .3 fpss (s.d.= 1.1)  
Ave Fil Vel -> 3.8 fpss (s.d.= 1.1)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 6533 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 7794 ft	(2)
P: 46.5			

Vel Bias	CAU Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 01:02:43
Y: 1867.0	L: 63.8 dB	End: 01:05:23
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1010451 000FB13h	Alt: 0 ft (GPS)
End: 1037274 000FB3DAh	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 25  
Mission: Presque Isle DAY 3

Time: 179:01:13:19  
Pass 18  
Req.# 13

#### AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9902 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°	
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	52.0	67.0	52.0	66.0	
End Sq:	90.0°	RMS Video (%FS)	22.2	12.8	18.7	13.7	

#### WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:30.71	W 68:44.60	Main Target: IE
Start:	N 46:41.11	W 68:35.93	Mocomp Point:
End:	N 46:49.77	W 68:28.66	Lat: N 46:44.12
From:	N 31:49.89	W 78:14.04	Long: W 68:28.98
To:	N 60:12.77	W 51:51.23	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

#### RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 248.8 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 4.7 fps (s.d.= 3.6)  
Ave Fil Vel -> 8.6 fps (s.d.= 3.4)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 7808 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 9083 ft	(2)
P: 46.5			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 01:13:19
Y: 1867.0	L: 63.8 dB	End: 01:16:01
Z: 17142.0	C: 63.8 dB	

#### Mocomp Counters

Start: 1066285 0010452Dh  
End: 1093454 0010AF4Eh

CPA (UCT): 00:00:00  
Alt: 0 ft (GPS)  
Lat: N 0:00: 0  
Lon: E 0:00: 0

28 Jun 1995  
Tape: E1440

Post-line Data Sheet  
Line 29  
Mission: Presque Isle DAY 3

Time: 179:01:26:37  
Pass 19  
Req.# 15

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9886 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°	
Des. trk:	120.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	52.0	59.0	51.0	60.0	
End Sq:	90.0°	RMS Video (%FS)	25.6	25.7	20.4	26.1	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:54.86	W 68:48.54	Main Target: IE
Start:	N 46:48.89	W 68:33.37	Mocomp Point:
End:	N 46:43.89	W 68:20.78	Lat: N 46:44.12
From:	N 52:47.33	W 92:35.12	Long: W 68:28.98
To:	N 36:51.34	W 50:24.96	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 248.4 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fpss (s.d.= .9)  
Ave Fil Vel -> 2.5 fpss (s.d.= .9)

NML XMIT PWR	ANAL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 9097 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 10356 ft	(2)
P: 46.5			

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)  
Start: 01:26:37  
End: 01:29:21

Mocomp Counters

Start: 1131299 0011:323h  
End: 1158804 0011:494h

CPA (UCT): 00:00:00  
Alt: 0 ft (GPS)  
Lat: N 0:00: 0  
Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 31  
Mission: Presque Isle DAY 3

Time: 179:01:36:25  
Pass 20  
Req.# 16

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9900 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°	
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	57.0	61.0	57.0	64.0	
End Sq:	90.0°	RMS Video (%FS)	22.3	18.2	19.9	15.8	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:33.32	W 68:09.55	Main Target: IE
Start:	N 46:39.35	W 68:24.60	Mocomp Point:
End:	N 46:44.34	W 68:37.19	Lat: N 46:44.12
From:	N 36:47.45	W 50:29.32	Long: W 68:28.98
To:	N 52:42.60	W 92:36.70	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 252.0 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -2.6 fps (s.d.= 3.4)  
Ave Fil Vel -> 1.1 fps (s.d.= 2.9)

NML XMIT PWR	ANL BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 203 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 1460 ft	(1)
P: 46.6			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 01:36:25
Y: 1867.0	L: 63.8 dB	End: 01:39:06
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1180490 0012034Ah	Alt: 0 ft (GPS)
End: 1207494 00126CC6h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 33  
Mission: Presque Isle DAY 3

Time: 179:01:49:45  
Pass 21  
Req. # 17

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	60.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	53.0	63.0	53.0	66.0
End Sq:	90.0°	RMS Video (%FS)	23.4	15.0	17.5	14.0

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:37.87	W 68:52.25	Main Target: IE
Start:	N 46:43.90	W 68:37.18	Mocomp Point:
End:	N 46:48.90	W 68:24.59	Lat: N 46:44.12
From:	N 36:51.35	W 86:33.02	Long: W 68:28.98
To:	N 52:47.34	W 44:22.84	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 247.2 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLNU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.3 fps (s.d.= 7.2)  
Ave Fil Vel -> 7.5 fps (s.d.= 6.8)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 1476 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 2683 ft	(1)
P: 46.5			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 01:49:45
Y: 1867.0	L: 63.8 dB	End: 01:52:25
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1252216 0013.B78h	Alt: 0 ft (GPS)
End: 1279011 0013:423h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 35  
Mission: Presque Isle DAY 3

Time: 179:02:01:48  
Pass 22  
Req.# 18

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9889 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°	
Des. trk:	240.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	51.0	61.0	49.0	66.0	
End Sq:	90.0°	RMS Video (%FS)	27.9	15.9	26.1	15.7	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:50.30	W 68:05.61	Main Target: IE
Start:	N 46:44.33	W 68:20.76	Mocomp Point:
End:	N 46:39.33	W 68:33.35	Lat: N 46:44.12
From:	N 52:42.59	W 44:21.25	Long: W 68:28.98
To:	N 36:47.44	W 86:28.63	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 255.1 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -2.6 fps (s.d.= 11.2)  
Ave Fil Vel -> .8 fps (s.d.= 10.7)

NML XMIT PWR	ANW BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 2697 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 3902 ft	(1)
P: 46.6			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:01:48
Y: 1867.0	L: 63.8 dB	End: 02:04:22
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1315361 0014:221h	Alt: 0 ft (GPS)
End: 1341200 0014:710h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 31  
Mission: Presque Isle DAY 3

Time: 179:02:16:28  
Pass 23  
Req.# 16

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	10000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	9903 ft s.d. =	2	Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°	
Look:	Right	St rng (ft):	16922	16922	16922	16922	
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°	
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°	
Start Sq:	90.0°	Atten (dB):	55.0	60.0	54.0	65.0	
End Sq:	90.0°	RMS Video (%FS)	23.3	15.8	21.9	12.4	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:33.32	W 68:09.55	Main Target: IE
Start:	N 46:39.35	W 68:24.60	Mocomp Point:
End:	N 46:44.34	W 68:37.19	Lat: N 46:44.12
From:	N 36:47.45	W 50:29.32	Long: W 68:28.98
To:	N 52:42.60	W 92:36.70	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 247.4 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 5.3 fps (s.d.= 9.6)  
Ave Fil Vel -> 8.9 fps (s.d.= 9.0)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 3918 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 5121 ft	(1)
P: 46.7			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:16:28
Y: 1867.0	L: 63.8 dB	End: 02:19:09
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1366879 001410B5Fh	Alt: 0 ft (GPS)
End: 1393891 00154E3h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 41  
Mission: Presque Isle DAY 3

Time: 179:02:38:13  
Pass 24  
Req.# 22

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	6000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	5940 ft s.d. =	3	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°	
Look:	Right	St rng (ft):	18672	18672	18672	18672	
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°	
Des. trk:	180.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°	
Start Sq:	90.0°	Atten (dB):	48.0	55.0	48.0	57.0	
End Sq:	90.0°	RMS Video (%FS)	25.4	14.6	18.5	19.0	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 47:01.12	W 68:24.31	Main Target: IE
Start:	N 46:49.12	W 68:24.31	Mocomp Point:
End:	N 46:39.12	W 68:24.31	Lat: N 46:44.12
From:	N 63:21.83	W 68:24.31	Long: W 68:28.98
To:	N 30:02.59	W 68:24.31	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UVB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 249.8 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.2 fpm (s.d.= 6.4)  
Ave Fil Vel -> .6 fpm (s.d.= 6.0)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 5136 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 6402 ft	(1)
P: 46.5			

Vel Bias	CA1 Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:38:13
Y: 1867.0	L: 63.8 dB	End: 02:40:53
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1449751 0016.F17h	Alt: 0 ft (GPS)
End: 1476593 001687F1h	Lat: N 0:00: 0
	Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet  
Line 43  
Mission: Presque Isle DAY 3

Time: 179:02:48:11  
Pass 25  
Req.# 23

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5950 ft s.d. =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slr. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	73.0	54.0	73.0
End Sq:	90.0°	RMS Video (%FS)	17.7	6.1	12.2	5.6

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:27.13	W 68:33.65	Main Target: IE
Start:	N 46:39.12	W 68:33.65	Mocomp Point:
End:	N 46:49.12	W 68:33.65	Lat: N 46:44.12
From:	N 30:02.59	W 68:33.65	Long: W 68:28.98
To:	N 63:21.83	W 68:33.65	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UV/B

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 251.7 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -0.0 fps (s.d.= .9)  
Ave Fil Vel -> 1.5 fps (s.d.= .8)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 6417 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 7650 ft	(1)
P: 46.4			

Vel Bias	CAU Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:48:11
Y: 1867.0	L: 63.8 dB	End: 02:50:47
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1501772 00161A4Ch	Alt: 0 ft (GPS)
End: 1504441 00161'4B9h	Lat: N 0:00: 0
	Lon: E 0:00: 0

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Tape: 1441

Post-line Data Sheet  
Line 43  
Mission: Presque Isle DAY 3

Time: 179:02:48:26  
Pass 26  
Req.# 23

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5949 ft s.d. = 2	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	70.0	54.0	70.0
End Sq:	90.0°	RMS Video (%FS)	15.3	6.0	10.8	6.3

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:27.13	W 68:33.65	Main Target: IE
Start:	N 46:39.12	W 68:33.65	Mocomp Point:
End:	N 46:49.12	W 68:33.65	Lat: N 46:44.12
From:	N 30:02.59	W 68:33.65	Long: W 68:28.98
To:	N 63:21.83	W 68:33.65	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 251.8 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.0 fps (s.d.= .9)  
Ave Fil Vel -> 4.7 fps (s.d.= .9)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 6417 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 7650 ft	(1)
P: 46.4			

Vel Bias	CAU Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:48:26
Y: 1867.0	L: 63.8 dB	End: 02:50:47
Z: 17142.0	C: 63.8 dB	

Mocomp Counters

Start: 1504441 0016J4B9h	CPA (UCT): 00:00:00
End: 1527940 0017J084h	Alt: 0 ft (GPS)
	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 45  
Mission: Presque Isle DAY 3

Time: 179:03:02:38  
Pass 27  
Req.# 24

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5957 ft s.d. =	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slr. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	270.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°
Start Sq:	90.0°	Atten (dB):	58.0	62.0	58.0	62.0
End Sq:	90.0°	RMS Video (%FS)	9.8	9.4	7.7	10.6

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:40.86	W 68:04.28	Main Target: IE
Start:	N 46:40.90	W 68:21.71	Mocomp Point:
End:	N 46:40.90	W 68:36.25	Lat: N 46:44.12
From:	N 44:12.15	W 44:58.97	Long: W 68:28.98
To:	N 44:12.15	W 91:58.99	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1  
Resolution: N/A  
Swath width: Single  
RMS Time Constant: 2^7  
Position Reference: ON  
Atten. Tracking: OFF  
Range Gate Delta: 0.0 ft  
Azimuth Presum Rate: Presum6  
TX Chirp Filename: CTLU2B

Filter damping is Hi -> 10 sec  
PRF Factor is FAST (262.5 kts)  
Ave Gndspd: Real -> 250.2 kts  
Mocomp Off for Chnl 1, 2, 3, 4  
GPS Vel/Pos Reference  
Adj Gnd Scene: 5000.0 ft  
Range Tracking is OFF  
Clutterlock Reference: OFF  
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.8 fpm (s.d.= .9)  
Ave Fil Vel -> -.4 fpm (s.d.= .7)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 7665 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 8917 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 46.2			

Vel Bias	CAU Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 03:02:38
Y: 1867.0	L: 63.8 dB	End: 03:05:17
Z: 17142.0	C: 63.8 dB	

Mocomp Counters

CPA (UCT): 00:00:00  
Alt: 0 ft (GPS)  
Lat: N 0:00: 0  
Lon: E 0:00: 0

Start: 1564287 0017!E7Fh  
End: 1590796 0018.60Ch

28 Jun 1995  
Tape: 1441

Post-line Data Sheet  
Line 47  
Mission: Presque Isle DAY 3

Time: 179:03:13:11  
Pass 28  
Req.# 25

#### AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	6000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	5947 ft s.d. =	2	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°	
Look:	Right	St rng (ft):	18672	18672	18672	18672	
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°	
Des. trk:	90.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°	
Start Sq:	90.0°	Atten (dB):	48.0	61.0	47.0	61.0	
End Sq:	90.0°	RMS Video (%FS)	27.0	17.2	20.1	18.1	

#### WAYPOINTS

	Latitude	Longitude	
Line up:	N 46:47.28	W 68:53.71	Main Target: IE
Start:	N 46:47.33	W 68:36.25	Mocomp Point:
End:	N 46:47.33	W 68:21.71	Lat: N 46:44.12
From:	N 44:18.04	W 92:01.47	Long: W 68:28.98
To:	N 44:18.04	W 44:56.49	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

#### RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 251.6 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.9 fpss (s.d.= 8.6)  
Ave Fil Vel -> 4.9 fpss (s.d.= 8.3)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 8931 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 10190 ft	(1)
P: 46.1			

Vel Bias	CAJ, Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 03:13:11
Y: 1867.0	L: 63.8 dB	End: 03:15:51
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1616643 0018AB03h	Alt: 0 ft (GPS)
End: 1643480 00193D8h	Lat: N 0:00: 0
	Lon: E 0:00: 0

28 Jun 1995  
Tape: E1442

Post-line Data Sheet  
Line 49  
Mission: Presque Isle DAY 3

Time: 179:03:24:16  
Pass 29  
Req.# 26

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4		
Desired:	6000 ft	p-VV	p-VH	p-HV	p-HH		
Baro:	5961 ft s.d. =	3	Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20091 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°	
Look:	Right	St rng (ft):	18556	18556	18556	18556	
Depr Ang:	25.0°	Near Rng Dep:	18.7°	18.7°	18.7°	18.7°	
Des. trk:	276.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°	
Start Sq:	90.0°	Atten (dB):	60.0	63.0	60.0	63.0	
End Sq:	90.0°	RMS Video (%FS)	7.1	8.8	5.4	9.6	

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:39.29	W 68:04.91	Main Target: CALCS
Start:	N 46:40.59	W 68:22.23	Mocomp Point:
End:	N 46:41.63	W 68:36.69	Lat: N 46:44.29
From:	N 42:35.05	W 45:46.39	Long: W 68:28.98
To:	N 45:52.31	W 92:35.10	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 249.2 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.2 fps (s.d.= 4.3)  
Ave Fil Vel -> 3.5 fps (s.d.= 4.1)

NML XMIT PWR	ANU BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 200 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 1446 ft	(2)
P: 46.0			

Vel Bias	CAJ Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 03:24:16
Y: 1867.0	L: 63.8 dB	End: 03:26:58
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1670511 0019'D6Fh	Alt: 0 ft (GPS)
End: 1697661 0019177Dh	Lat: N 0:00: 0
	Lon: E 0:00: 0