

2006 Fynmeet Sea Clutter Measurement Trial

Dataset Overview for 01-Aug-2006

Dr PL Herselman

2006 Fynmeet Sea Clutter Measurement Trial : Dataset Overview for 01-Aug-2006

by Dr PL Herselman

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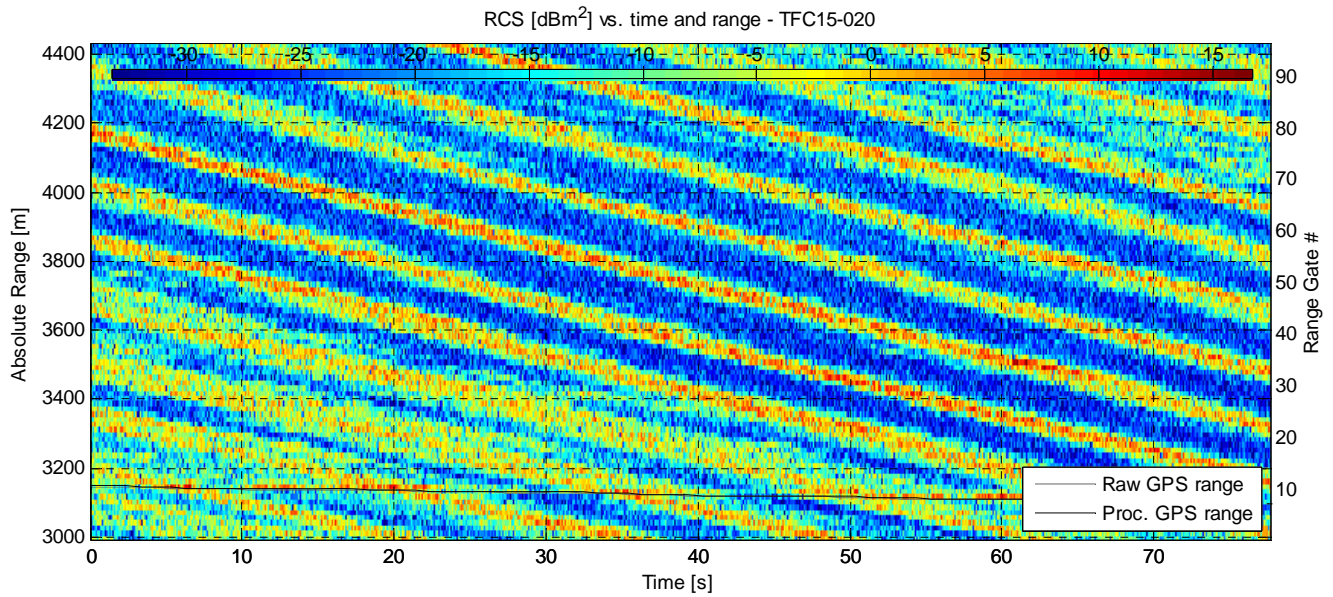
This document provides an overview for the datasets (or subset thereof) recorded on 01-Aug-2006 as part of the Fynmeet Sea Clutter Measurement Trial conducted at the Overberg Test Range at Arniston, South Africa. The trial was conducted over the period from 18 July to 4 August 2006. These datasets have been stored in structured Mathworks Matlab (*.mat) files and will be made available to research institutes or universities upon request. For more information contact Dr PL Herselman at pherselman@csir.co.za.

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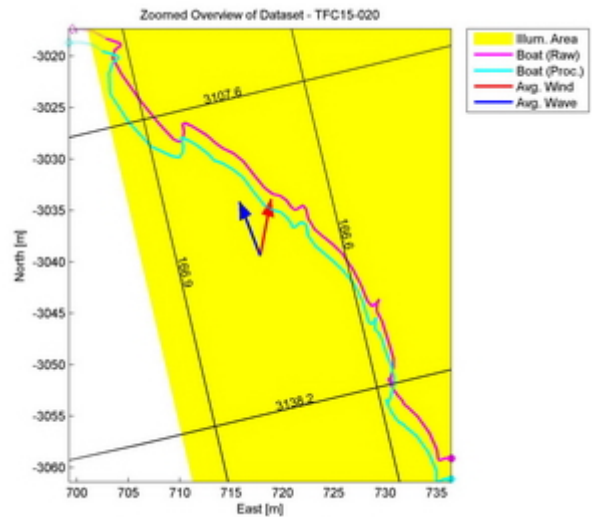
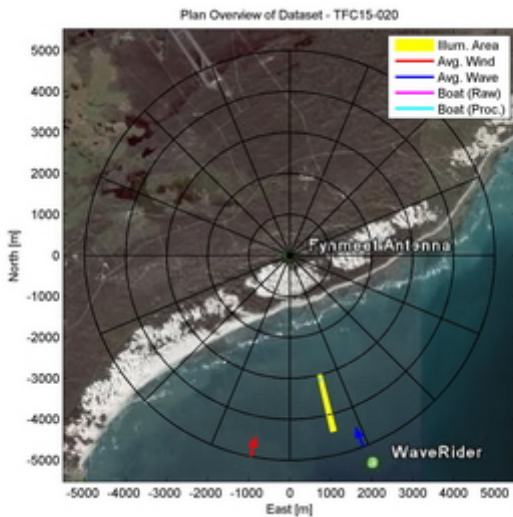
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Dataset TFC15-020

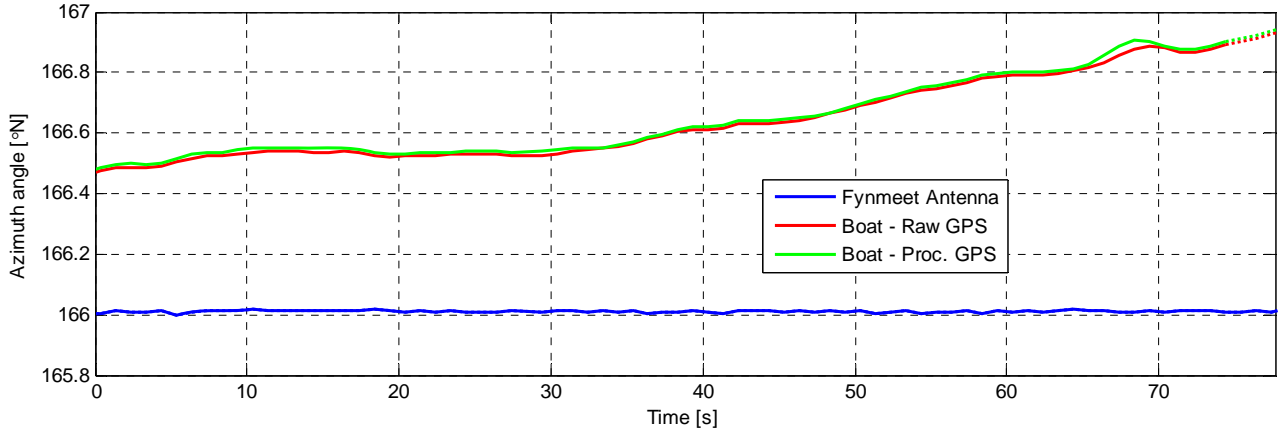


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	15:24:53.640	Tracking Range	3000.63 m
Duration	388159 PRI's (77.6316 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.036	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

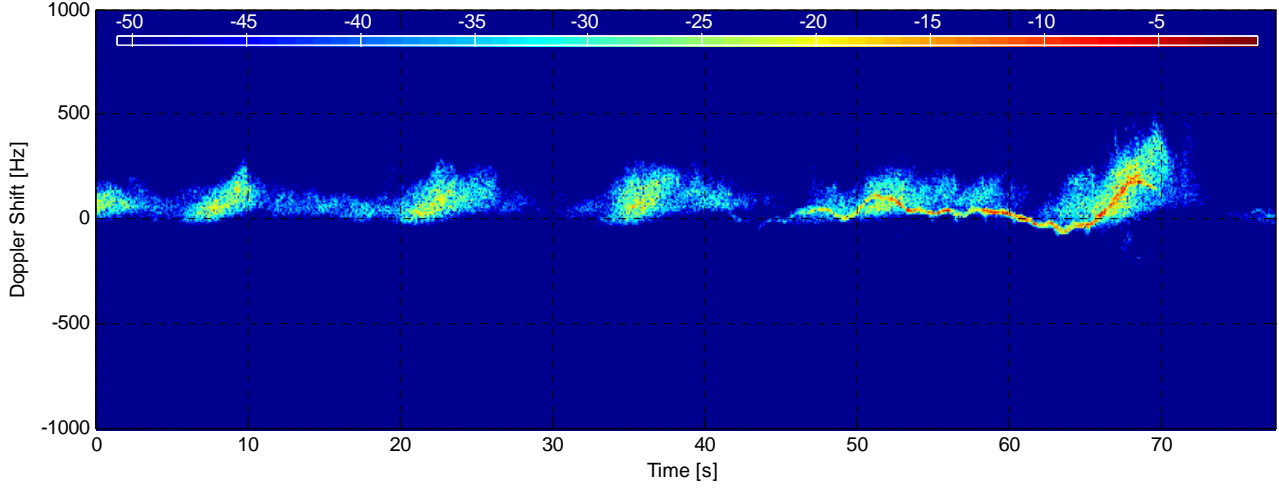
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	16.7 kts, 190.8 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	0.97584-4.1155i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	166 deg. N	Even Gates Offset	-1.509+2.5417i
8hr Avg. Wind	14.9 kts, 167.7 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.1 m, 159 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



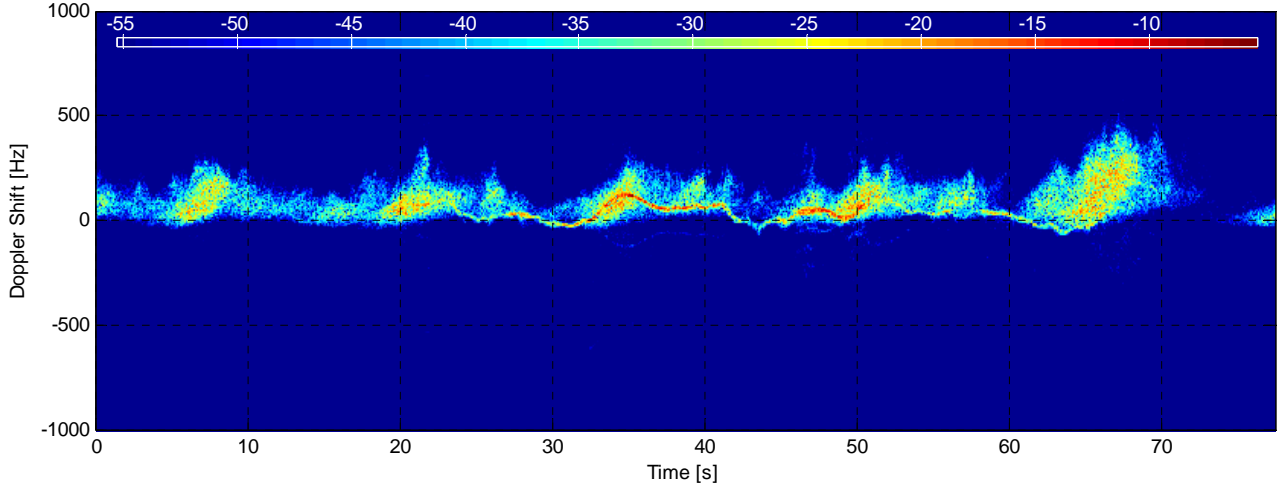
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-020



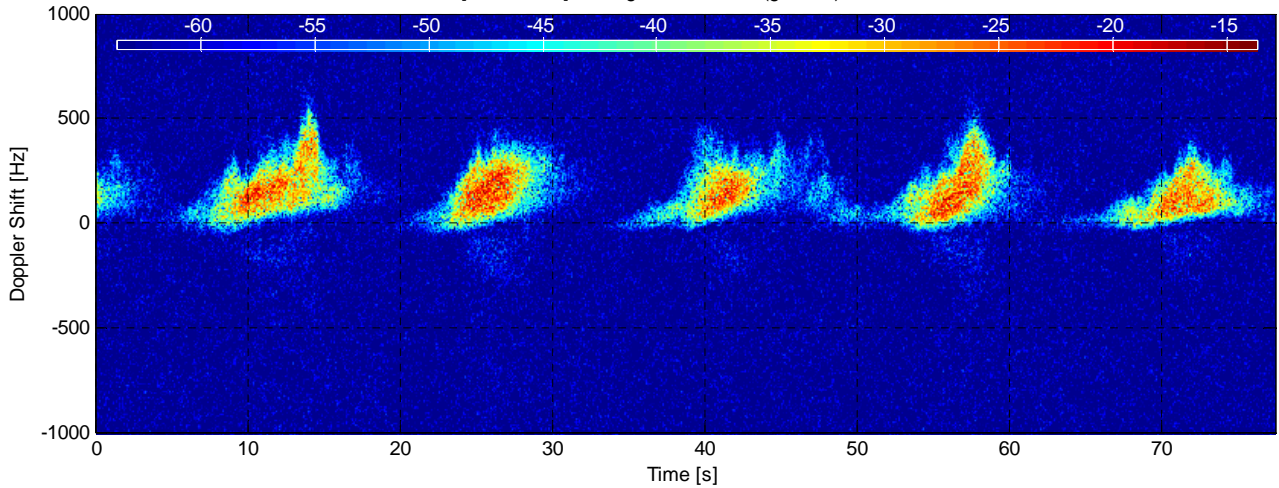
RCS [dBm².Hz⁻¹] at range 3120.625 m (gate 9) - TFC15-020



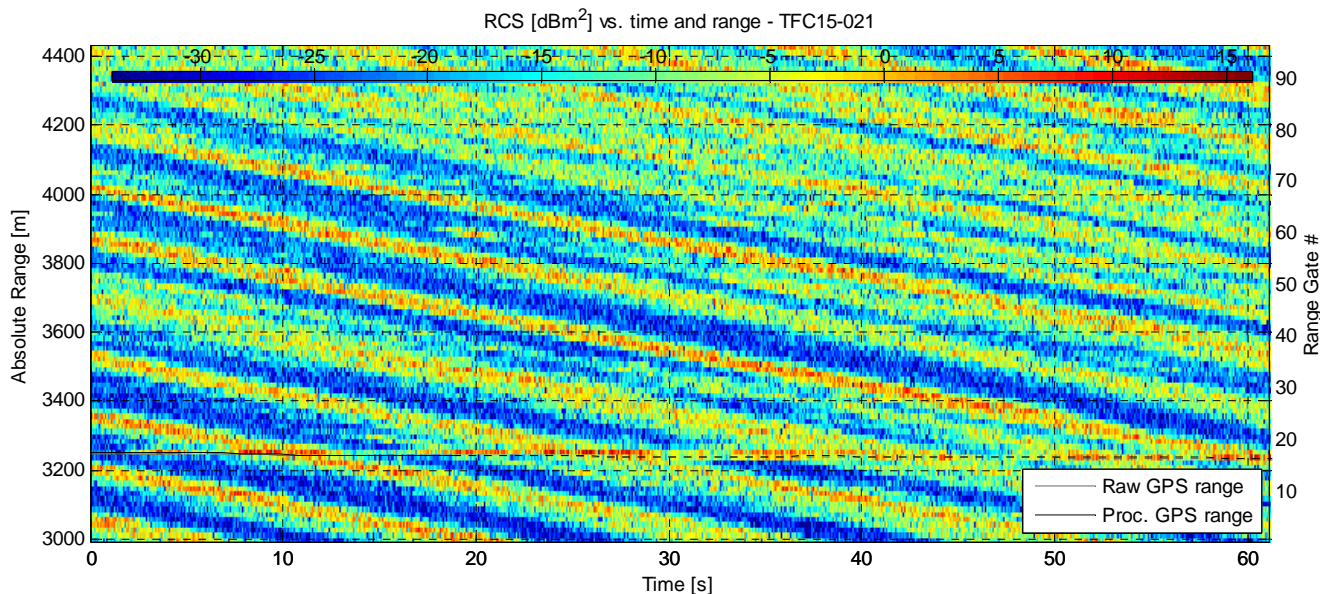
RCS [dBm².Hz⁻¹] at range 3135.625 m (gate 10) - TFC15-020



RCS [dBm².Hz⁻¹] at range 3885.625 m (gate 60) - TFC15-020

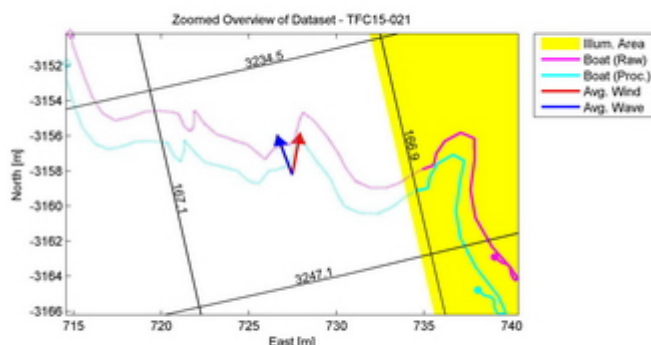
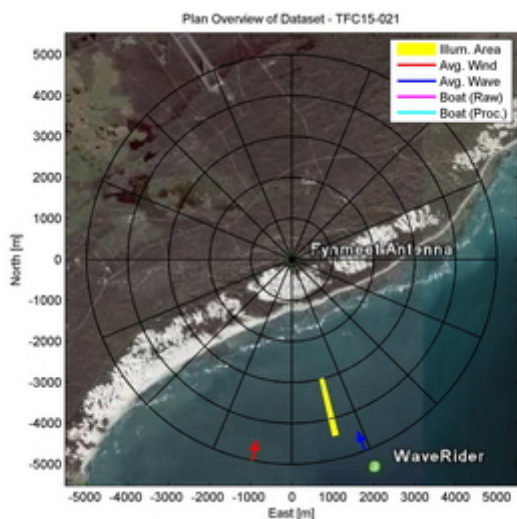


Dataset TFC15-021

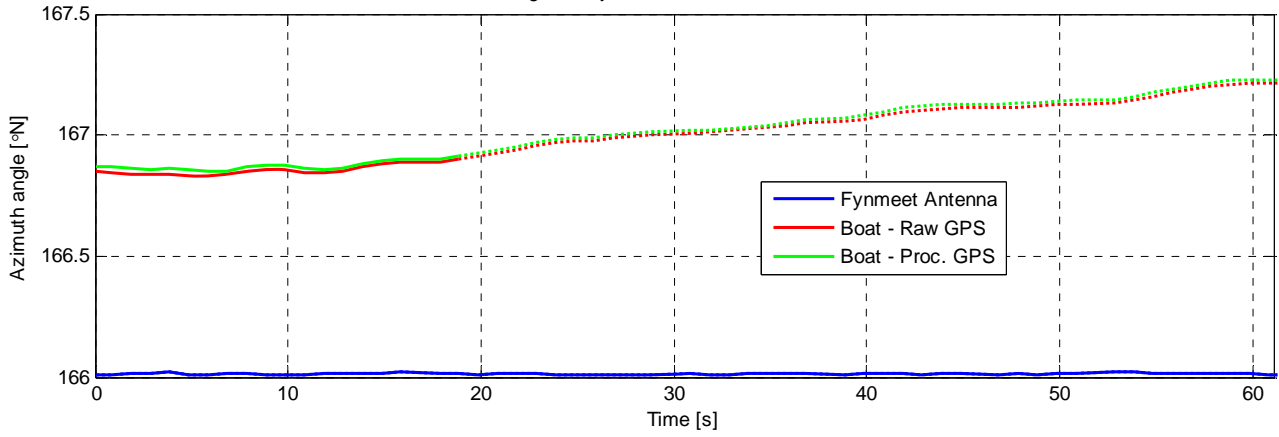


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	15:29:24.156	Tracking Range	3000.63 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.037	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

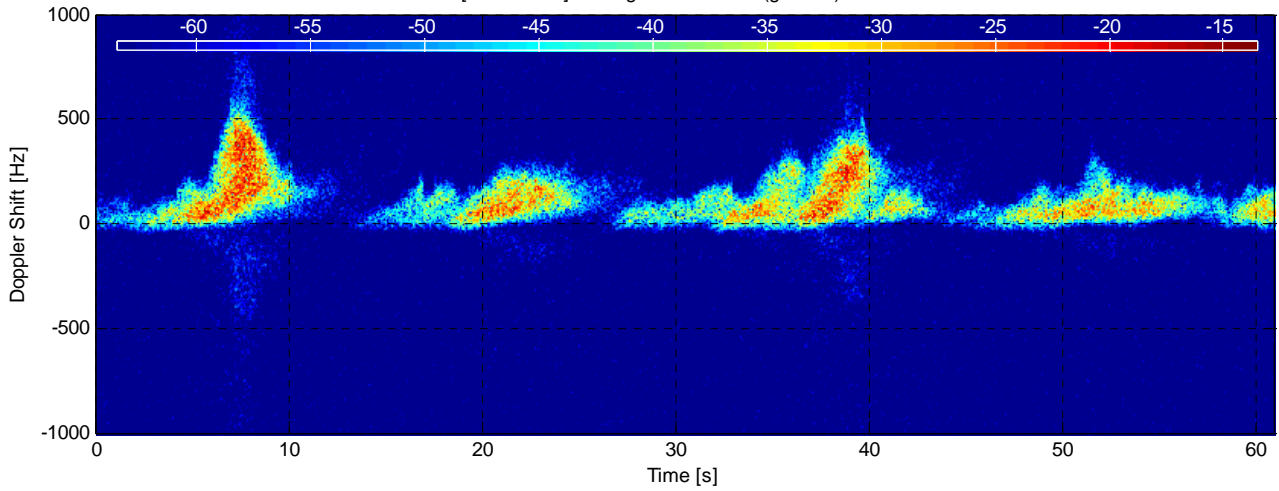
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.1 kts, 191 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	0.56573-3.9756i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	166 deg. N	Even Gates Offset	-1.6039+2.2418i
8hr Avg. Wind	14.8 kts, 168 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.06 m, 159 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



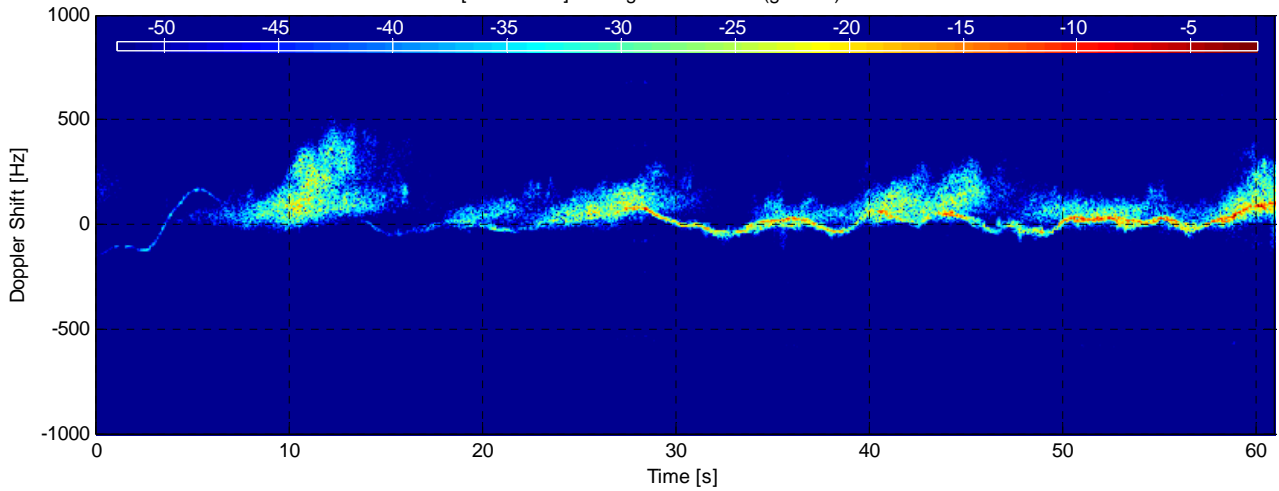
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-021



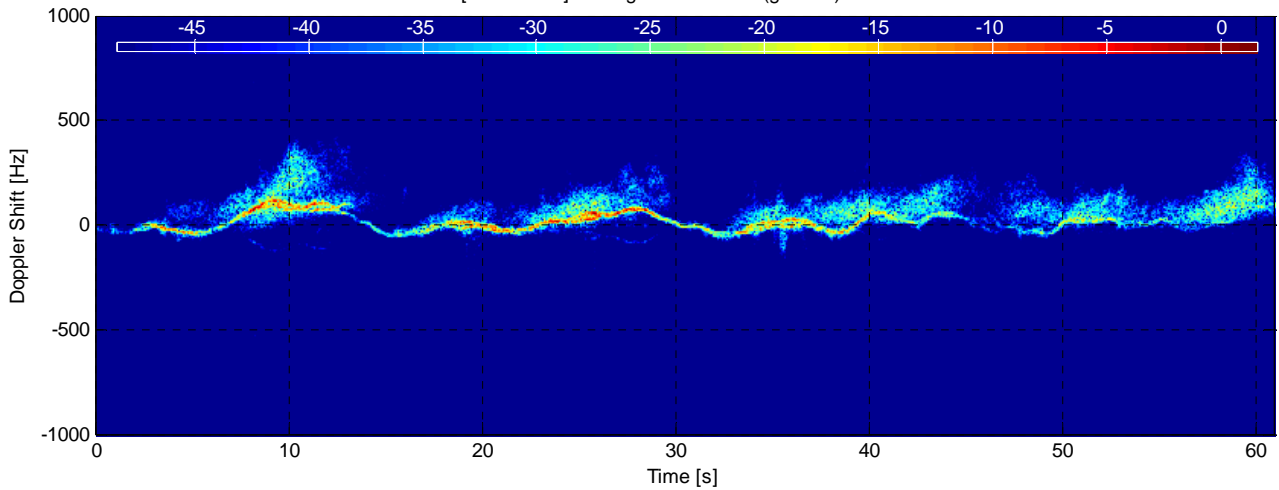
RCS [dBm².Hz⁻¹] at range 3135.625 m (gate 10) - TFC15-021



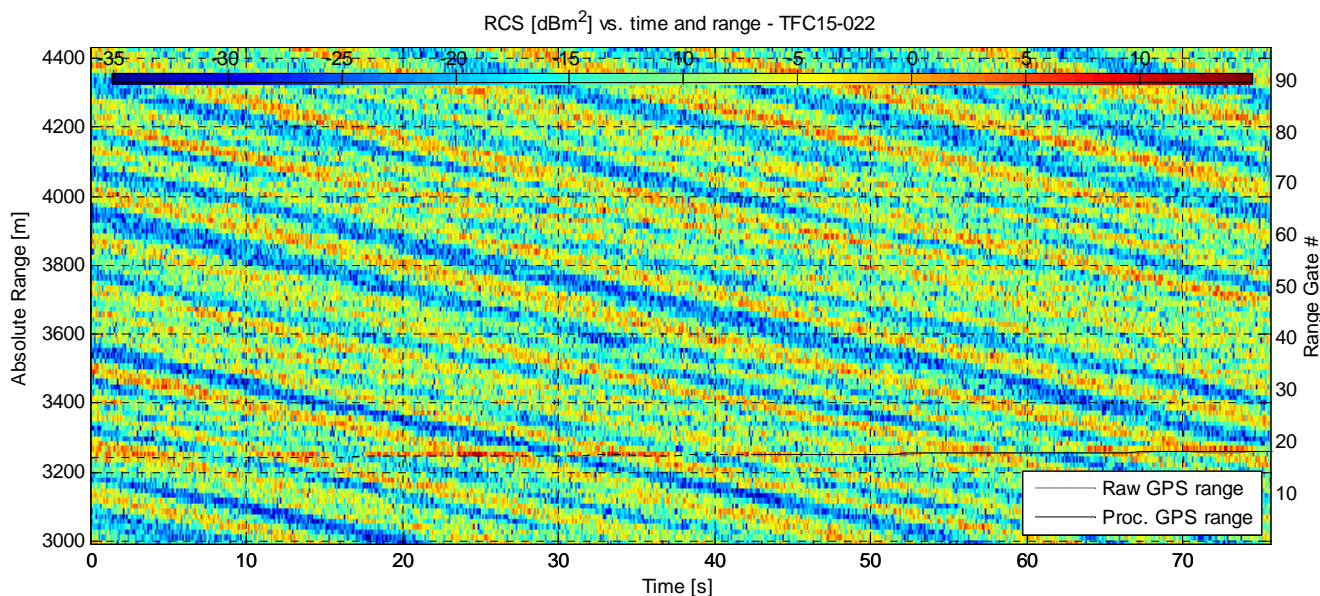
RCS [dBm².Hz⁻¹] at range 3240.625 m (gate 17) - TFC15-021



RCS [dBm².Hz⁻¹] at range 3255.625 m (gate 18) - TFC15-021

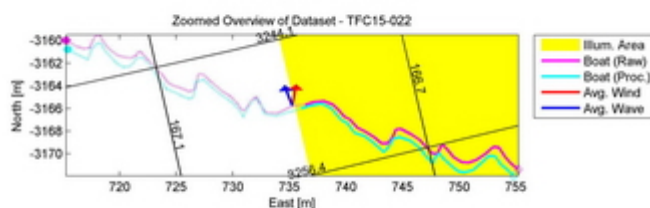
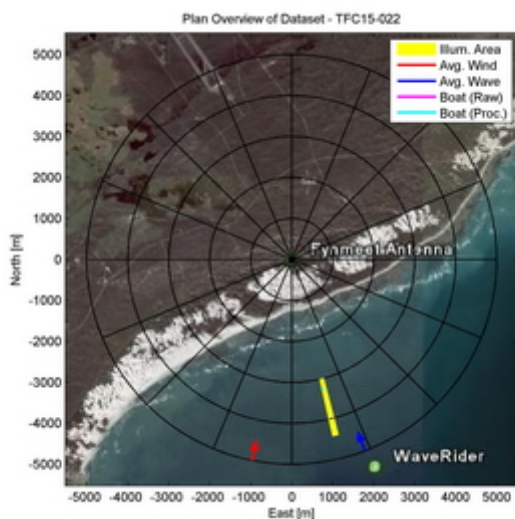


Dataset TFC15-022

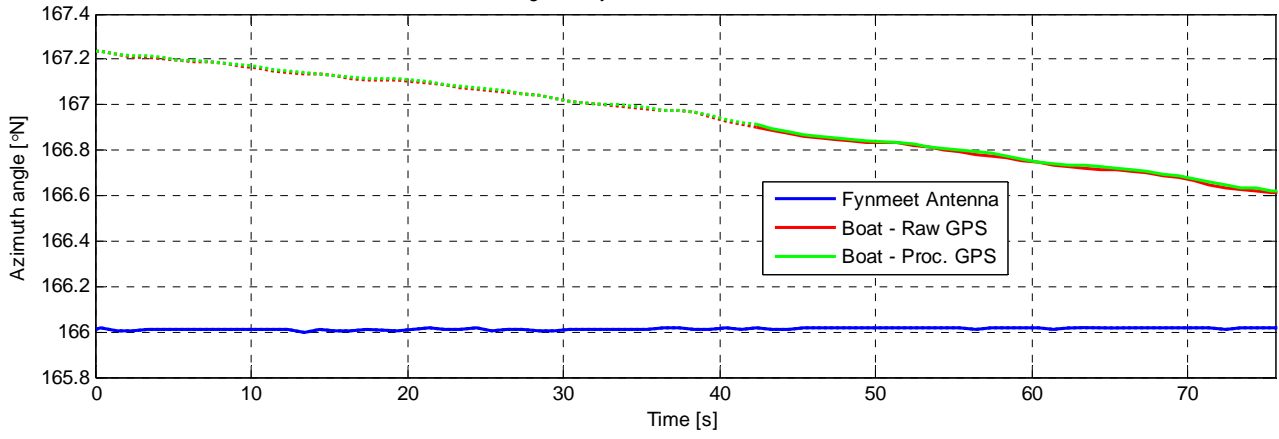


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	15:31:01.617	Tracking Range	3000.63 m
Duration	377926 PRI's (75.585 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.038	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

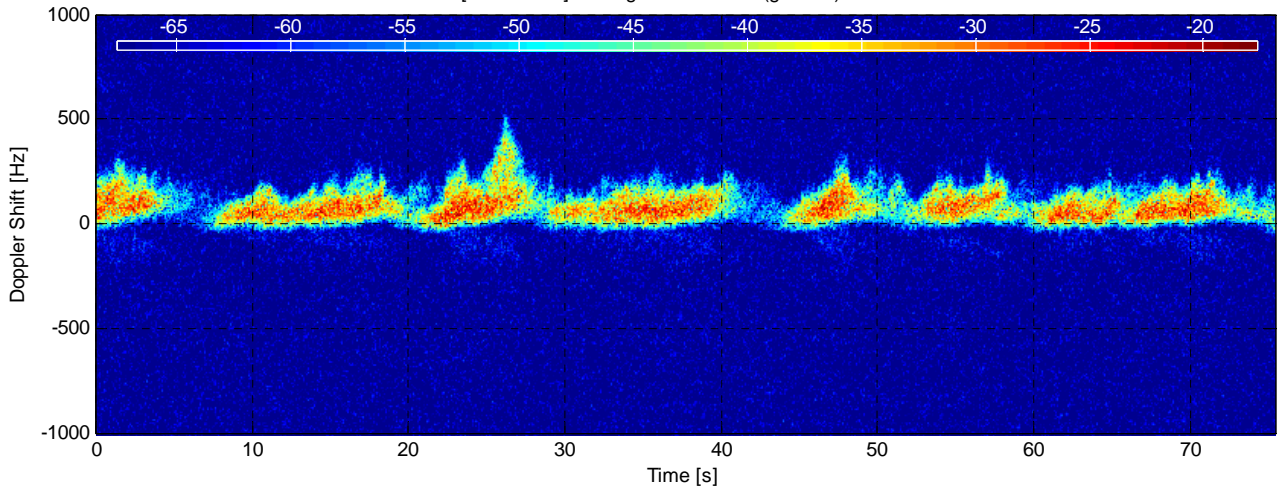
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.2 kts, 191.1 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	0.52939-3.8956i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	166 deg. N	Even Gates Offset	-1.5018+2.1034i
8hr Avg. Wind	14.8 kts, 168.2 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 159 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



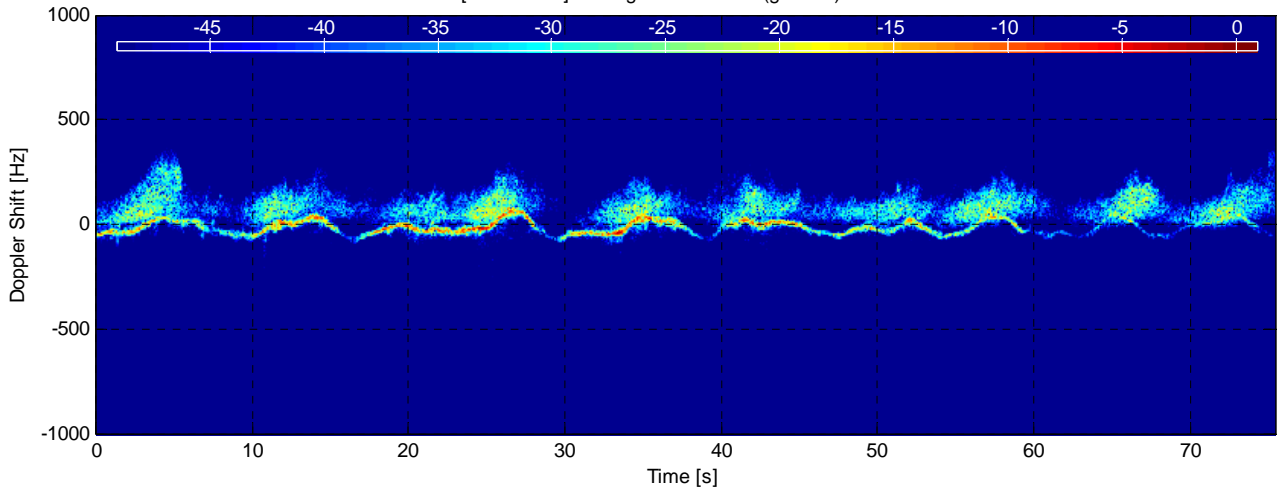
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-022



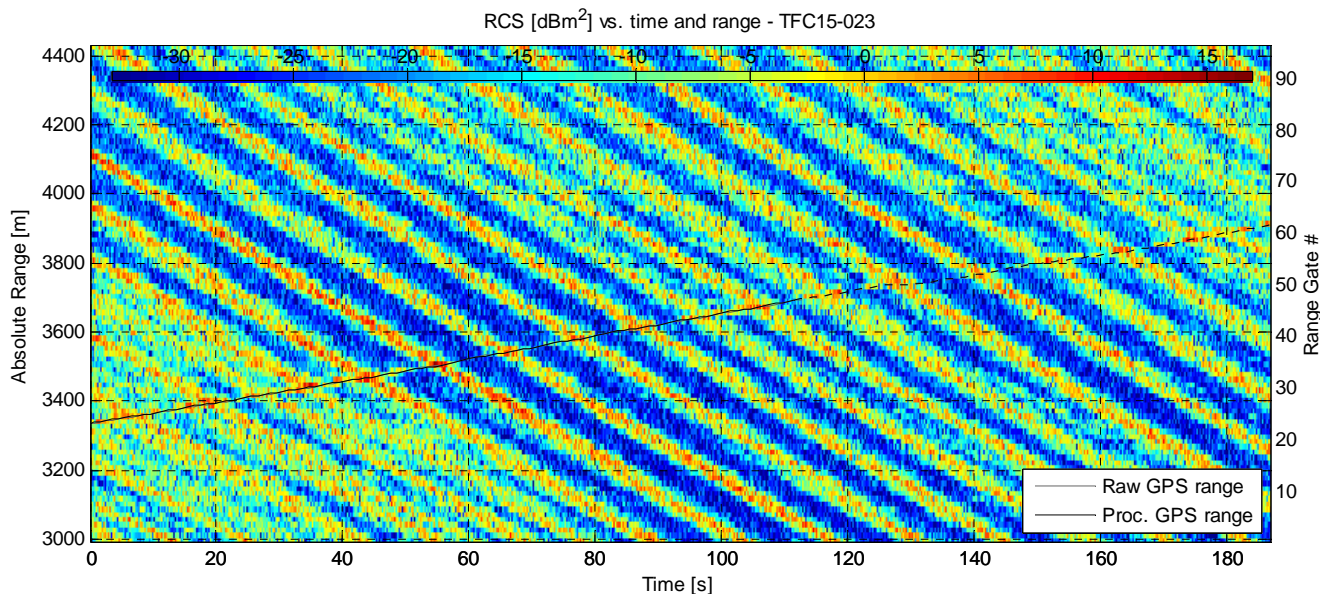
RCS [dBm².Hz⁻¹] at range 3135.625 m (gate 10) - TFC15-022



RCS [dBm².Hz⁻¹] at range 3255.625 m (gate 18) - TFC15-022

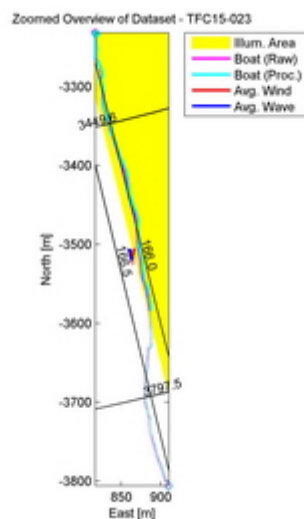
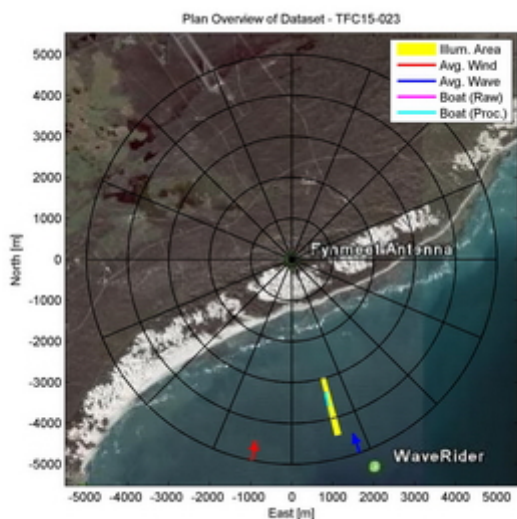


Dataset TFC15-023

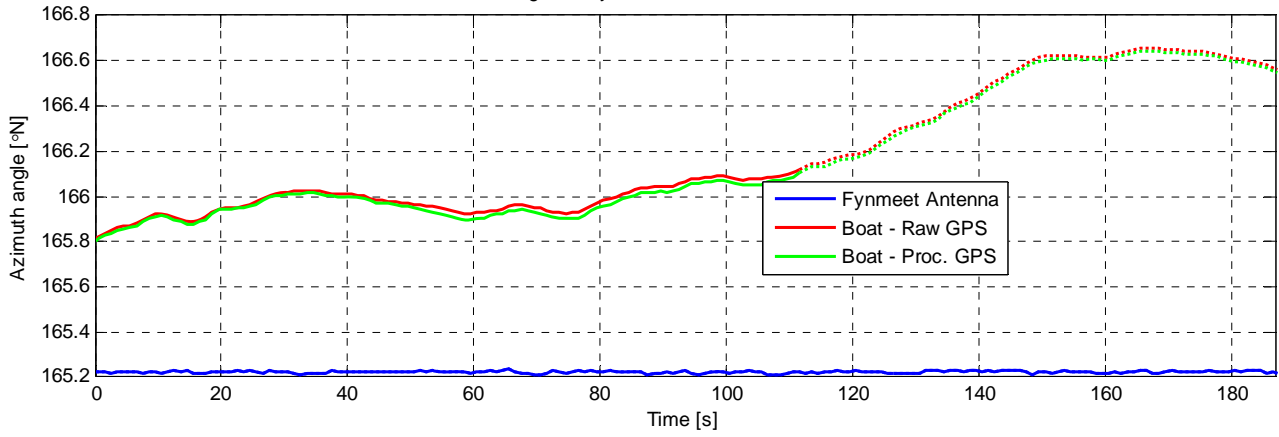


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	15:49:55.460	Tracking Range	3000.31 m
Duration	467319 PRI's (186.9272 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.041	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

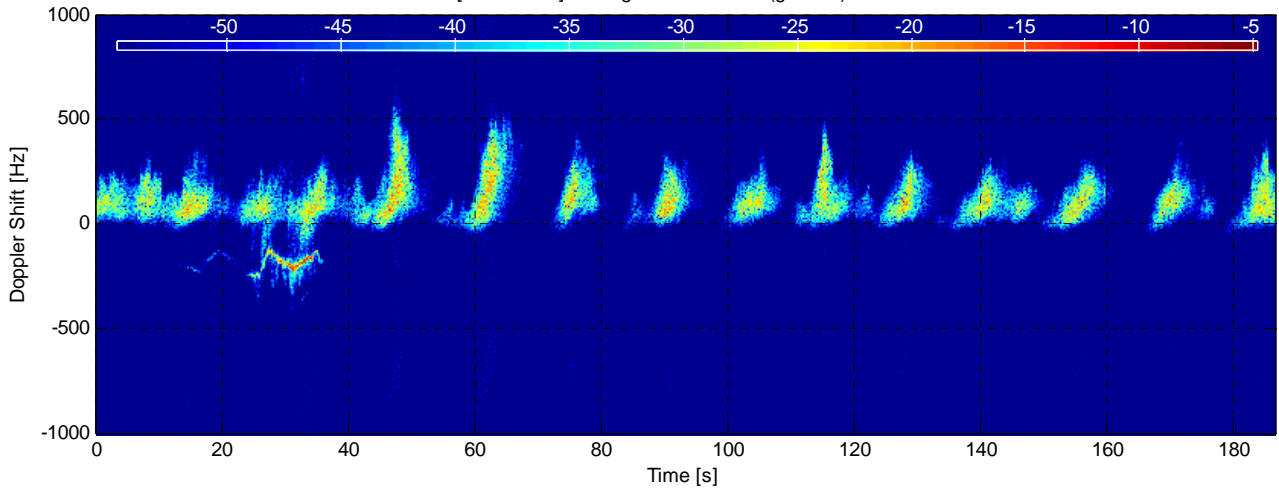
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.7 kts, 191.3 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	4.0914-2.1853i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.927-1.6348i
8hr Avg. Wind	14.6 kts, 169.4 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.9 m, 160.4 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



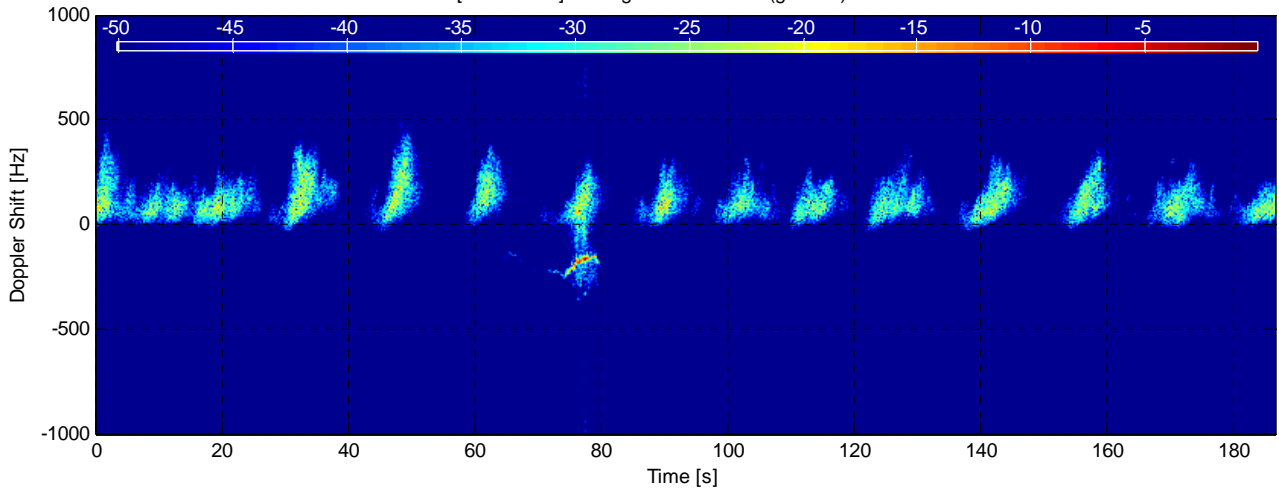
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-023



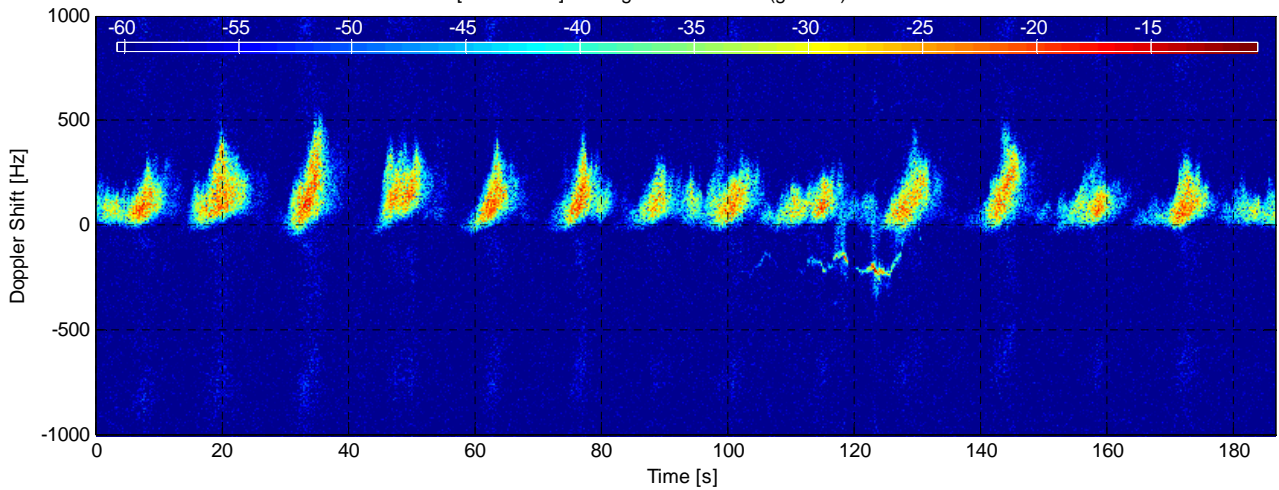
RCS [dBm².Hz⁻¹] at range 3435.3125 m (gate 30) - TFC15-023



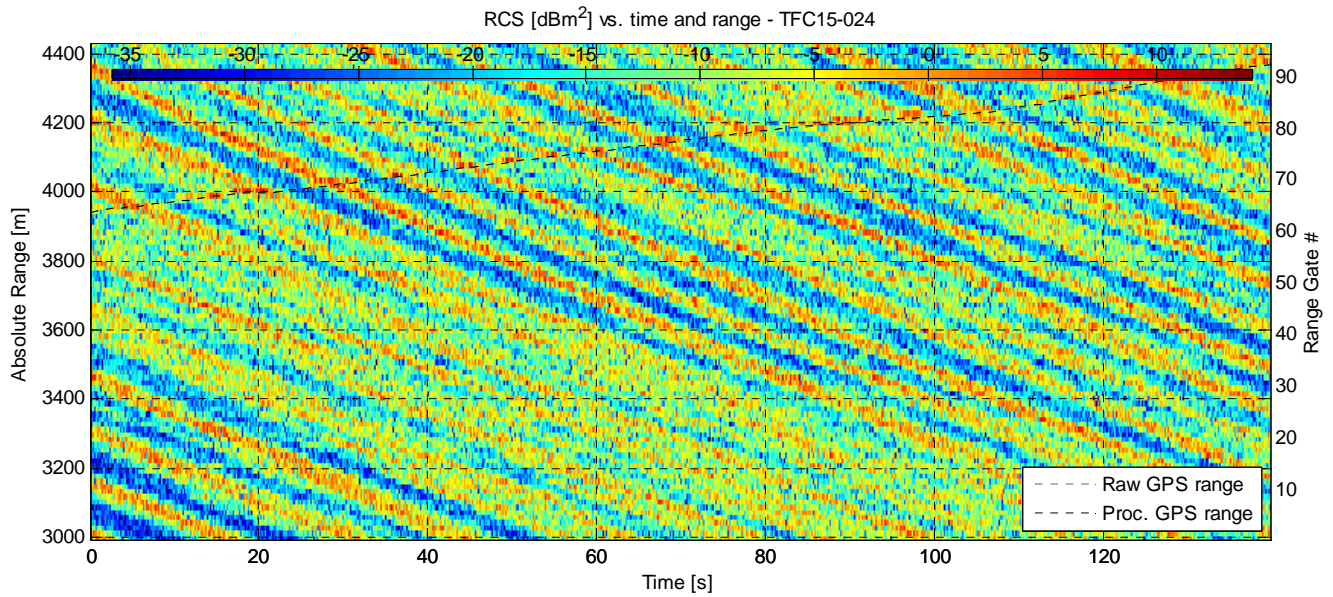
RCS [dBm².Hz⁻¹] at range 3585.3125 m (gate 40) - TFC15-023



RCS [dBm².Hz⁻¹] at range 3735.3125 m (gate 50) - TFC15-023

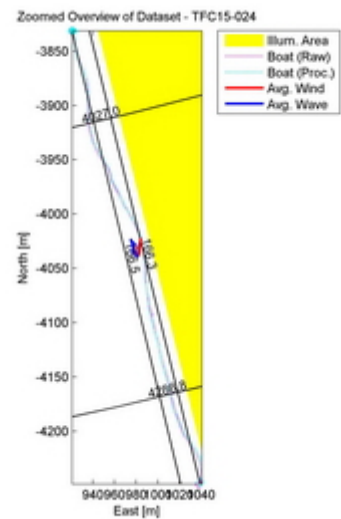
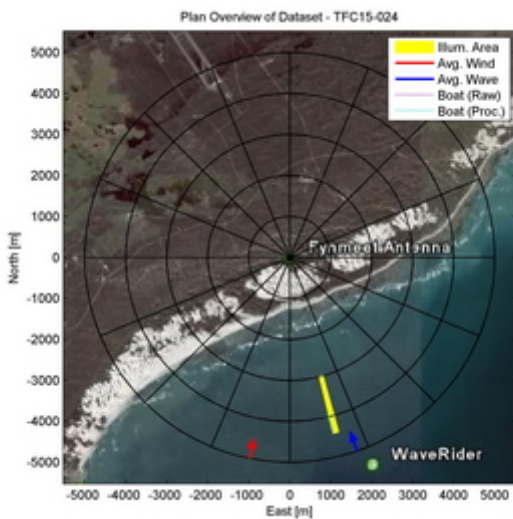


Dataset TFC15-024

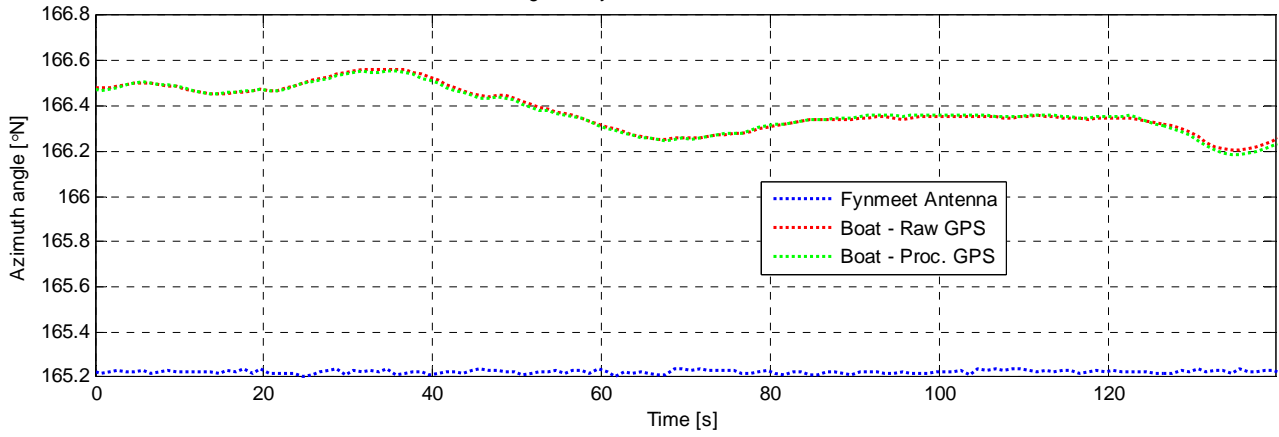


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	15:53:11.375	Tracking Range	3000.31 m
Duration	349520 PRI's (139.8076 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.042	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

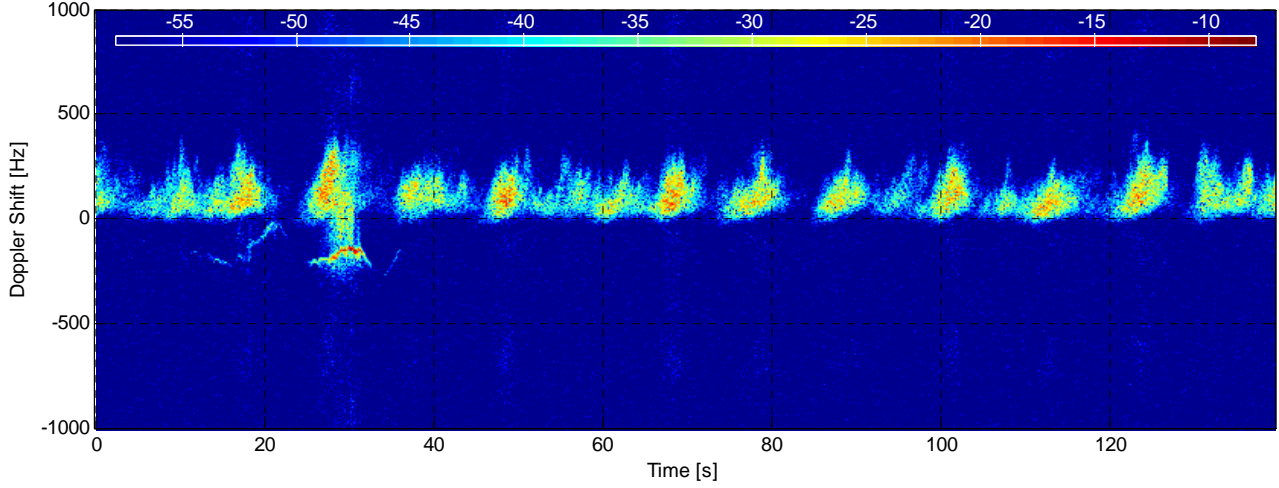
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.7 kts, 191.3 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	4.3778-2.1611i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.8017-1.2855i
8hr Avg. Wind	14.6 kts, 169.7 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.88 m, 160.7 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



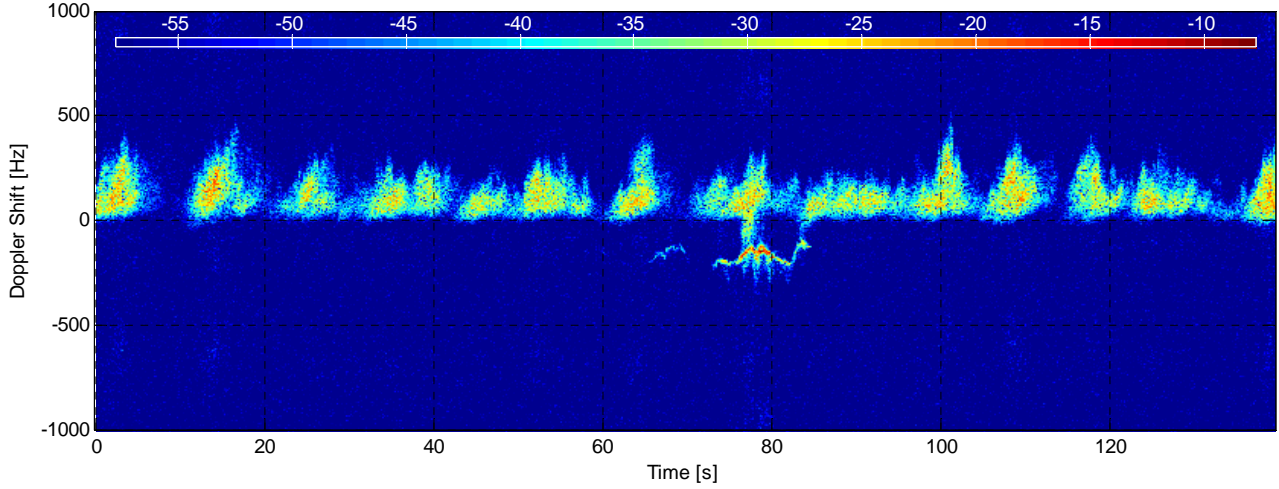
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-024



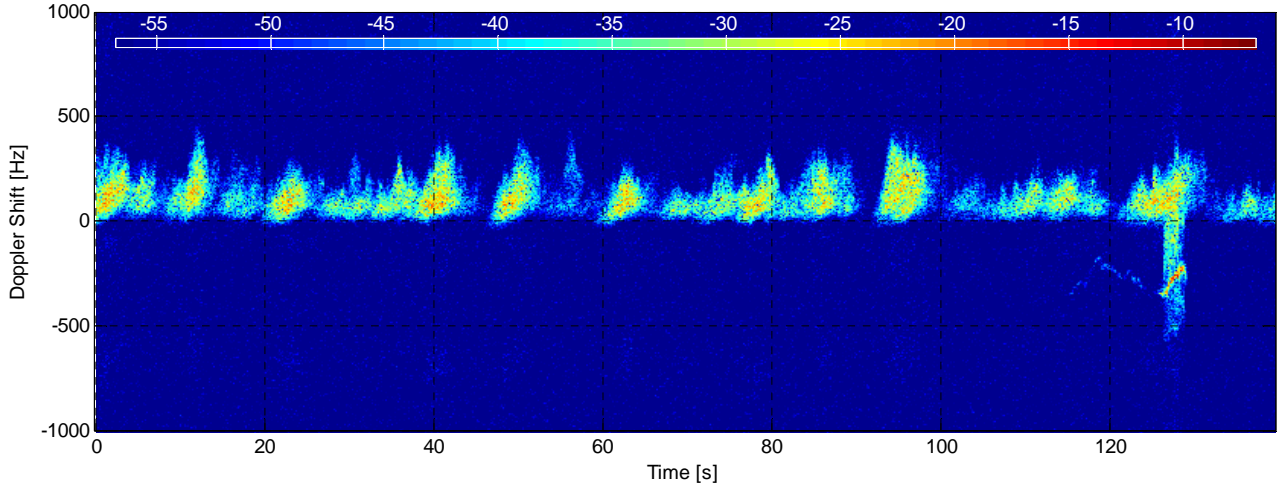
RCS [dBm².Hz⁻¹] at range 4035.3125 m (gate 70) - TFC15-024



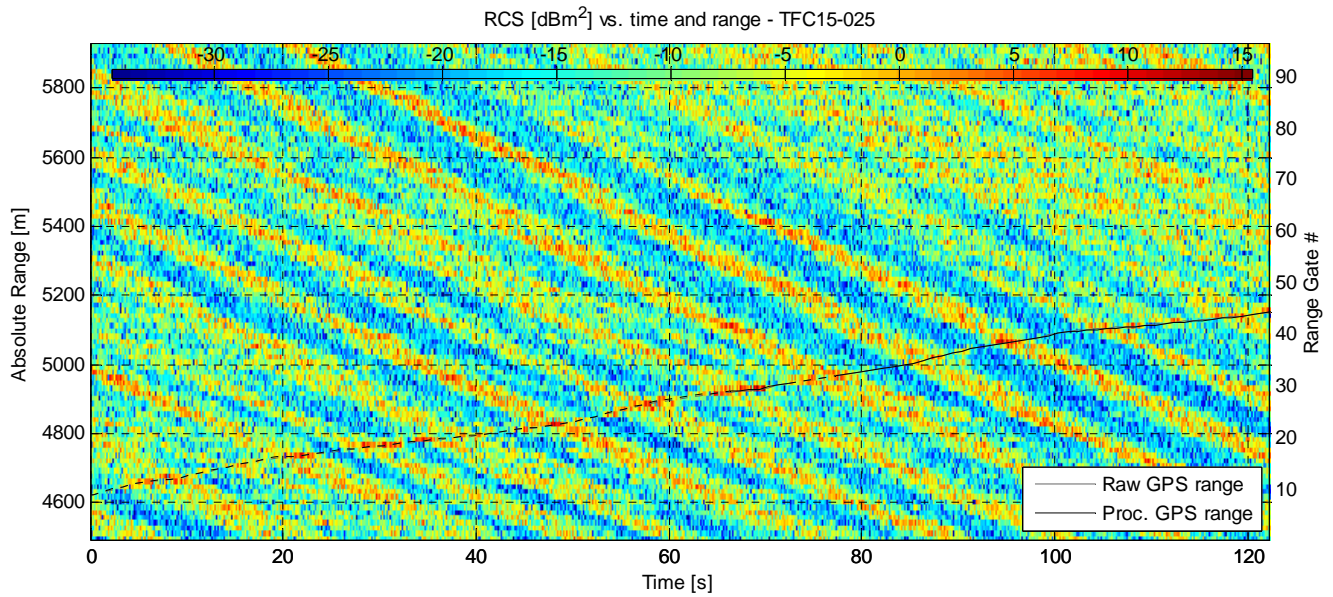
RCS [dBm².Hz⁻¹] at range 4185.3125 m (gate 80) - TFC15-024



RCS [dBm².Hz⁻¹] at range 4335.3125 m (gate 90) - TFC15-024

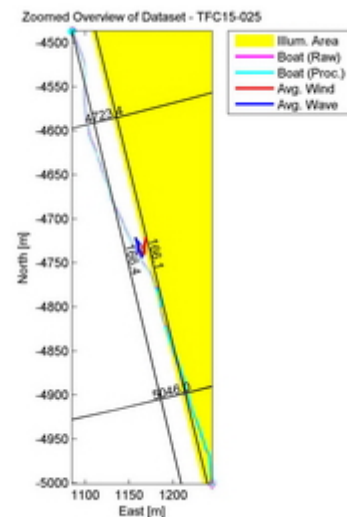
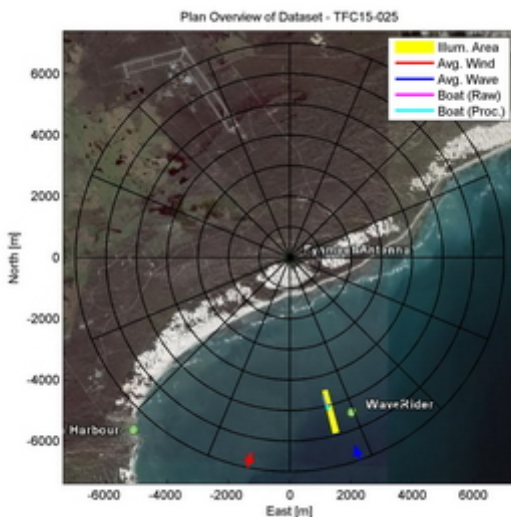


Dataset TFC15-025

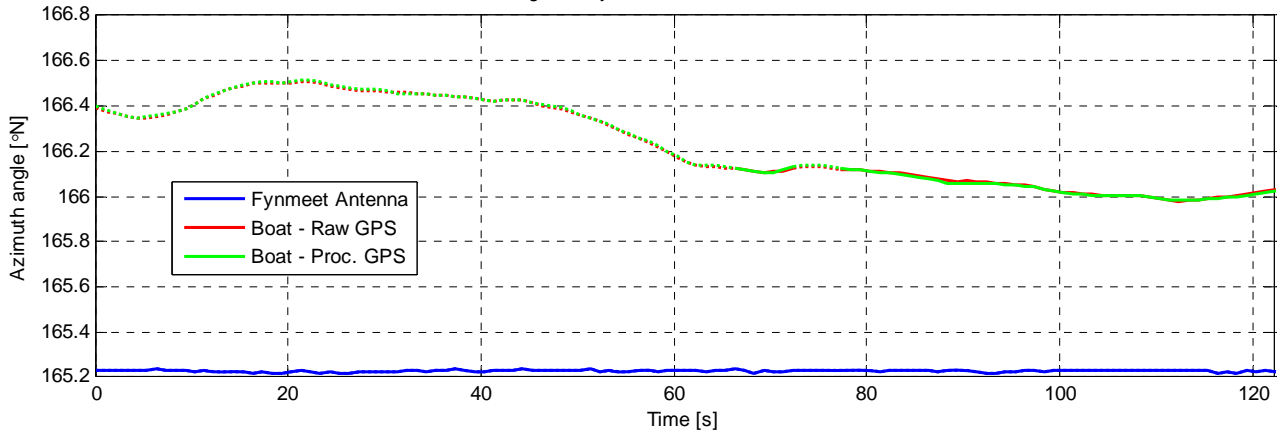


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	15:56:43.656	Tracking Range	4500 m
Duration	305830 PRI's (122.3316 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.043	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

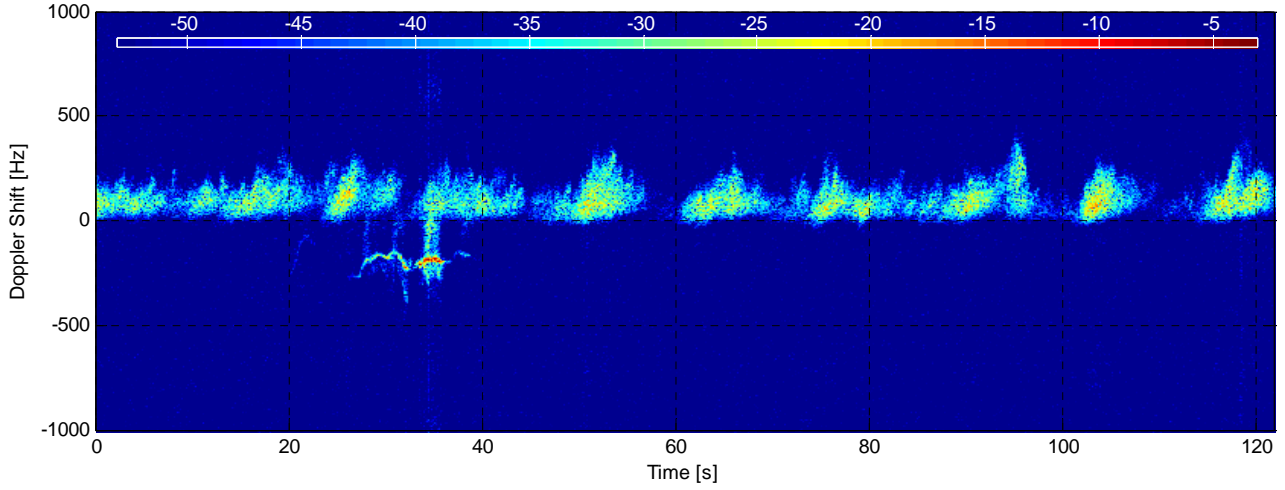
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.6 kts, 191.3 deg. N	Grazing Angle	0.628 - 0.838 deg.	Odd Gates Offset	4.05-2.5038i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.7059-1.538i
8hr Avg. Wind	14.6 kts, 169.9 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.87 m, 160.9 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



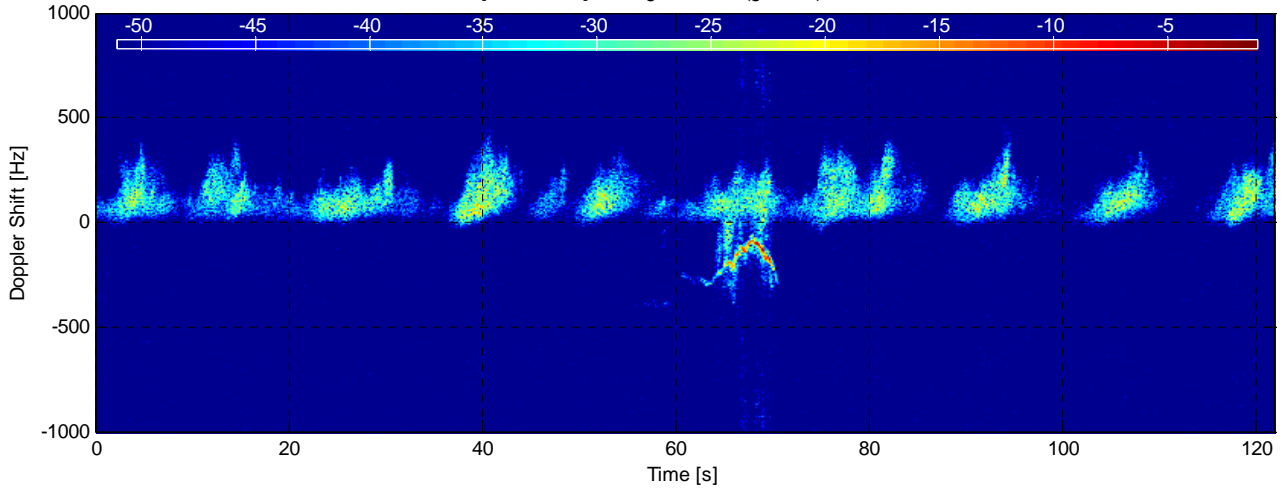
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-025



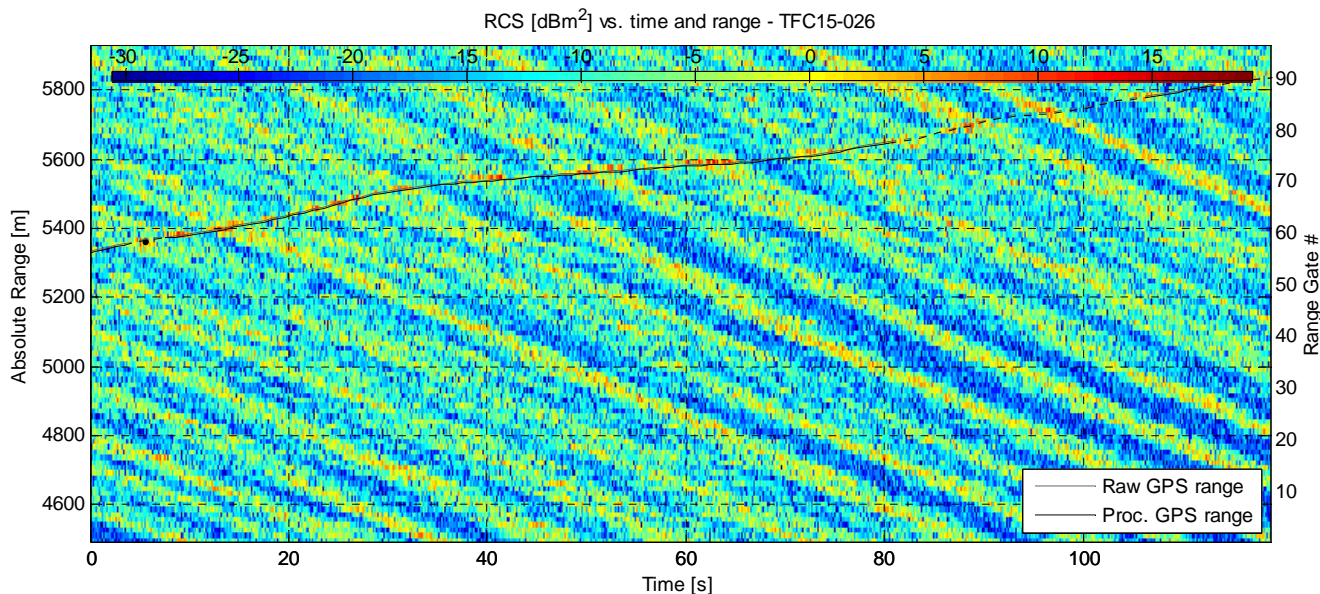
RCS [dBm².Hz⁻¹] at range 4785 m (gate 20) - TFC15-025



RCS [dBm².Hz⁻¹] at range 4935 m (gate 30) - TFC15-025

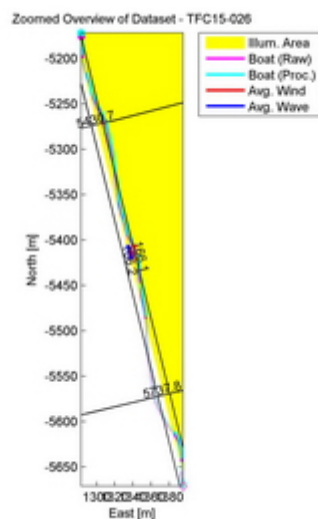
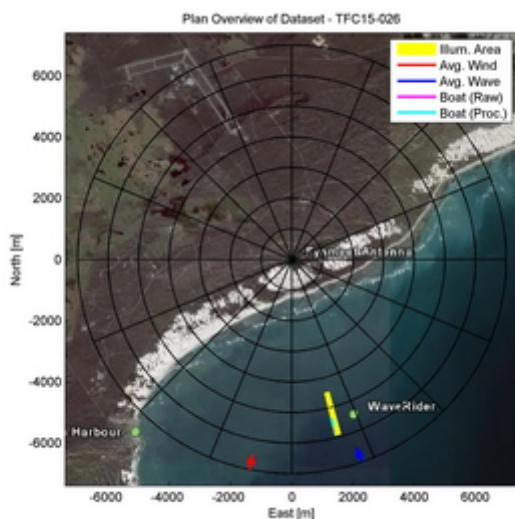


Dataset TFC15-026

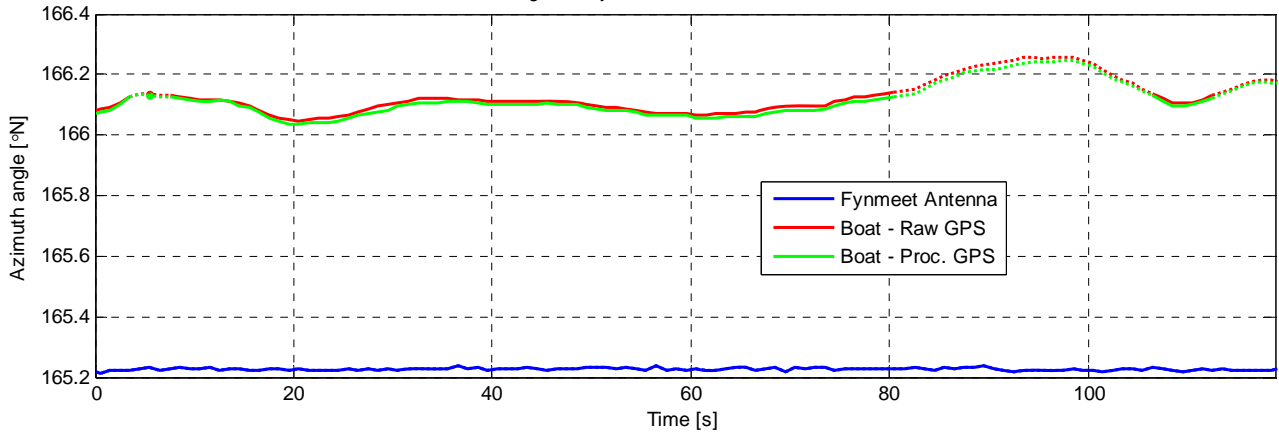


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	15:59:20.484	Tracking Range	4500 m
Duration	297159 PRI's (118.8632 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.044	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

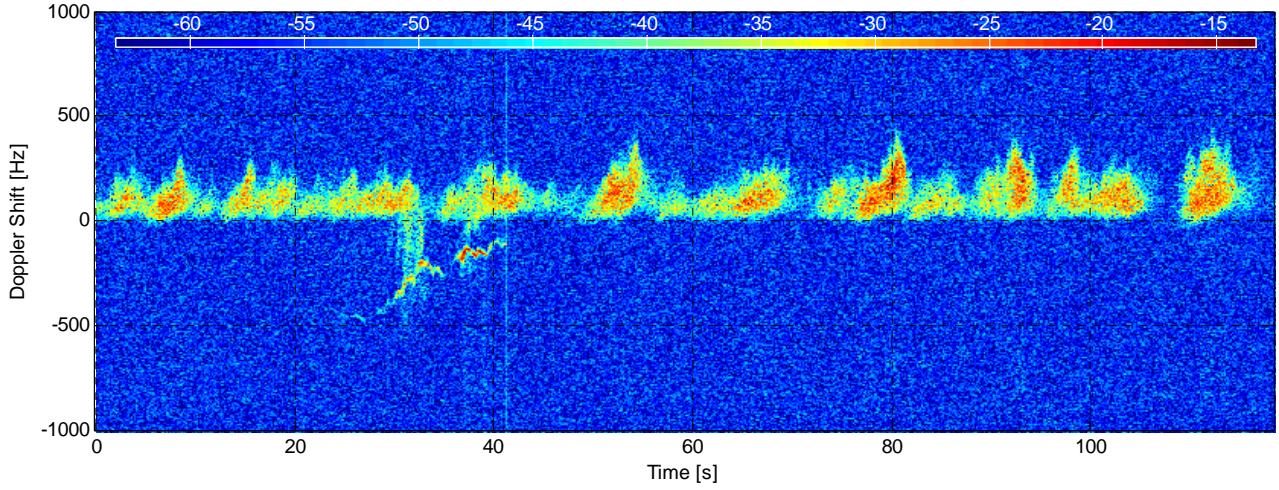
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.5 kts, 191.3 deg. N	Grazing Angle	0.628 - 0.838 deg.	Odd Gates Offset	4.0072-2.3953i
Wind Gust	26 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.6626-1.5323i
8hr Avg. Wind	14.6 kts, 170.1 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.86 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



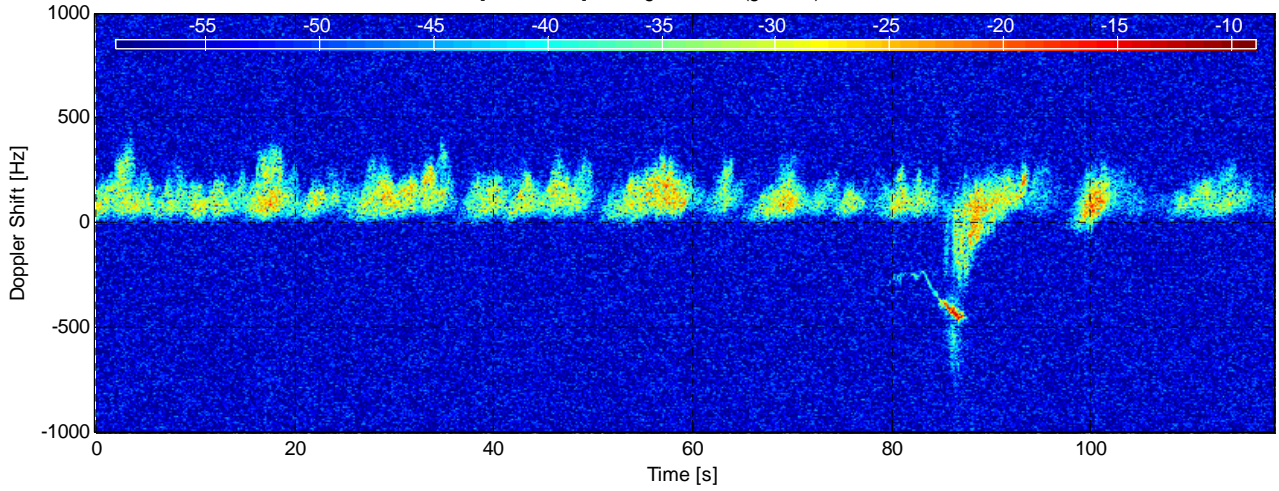
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-026



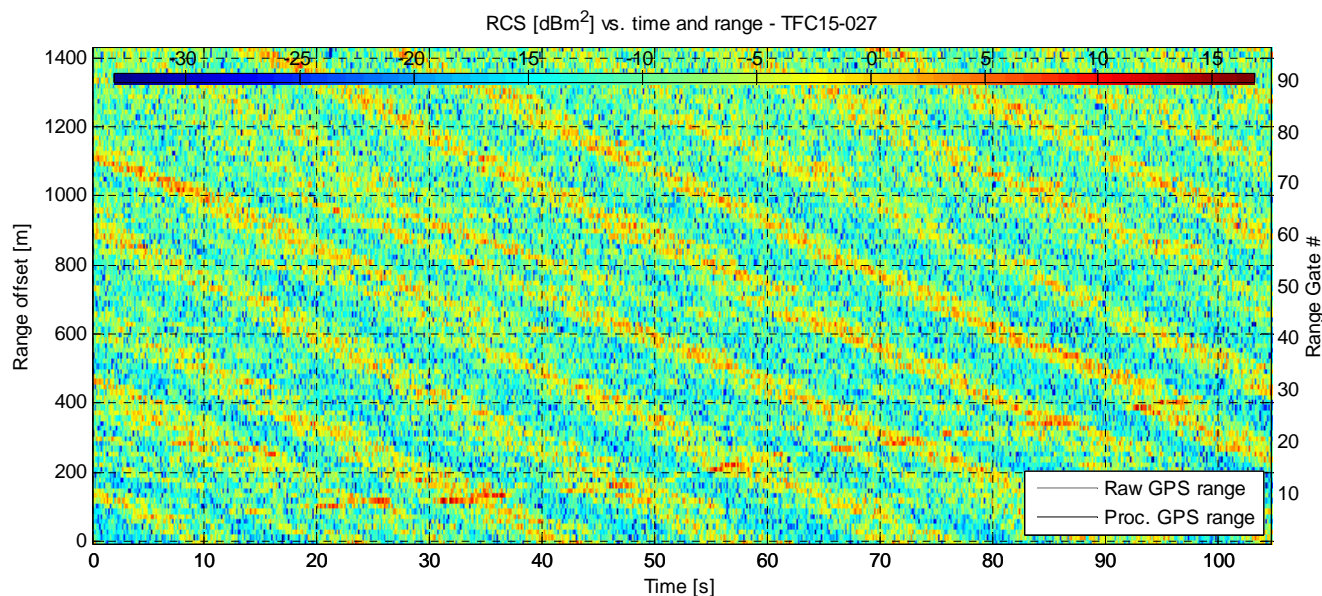
RCS [dBm².Hz⁻¹] at range 5535 m (gate 70) - TFC15-026



RCS [dBm².Hz⁻¹] at range 5685 m (gate 80) - TFC15-026

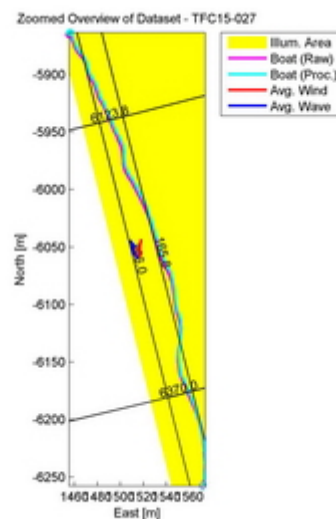
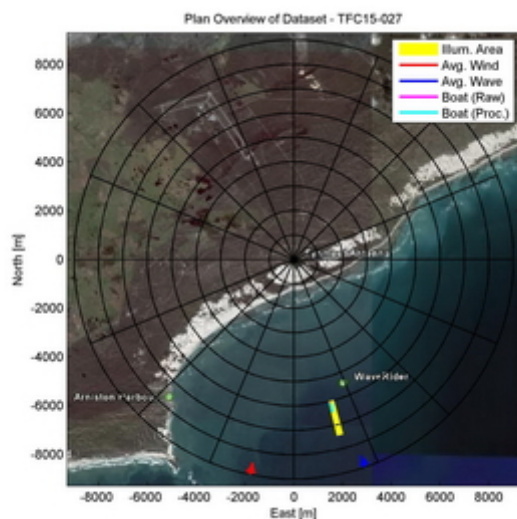


Dataset TFC15-027

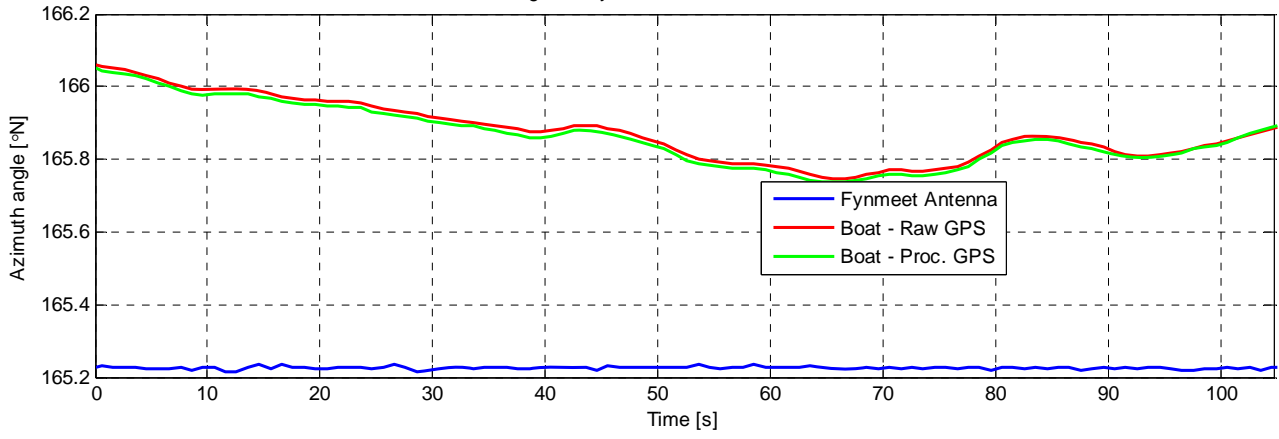


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	16:02:02.421	Tracking Range	6000 - 6008.13 m
Duration	262140 PRI's (104.8556 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.045	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

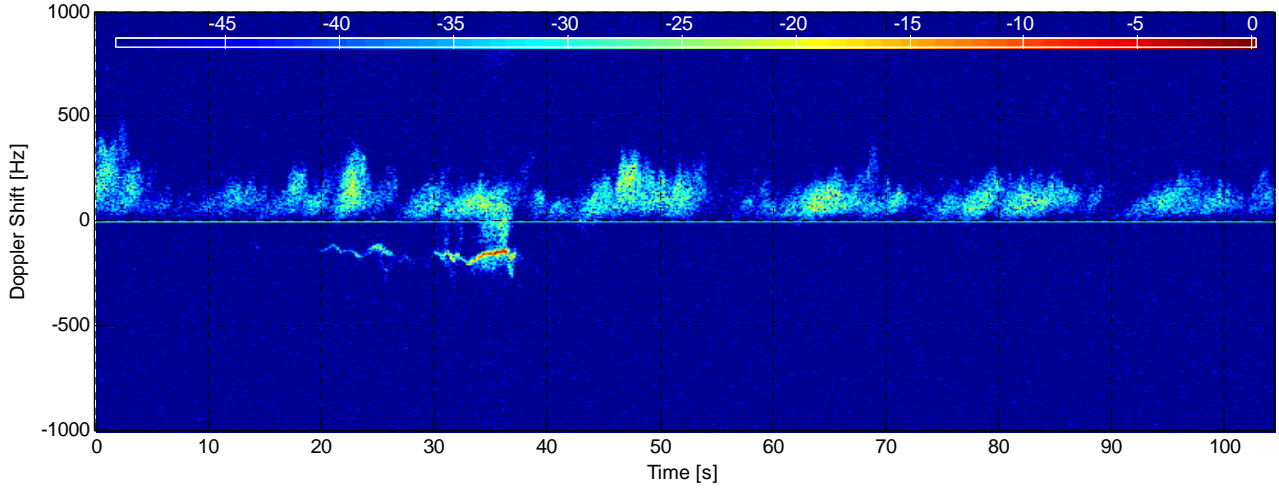
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.3 kts, 191.4 deg. N	Grazing Angle	0.492 - 0.619 deg.	Odd Gates Offset	Bypassed
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	Bypassed
8hr Avg. Wind	14.6 kts, 170.3 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.86 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



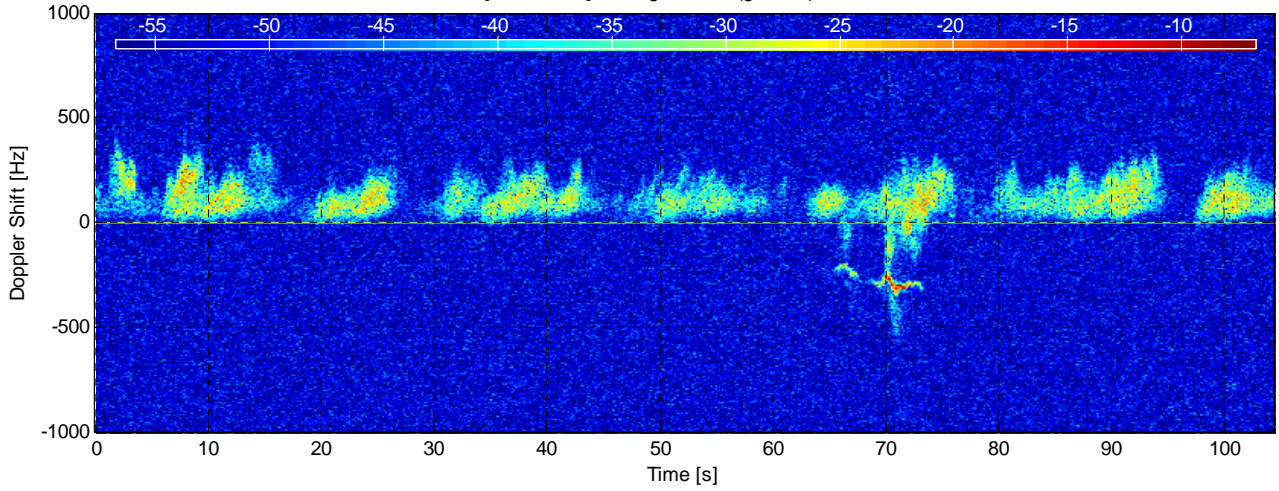
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-027



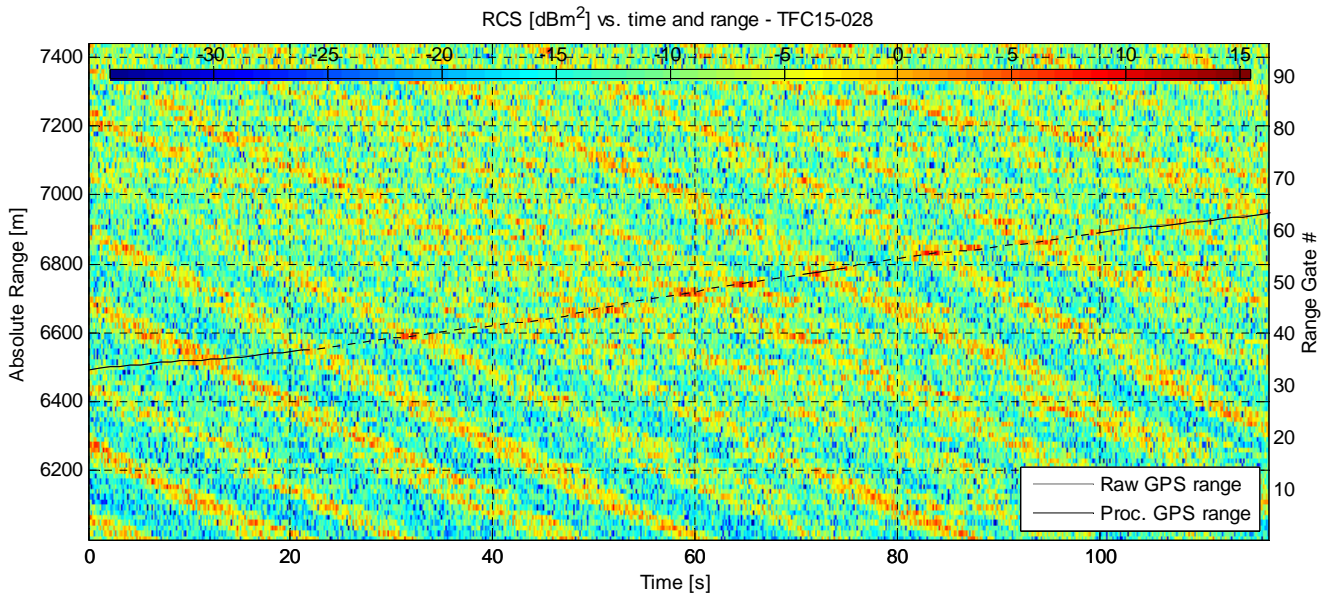
RCS [dBm².Hz⁻¹] at range 135 m (gate 10) - TFC15-027



RCS [dBm².Hz⁻¹] at range 285 m (gate 20) - TFC15-027

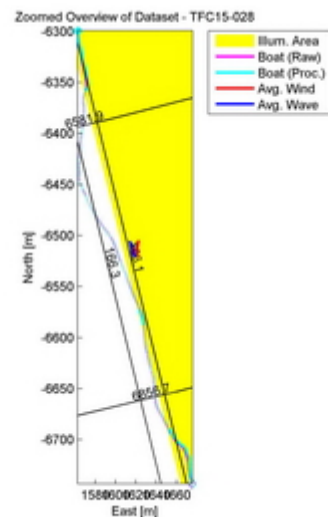
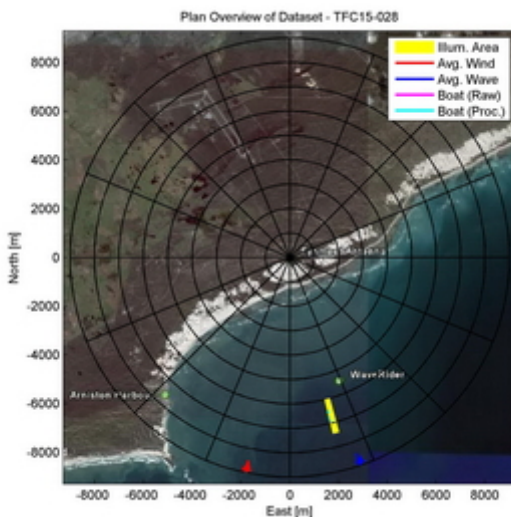


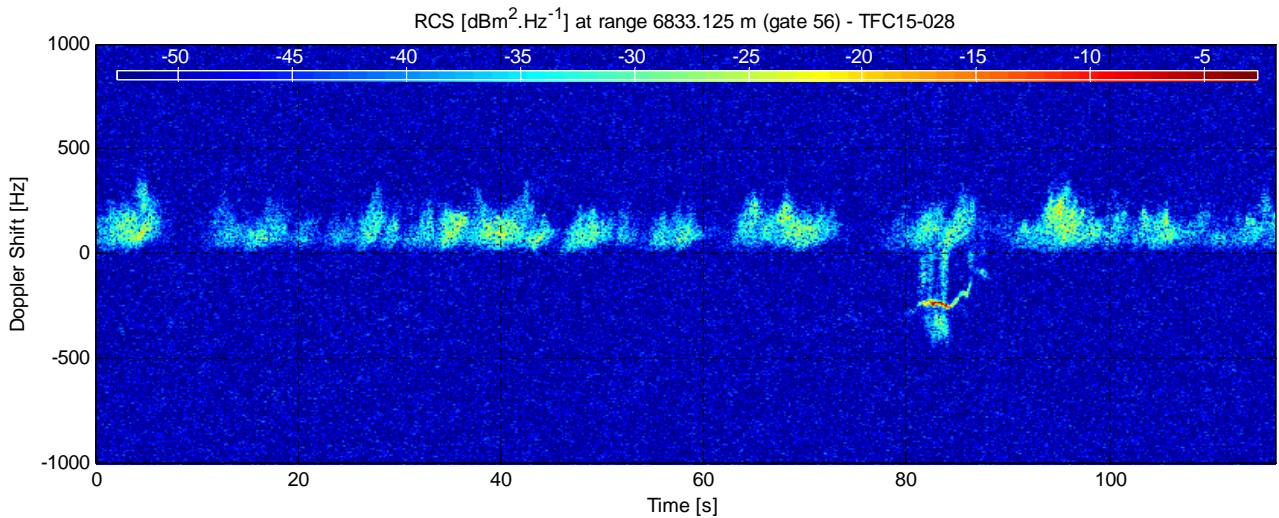
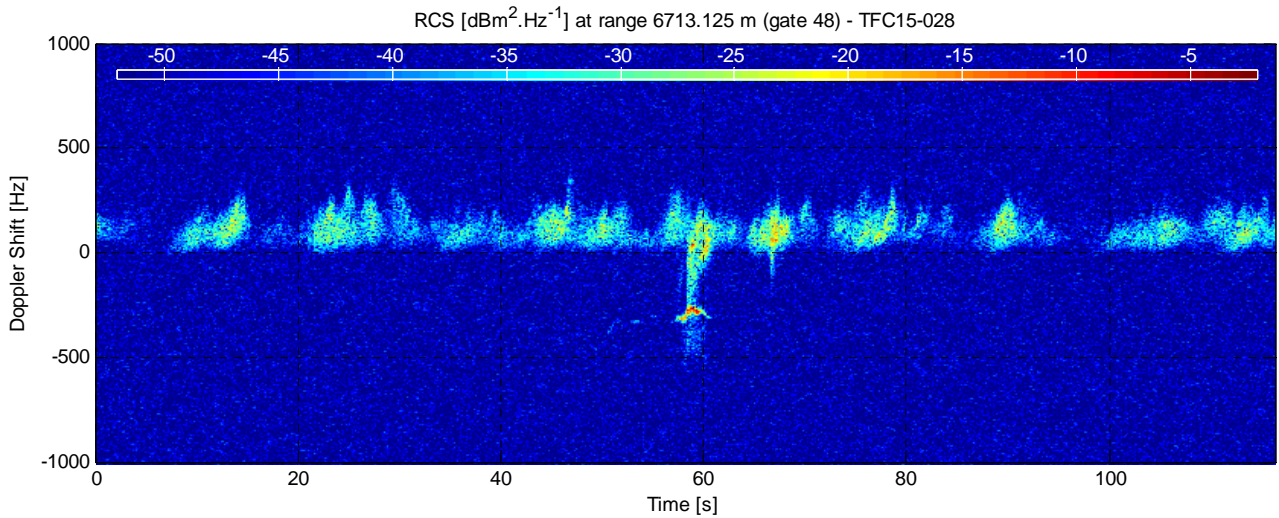
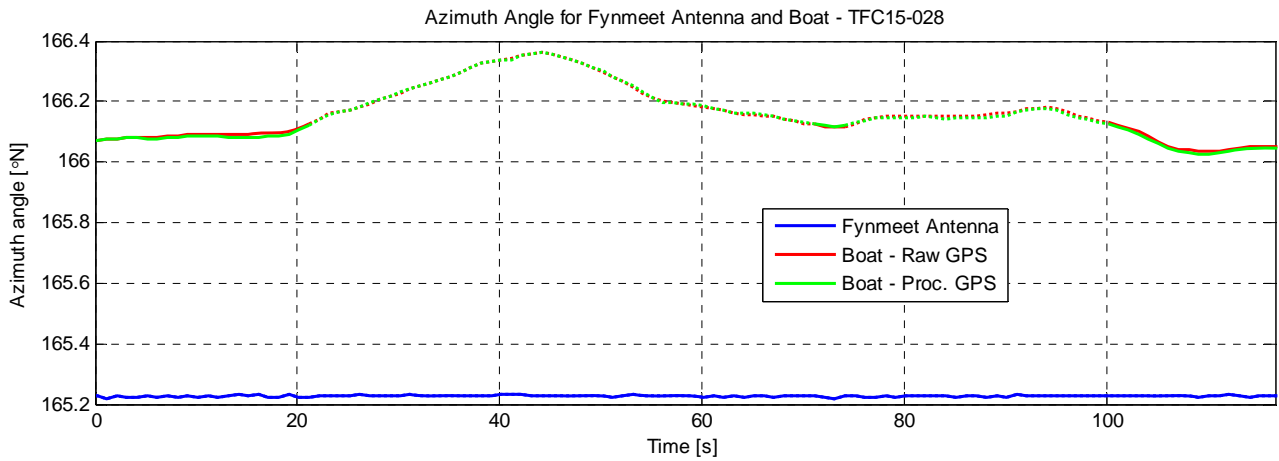
Dataset TFC15-028



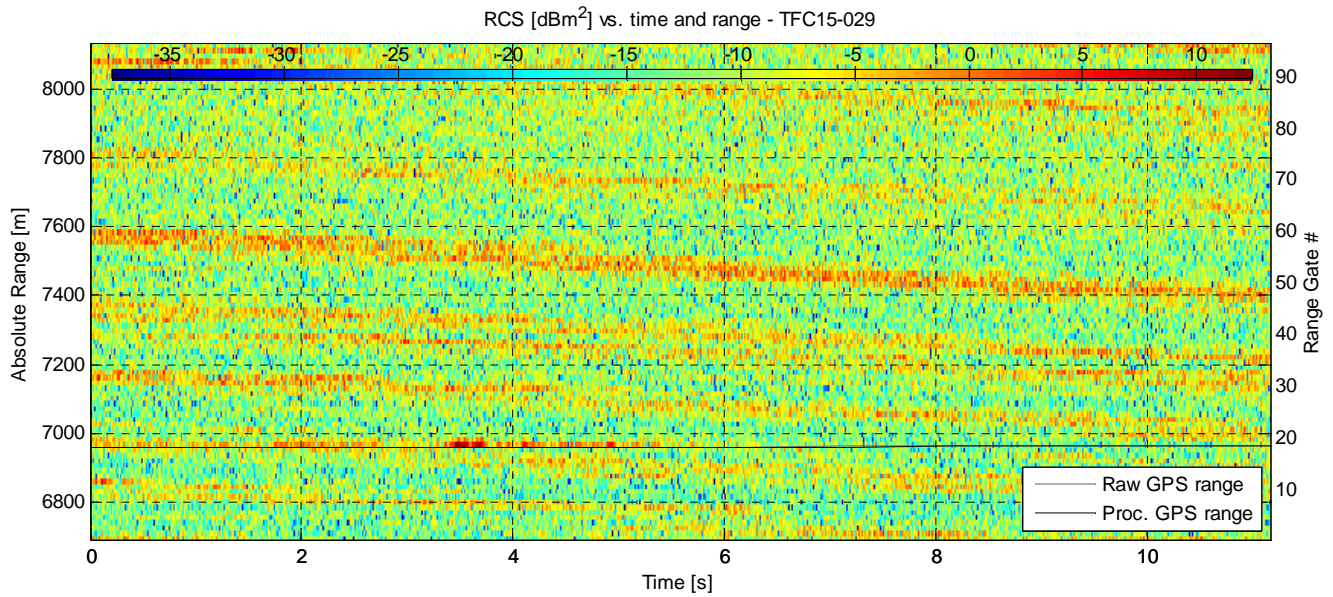
Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	2.5 kHz
Start Time	16:04:00.843	Tracking Range	6008.13 m
Duration	291759 PRI's (116.7032 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.046	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.1 kts, 191.4 deg. N	Grazing Angle	0.492 - 0.619 deg.	Odd Gates Offset	7.8202-1.6352i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	4.1206-2.61i
8hr Avg. Wind	14.5 kts, 170.5 deg. N	Antenna Elv.	-1.189 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	2.88 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



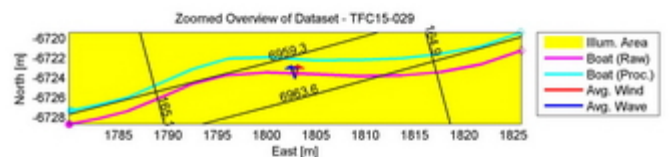
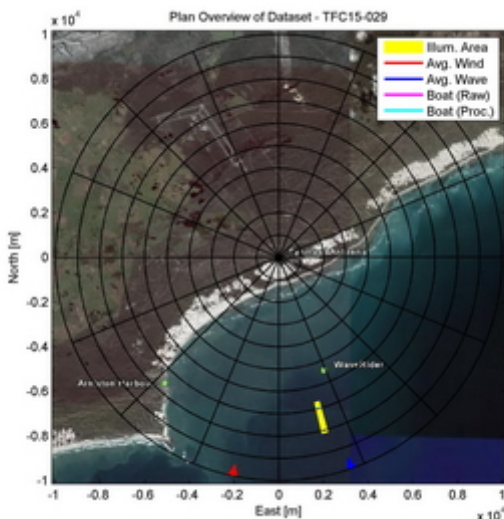


Dataset TFC15-029

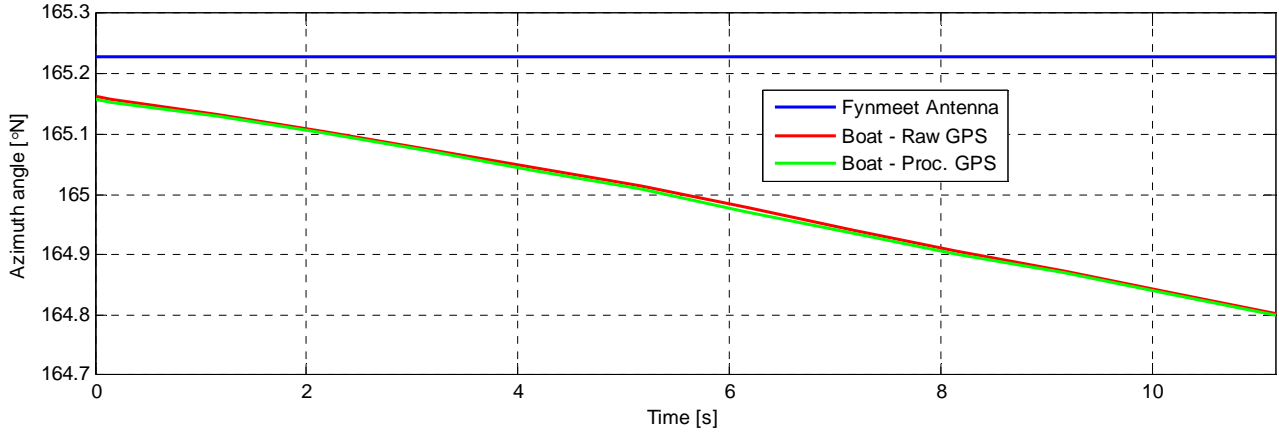


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:14:27.846	Tracking Range	6700.31 m
Duration	55760 PRI's (11.1518 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.048	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

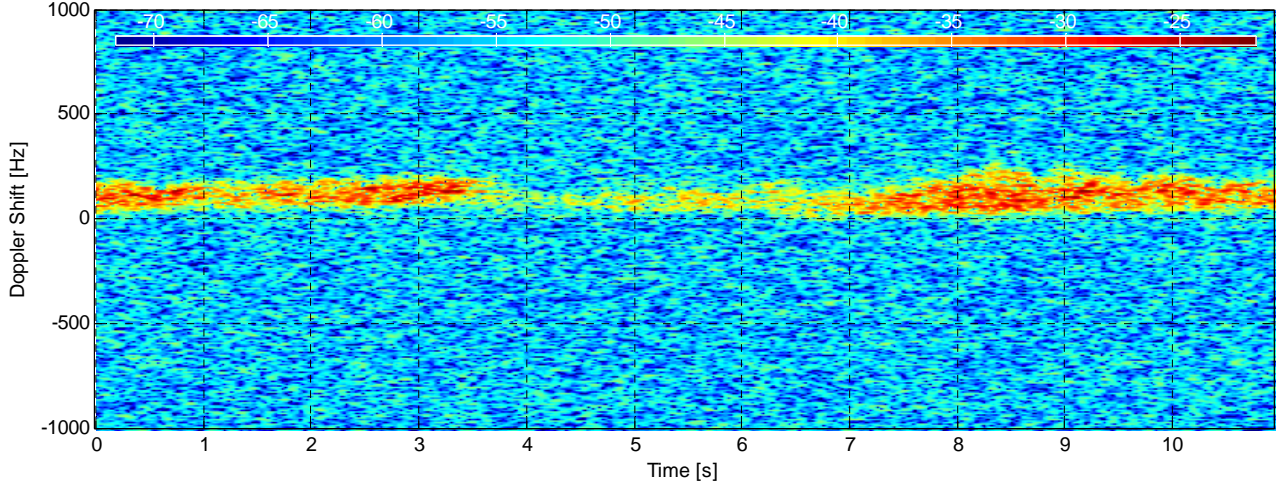
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	16.1 kts, 191.9 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.767-2.2504i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.6372-1.6587i
8hr Avg. Wind	14.5 kts, 171.1 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.02 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



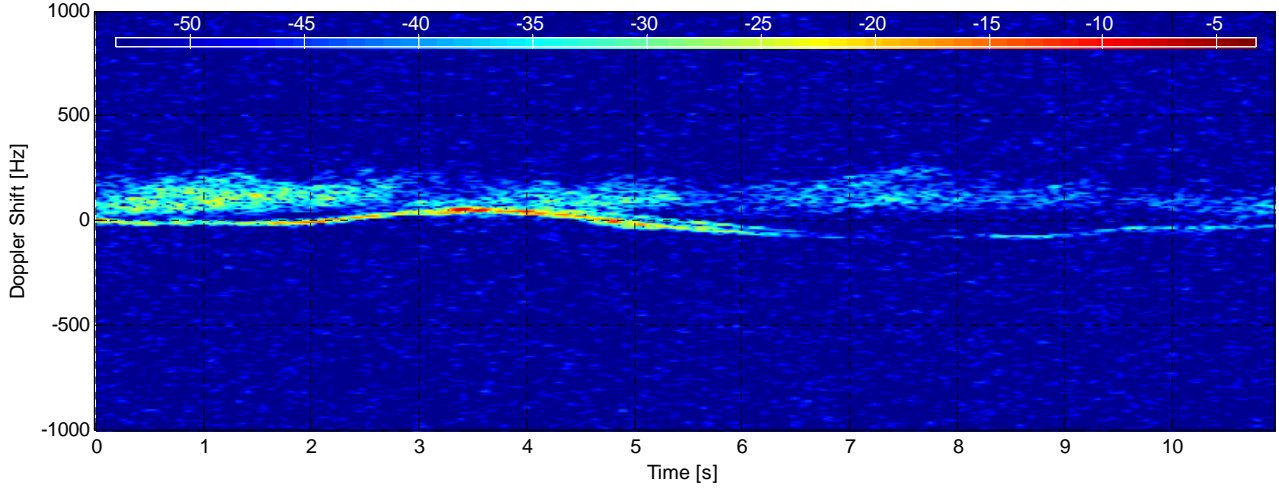
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-029



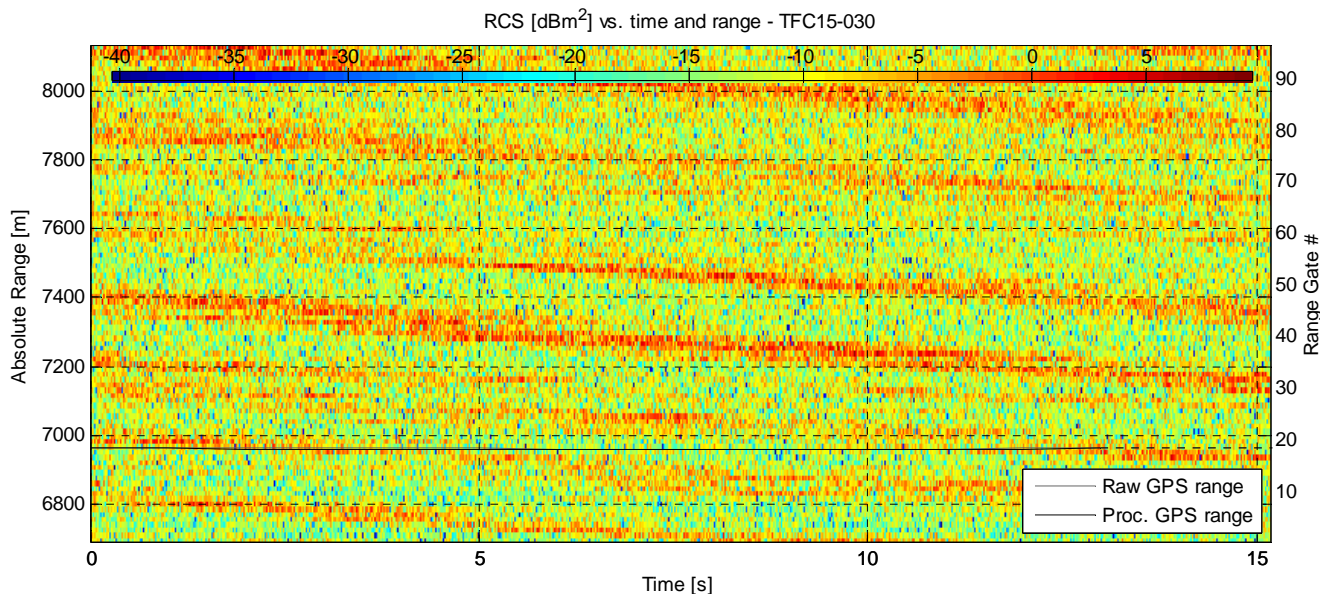
RCS [dBm².Hz⁻¹] at range 6835.3125 m (gate 10) - TFC15-029



RCS [dBm².Hz⁻¹] at range 6970.3125 m (gate 19) - TFC15-029

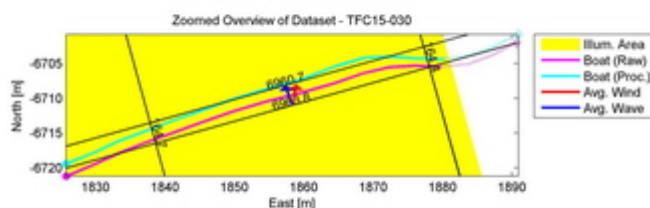
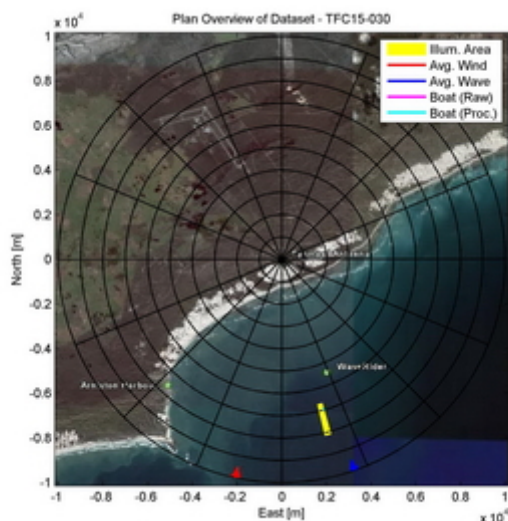


Dataset TFC15-030

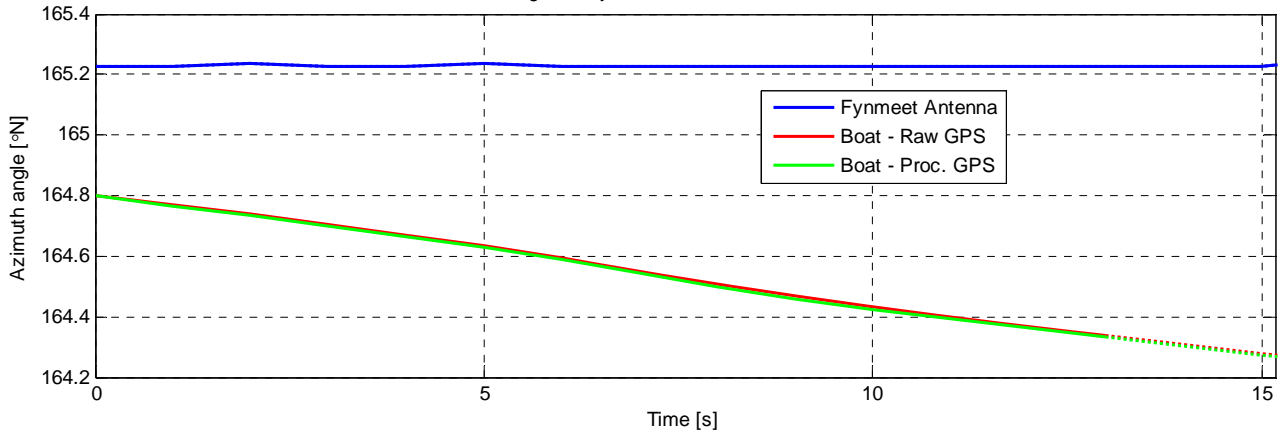


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:14:39.006	Tracking Range	6700.31 m
Duration	75880 PRI's (15.1758 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.048	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

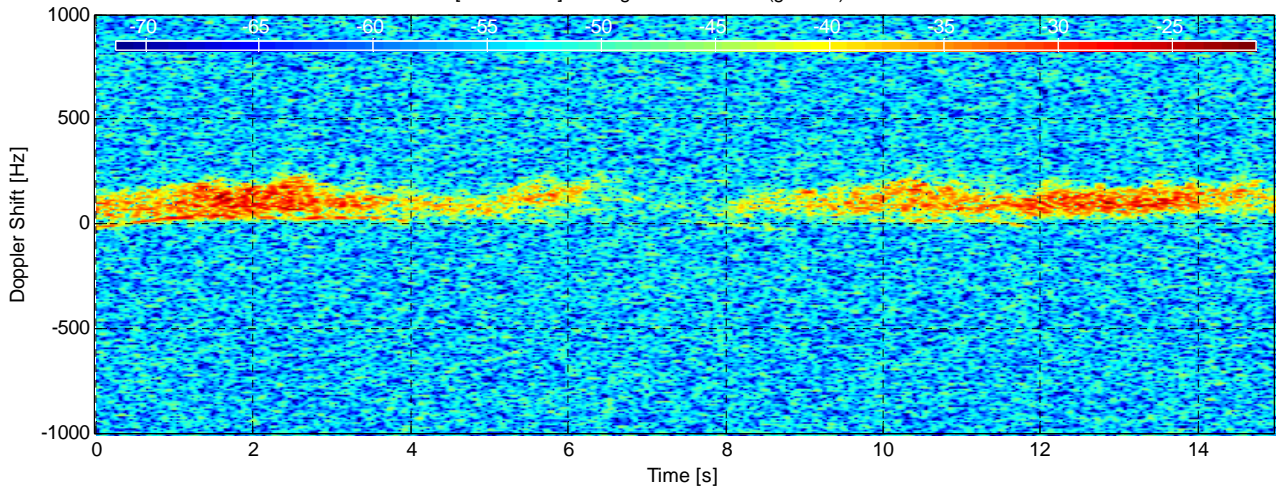
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	16.1 kts, 191.9 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.7523-2.1783i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.5927-1.6221i
8hr Avg. Wind	14.5 kts, 171.1 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.02 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



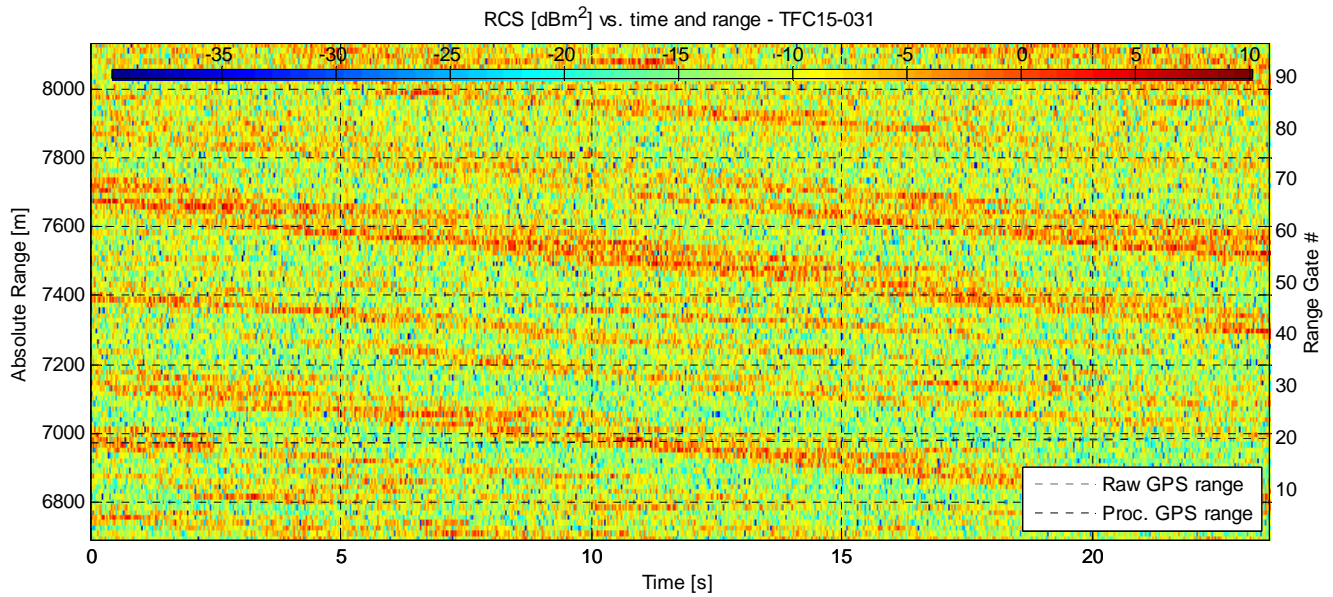
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-030



RCS [dBm².Hz⁻¹] at range 6970.3125 m (gate 19) - TFC15-030

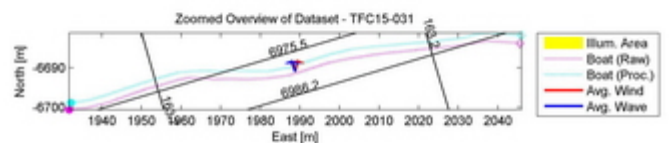
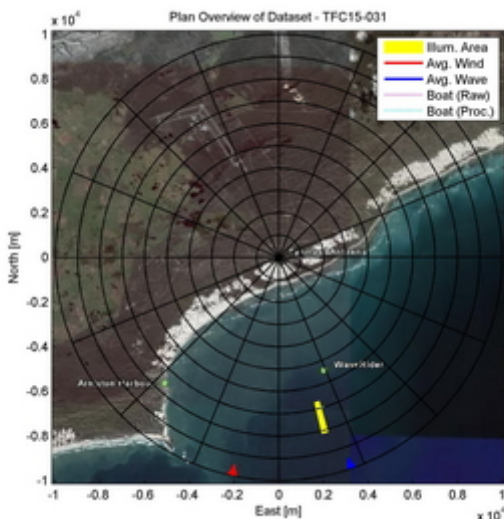


Dataset TFC15-031

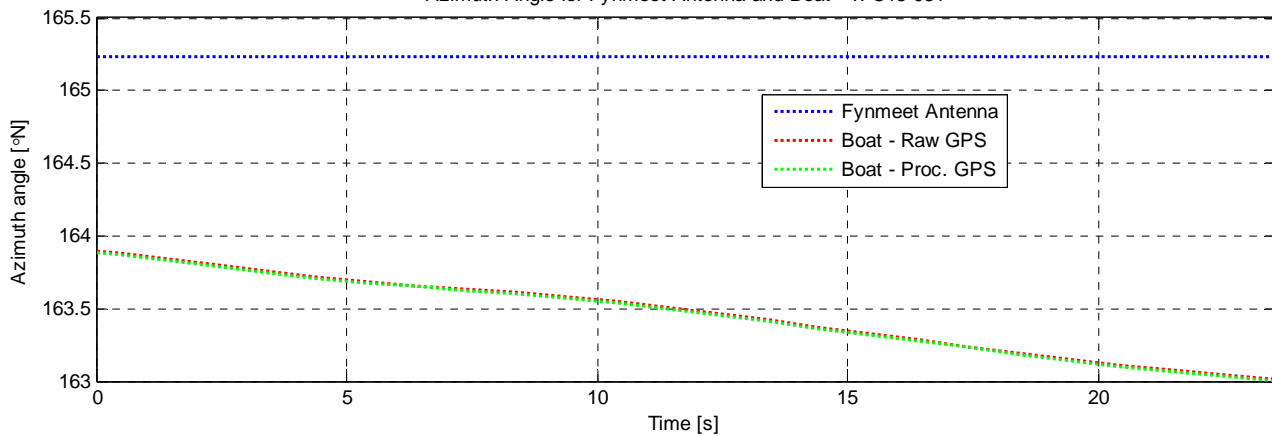


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:15:06.598	Tracking Range	6700.31 m
Duration	117760 PRI's (23.5518 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.048	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

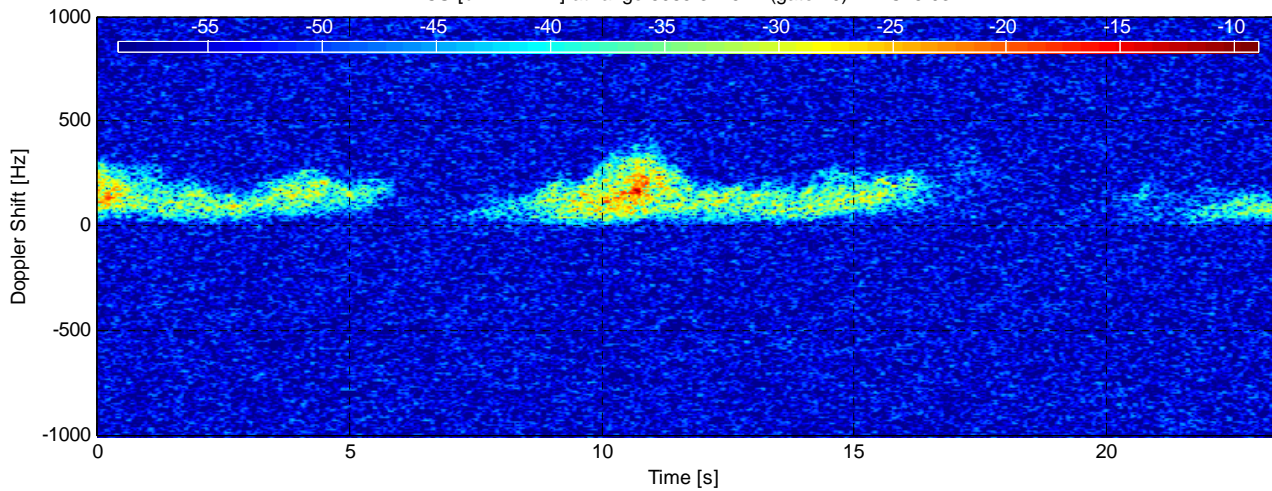
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	16 kts, 192 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.7441-2.1744i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.6343-1.6393i
8hr Avg. Wind	14.5 kts, 171.2 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



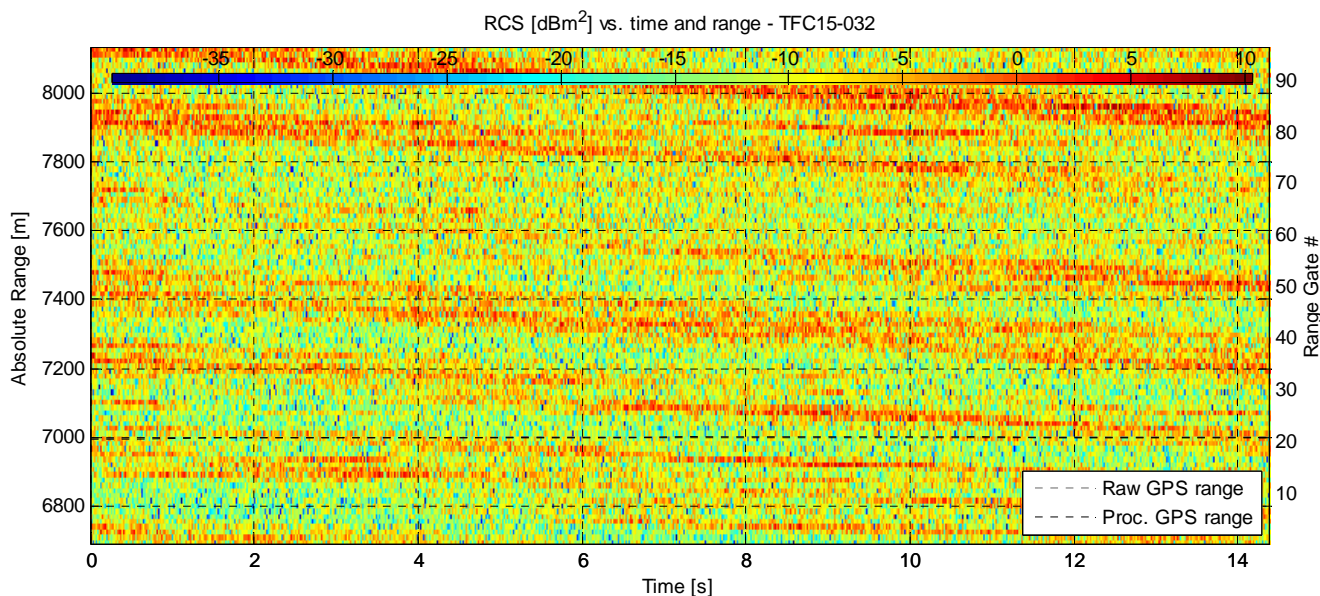
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-031



RCS [dBm².Hz⁻¹] at range 6985.3125 m (gate 20) - TFC15-031

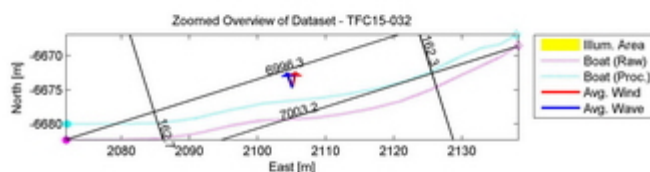
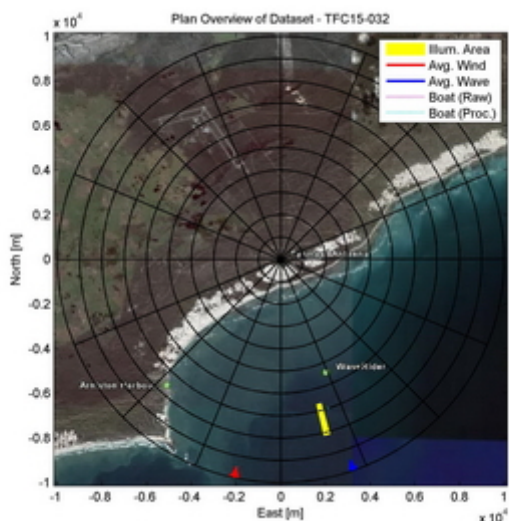


Dataset TFC15-032

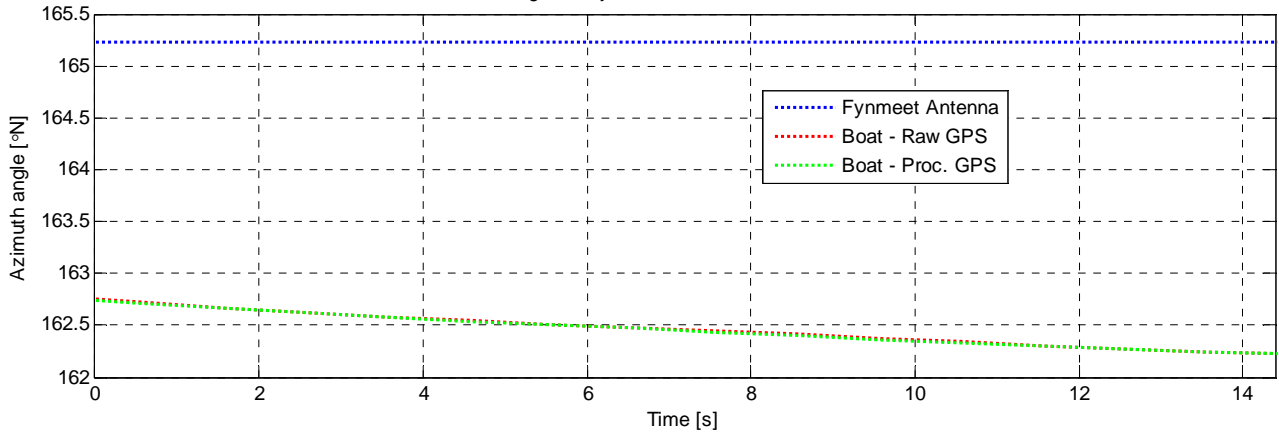


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:15:35.430	Tracking Range	6700.31 m
Duration	71960 PRI's (14.3918 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.048	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

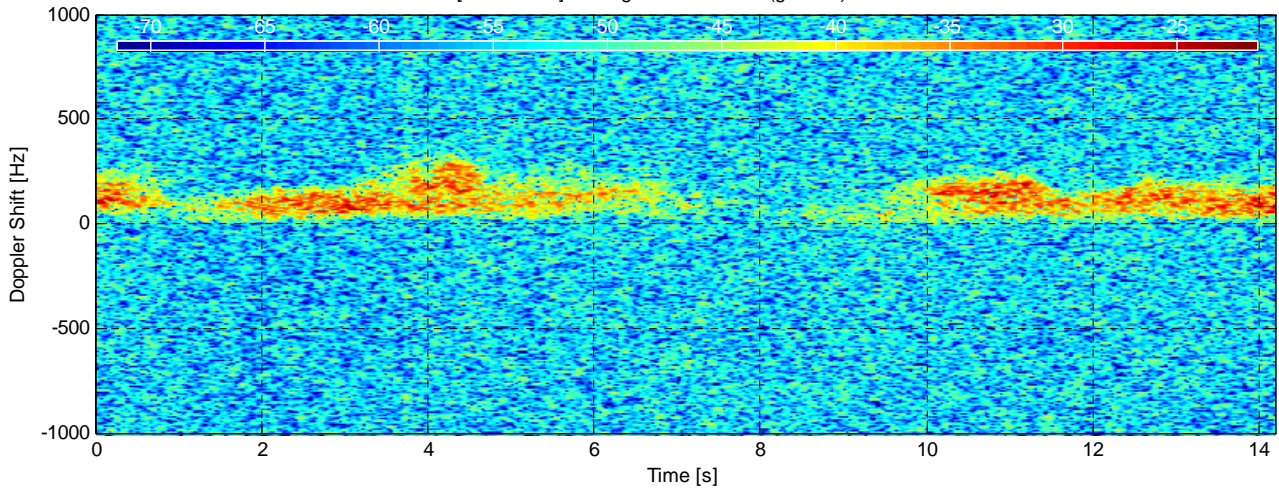
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	16 kts, 192 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.7137-2.0234i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.5874-1.5841i
8hr Avg. Wind	14.5 kts, 171.2 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



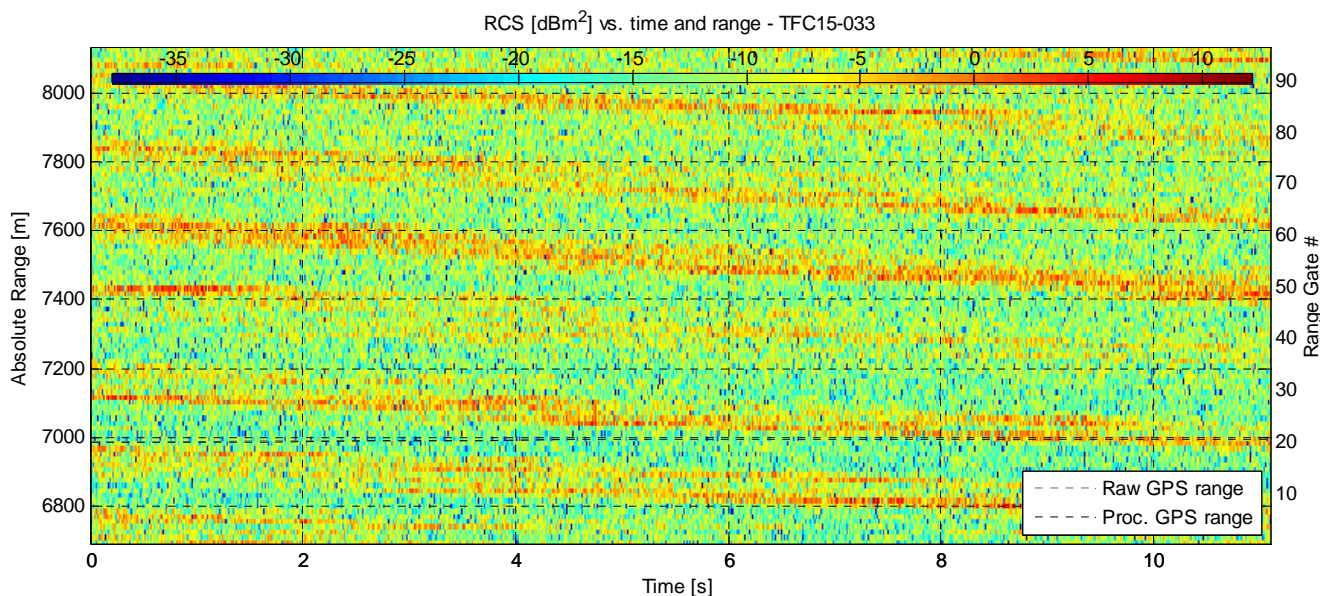
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-032



RCS [dBm².Hz⁻¹] at range 7000.3125 m (gate 21) - TFC15-032

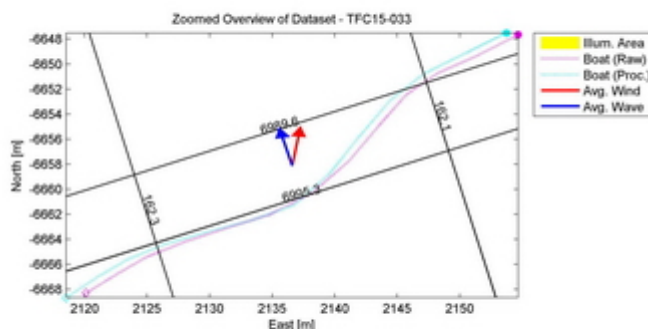
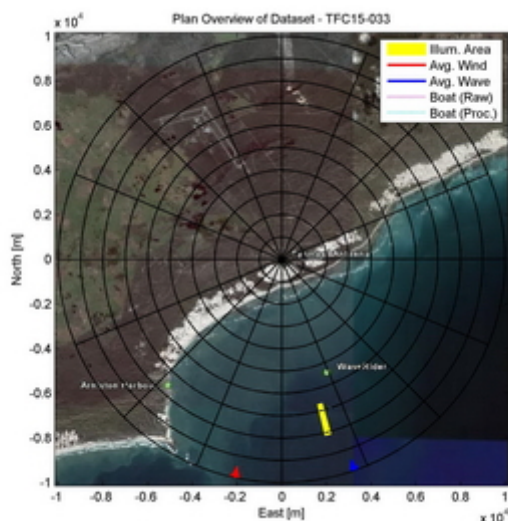


Dataset TFC15-033

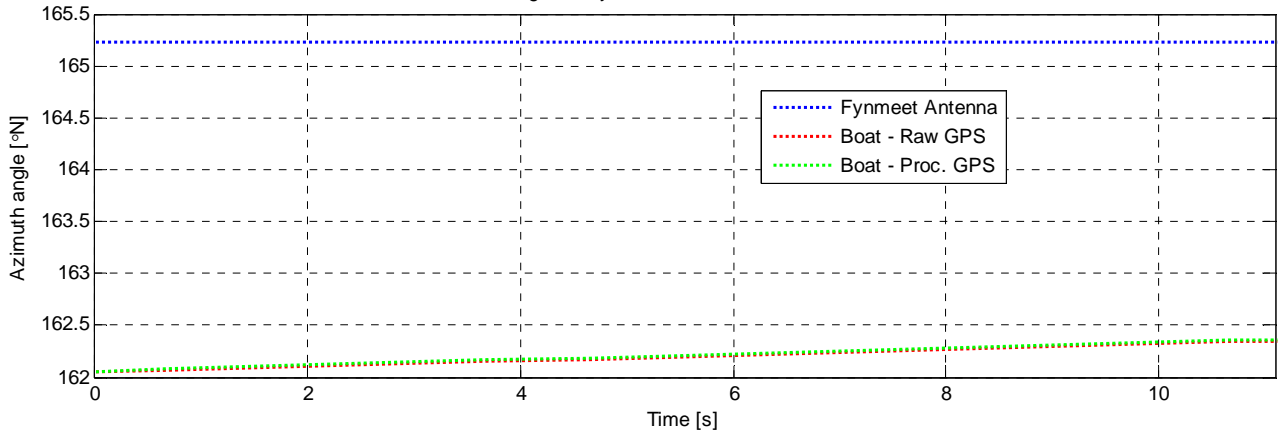


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:16:21.343	Tracking Range	6700.31 m
Duration	55480 PRI's (11.0958 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.049	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

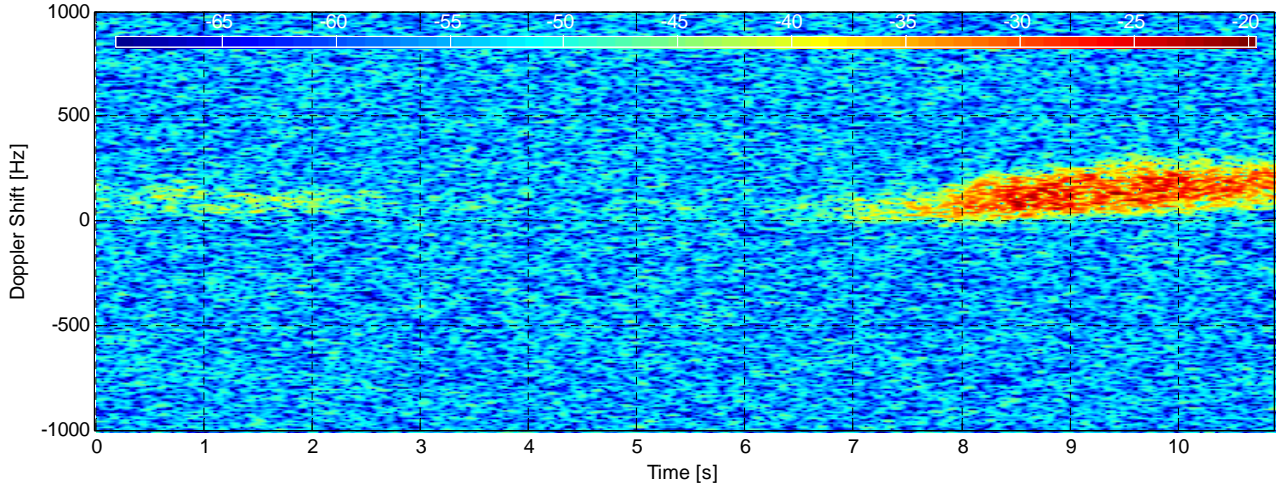
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.8 kts, 192.1 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.69-2.122i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.6217-1.6909i
8hr Avg. Wind	14.5 kts, 171.3 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.06 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



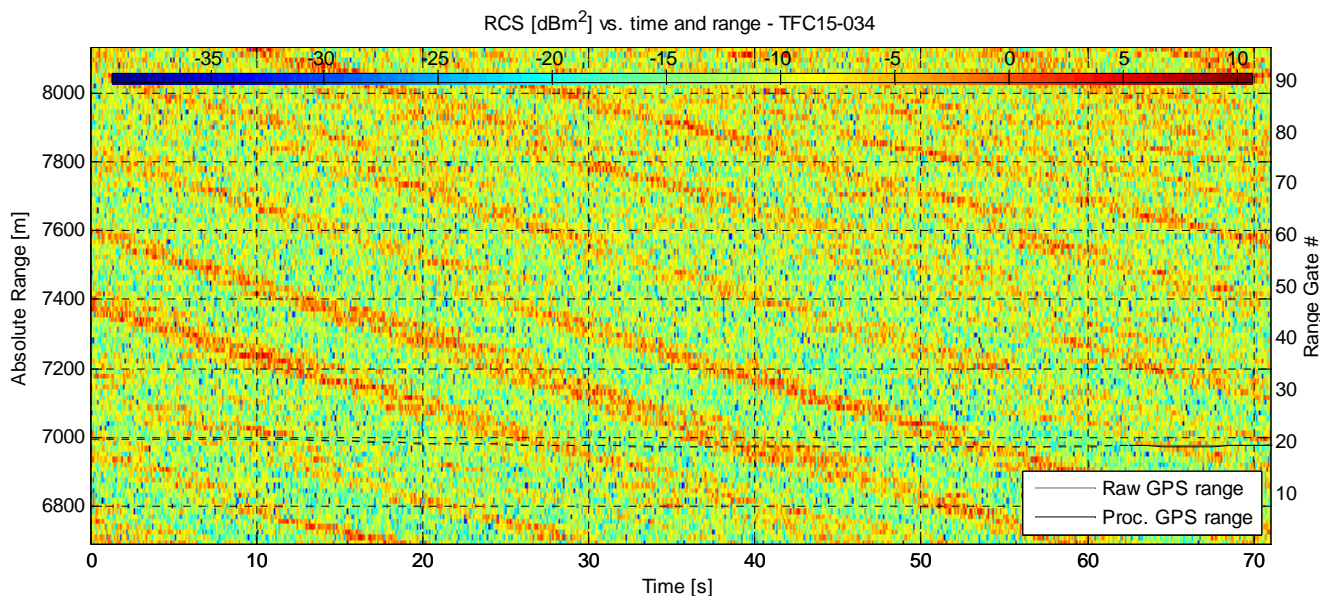
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-033



RCS [dBm².Hz⁻¹] at range 7000.3125 m (gate 21) - TFC15-033

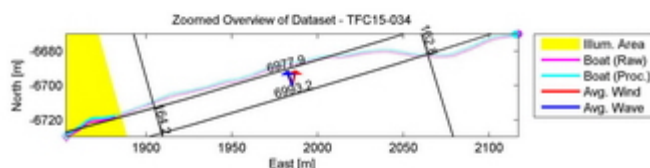
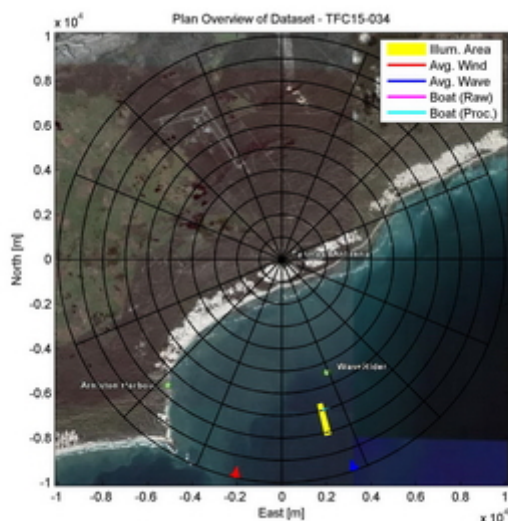


Dataset TFC15-034

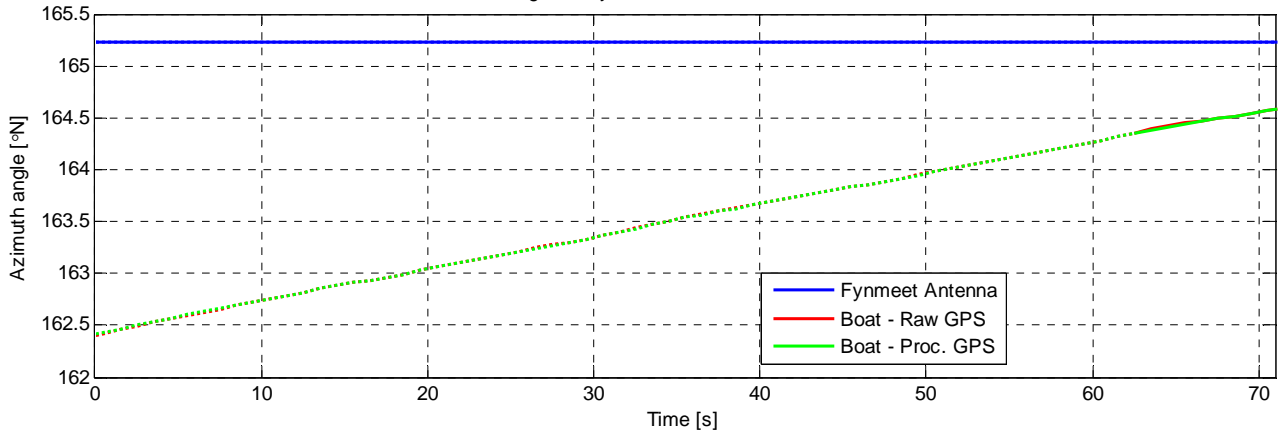


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:16:34.487	Tracking Range	6700.31 m
Duration	354880 PRI's (70.9758 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.049	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

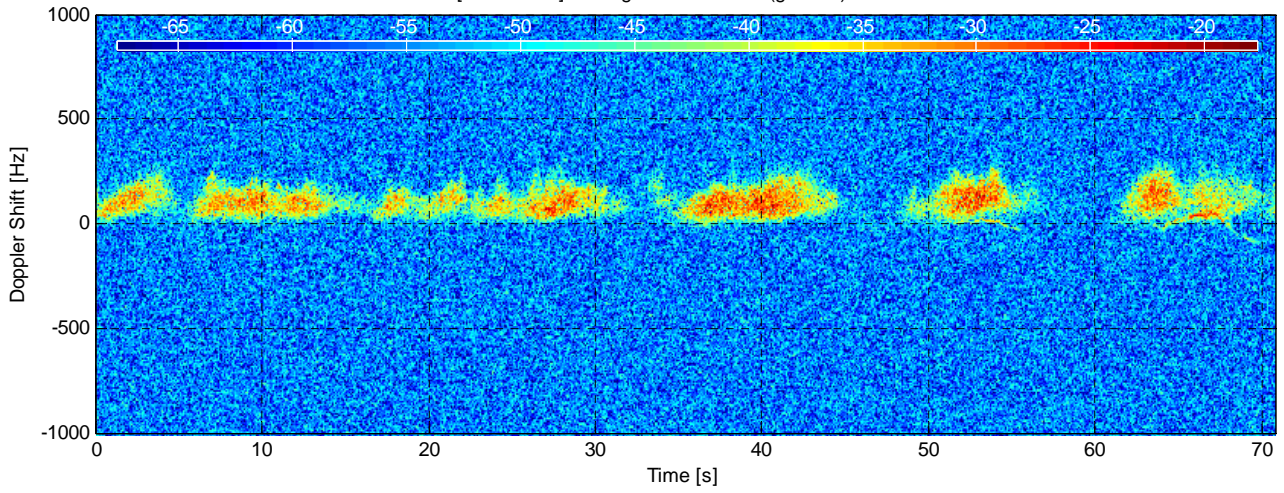
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.8 kts, 192.1 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.7372-2.1019i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.6288-1.7823i
8hr Avg. Wind	14.5 kts, 171.3 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.06 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



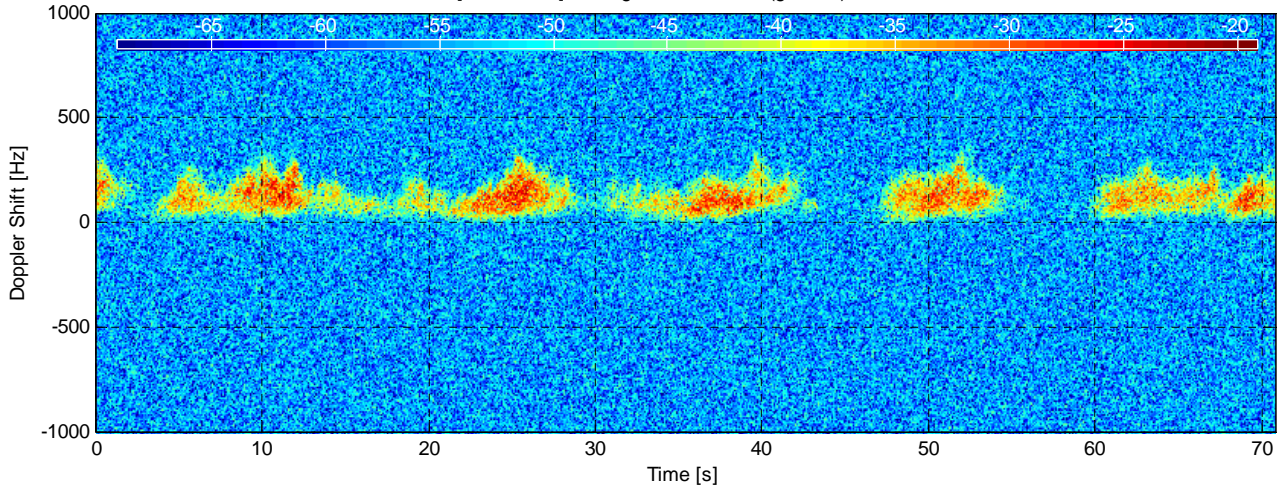
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-034



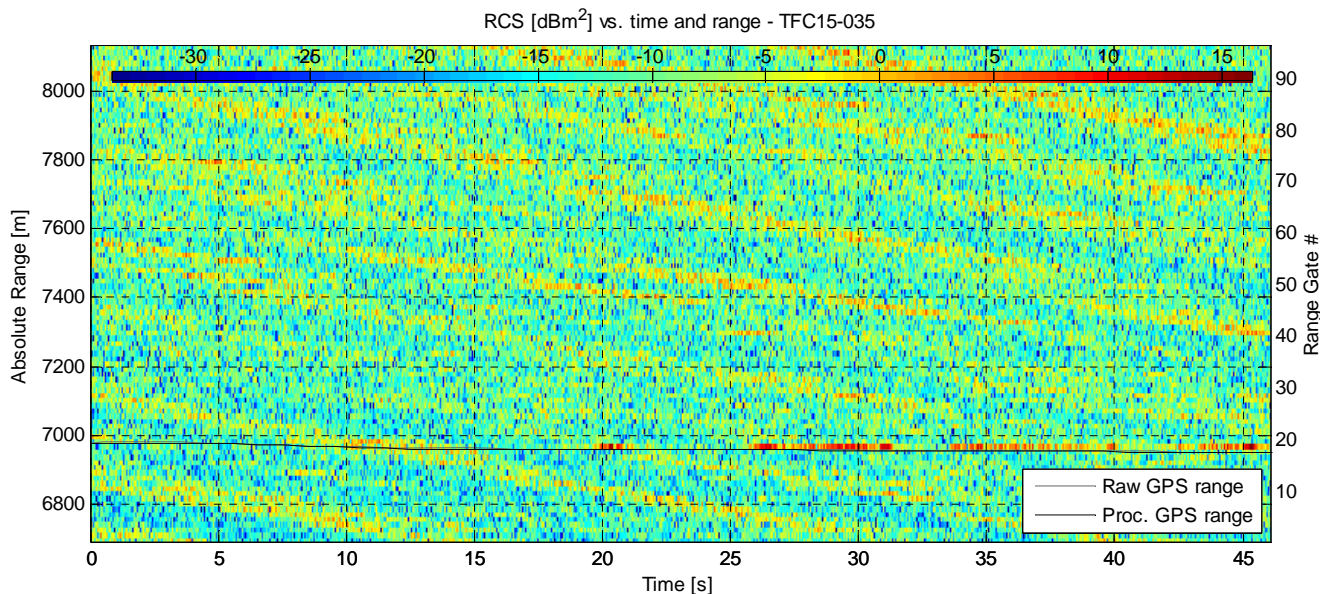
RCS [dBm².Hz⁻¹] at range 6985.3125 m (gate 20) - TFC15-034



RCS [dBm².Hz⁻¹] at range 7015.3125 m (gate 22) - TFC15-034

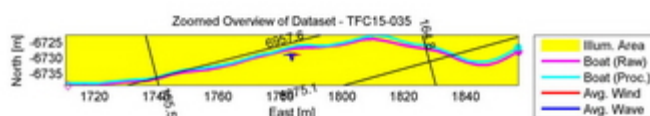
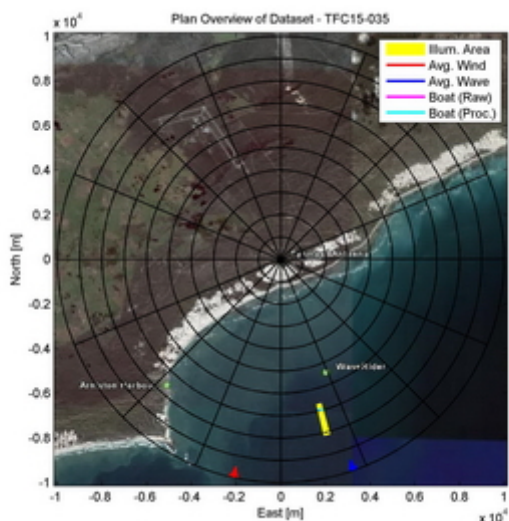


Dataset TFC15-035

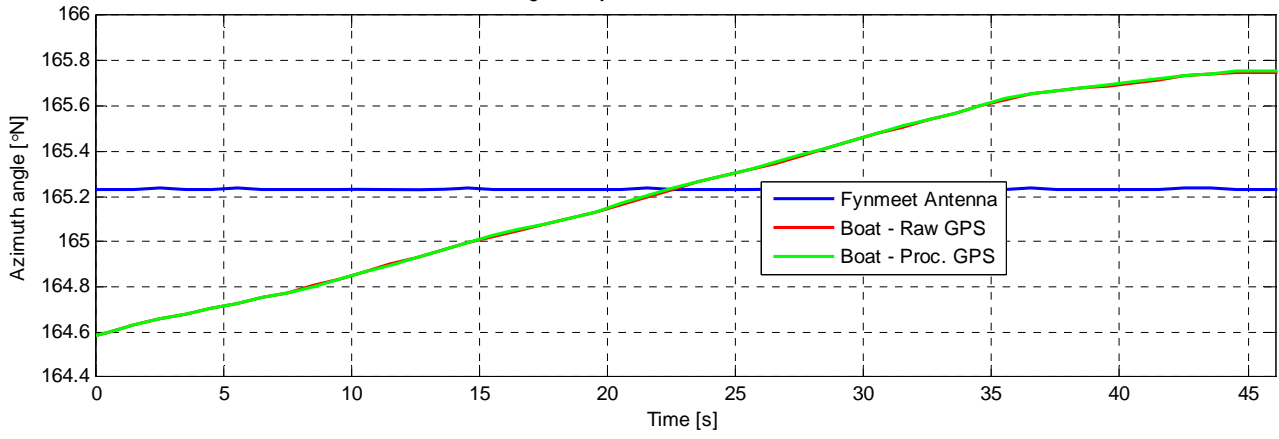


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:17:45.471	Tracking Range	6700.31 m
Duration	230319 PRI's (46.0636 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.049	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

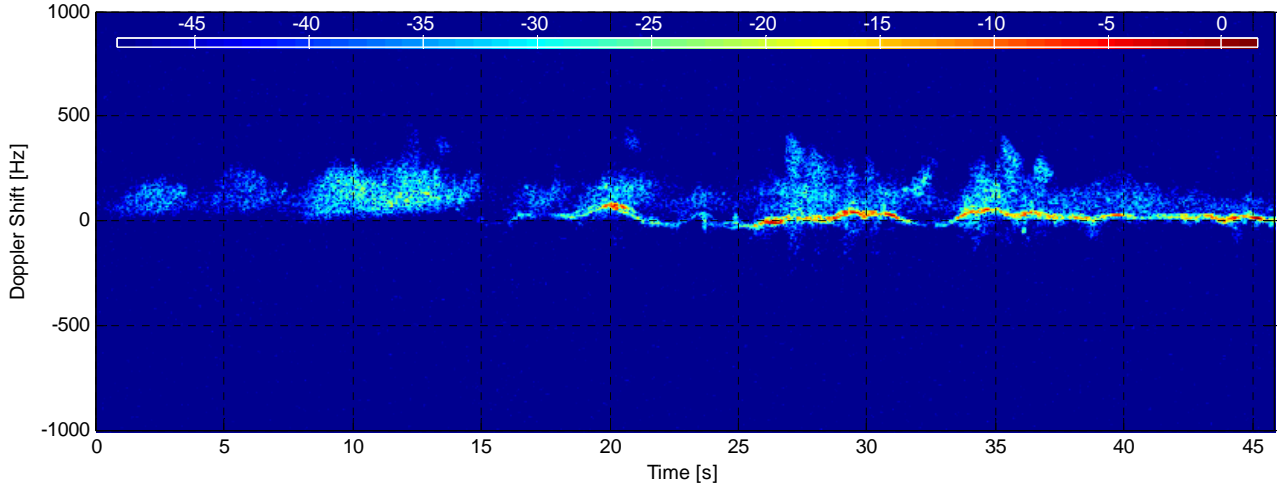
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.7 kts, 192.1 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.6993-2.0102i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.5816-1.788i
8hr Avg. Wind	14.5 kts, 171.3 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.08 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



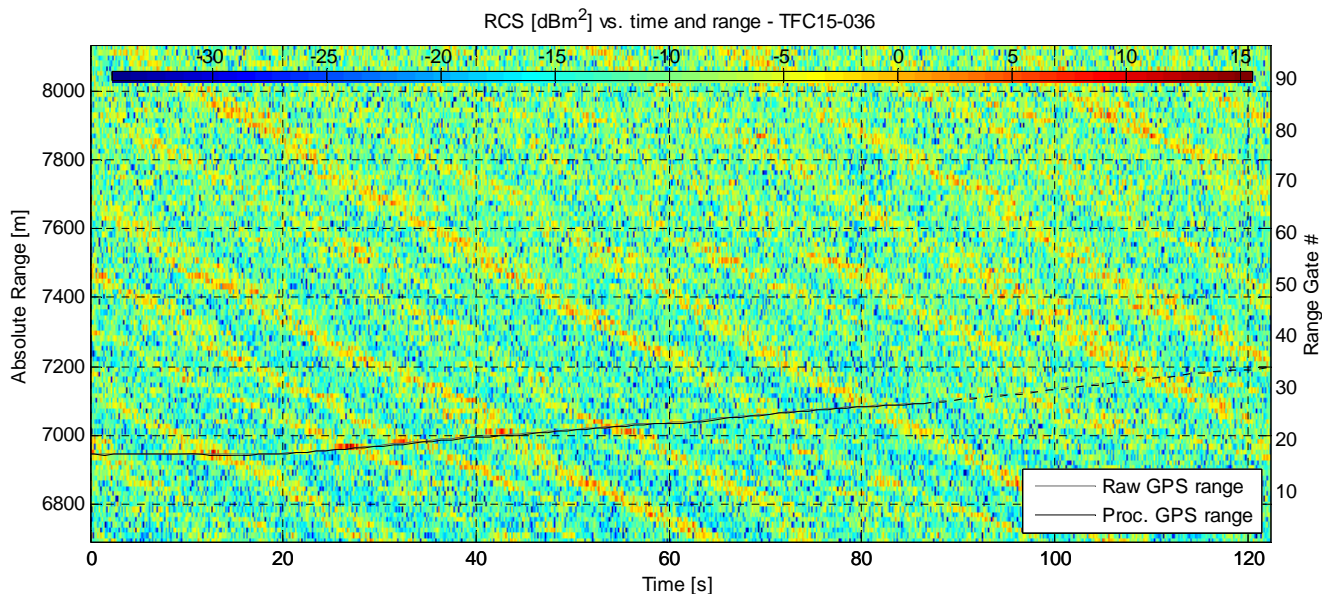
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-035



RCS [dBm².Hz⁻¹] at range 6970.3125 m (gate 19) - TFC15-035

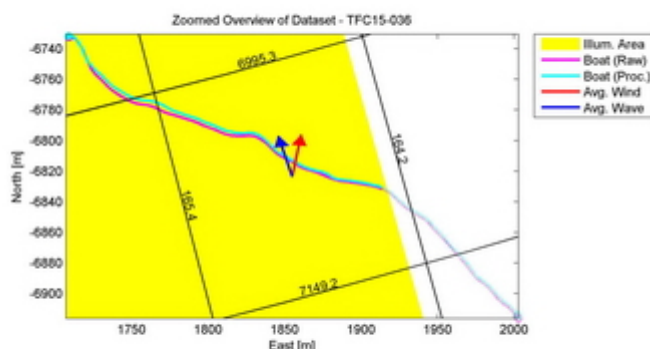
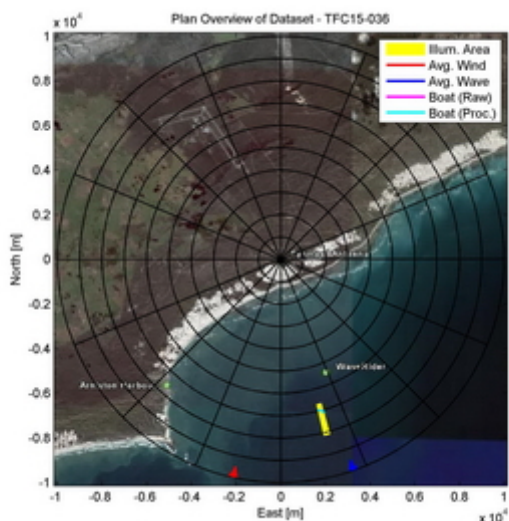


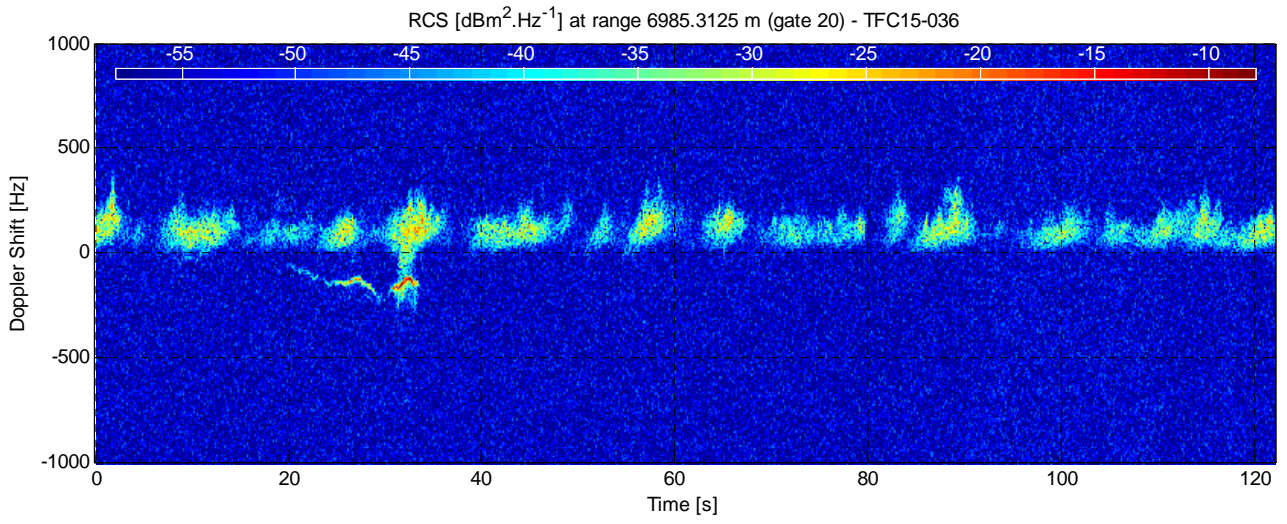
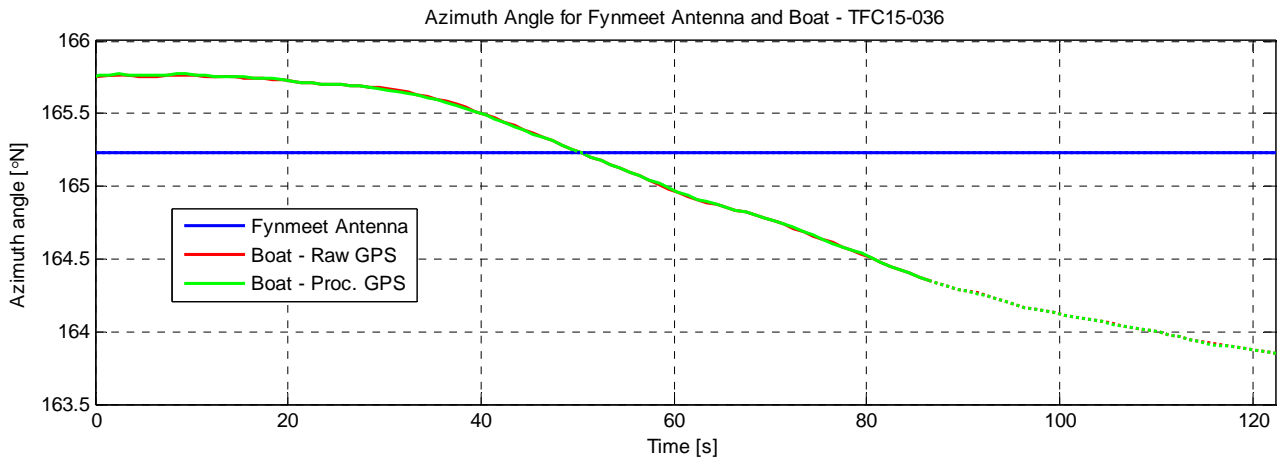
Dataset TFC15-036



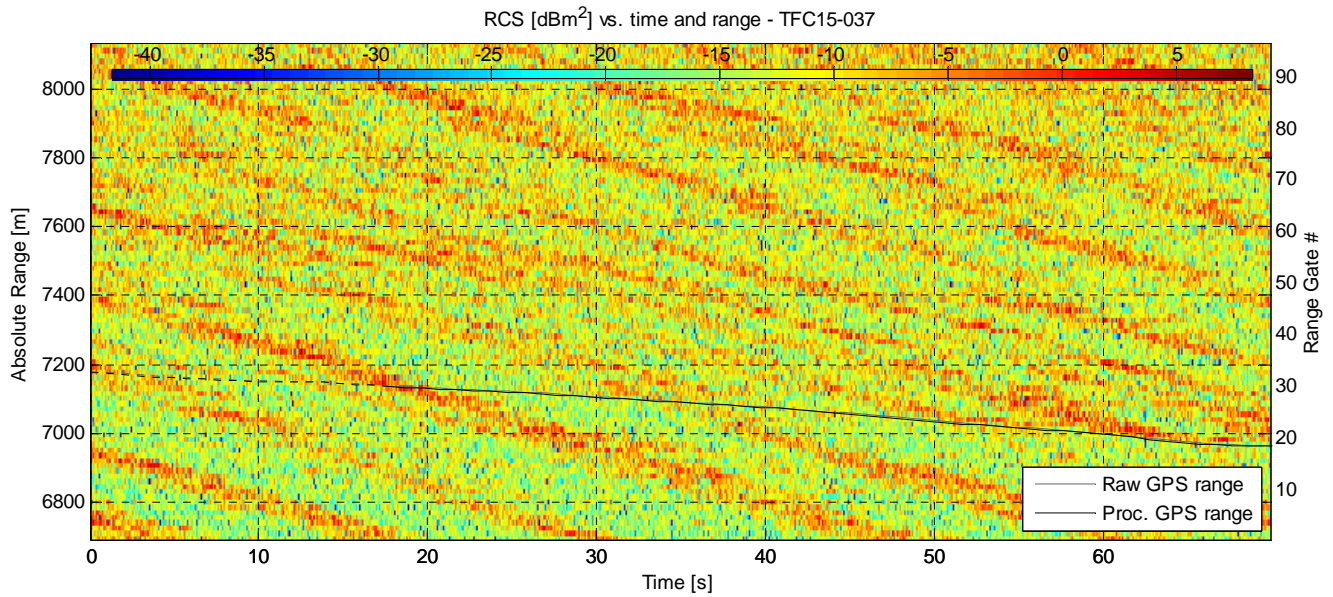
Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:18:54.578	Tracking Range	6700.31 m
Duration	611660 PRI's (122.3318 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.050	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.6 kts, 192.2 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.6281-1.9953i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.5694-2.1905i
8hr Avg. Wind	14.5 kts, 171.4 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.09 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



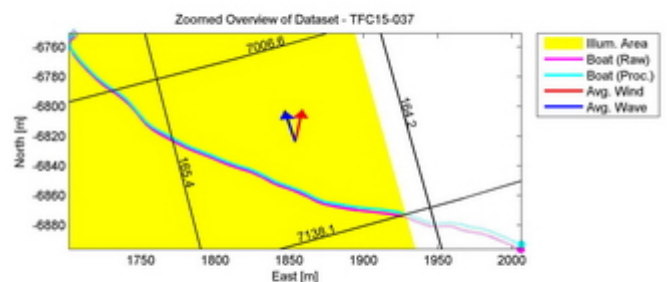
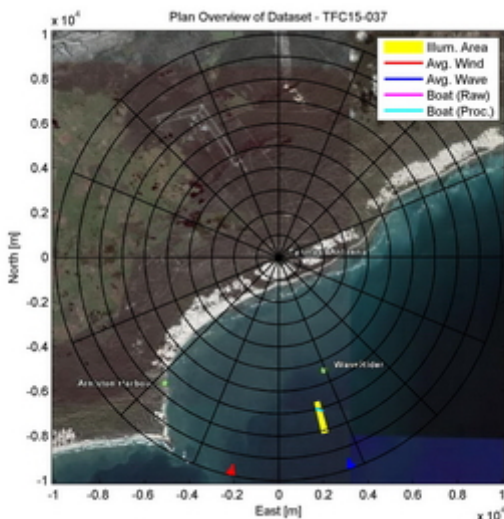


Dataset TFC15-037

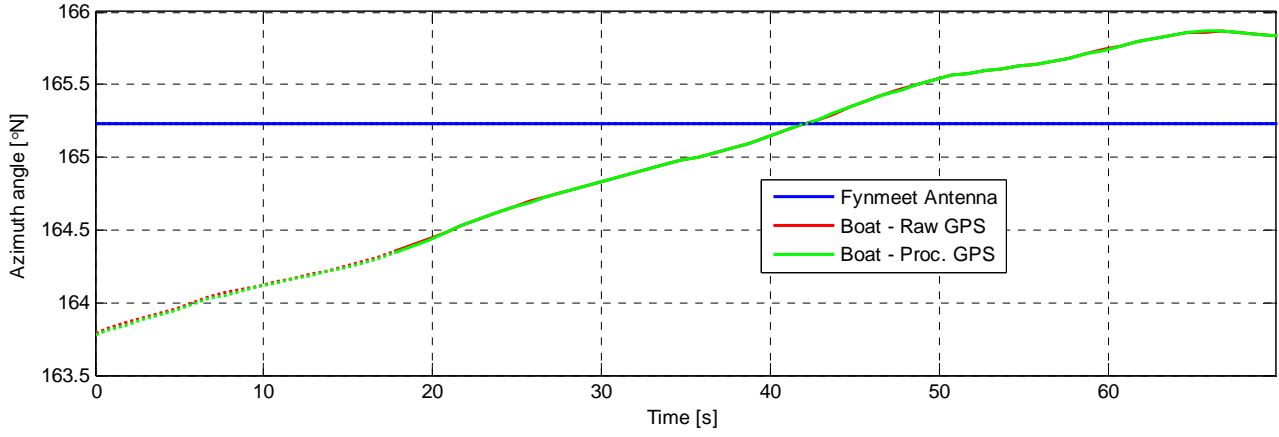


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:21:26.281	Tracking Range	6700.31 m
Duration	349520 PRI's (69.9038 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.051	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

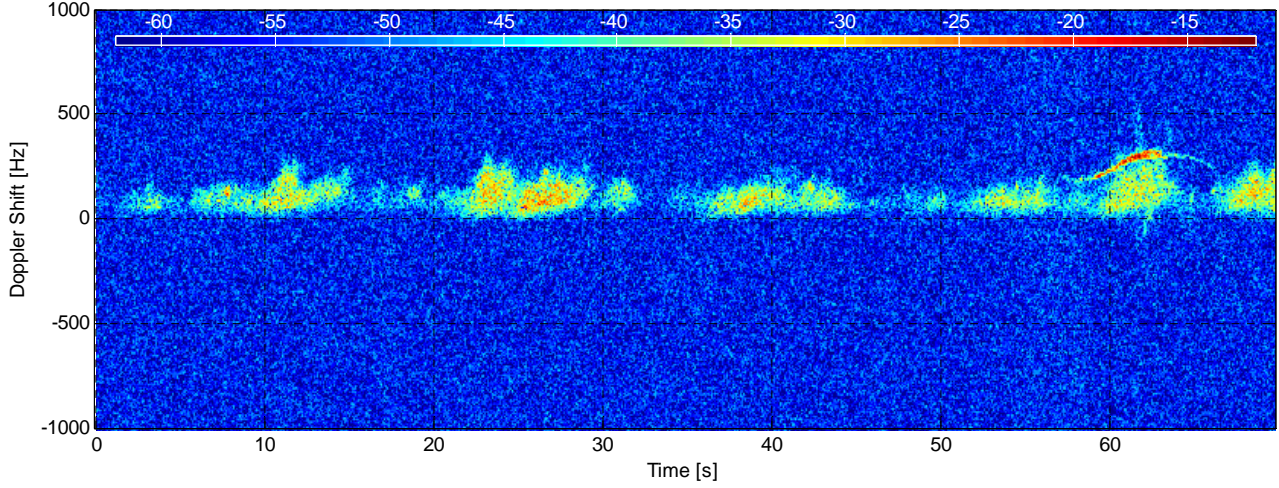
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.2 kts, 192.4 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.6161-1.9594i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.5119-2.1927i
8hr Avg. Wind	14.5 kts, 171.6 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.14 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



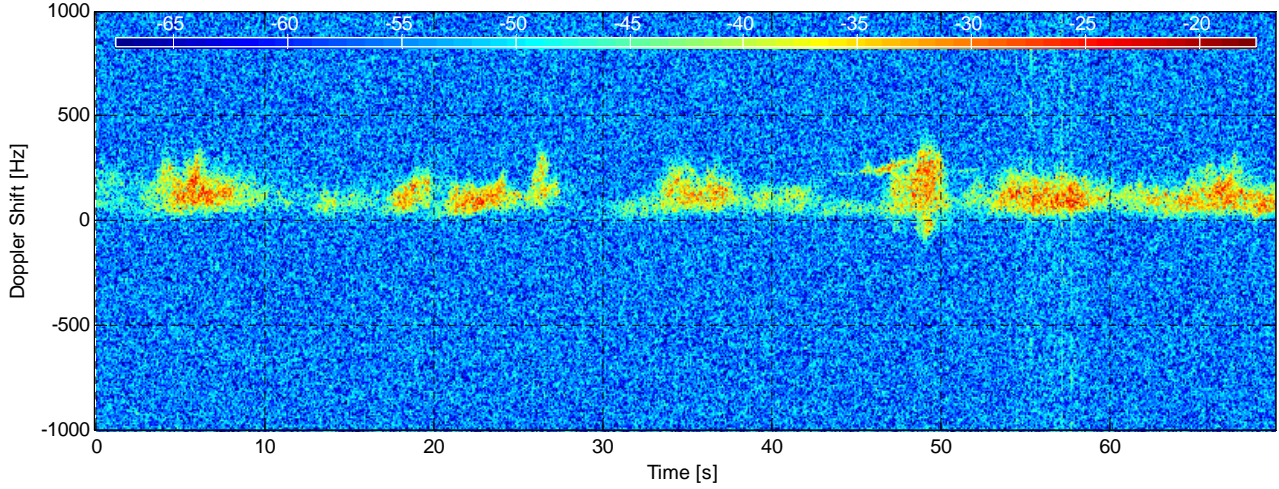
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-037



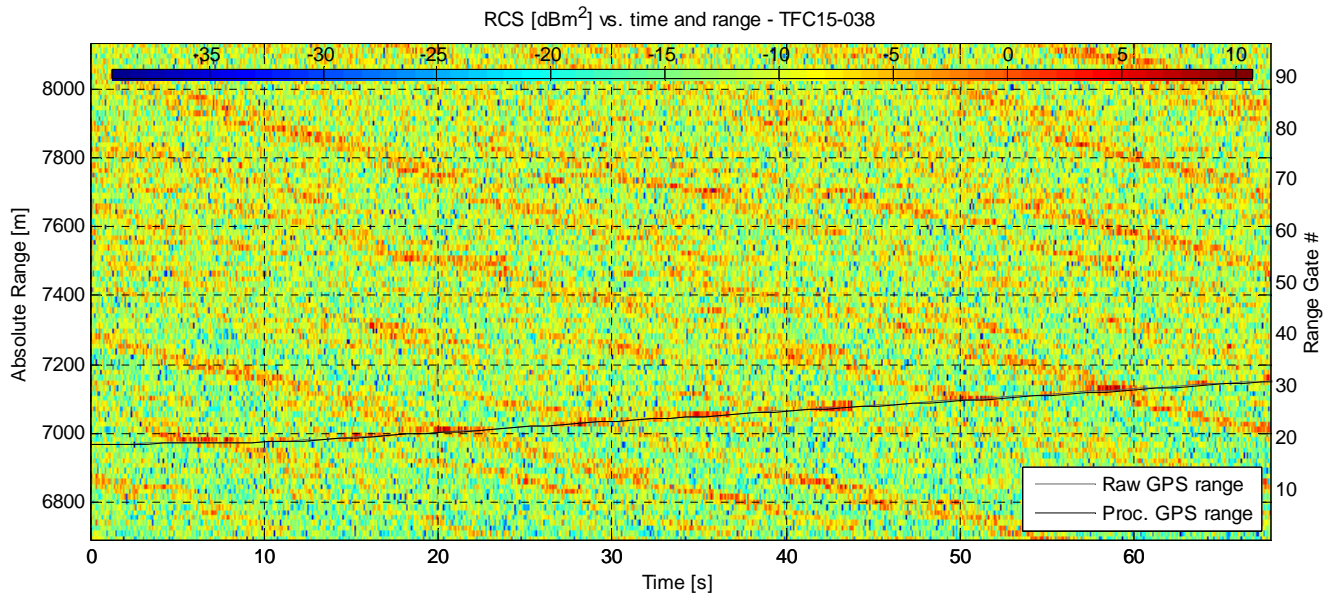
RCS [dBm².Hz⁻¹] at range 7015.3125 m (gate 22) - TFC15-037



RCS [dBm².Hz⁻¹] at range 7075.3125 m (gate 26) - TFC15-037

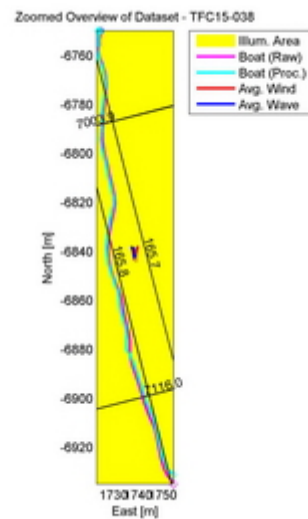
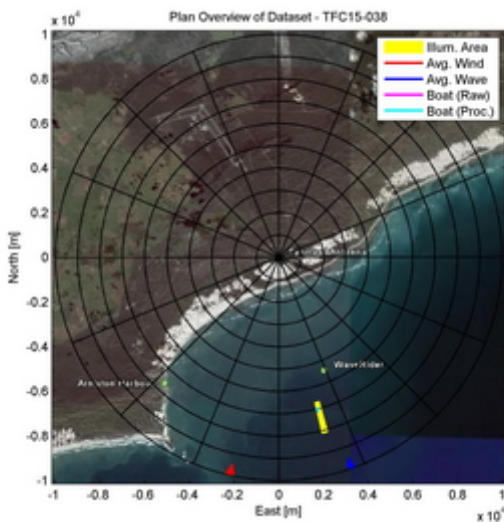


Dataset TFC15-038

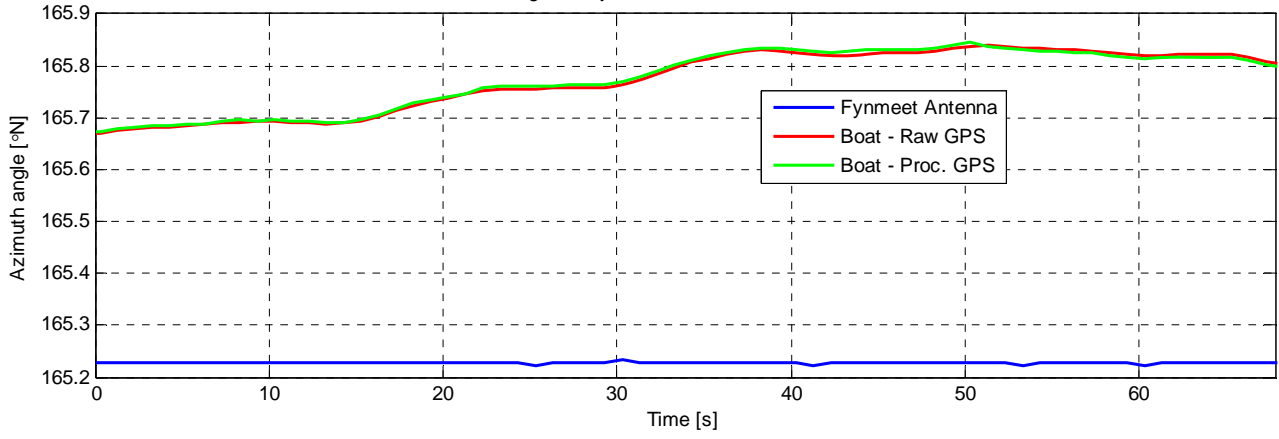


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:23:18.718	Tracking Range	6700.31 m
Duration	338966 PRI's (67.793 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.052	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

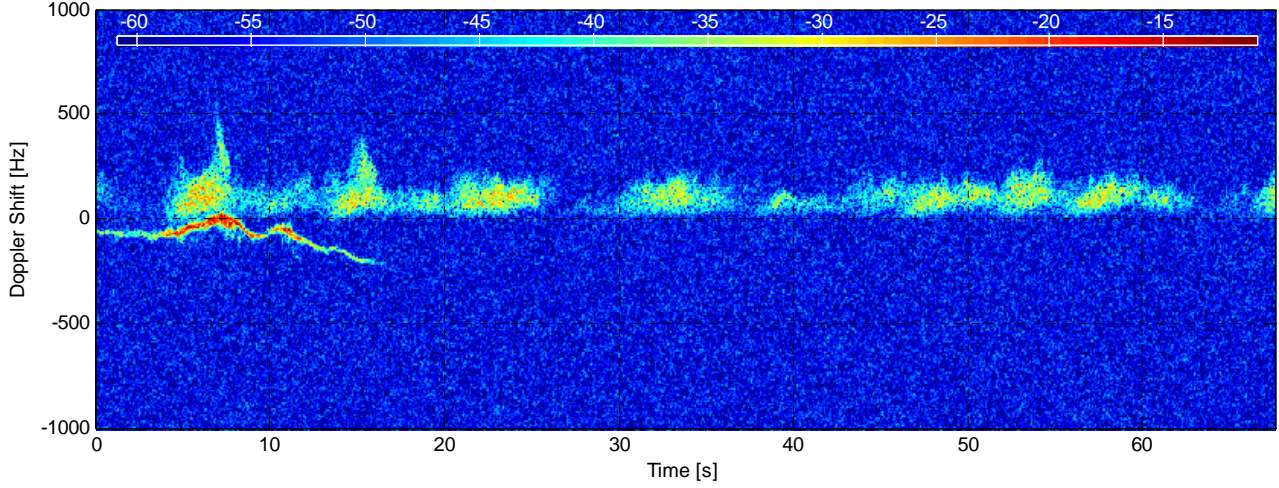
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	14.9 kts, 192.6 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.5633-1.8569i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.4102-2.2409i
8hr Avg. Wind	14.4 kts, 171.7 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.17 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



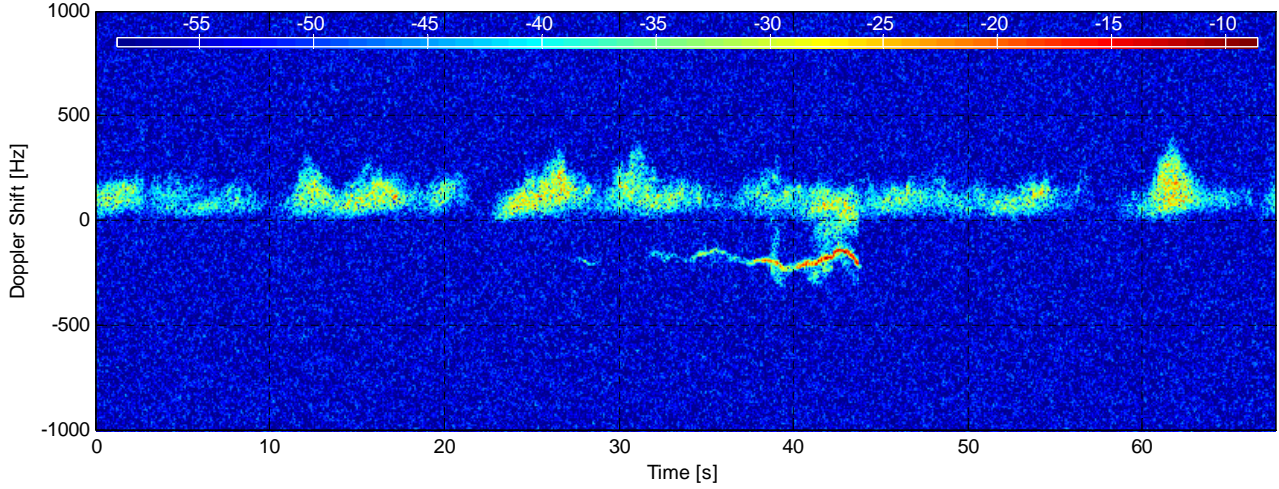
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-038



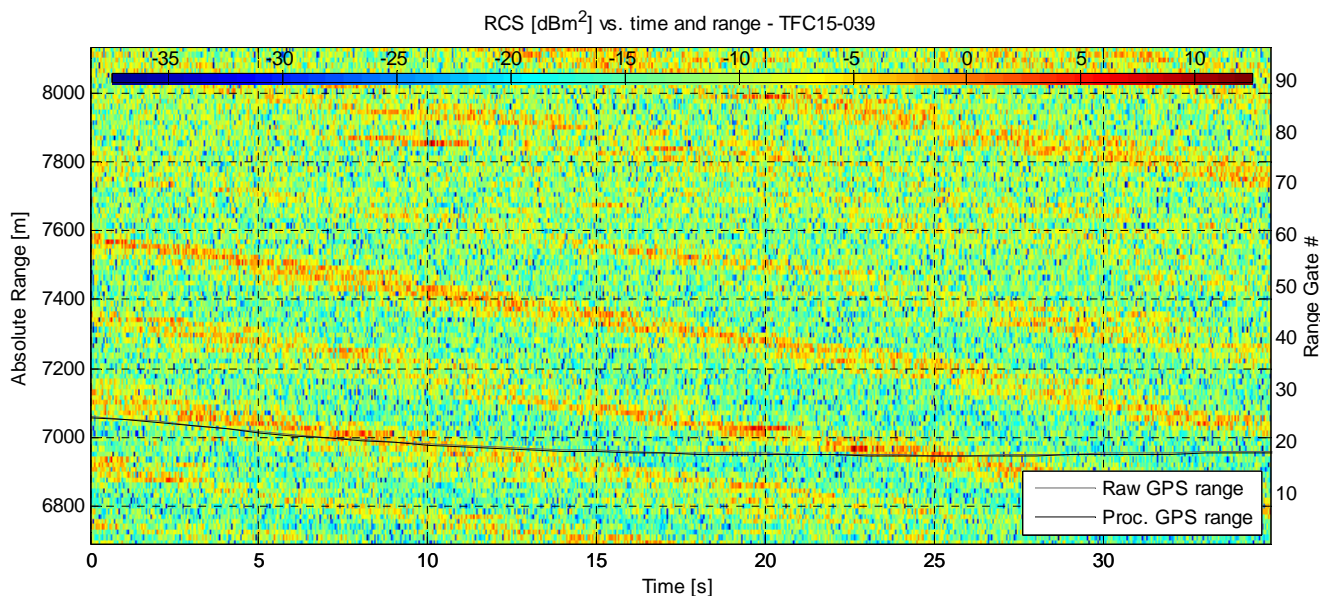
RCS [dBm².Hz⁻¹] at range 6985.3125 m (gate 20) - TFC15-038



RCS [dBm².Hz⁻¹] at range 7075.3125 m (gate 26) - TFC15-038

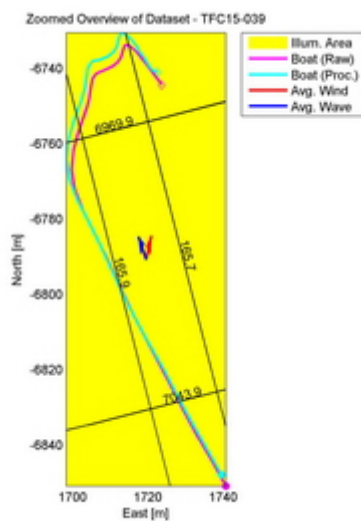
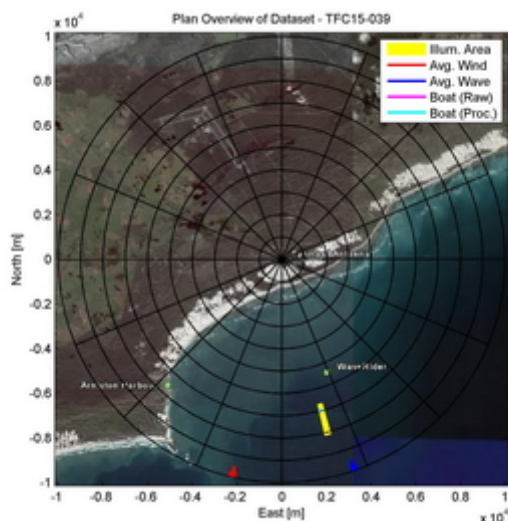


Dataset TFC15-039

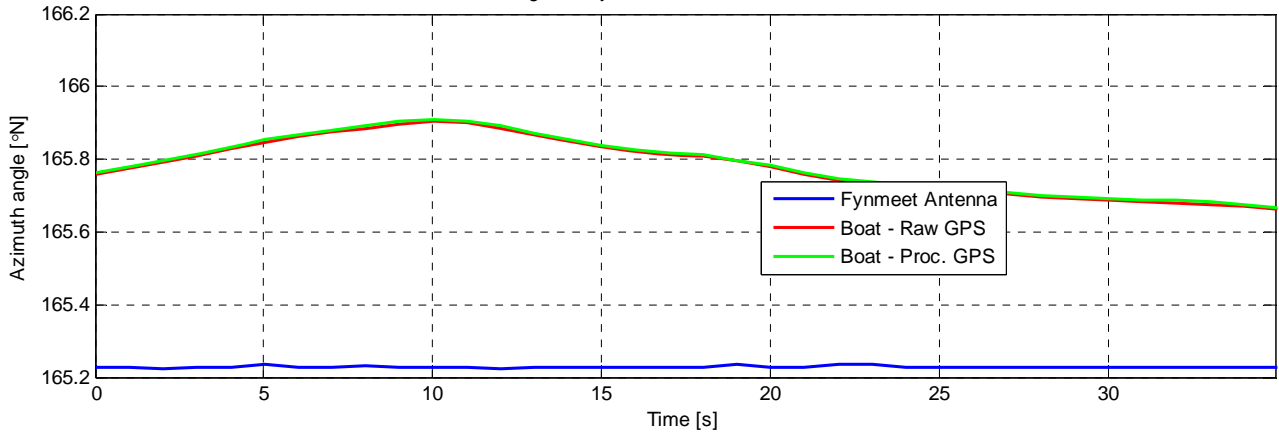


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:25:00.984	Tracking Range	6700.31 m
Duration	174760 PRI's (34.9518 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.053	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs_g_extra_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

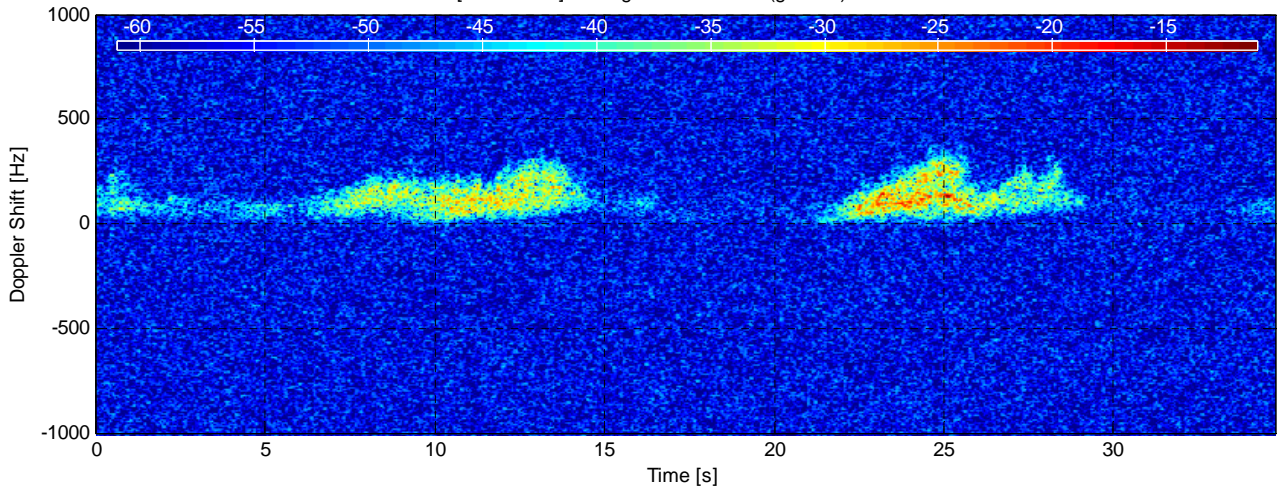
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	14.6 kts, 192.8 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	3.5227-1.7305i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	7.3746-2.2741i
8hr Avg. Wind	14.4 kts, 171.8 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.19 m, 161 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



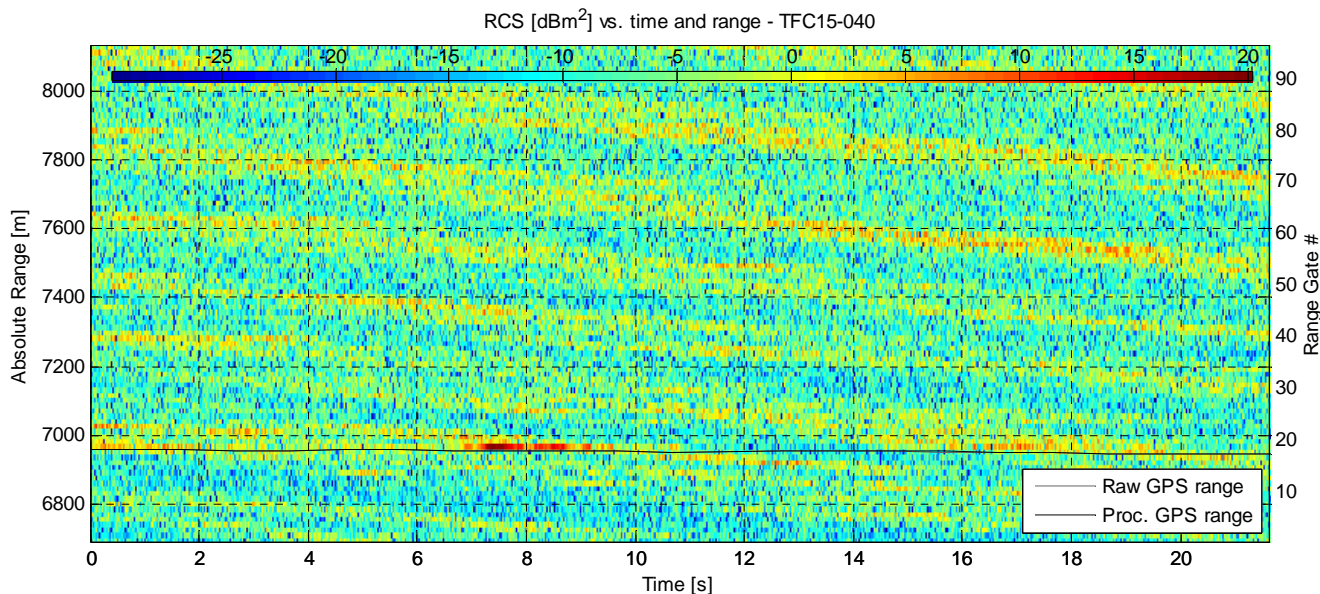
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-039



RCS [dBm².Hz⁻¹] at range 6955.3125 m (gate 18) - TFC15-039

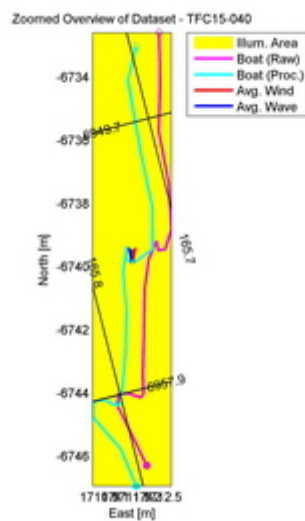
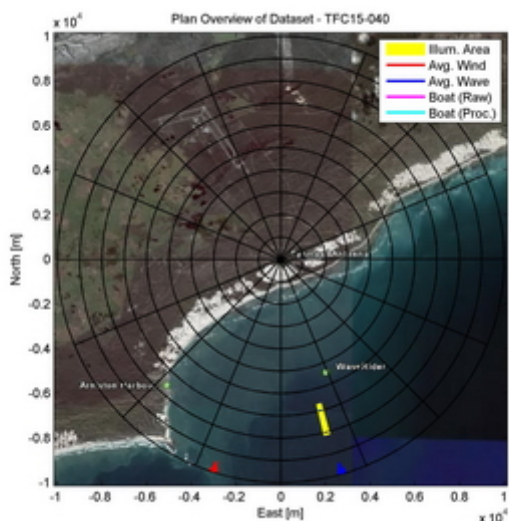


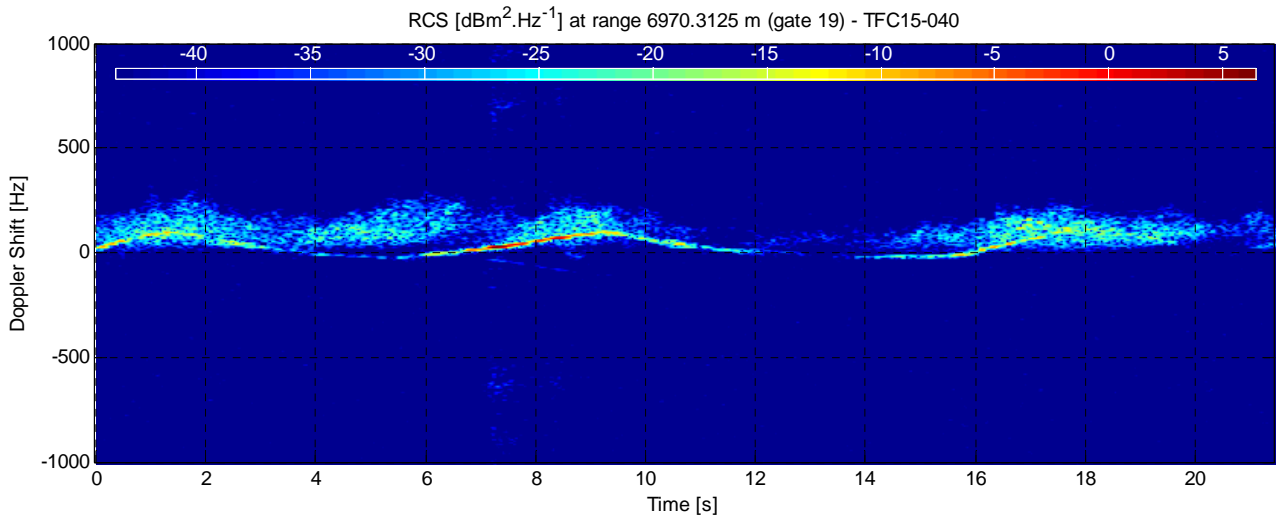
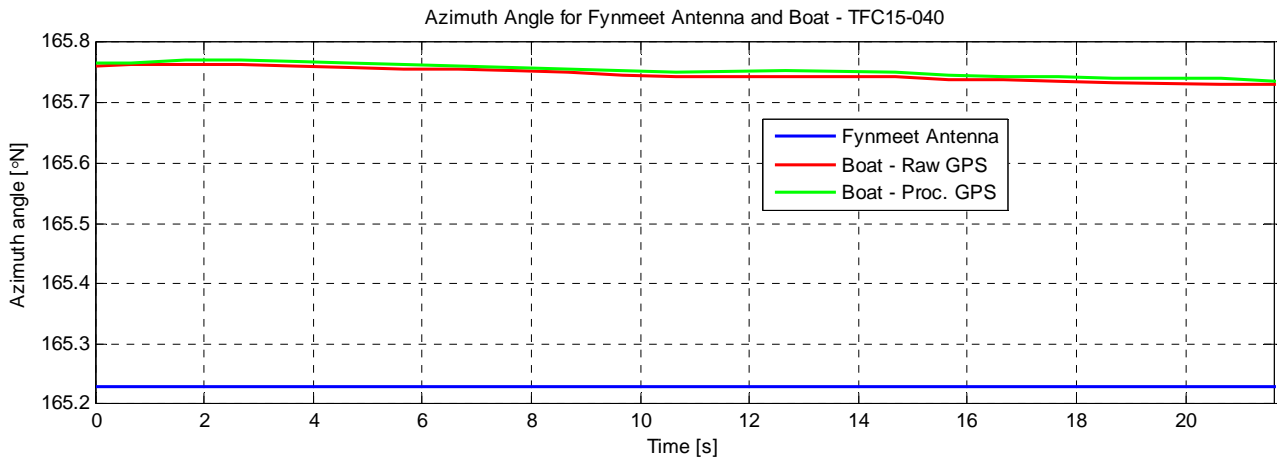
Dataset TFC15-040



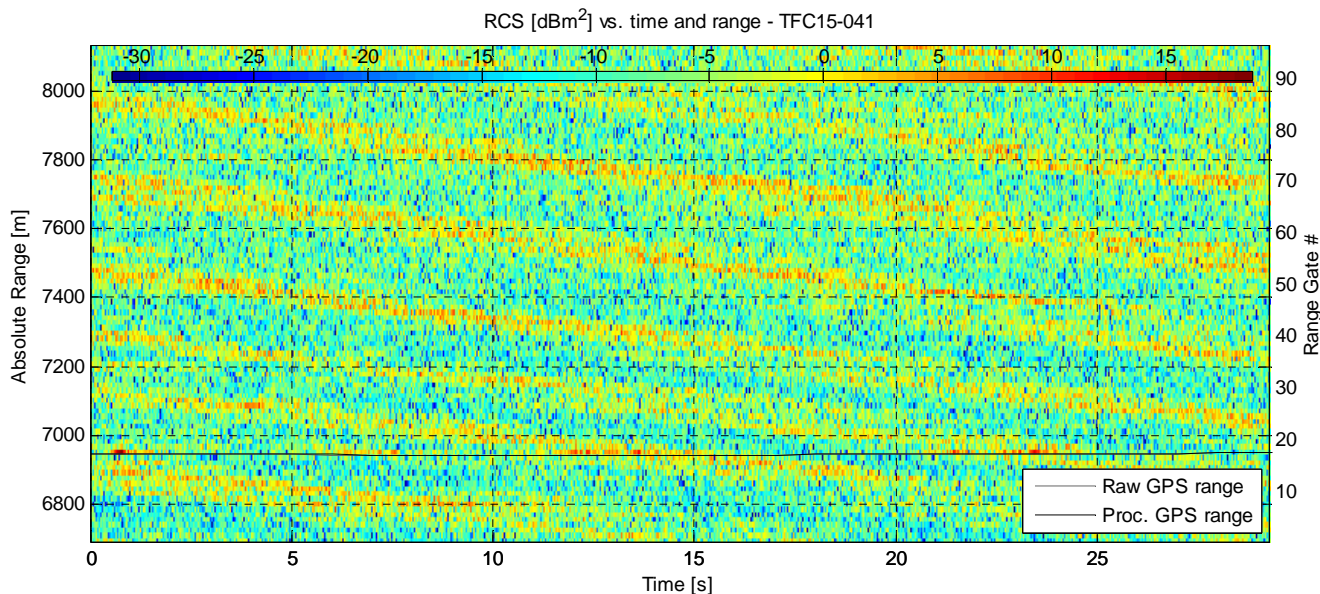
Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:58:39.331	Tracking Range	6700.31 m
Duration	108240 PRI's (21.6478 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.066	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	10.2 kts, 197.4 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2863-1.1138i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.2873-5.0664i
8hr Avg. Wind	14.2 kts, 173.3 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.05 m, 164 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



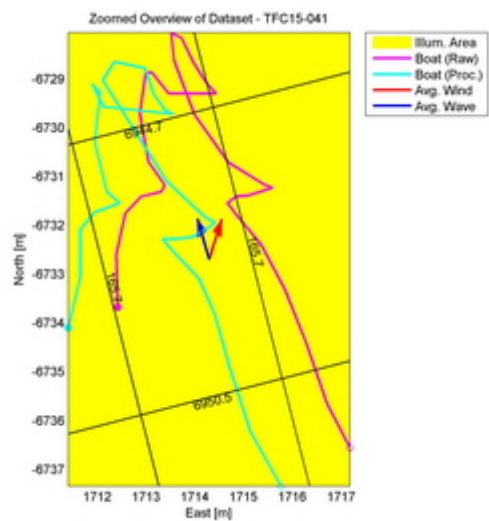
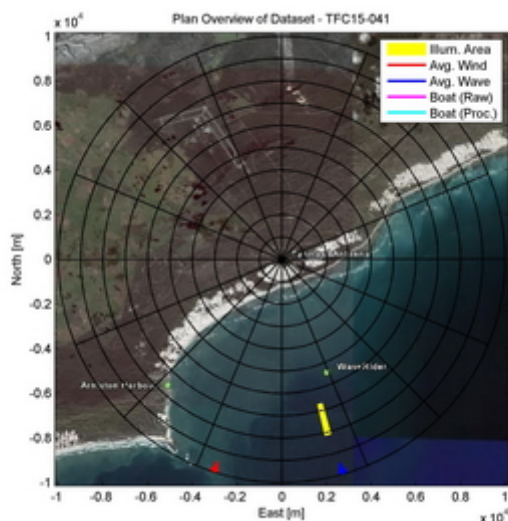


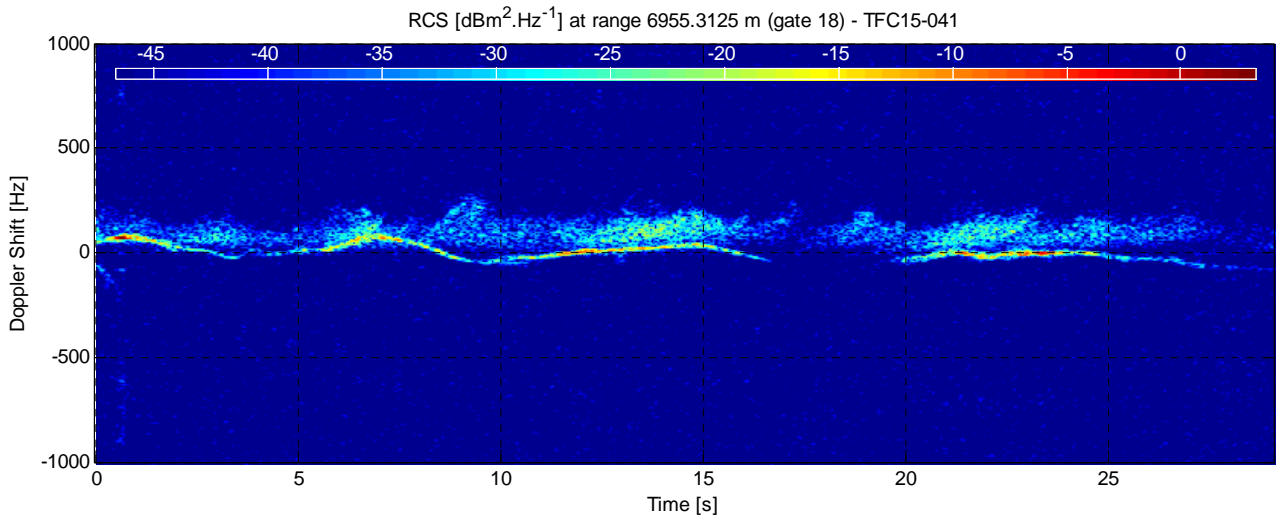
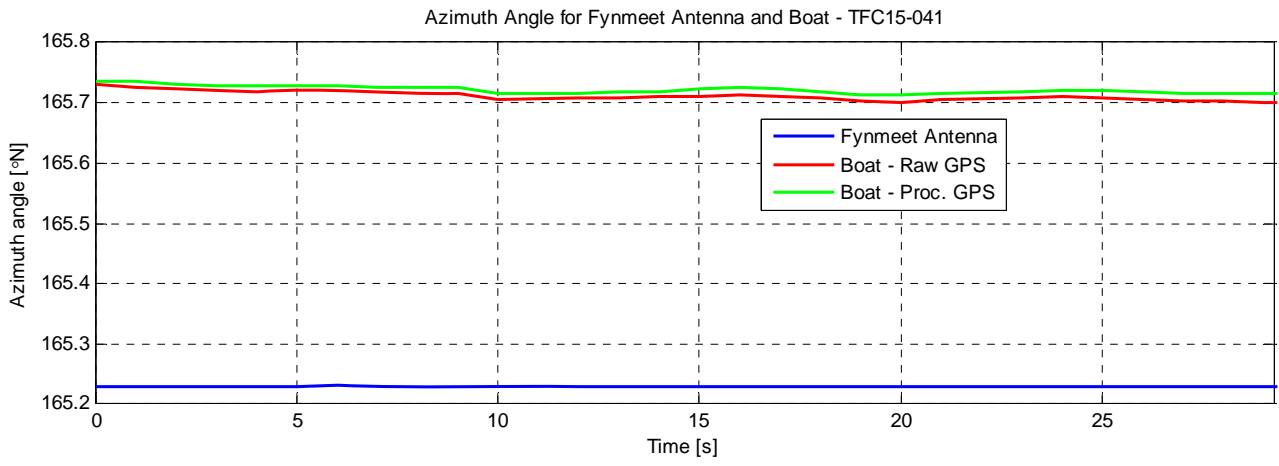
Dataset TFC15-041



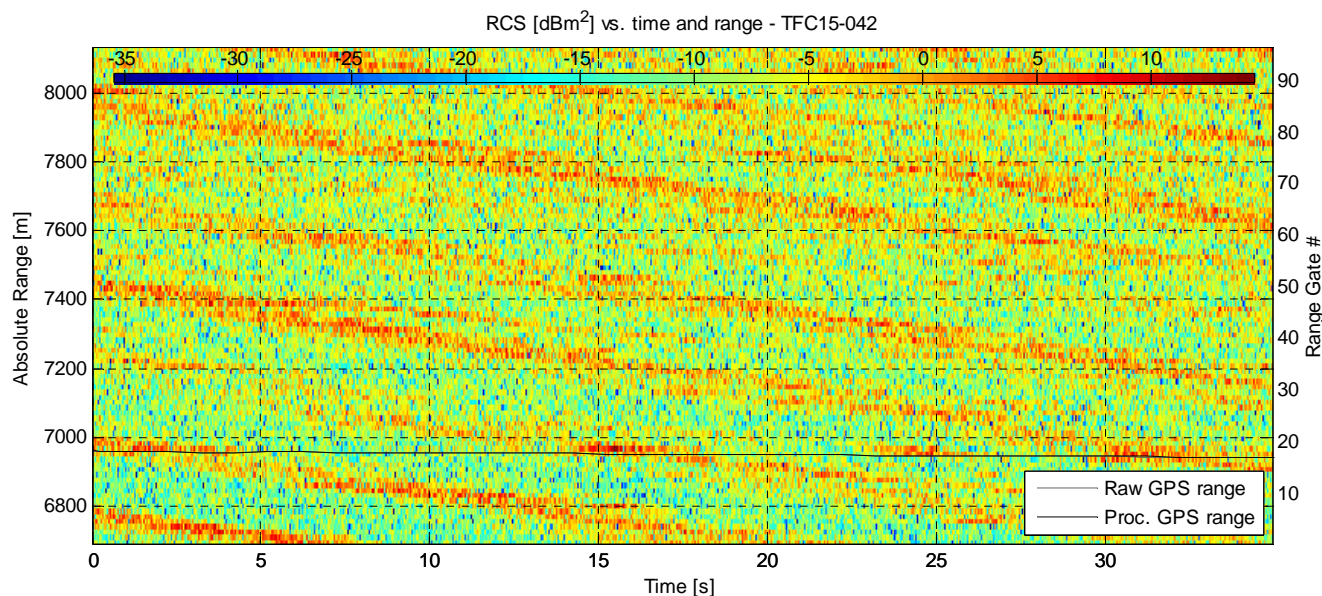
Experiment Summary		Radar Setup	
Value	Value	Value	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	16:59:00.987	Tracking Range	6700.31 m
Duration	146500 PRI's (29.2998 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.066	Waveform Type	Fixed Frequency
Original Path	\\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	10.1 kts, 197.6 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2595-1.1181i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.2866-5.0976i
8hr Avg. Wind	14.2 kts, 173.4 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 164 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



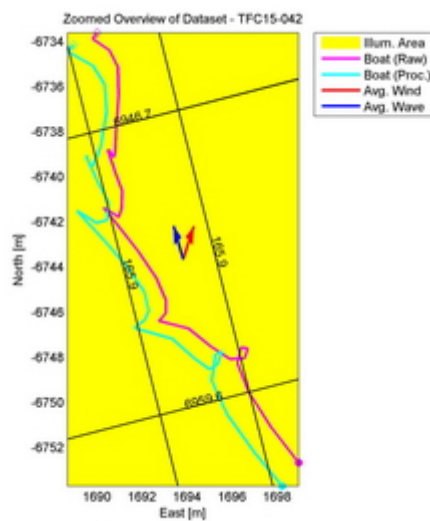
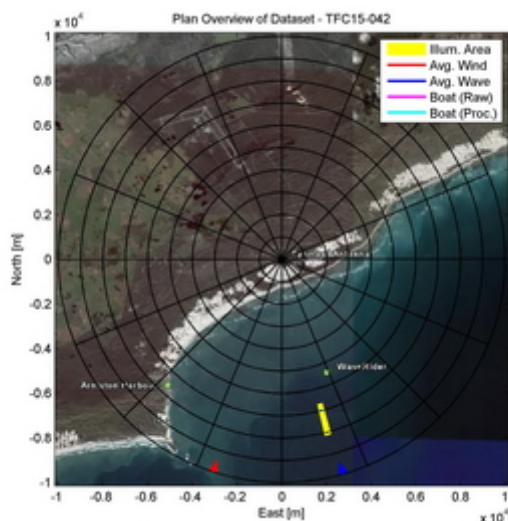


Dataset TFC15-042

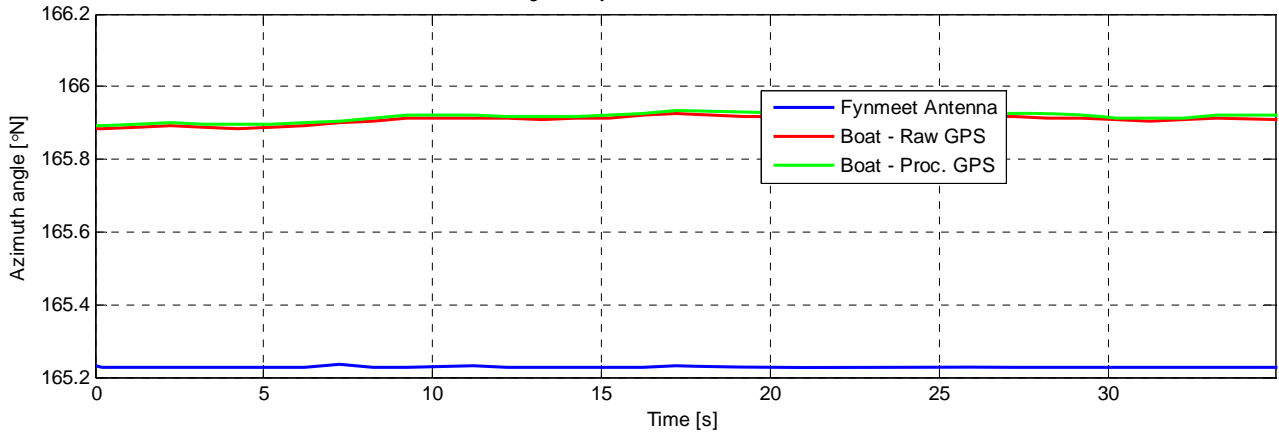


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:00:30.780	Tracking Range	6700.31 m
Duration	174760 PRI's (34.9518 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.067	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

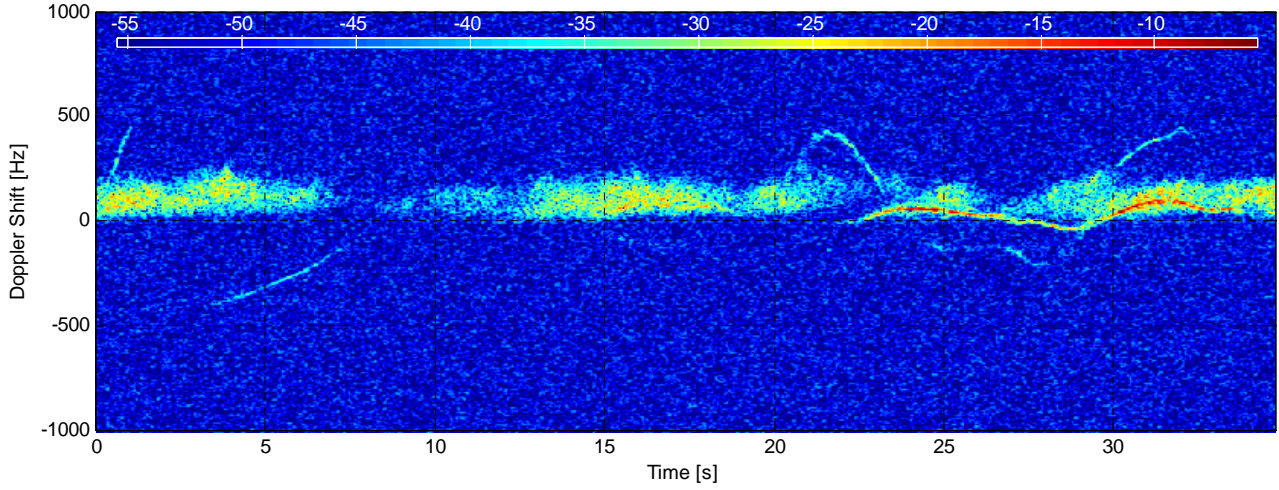
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	10.1 kts, 197.7 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2883-1.0652i
Wind Gust	24.3 kts, 180 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3488-5.1373i
8hr Avg. Wind	14.2 kts, 173.4 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 164 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



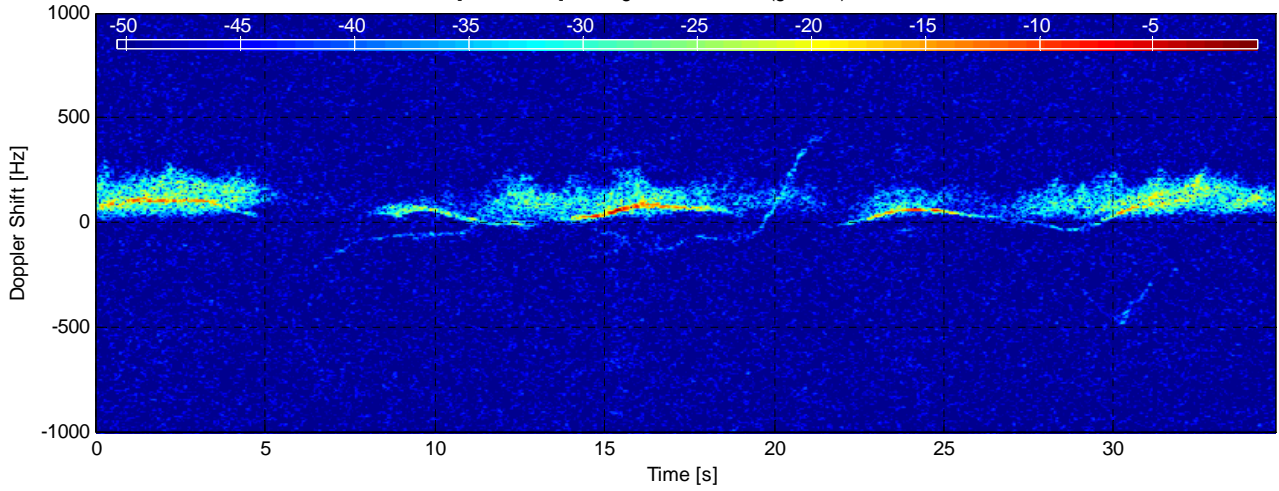
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-042



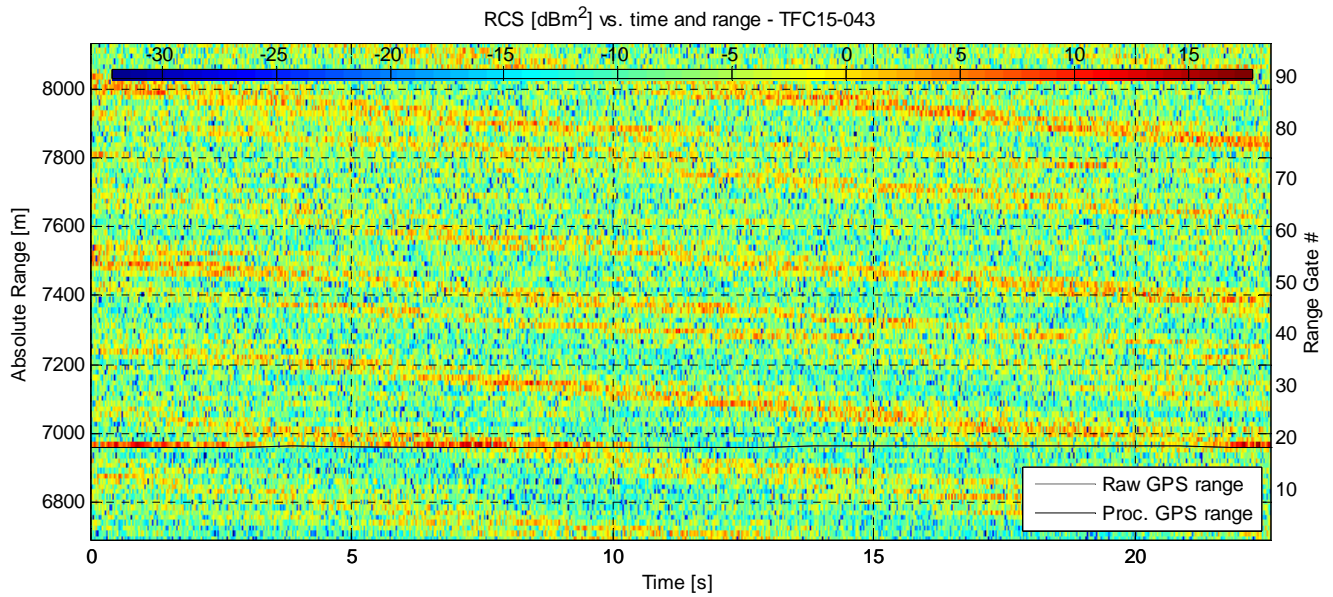
RCS [dBm².Hz⁻¹] at range 6955.3125 m (gate 18) - TFC15-042



RCS [dBm².Hz⁻¹] at range 6970.3125 m (gate 19) - TFC15-042

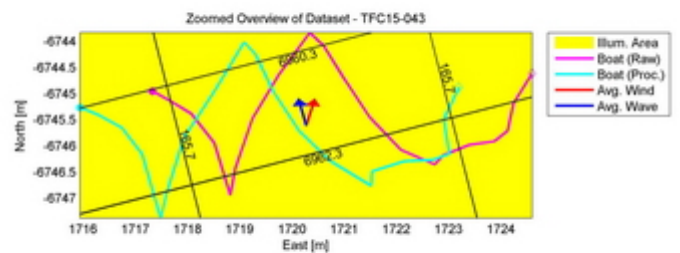
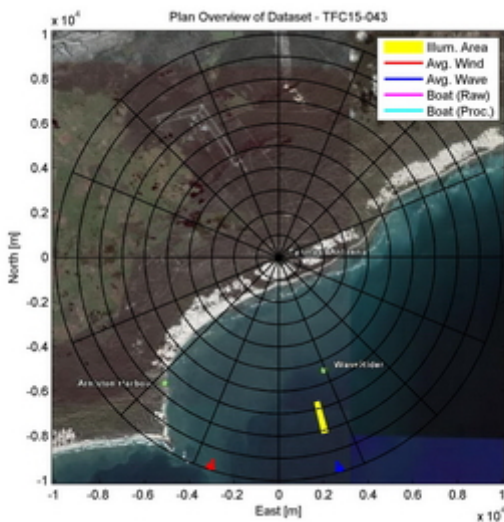


Dataset TFC15-043

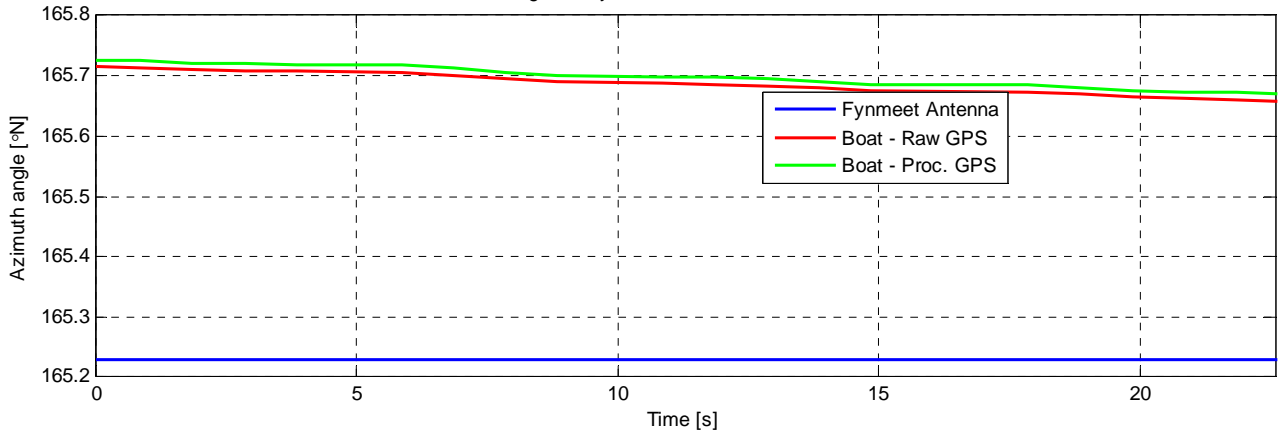


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:02:14.140	Tracking Range	6700.31 m
Duration	112960 PRI's (22.5918 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.068	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

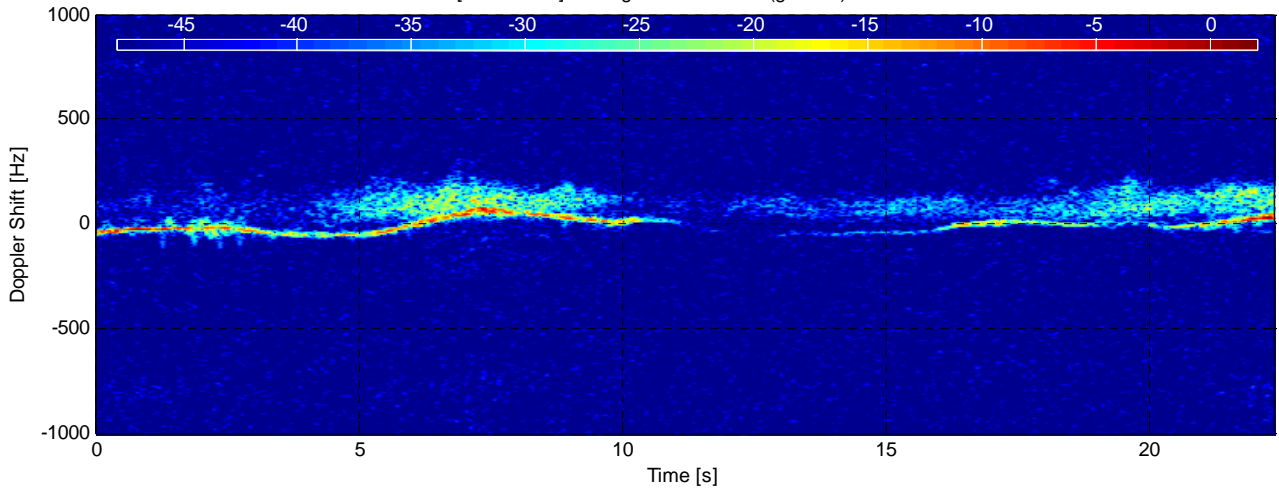
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	9.94 kts, 198 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2403-0.98385i
Wind Gust	24.5 kts, 207 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3331-5.148i
8hr Avg. Wind	14.2 kts, 173.5 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 164 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



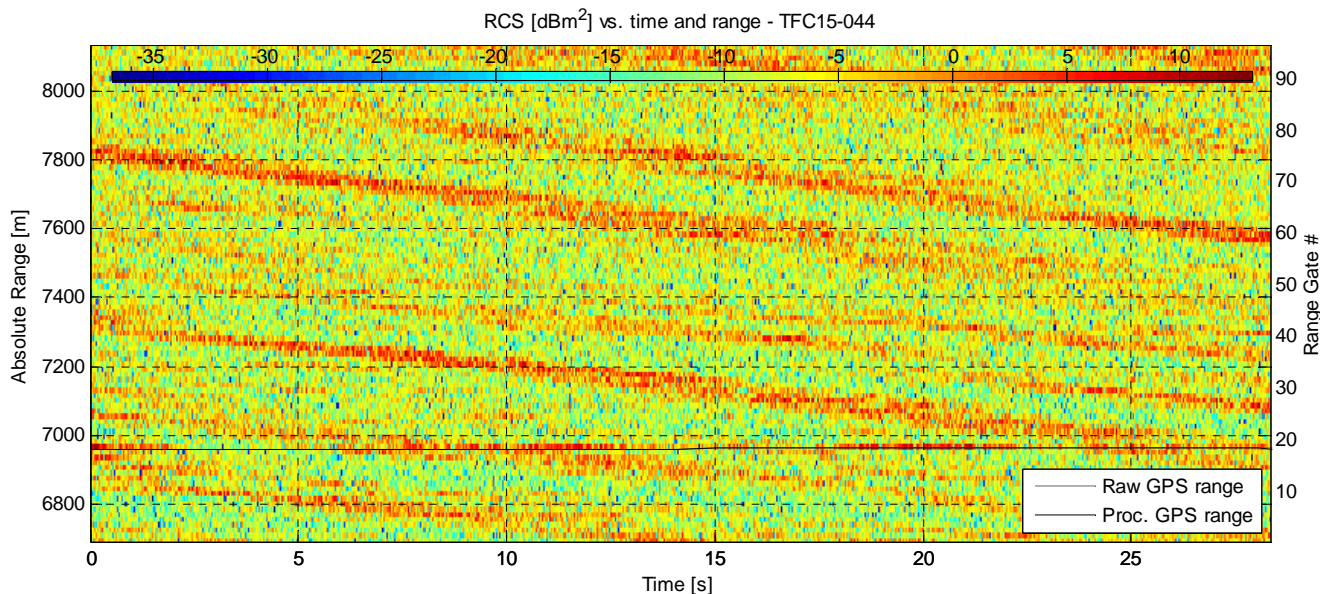
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-043



RCS [dBm².Hz⁻¹] at range 6970.3125 m (gate 19) - TFC15-043

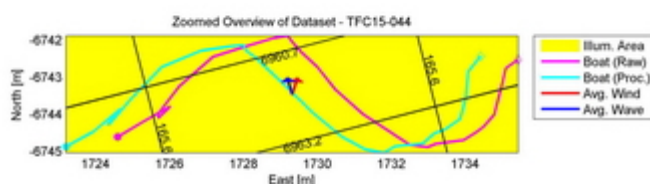
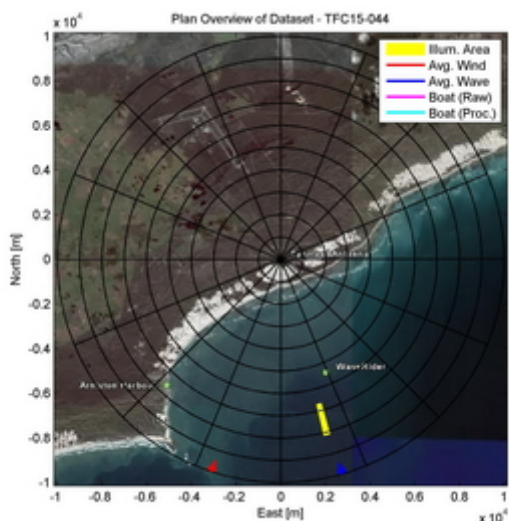


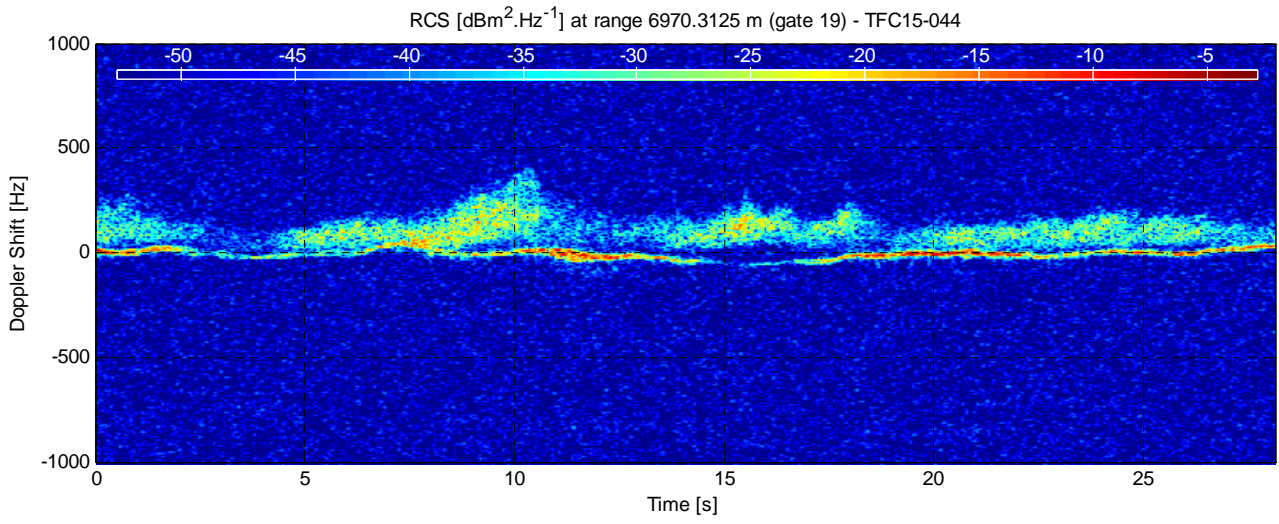
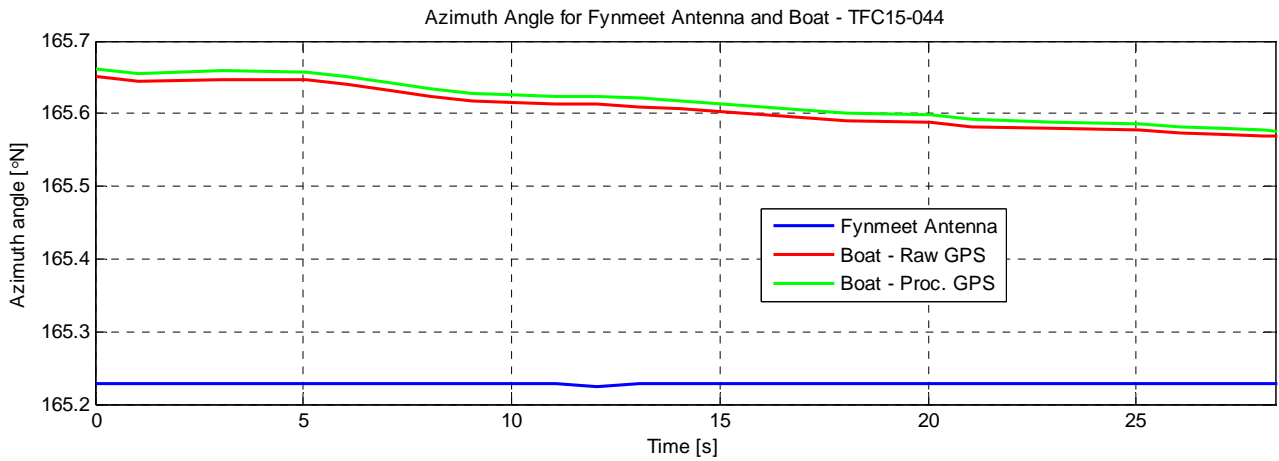
Dataset TFC15-044



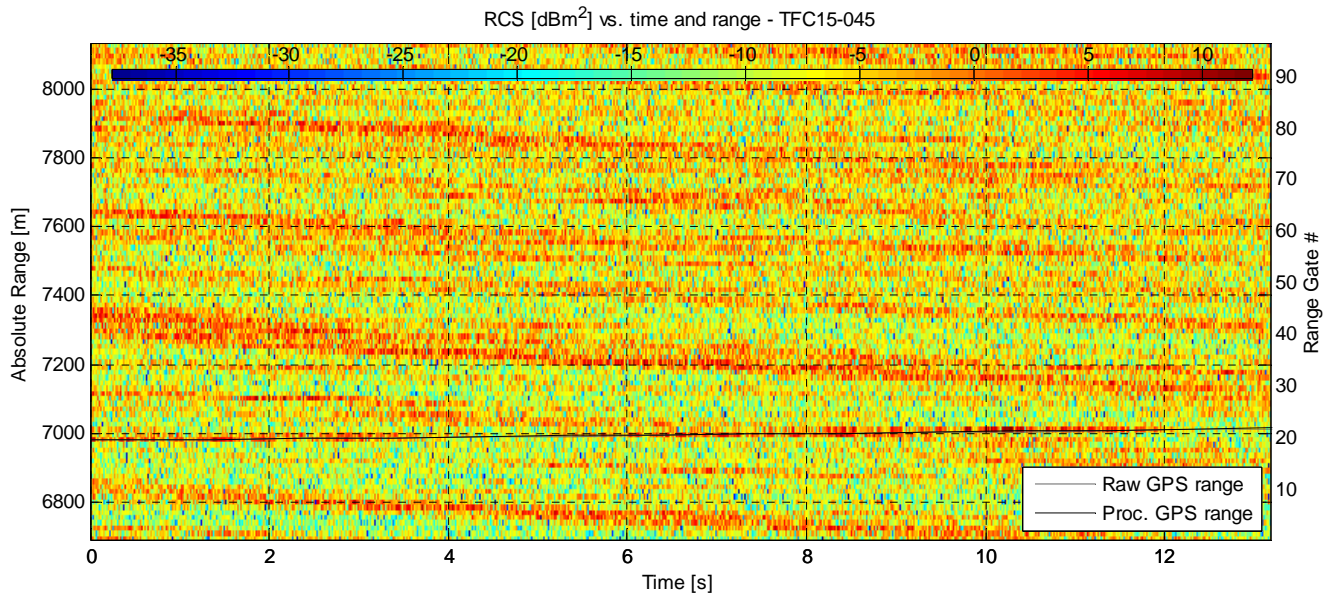
Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:02:37.940	Tracking Range	6700.31 m
Duration	141682 PRI's (28.3362 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.068	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	9.94 kts, 198 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2701-0.96639i
Wind Gust	24.5 kts, 207 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3614-5.1002i
8hr Avg. Wind	14.2 kts, 173.5 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.04 m, 164 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



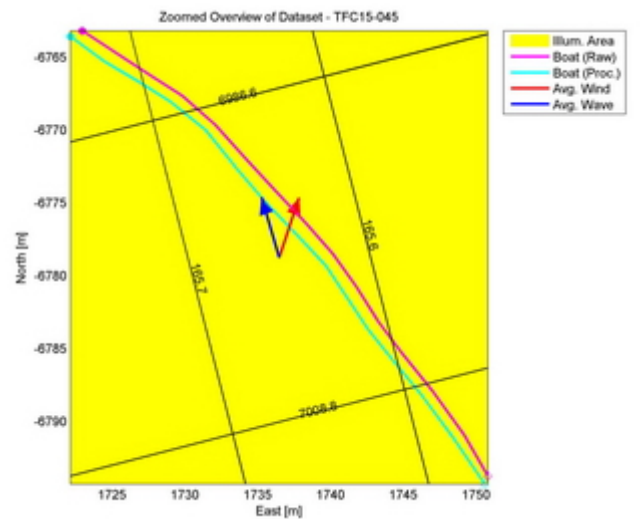
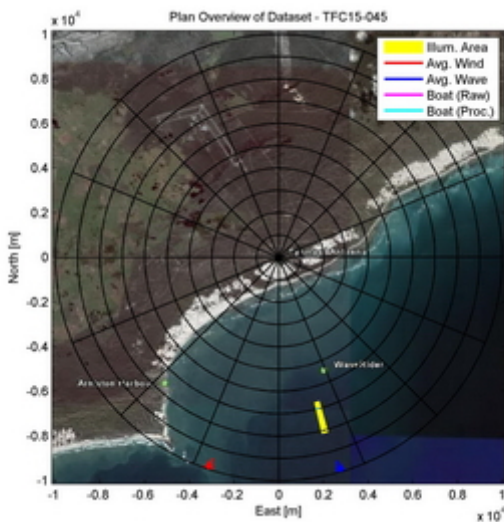


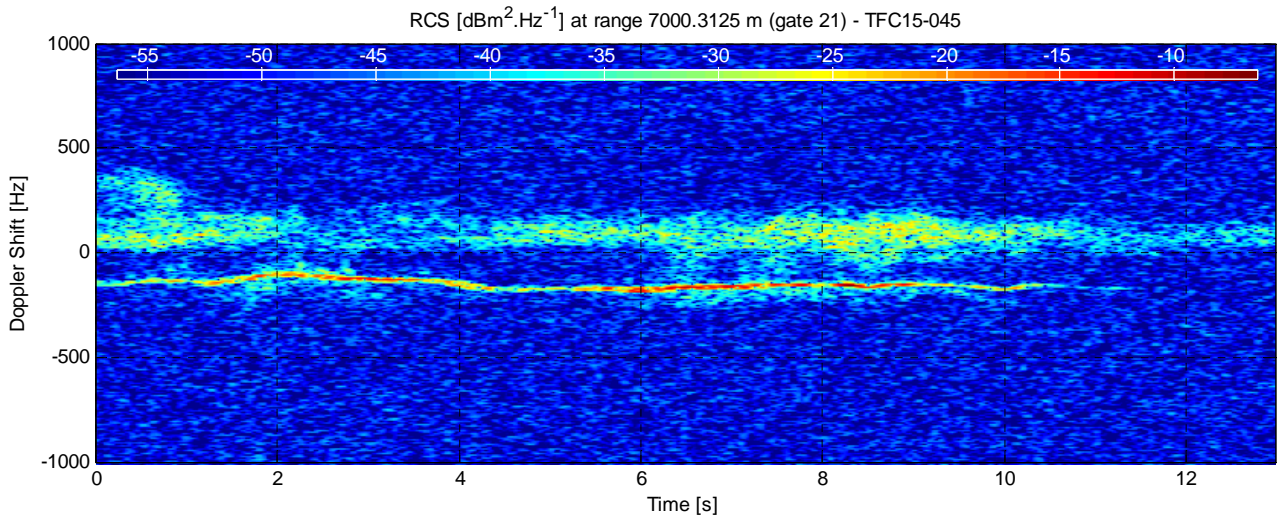
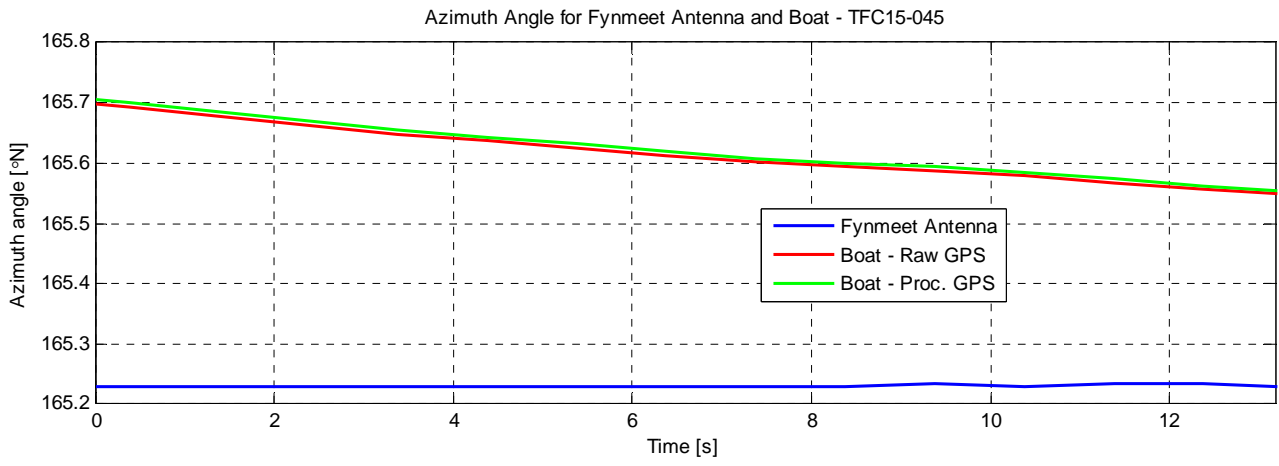
Dataset TFC15-045



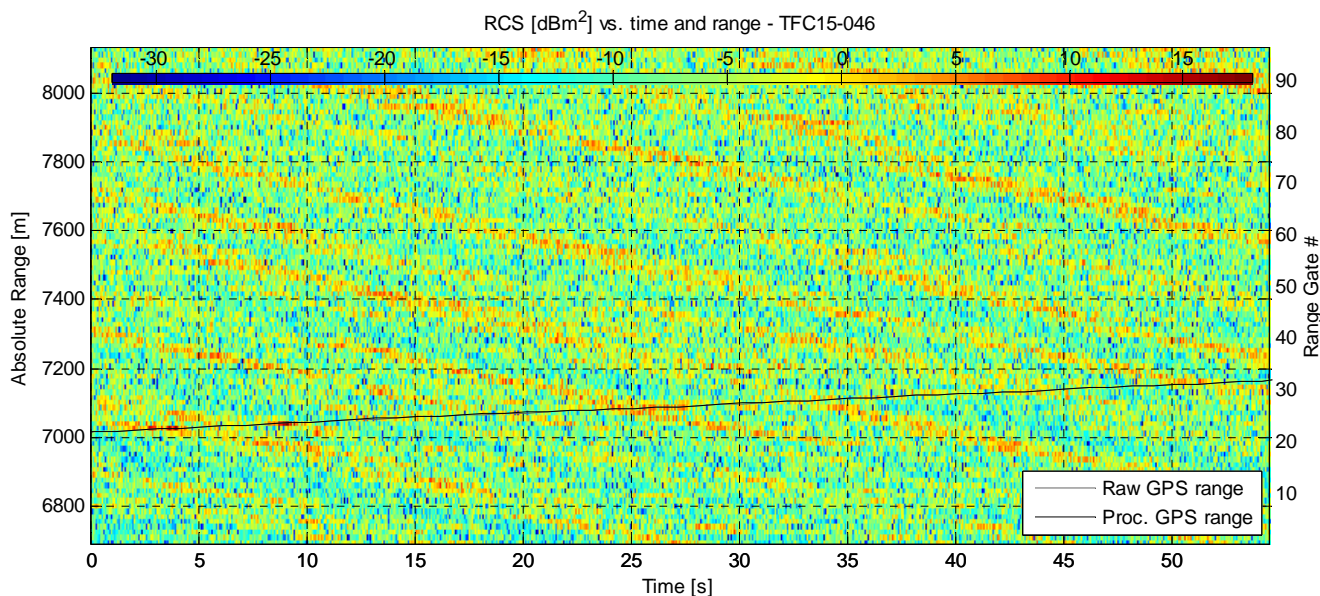
Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:05:05.625	Tracking Range	6700.31 m
Duration	65880 PRI's (13.1758 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.069	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	9.78 kts, 198.4 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.1906-0.91954i
Wind Gust	24.5 kts, 207 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3708-5.1197i
8hr Avg. Wind	14.2 kts, 173.6 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.03 m, 163.9 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



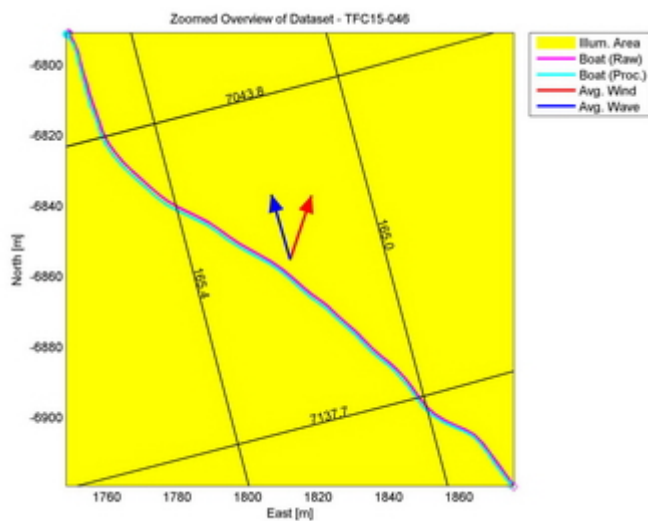
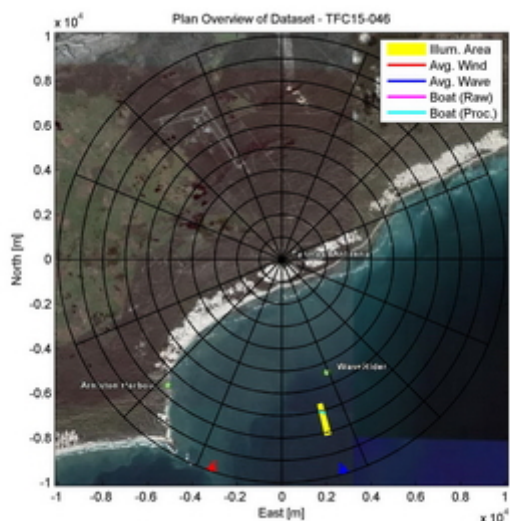


Dataset TFC15-046

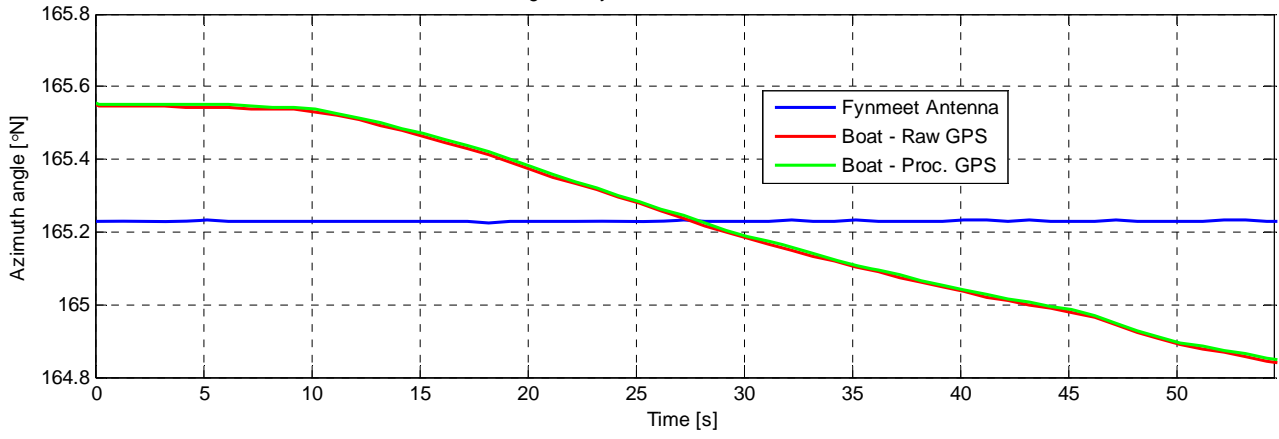


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:05:18.809	Tracking Range	6700.31 m
Duration	272839 PRI's (54.5676 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.069	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

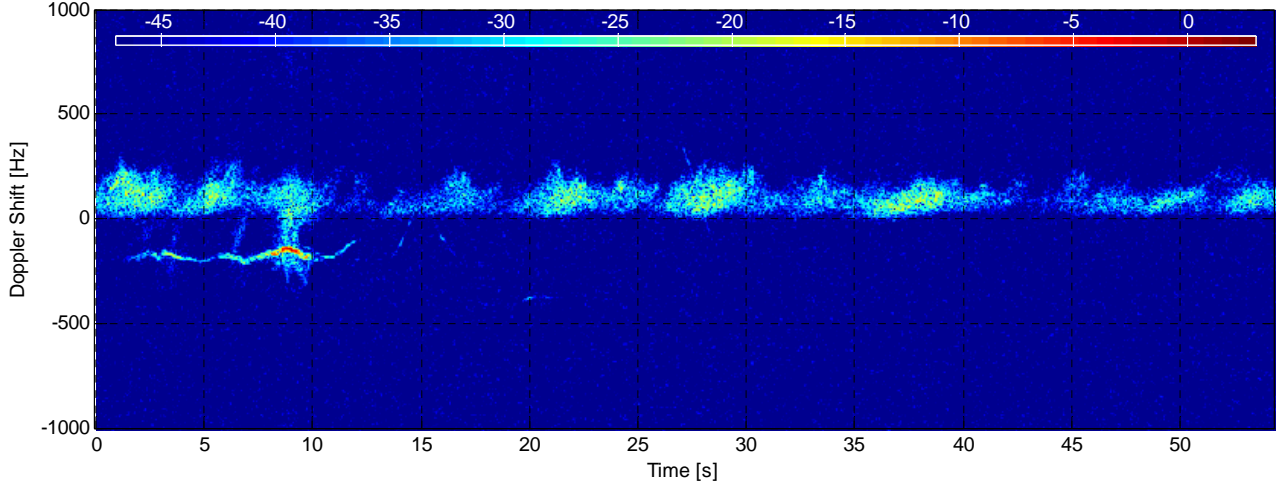
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	9.78 kts, 198.4 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2104-0.95692i
Wind Gust	24.5 kts, 207 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3611-5.0936i
8hr Avg. Wind	14.2 kts, 173.6 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.03 m, 163.9 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



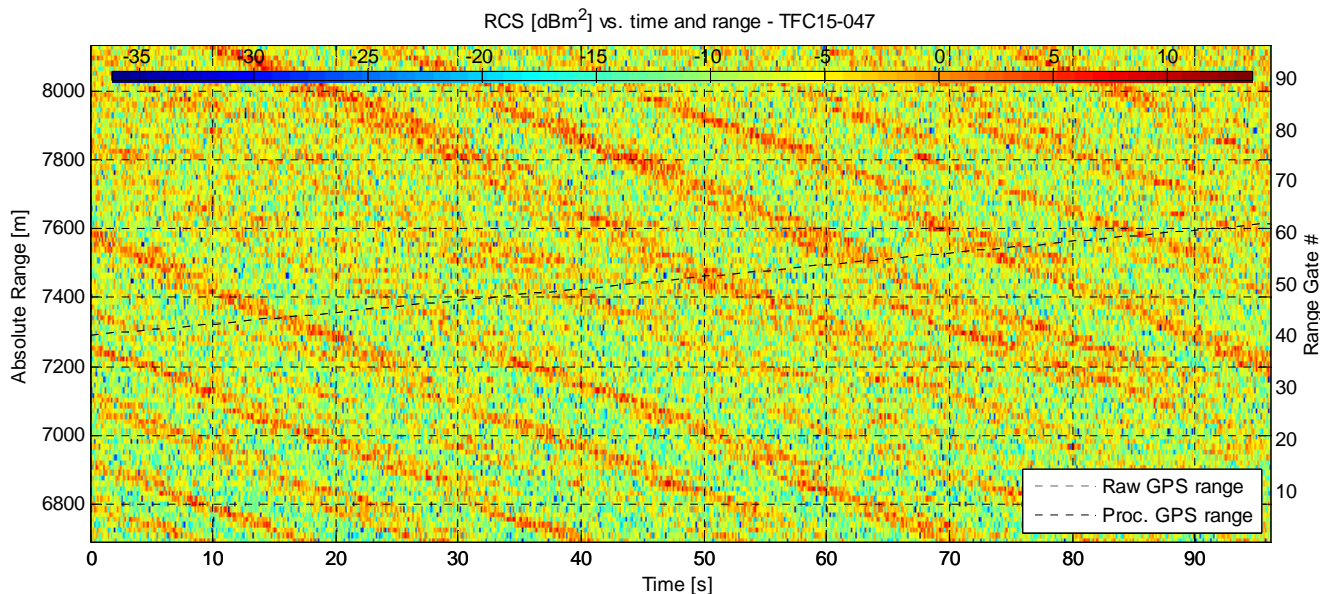
Azimuth Angle for Fynmeet Antenna and Boat - TFC15-046



RCS [dBm².Hz⁻¹] at range 7045.3125 m (gate 24) - TFC15-046

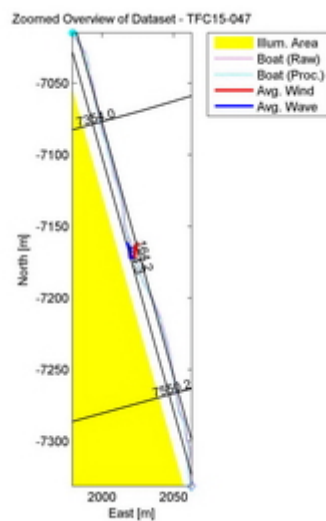
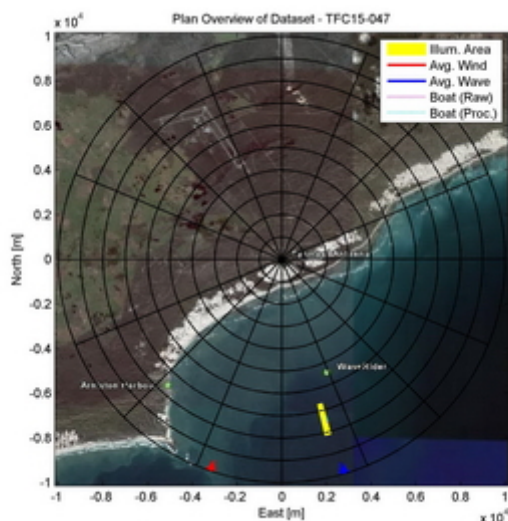


Dataset TFC15-047

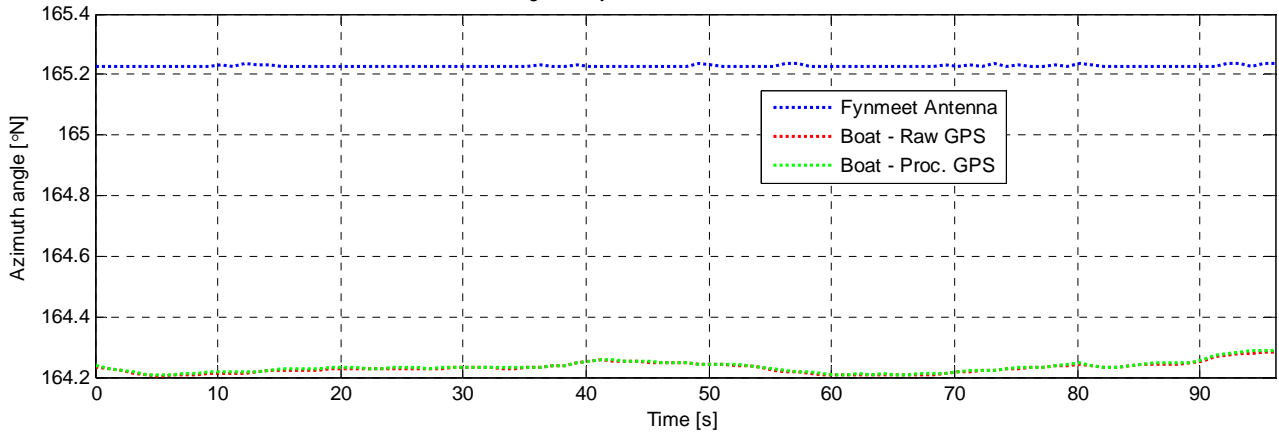


Experiment Summary	Value	Radar Setup	Value
Type	Target	Tx Frequency	9 GHz
Date	01-Aug-2006	PRF	5 kHz
Start Time	17:06:55.780	Tracking Range	6700.31 m
Duration	480590 PRI's (96.1178 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060801.070	Waveform Type	Fixed Frequency
Original Path	\20060801_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	9.73 kts, 198.5 deg. N	Grazing Angle	0.445 - 0.551 deg.	Odd Gates Offset	9.2104-0.87859i
Wind Gust	24.5 kts, 207 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	6.3768-5.0547i
8hr Avg. Wind	14.2 kts, 173.6 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.03 m, 163.8 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Available	Calibr. Coeff.	190.9 dB



Azimuth Angle for Fynmeet Antenna and Boat - TFC15-047



RCS [dBm².Hz⁻¹] at range 7480.3125 m (gate 53) - TFC15-047

