

2006 Fynmeet Sea Clutter Measurement Trial

Dataset Overview for 02-Aug-2006

Dr PL Herselman

2006 Fynmeet Sea Clutter Measurement Trial : Dataset Overview for 02-Aug-2006

by Dr PL Herselman

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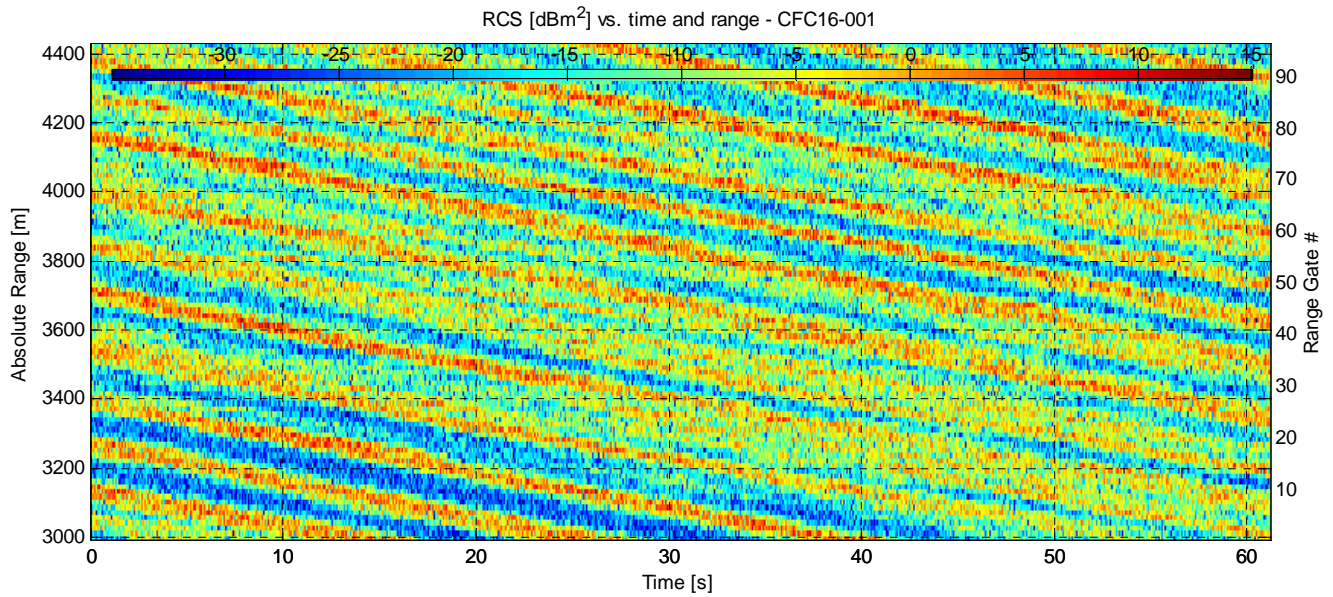
This document provides an overview for the datasets (or subset thereof) recorded on 02-Aug-2006 as part of the Fynmeet Sea Clutter Measurement Trial conducted at the Overberg Test Range at Arniston, South Africa. The trial was conducted over the period from 18 July to 4 August 2006. These datasets have 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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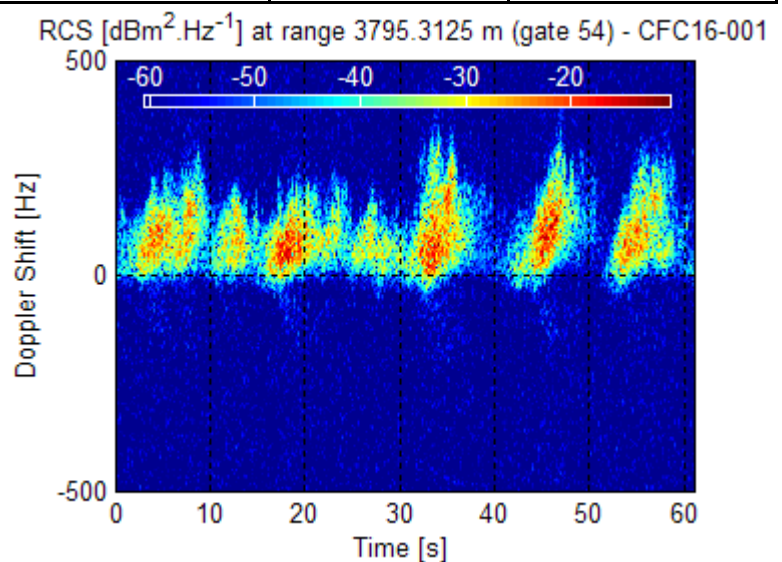
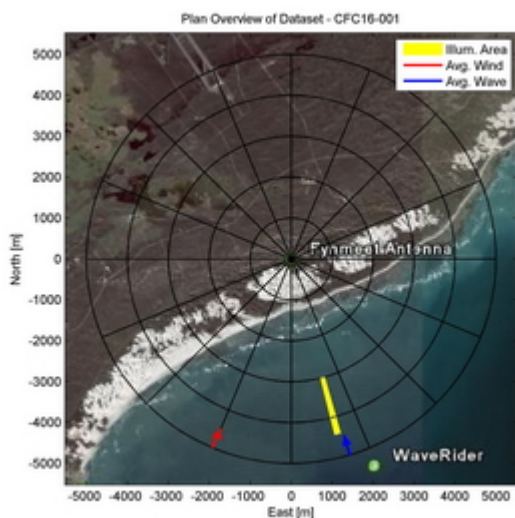
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Dataset CFC16-001

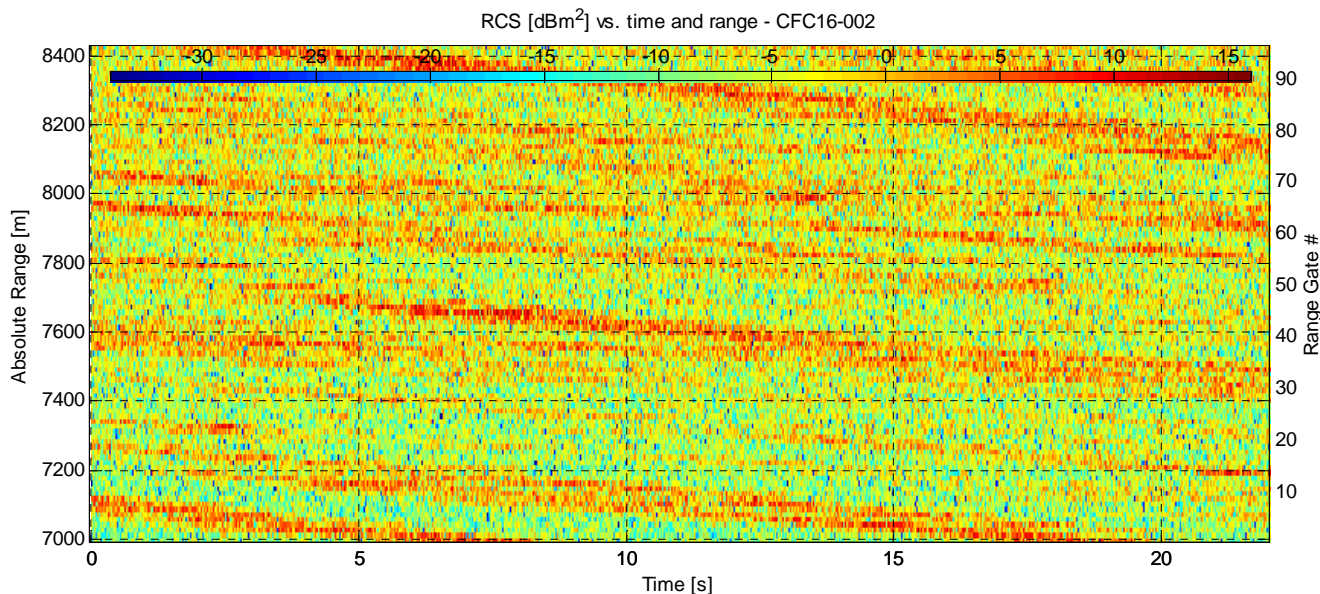


Experiment Summary		Radar Setup	
Type	Value	Tx Frequency	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	10:51:15.750	Tracking Range	3000.31 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.042	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.21	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.7 kts, 202.7 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	-4.5978-2.0078i
Wind Gust	26.8 kts, 218 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	4.1873-3.8794i
8hr Avg. Wind	12 kts, 201.7 deg. N	Antenna Elv.	-1.187 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.39 m, 163.2 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

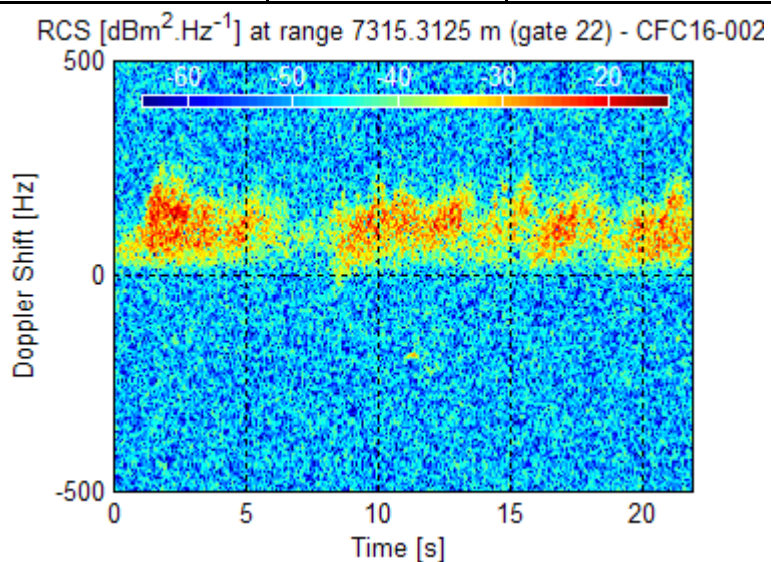
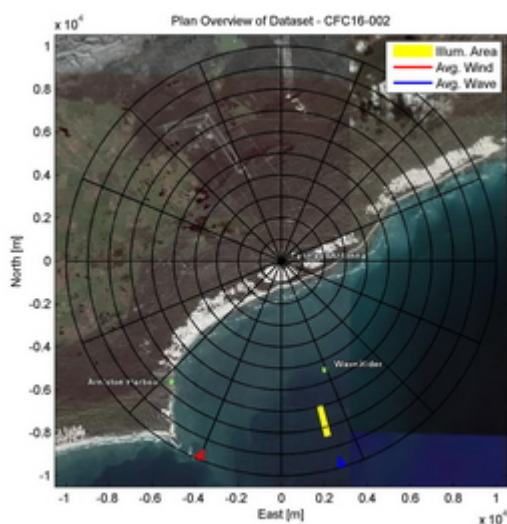


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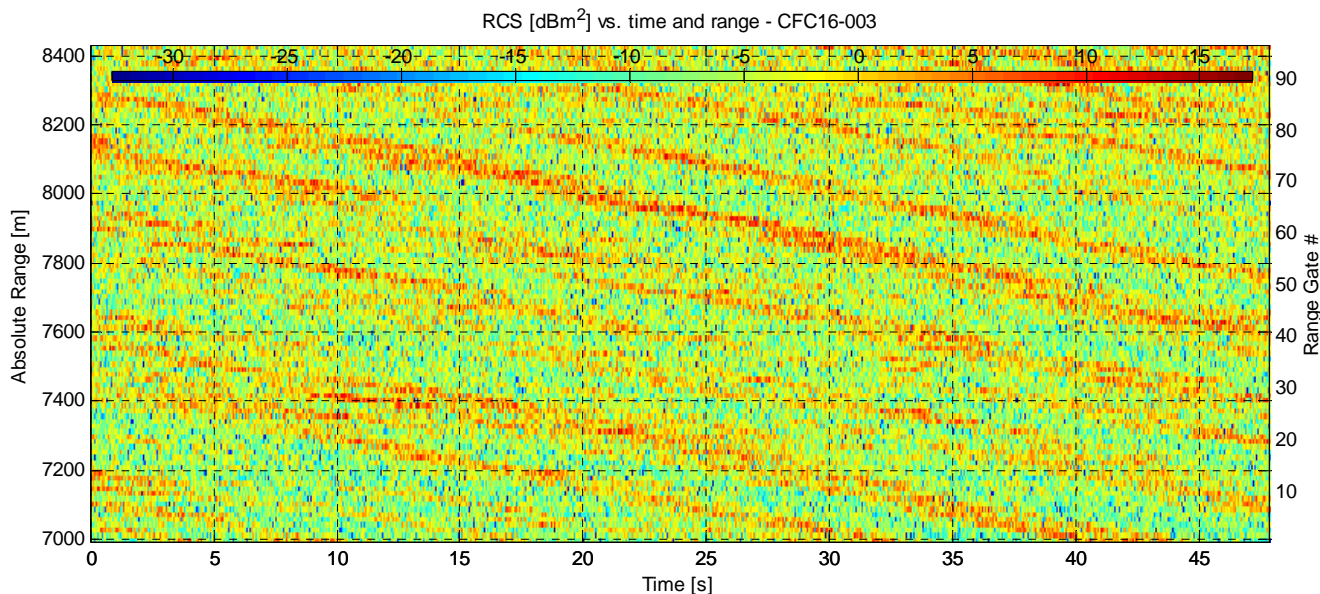


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	10:52:42.562	Tracking Range	7000.31 m
Duration	110080 PRI's (22.0158 s)	Range Extend	1440 m (96 gates), 15 m res.
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Original Path	\20060802_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.21	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.8 kts, 202.6 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	4.3942-3.994i
Wind Gust	26.8 kts, 218 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	-4.4504-2.1124i
8hr Avg. Wind	12 kts, 201.7 deg. N	Antenna Elv.	-1.195 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.39 m, 163.4 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

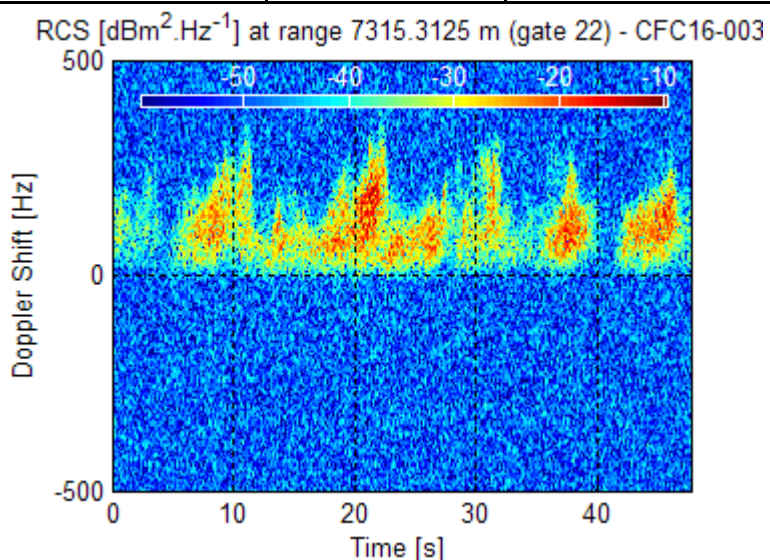
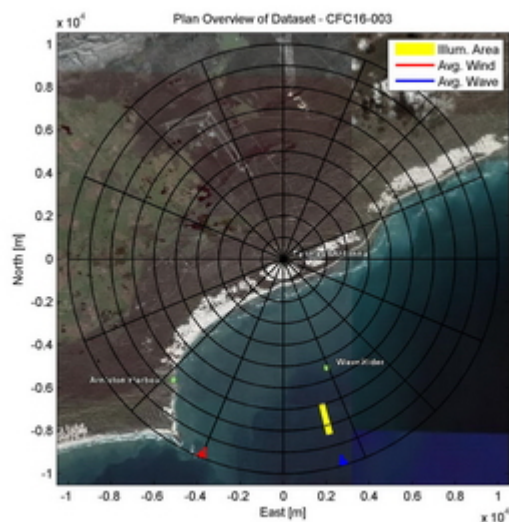


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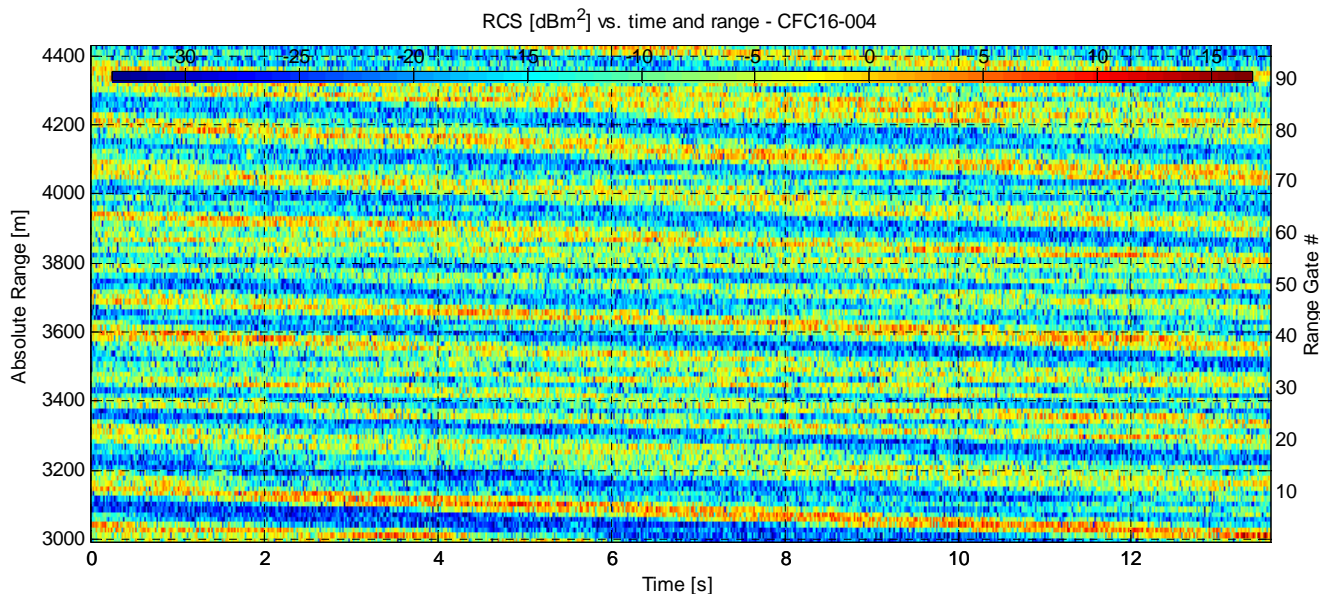


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	10:53:04.586	Tracking Range	7000.31 m
Duration	239400 PRI's (47.8798 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.043	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.21	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	15.8 kts, 202.6 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	4.3846-3.9767i
Wind Gust	26.8 kts, 218 deg. N	Antenna Azm.	165.2 deg. N	Even Gates Offset	-4.4595-2.1075i
8hr Avg. Wind	12 kts, 201.6 deg. N	Antenna Elv.	-1.195 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.4 m, 163.5 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

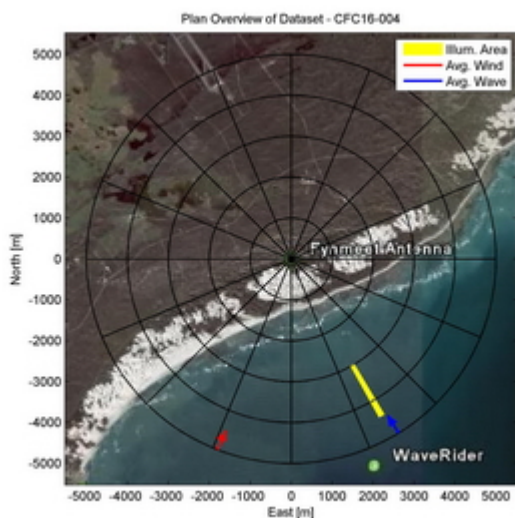


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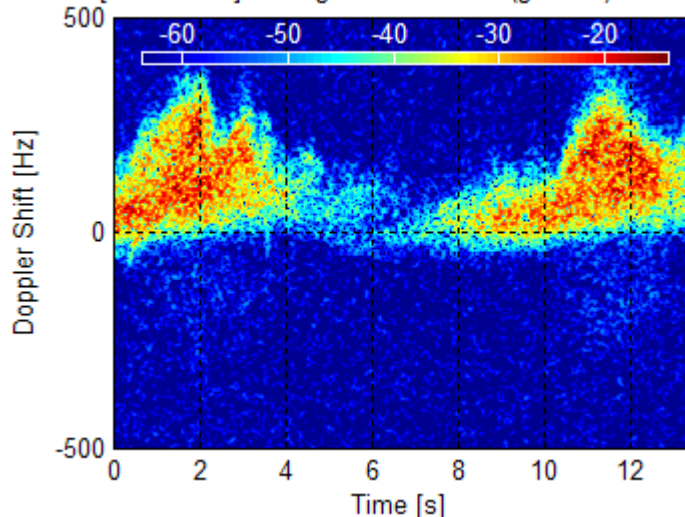


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:21:57.312	Tracking Range	3000.31 m
Duration	67960 PRI's (13.5918 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.047	Waveform Type	Fixed Frequency
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Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

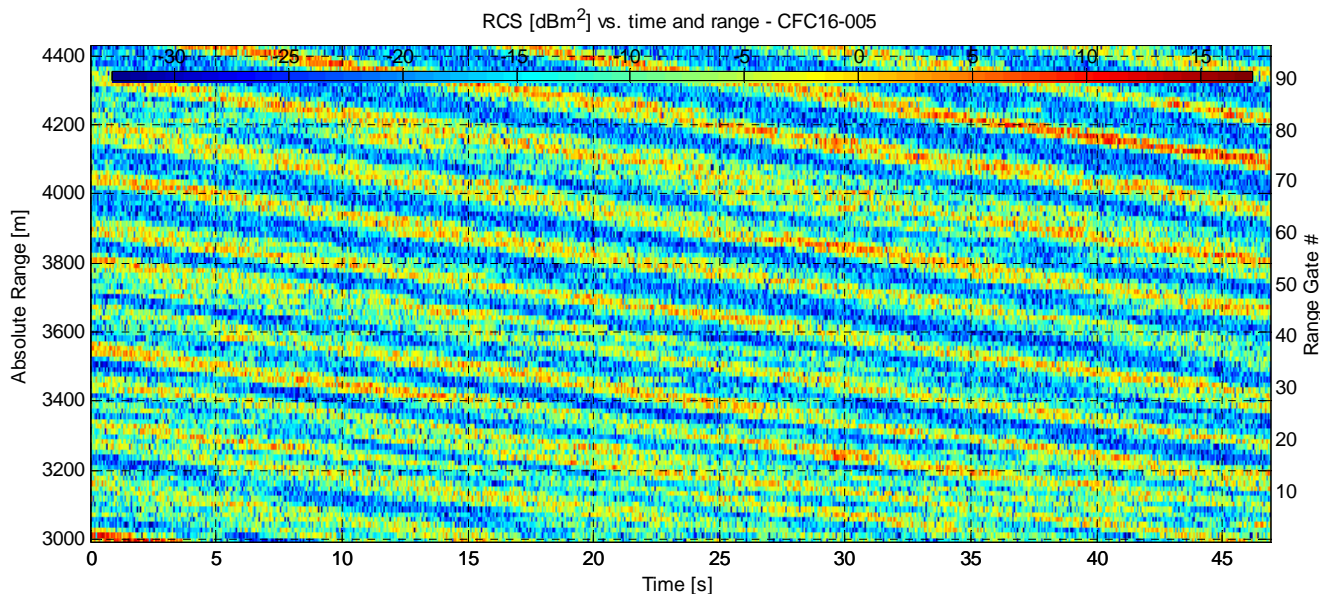
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.2 kts, 201.1 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	-4.2846-1.1309i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	150.1 deg. N	Even Gates Offset	3.9716-4.4799i
8hr Avg. Wind	12.3 kts, 201.2 deg. N	Antenna Elv.	-1.159 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.5 m, 149.1 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB



RCS [dBm².Hz⁻¹] at range 3585.3125 m (gate 40) - CFC16-004

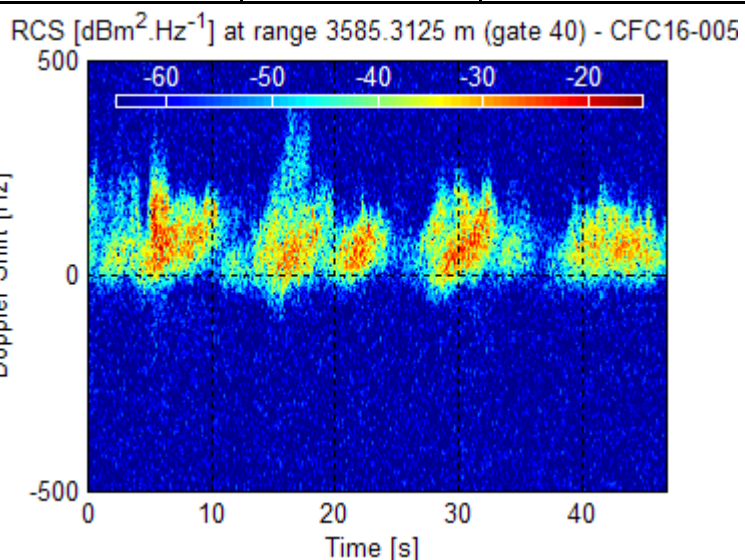
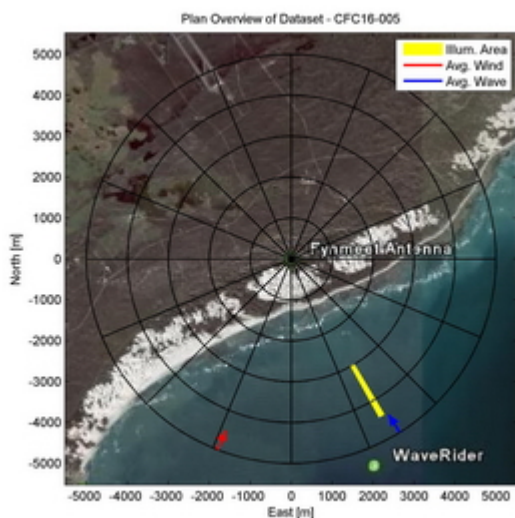


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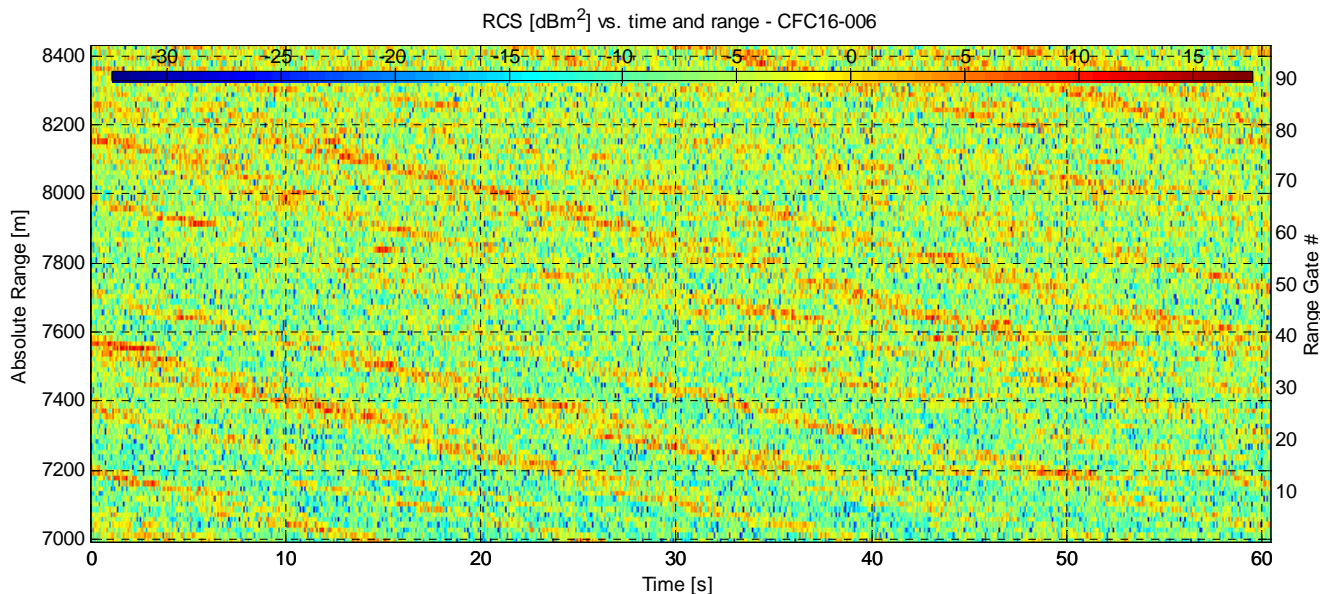


Experiment Summary		Radar Setup	
Type	Value	Tx Frequency	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:22:10.912	Tracking Range	3000.31 m
Duration	234359 PRI's (46.8716 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.047	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs_contd_2	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, 201.1 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	-4.3829-1.0314i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	150.1 deg. N	Even Gates Offset	3.9511-4.3469i
8hr Avg. Wind	12.4 kts, 201.1 deg. N	Antenna Elv.	-1.159 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.51 m, 148.3 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

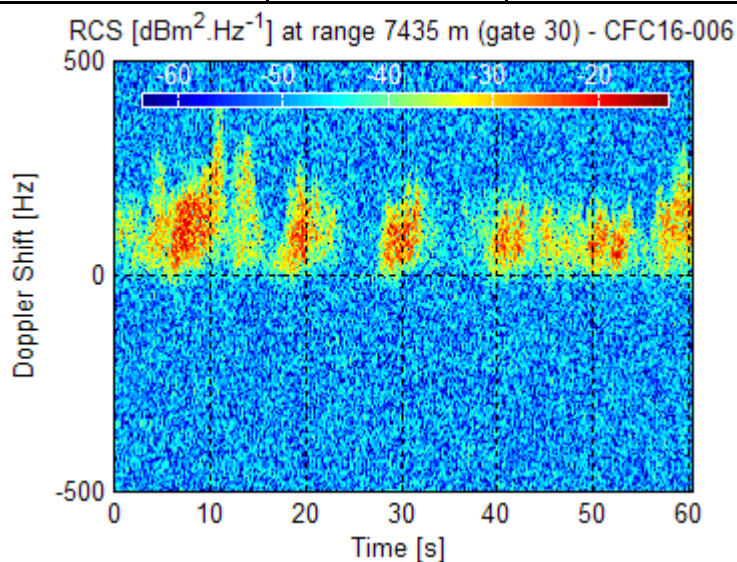
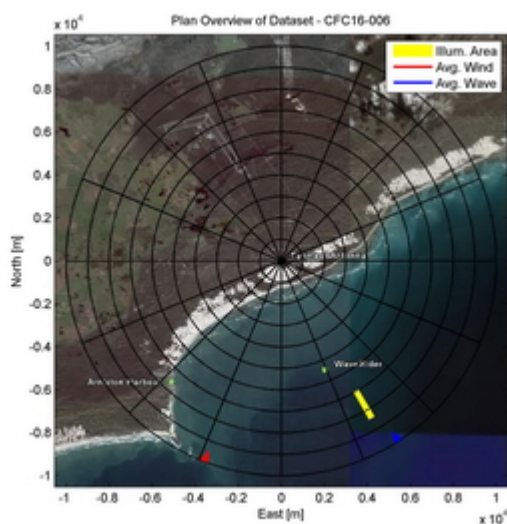


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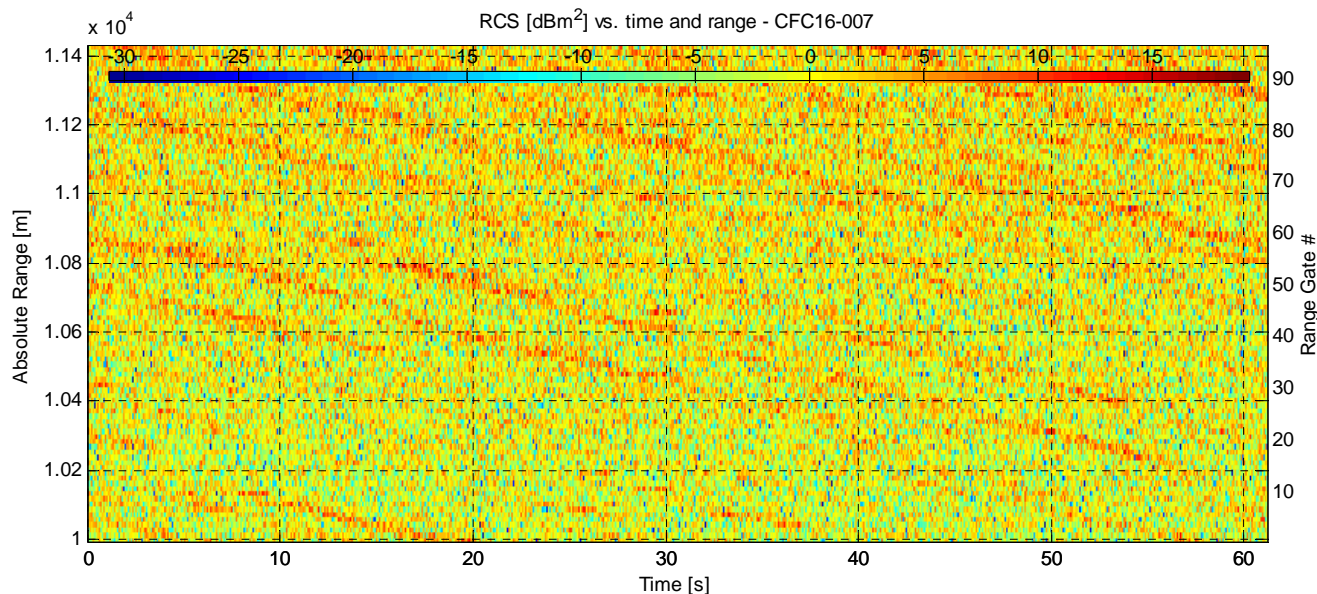


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:23:16.937	Tracking Range	7000 m
Duration	302001 PRI's (60.4 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.048	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs_contd_2	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, 201 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	3.7255-3.5208i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	150.1 deg. N	Even Gates Offset	-4.5826-1.2052i
8hr Avg. Wind	12.4 kts, 201.1 deg. N	Antenna Elv.	-1.162 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.51 m, 147.6 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

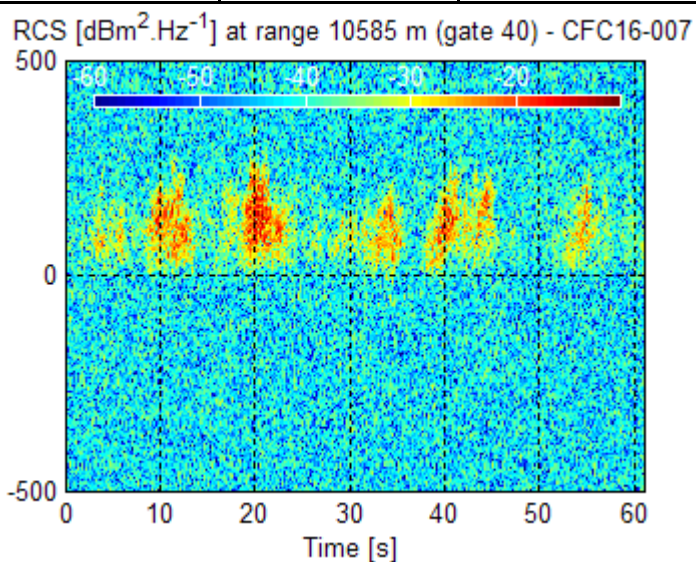
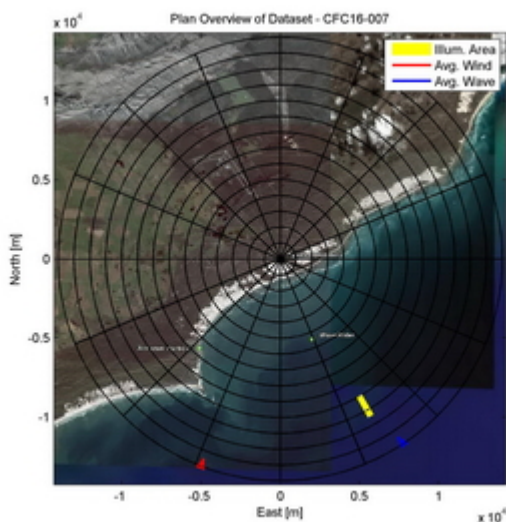


Dataset CFC16-007

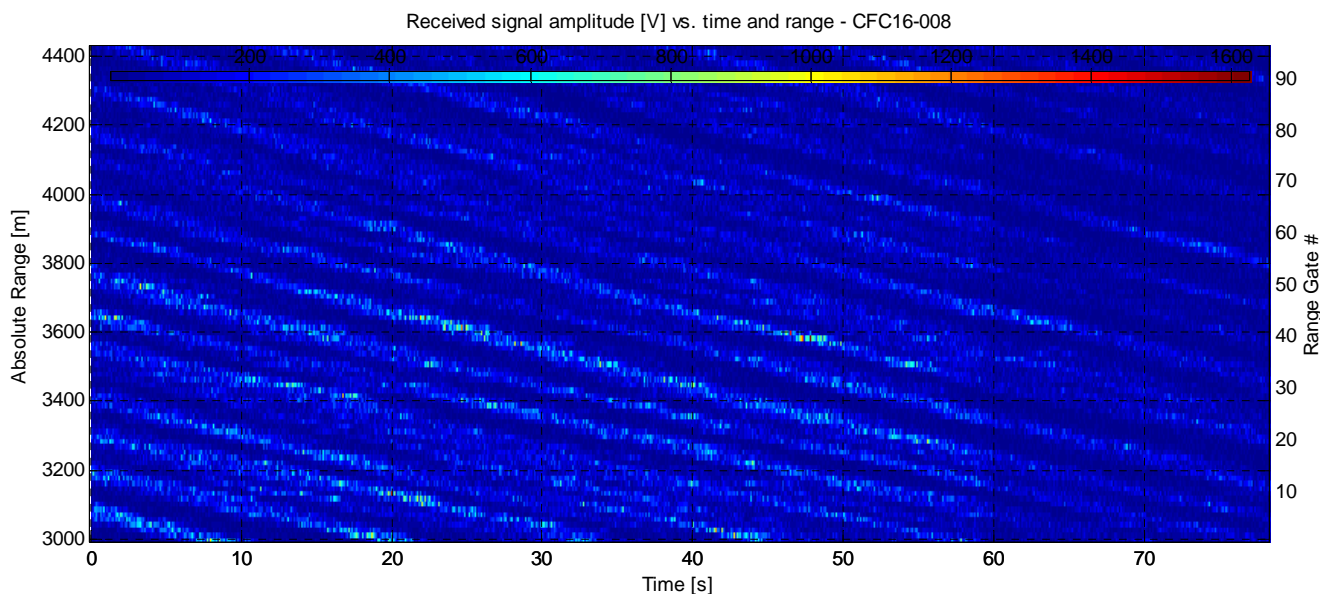


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:24:41.796	Tracking Range	10000 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.049	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_2	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, 201 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	3.815-3.7029i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	150.1 deg. N	Even Gates Offset	-4.4057-1.6394i
8hr Avg. Wind	12.4 kts, 201.1 deg. N	Antenna Elv.	-1.159 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.51 m, 147 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

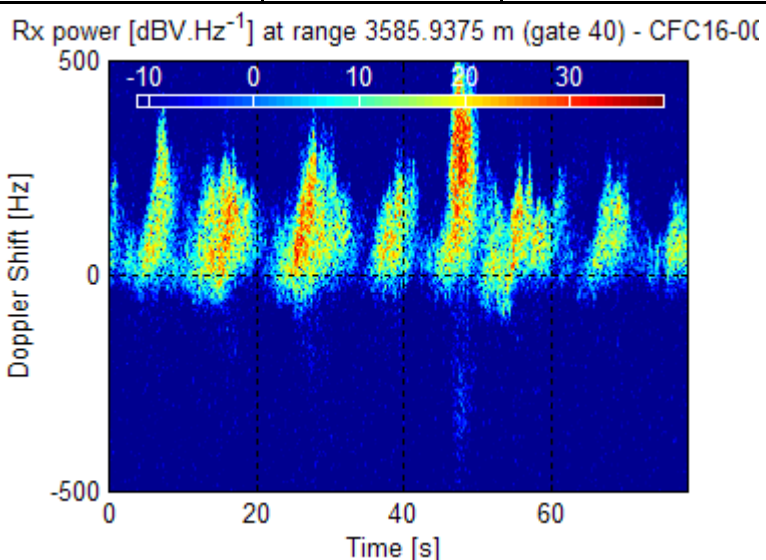
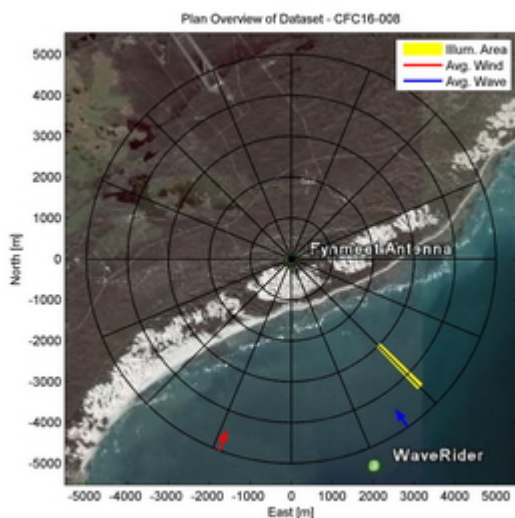


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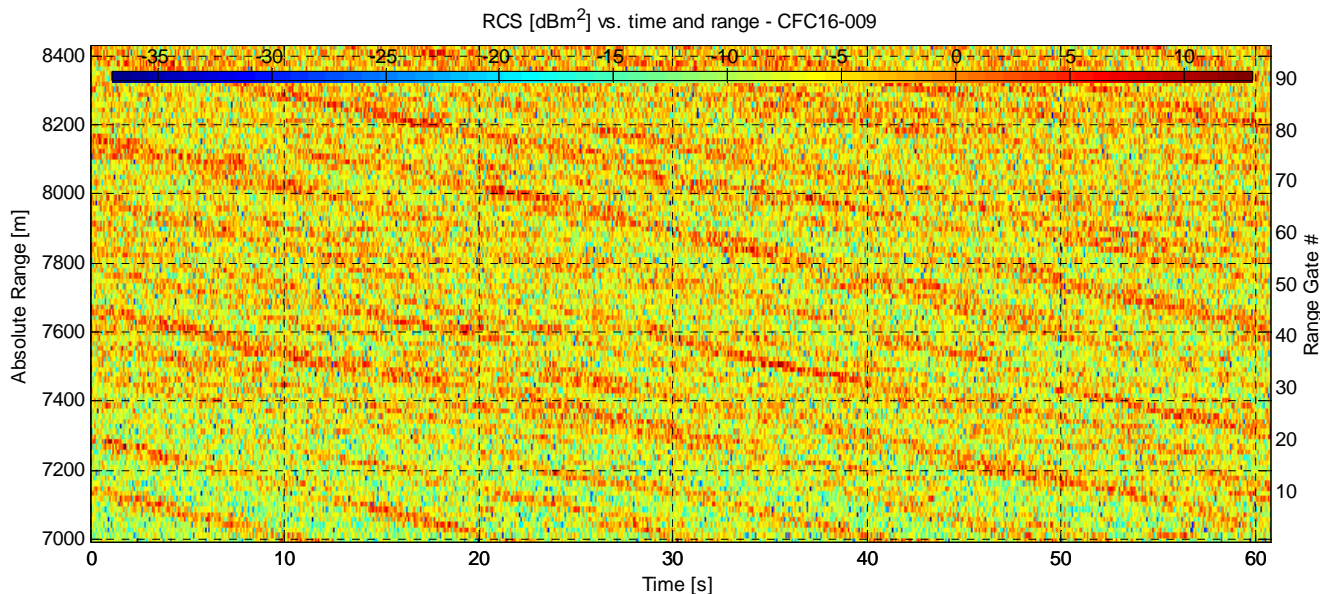


Experiment Summary		Radar Setup	
Type	Value	Tx Frequency	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:31:40.171	Tracking Range	3000.94 m
Duration	391719 PRI's (78.3436 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.053	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_2	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, 200.7 deg. N	Grazing Angle	N/A	Odd Gates Offset	3.7873-3.7325i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	134.8 deg. N	Even Gates Offset	-4.1841-1.4984i
8hr Avg. Wind	12.5 kts, 201 deg. N	Antenna Elv.	-1.178 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.52 m, 145.1 deg. N	Antenna BW.	Not available	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	Bypassed

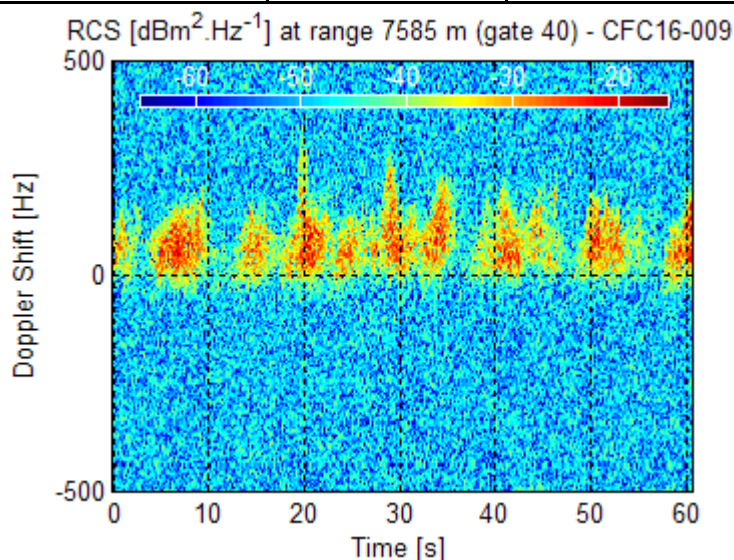
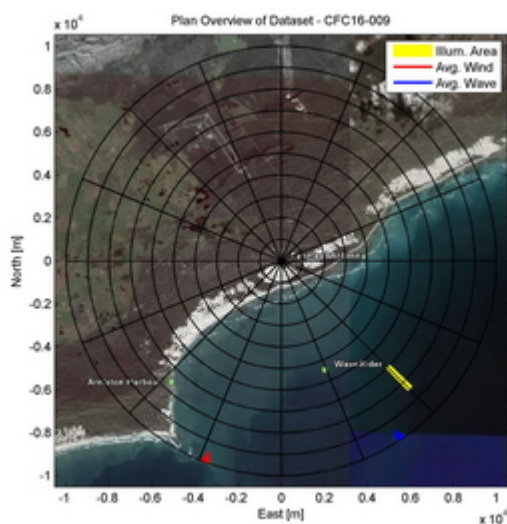


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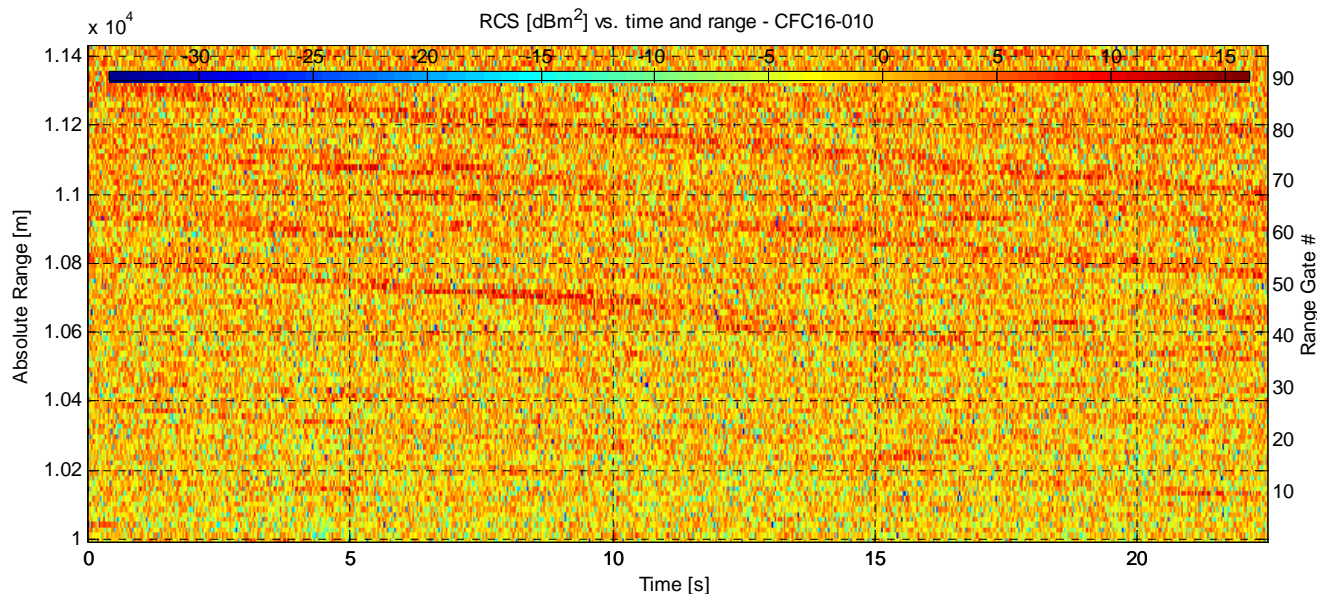


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:33:22.546	Tracking Range	7000 m
Duration	303599 PRI's (60.7196 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.054	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_2	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, 200.7 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	3.6001-3.4652i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	134.8 deg. N	Even Gates Offset	-4.4445-1.1684i
8hr Avg. Wind	12.5 kts, 201 deg. N	Antenna Elv.	-1.181 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.52 m, 145.6 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

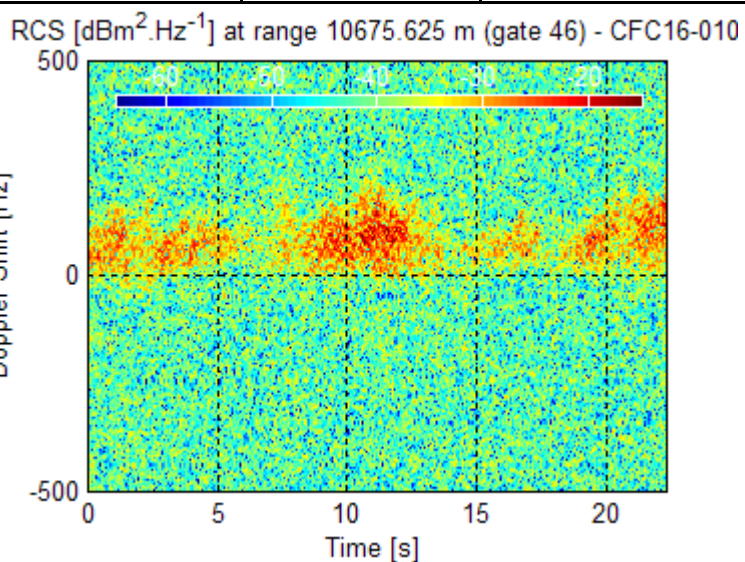
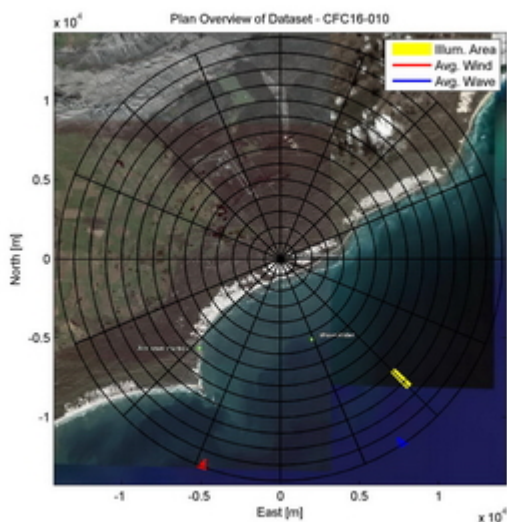


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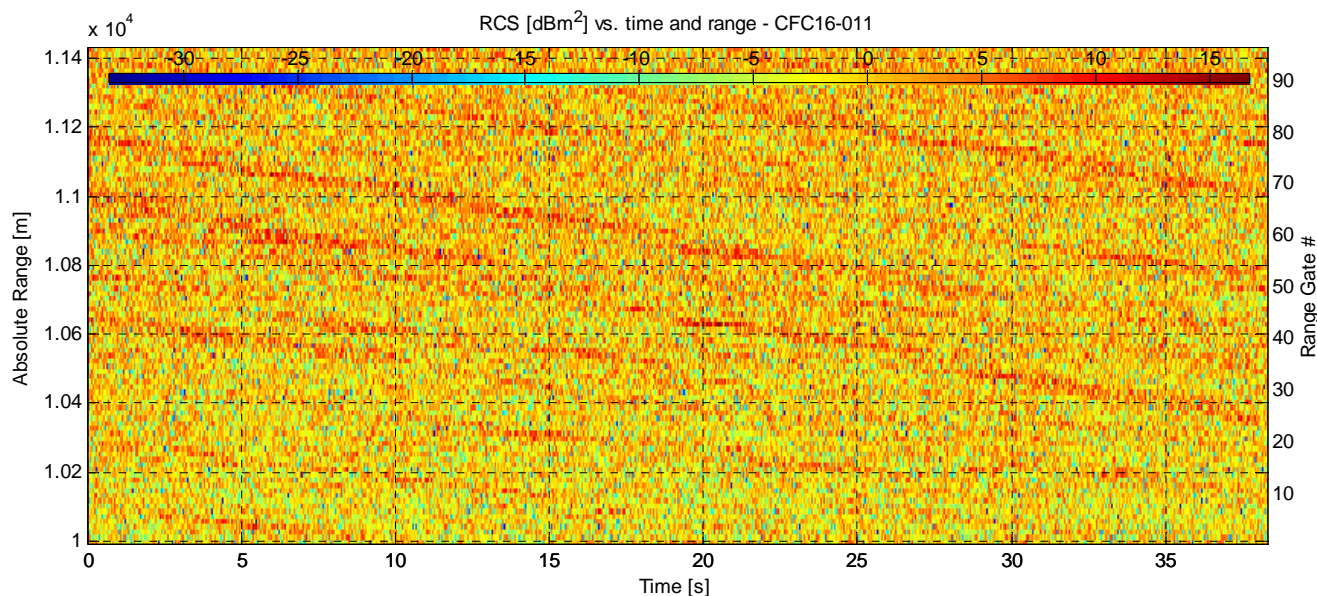


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:34:46.937	Tracking Range	10000.6 m
Duration	112280 PRI's (22.4558 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.055	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_2	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, 200.6 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	3.6841-3.6977i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	134.8 deg. N	Even Gates Offset	-4.4258-1.5011i
8hr Avg. Wind	12.5 kts, 201 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.51 m, 146 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

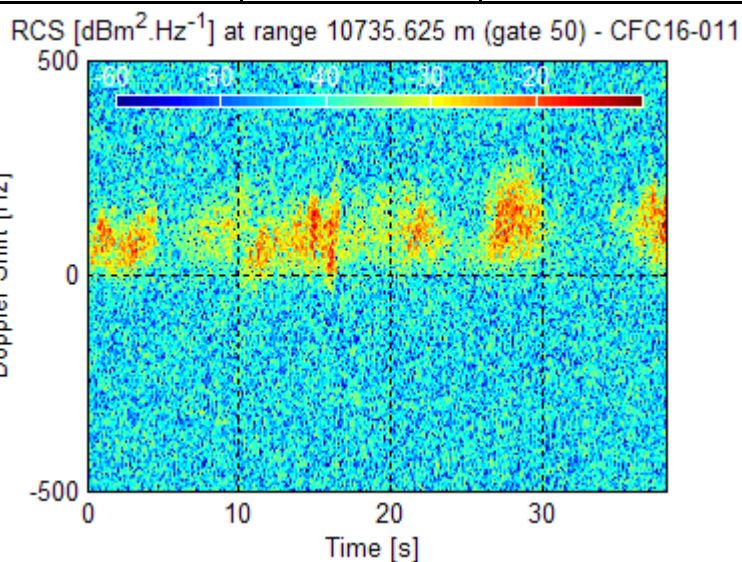
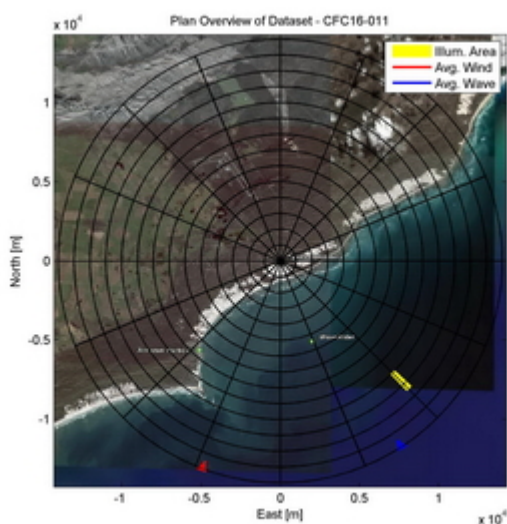


Dataset CFC16-011

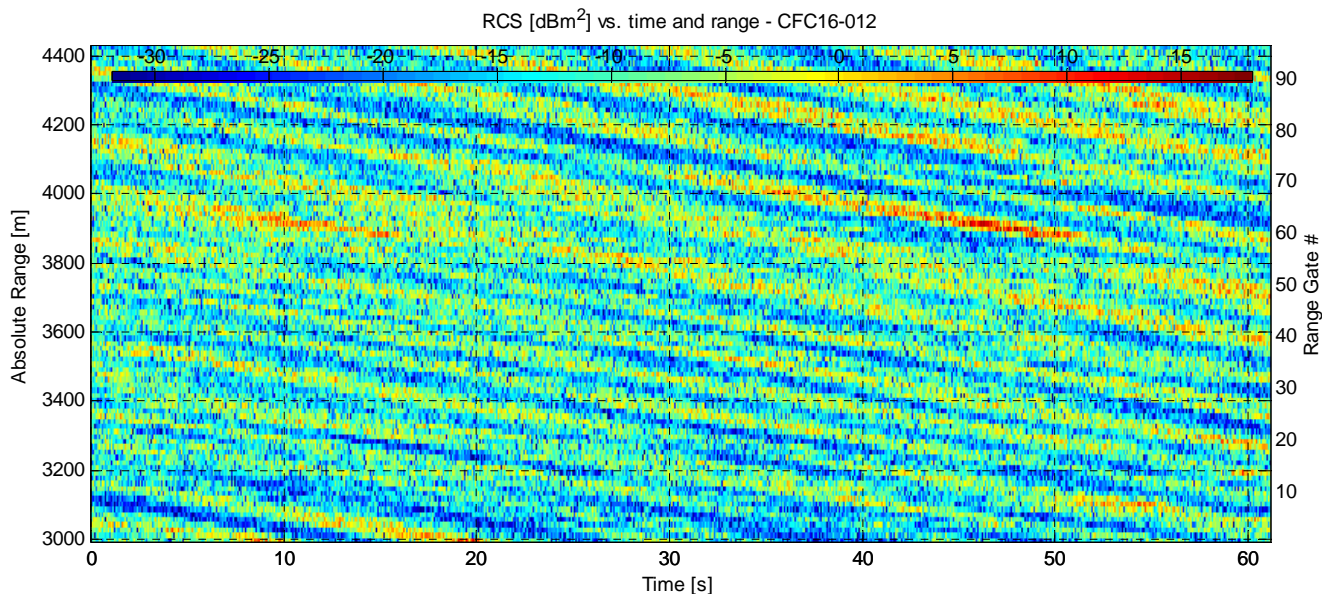


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:35:09.401	Tracking Range	10000.6 m
Duration	191439 PRI's (38.2876 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.055	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_2	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, 200.6 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	3.6818-3.6952i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	134.8 deg. N	Even Gates Offset	-4.438-1.507i
8hr Avg. Wind	12.5 kts, 201 deg. N	Antenna Elv.	-1.184 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.51 m, 146.6 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

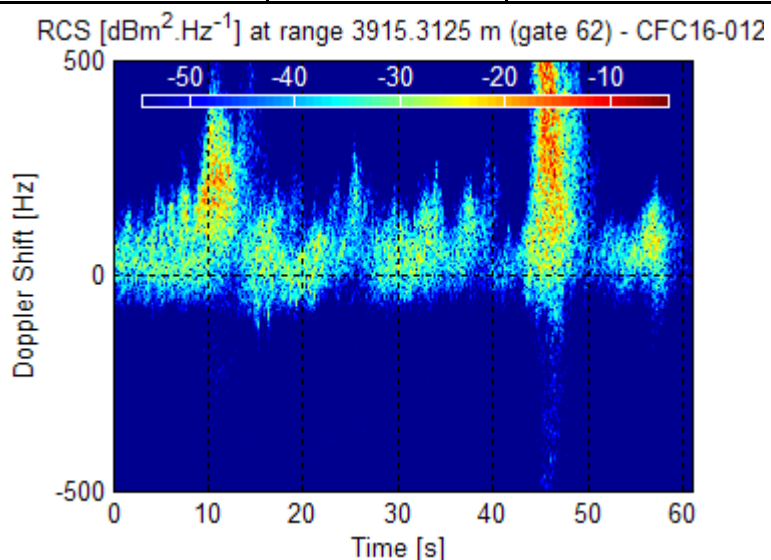
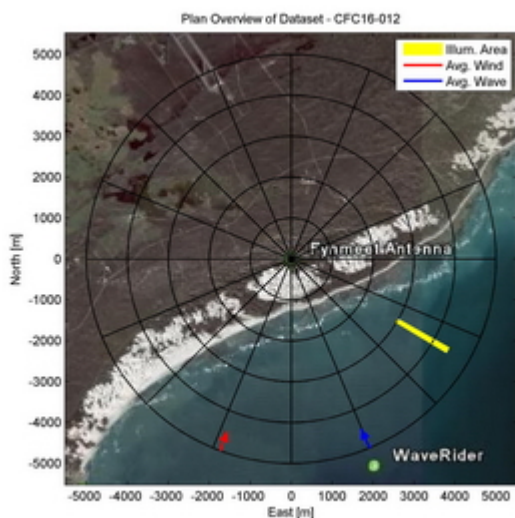


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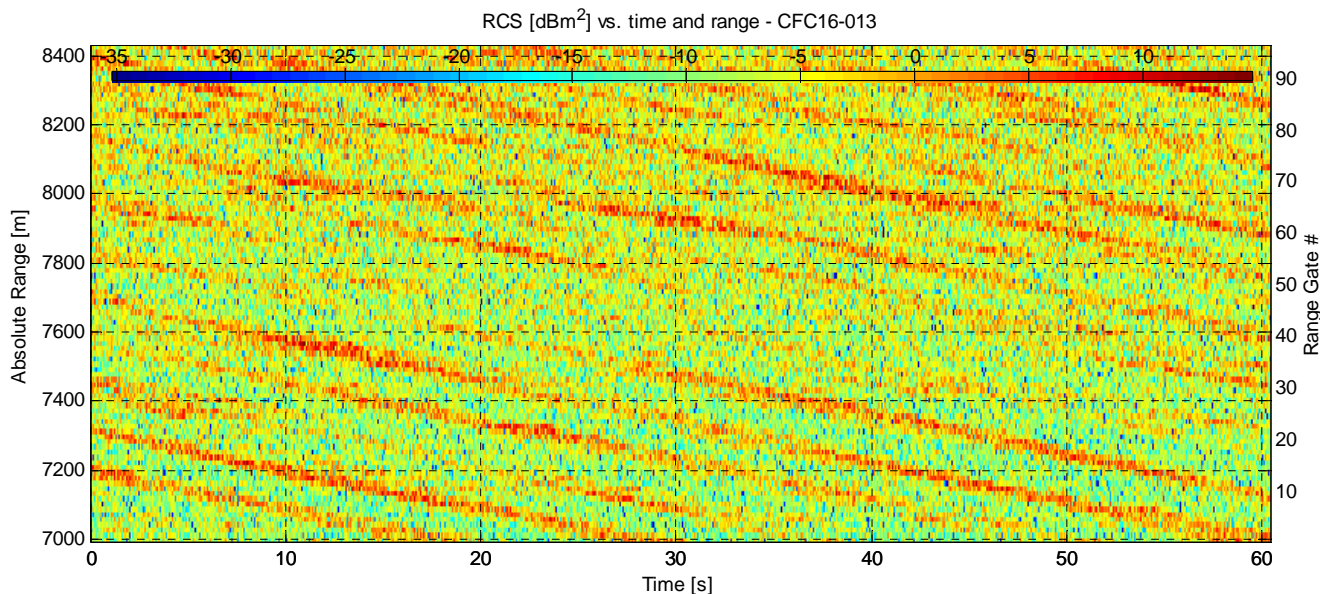


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:46:54.453	Tracking Range	3000.31 m
Duration	305519 PRI's (61.1036 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.061	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_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	18 kts, 200.3 deg. N	Grazing Angle	0.853 - 1.27 deg.	Odd Gates Offset	9.54623-5.38054i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	120.3 deg. N	Even Gates Offset	3.6747-0.25092i
8hr Avg. Wind	12.6 kts, 201 deg. N	Antenna Elv.	-1.217 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 156.5 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

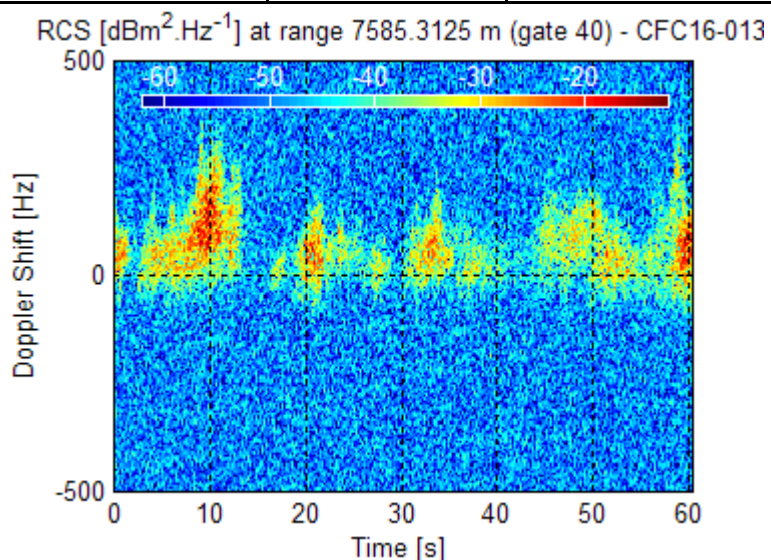
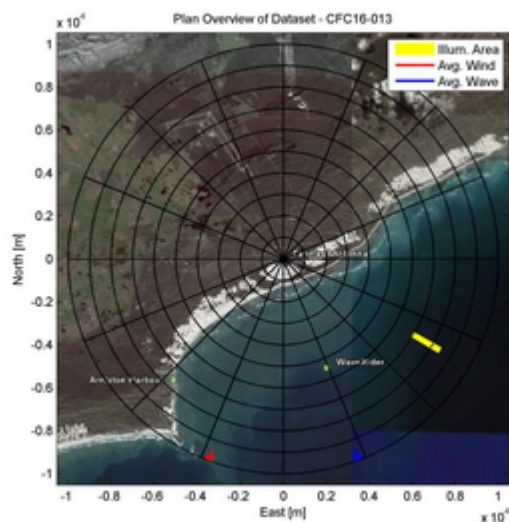


Dataset CFC16-013

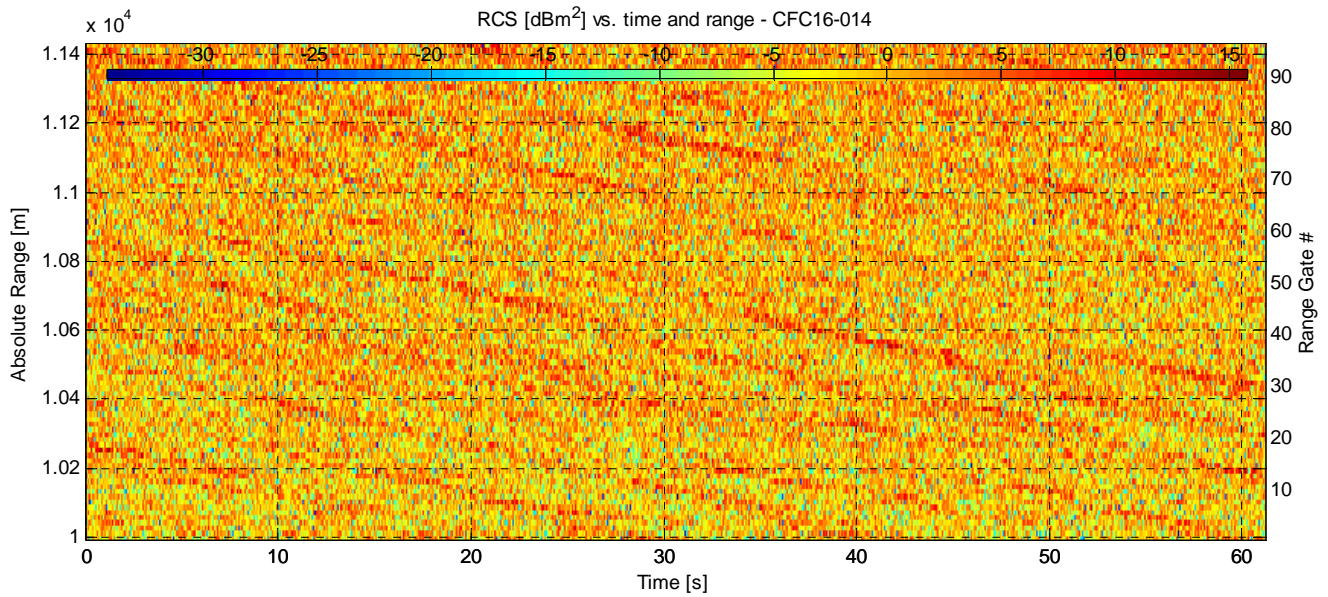


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:48:25.125	Tracking Range	7000.31 m
Duration	301999 PRI's (60.3996 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.062	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_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	18 kts, 200.3 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	3.9533+0.0017815i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	120.3 deg. N	Even Gates Offset	9.8058-5.32523i
8hr Avg. Wind	12.6 kts, 200.9 deg. N	Antenna Elv.	-1.214 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.43 m, 158.6 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

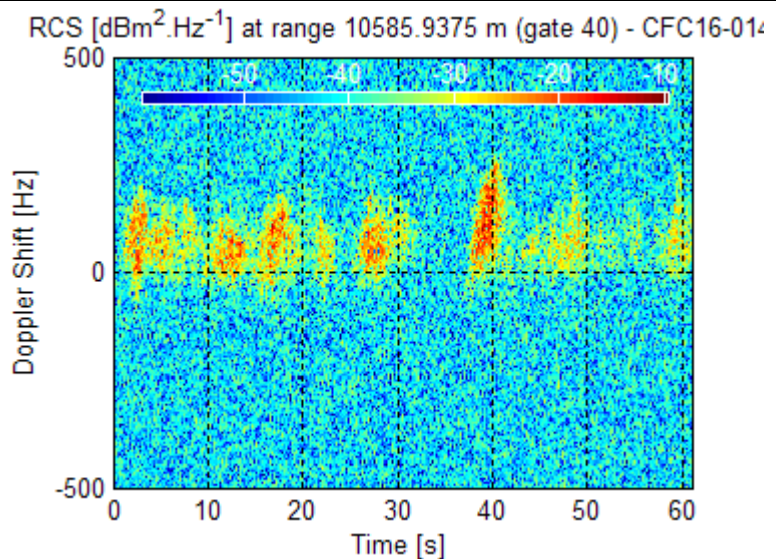
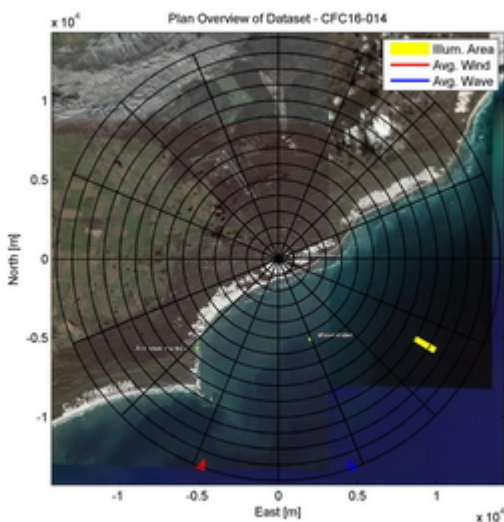


Dataset CFC16-014

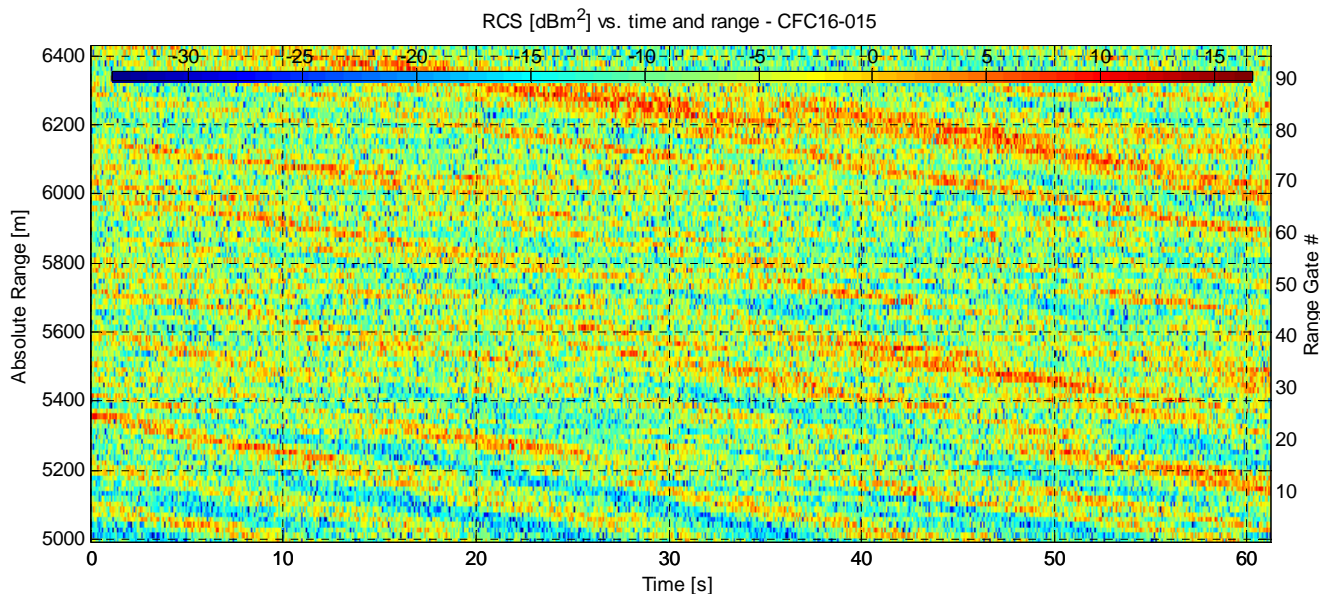


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	11:49:44.859	Tracking Range	10000.9 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.063	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_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	18.1 kts, 200.3 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	3.8065-0.09325i
Wind Gust	30.7 kts, 217 deg. N	Antenna Azm.	120.3 deg. N	Even Gates Offset	9.77255-5.48639i
8hr Avg. Wind	12.7 kts, 200.9 deg. N	Antenna Elv.	-1.214 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.42 m, 159.6 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

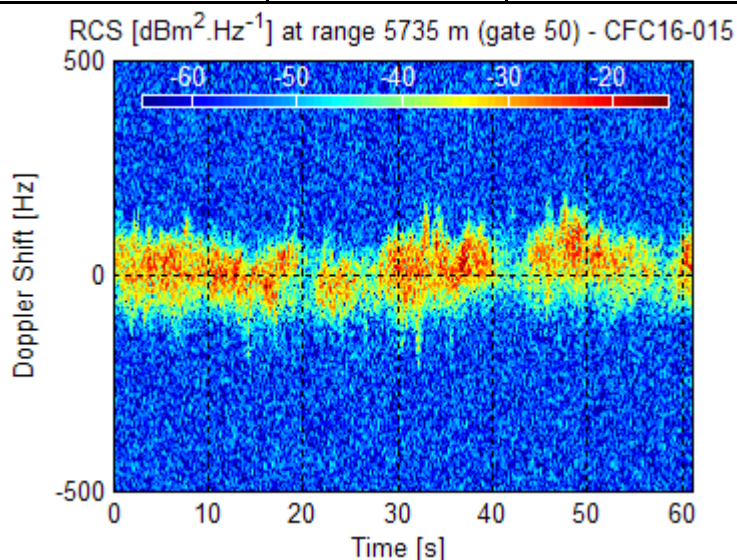
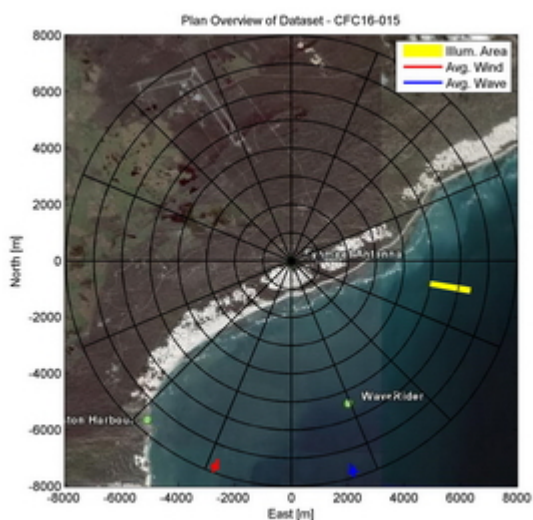


Dataset CFC16-015

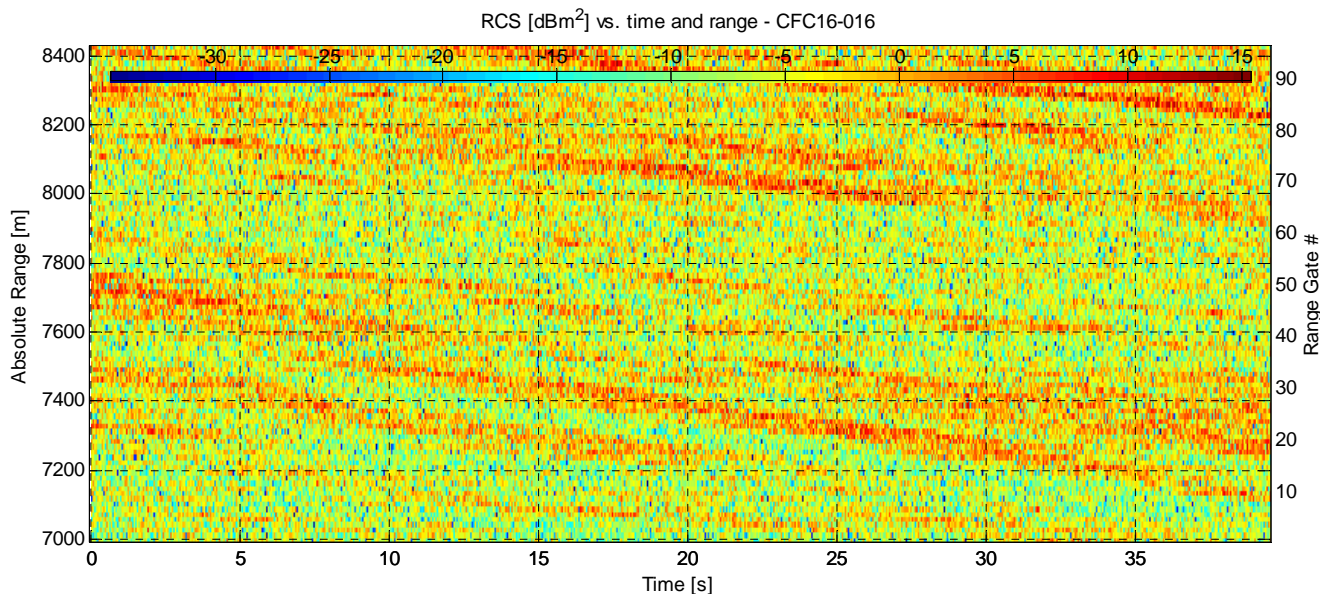


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:09:33.718	Tracking Range	5000 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.067	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	18 kts, 200.3 deg. N	Grazing Angle	0.576 - 0.751 deg.	Odd Gates Offset	3.7829-0.52656i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	99.34 deg. N	Even Gates Offset	9.35178-4.98717i
8hr Avg. Wind	12.9 kts, 200.9 deg. N	Antenna Elv.	-1.25 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.39 m, 164.1 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

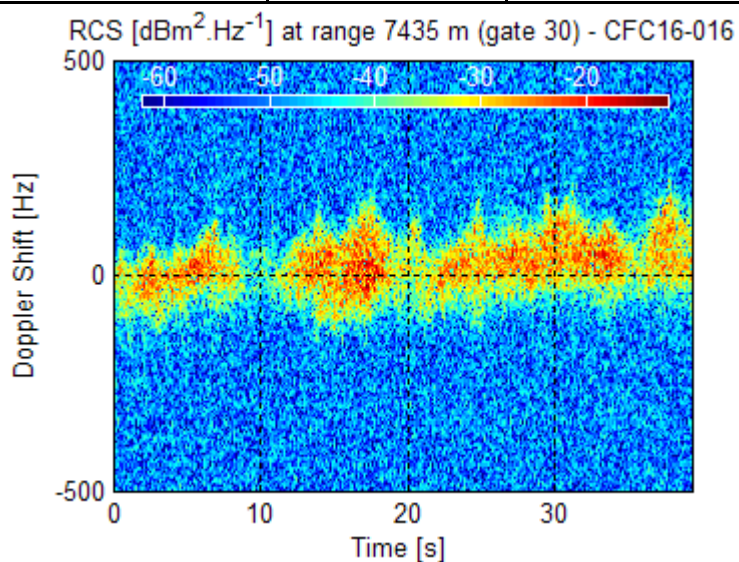
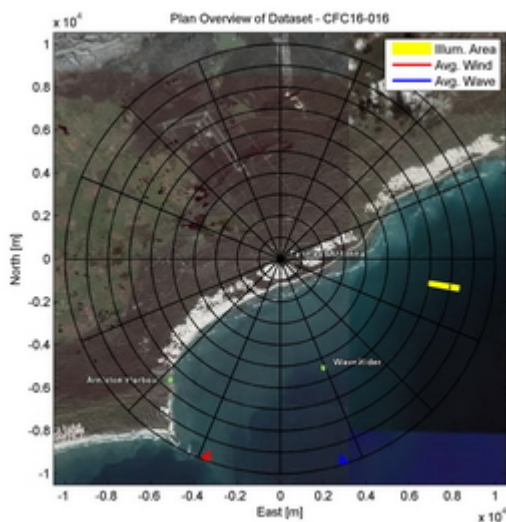


Dataset CFC16-016



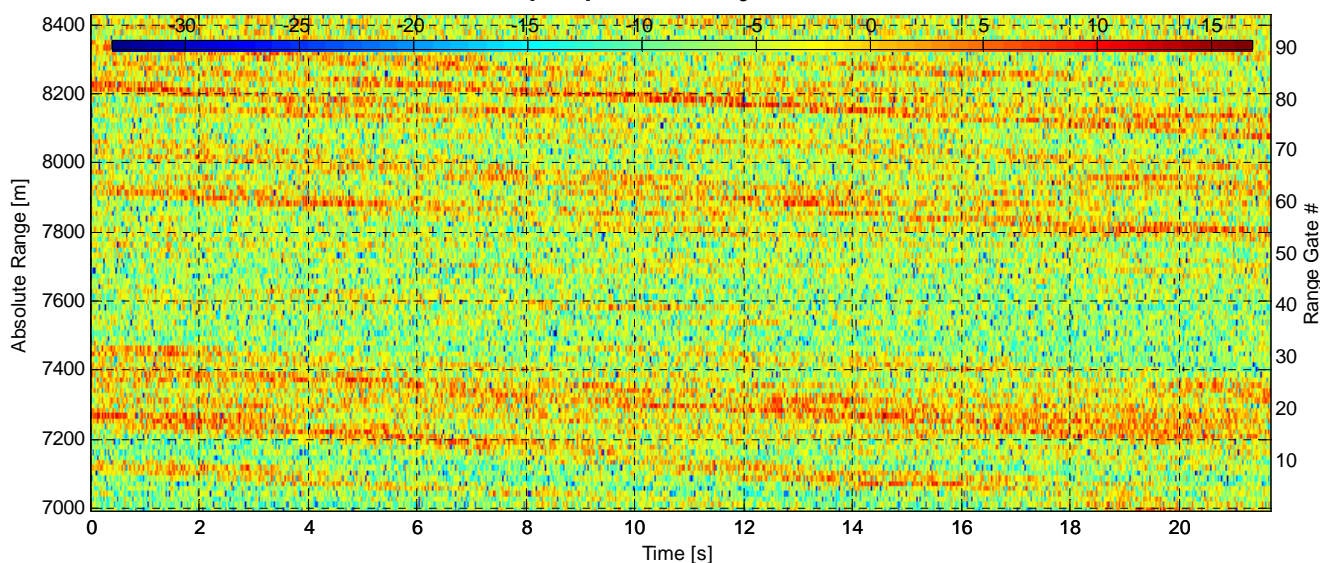
Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:11:45.640	Tracking Range	7000 m
Duration	197520 PRI's (39.5038 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.069	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	18 kts, 200.3 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	3.3813-0.0041325i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	99.35 deg. N	Even Gates Offset	9.36664-5.47018i
8hr Avg. Wind	12.9 kts, 200.9 deg. N	Antenna Elv.	-1.258 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.4 m, 163.3 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB



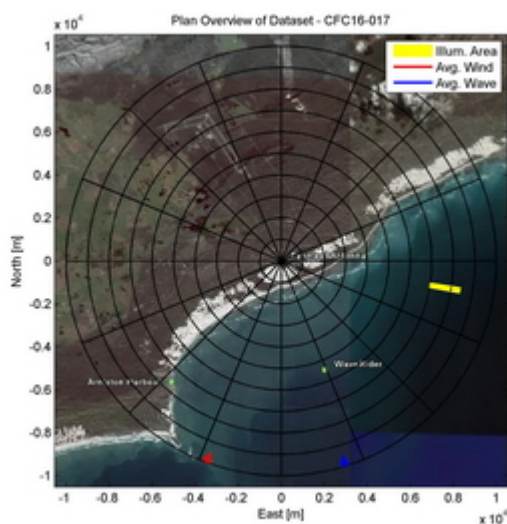
Dataset CFC16-017

RCS [dBm²] vs. time and range - CFC16-017

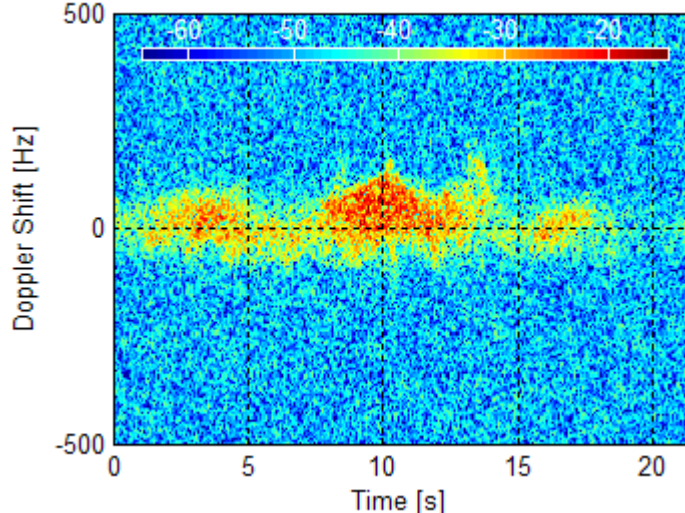


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:12:25.152	Tracking Range	7000 m
Duration	108270 PRI's (21.6538 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.069	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs_contd_3	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

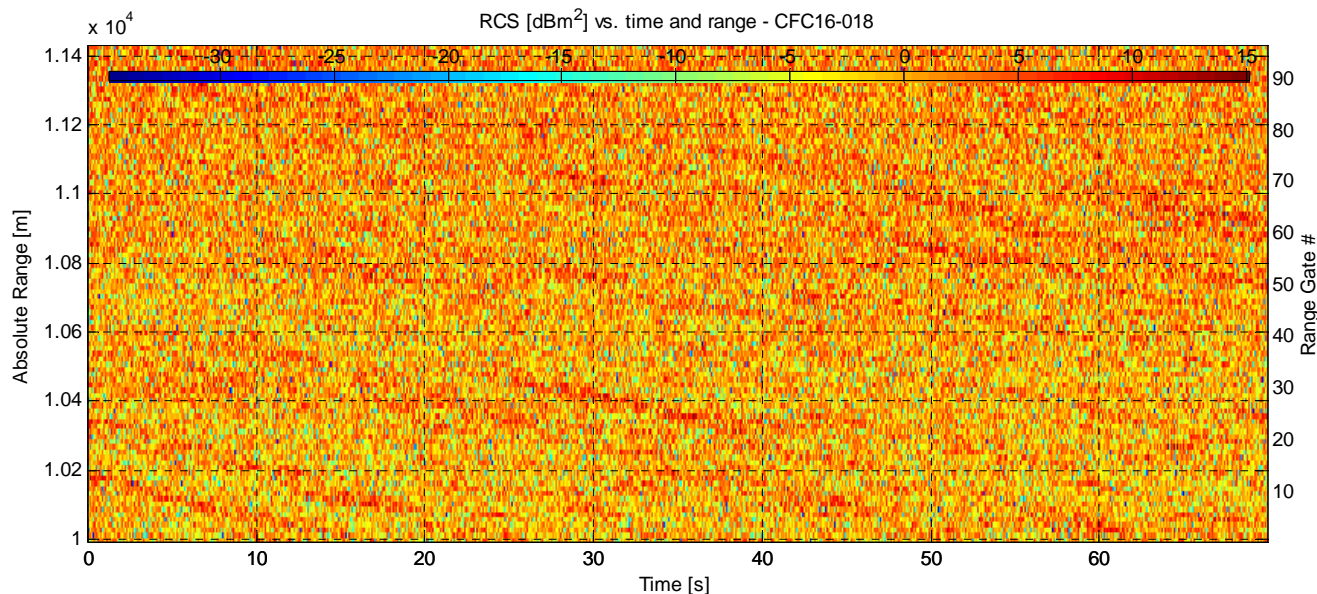
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	18 kts, 200.3 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	3.3636+0.08312i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	99.35 deg. N	Even Gates Offset	9.47202-5.5027i
8hr Avg. Wind	12.9 kts, 200.9 deg. N	Antenna Elv.	-1.258 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.4 m, 162.8 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB



RCS [dBm².Hz⁻¹] at range 7585 m (gate 40) - CFC16-017

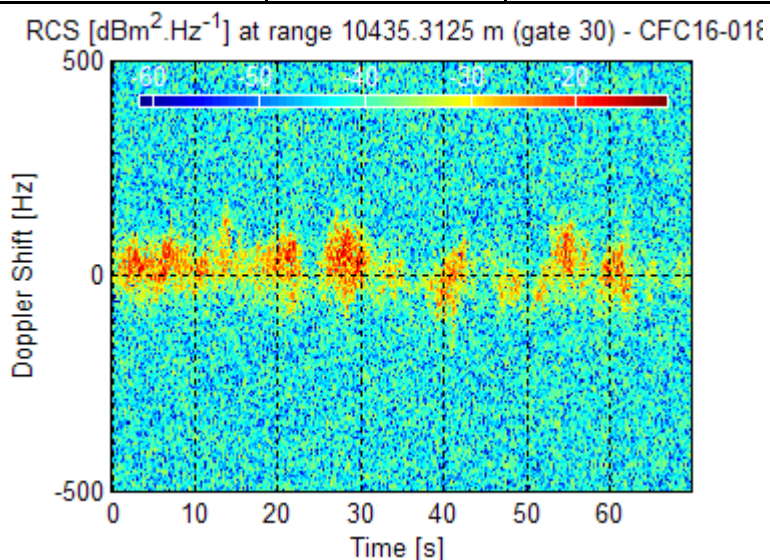
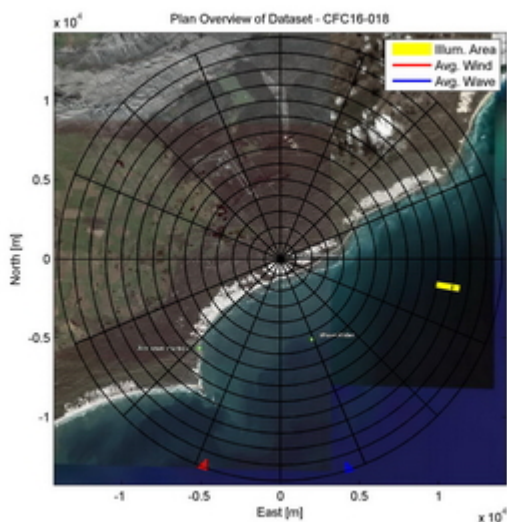


Dataset CFC16-018

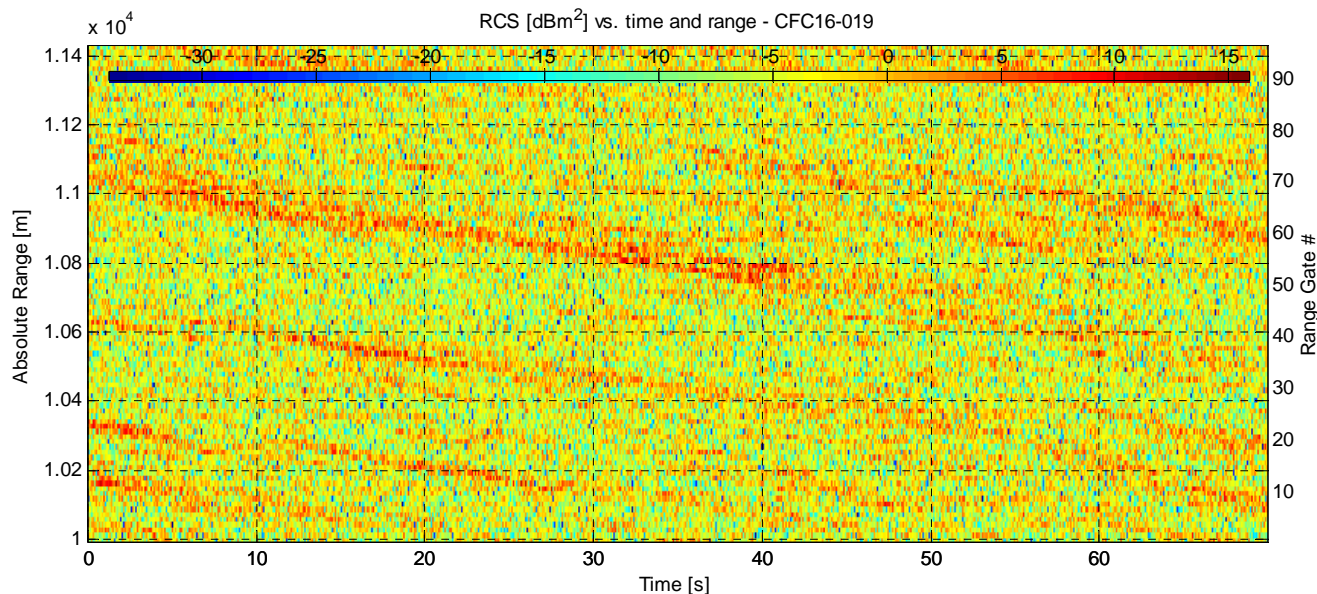


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:13:07.843	Tracking Range	10000.3 m
Duration	349520 PRI's (69.9038 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.070	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_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	17.9 kts, 200.3 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	3.6237-0.096042i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	99.34 deg. N	Even Gates Offset	9.66586-5.48826i
8hr Avg. Wind	12.9 kts, 200.9 deg. N	Antenna Elv.	-1.258 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.4 m, 162.4 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

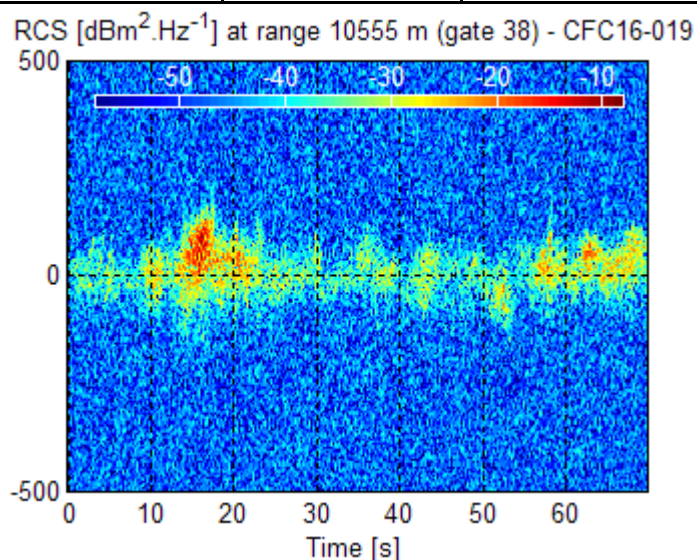
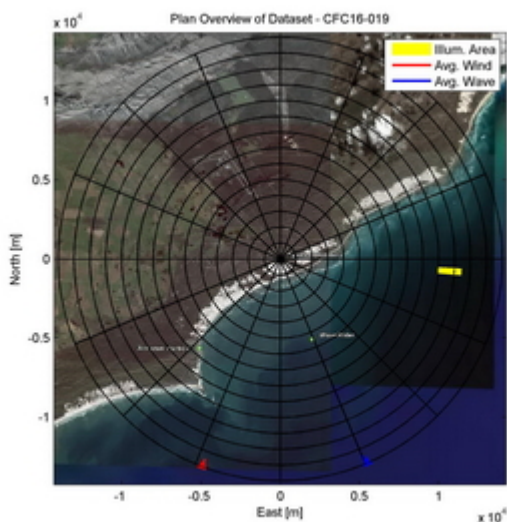


Dataset CFC16-019

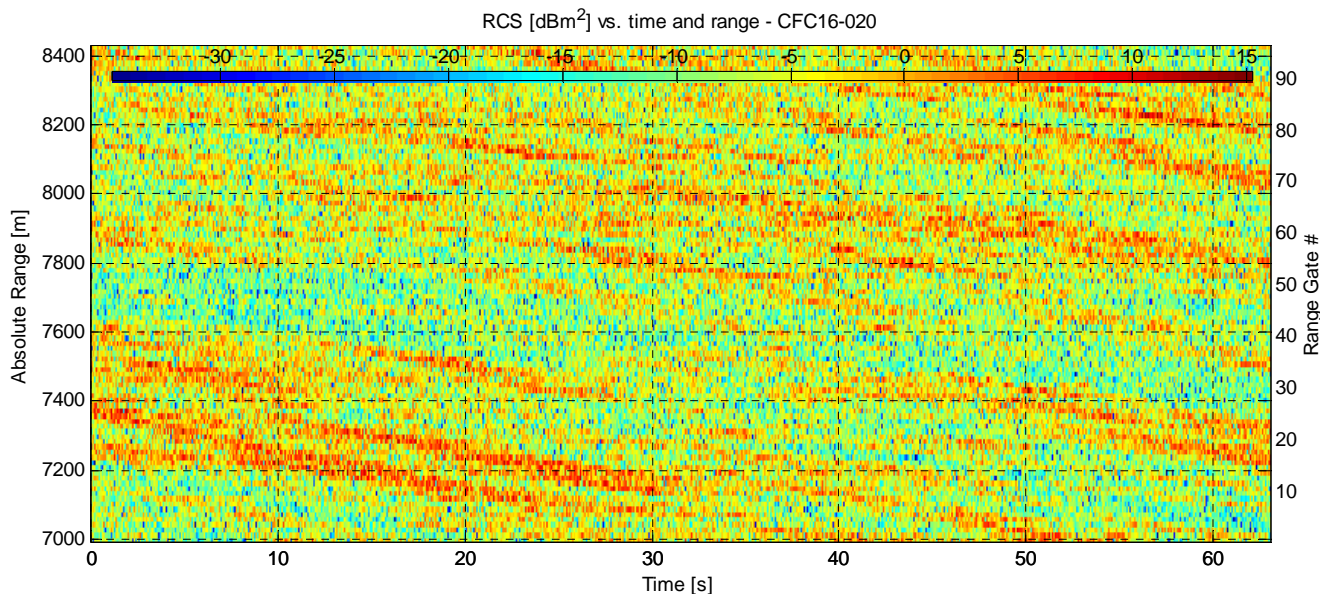


Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:30:07.625	Tracking Range	10000 m
Duration	349520 PRI's (69.9038 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.079	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.4 kts, 200.6 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	9.33971-5.45146i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	94.13 deg. N	Even Gates Offset	3.3281-0.25901i
8hr Avg. Wind	13.1 kts, 200.8 deg. N	Antenna Elv.	-0.5438 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 157 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB

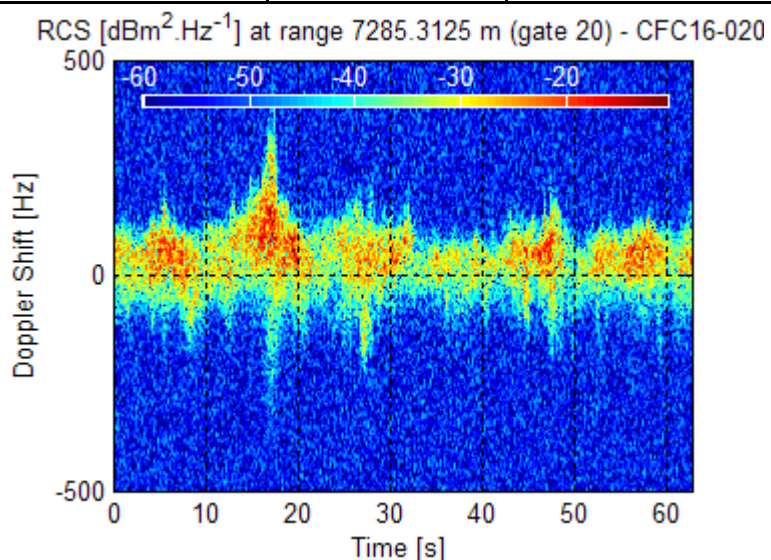
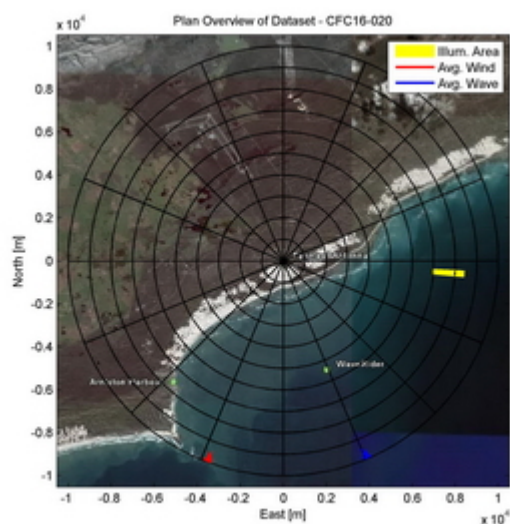


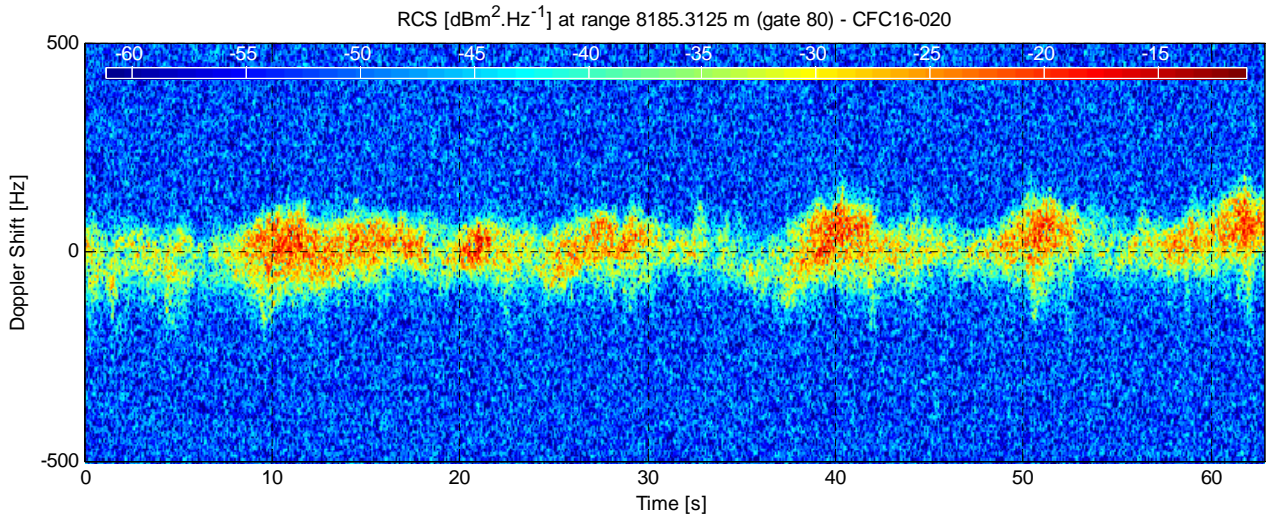
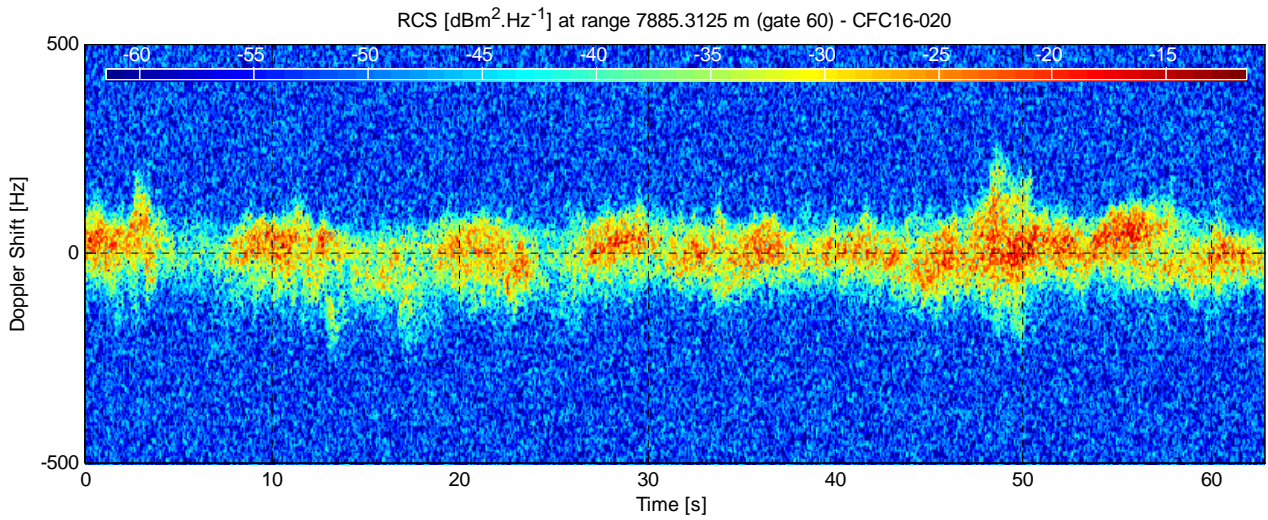
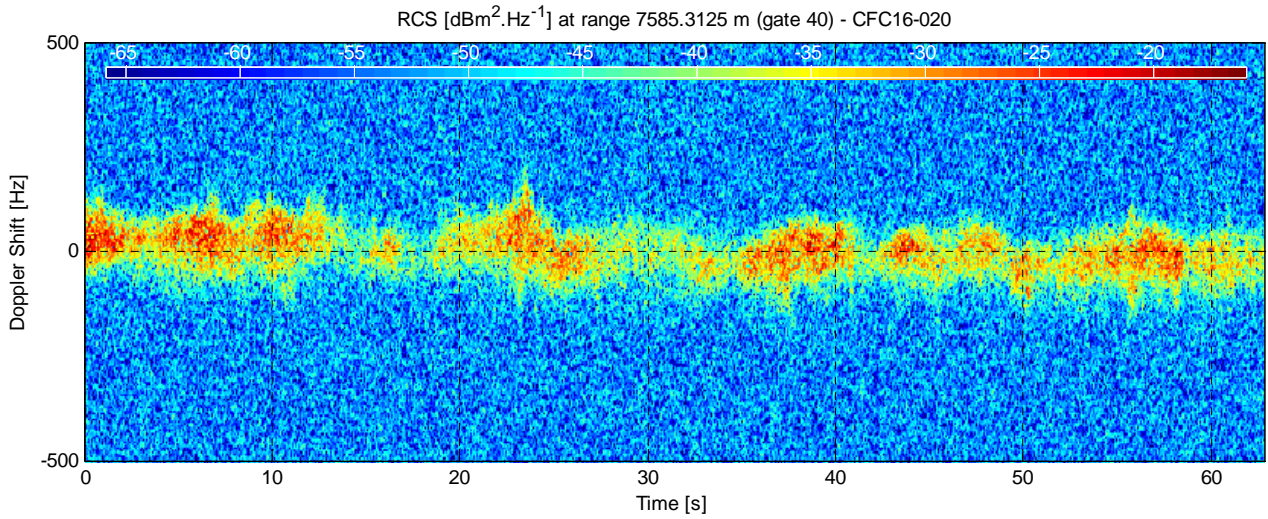
Dataset CFC16-020



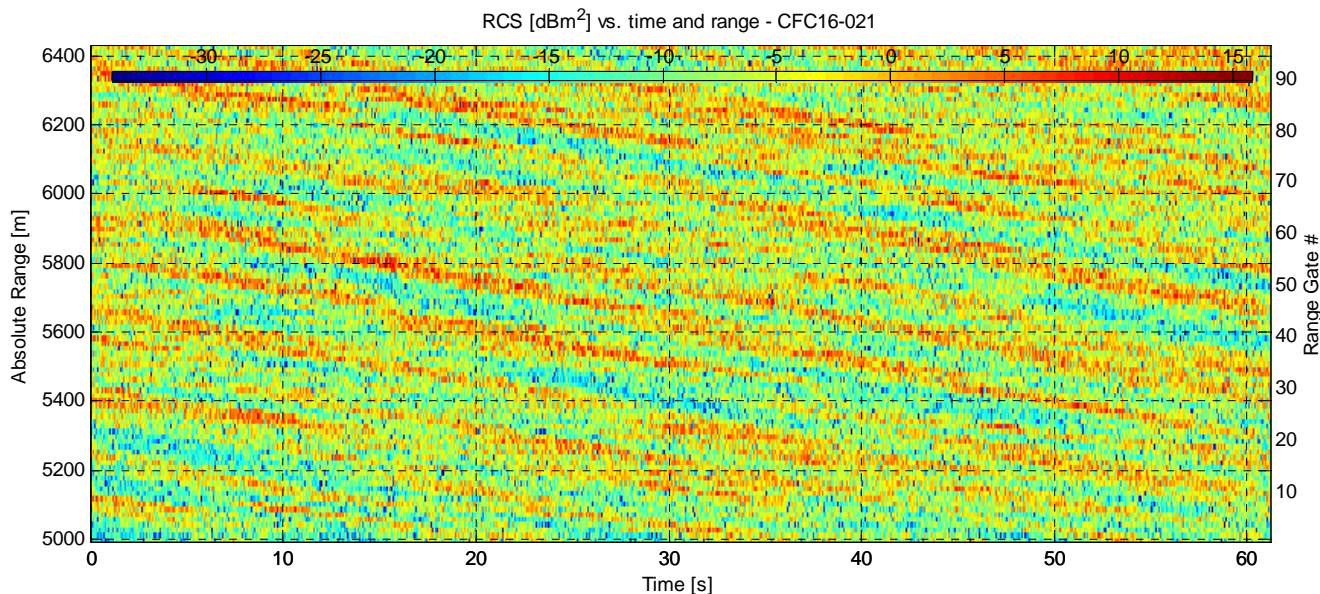
Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:31:35.125	Tracking Range	7000.31 m
Duration	314999 PRI's (62.9996 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.080	Waveform Type	Fixed Frequency
Original Path	\20060802_ifs_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	17.4 kts, 200.6 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	9.33915-5.52393i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	94.13 deg. N	Even Gates Offset	3.4228-0.041047i
8hr Avg. Wind	13.1 kts, 200.8 deg. N	Antenna Elv.	-0.5493 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 157 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB



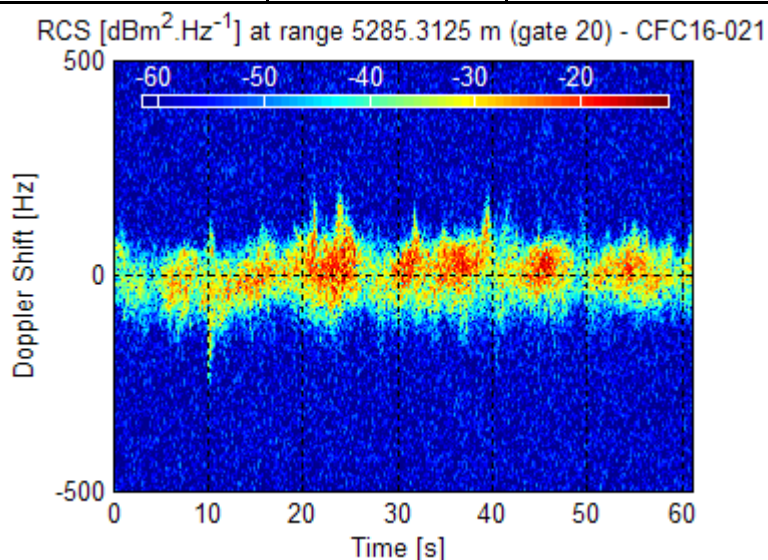
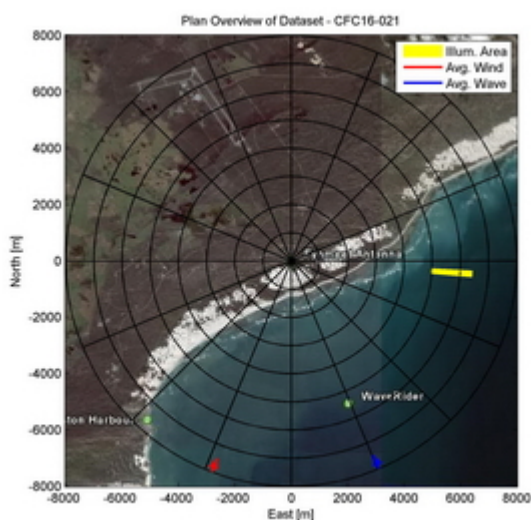


Dataset CFC16-021

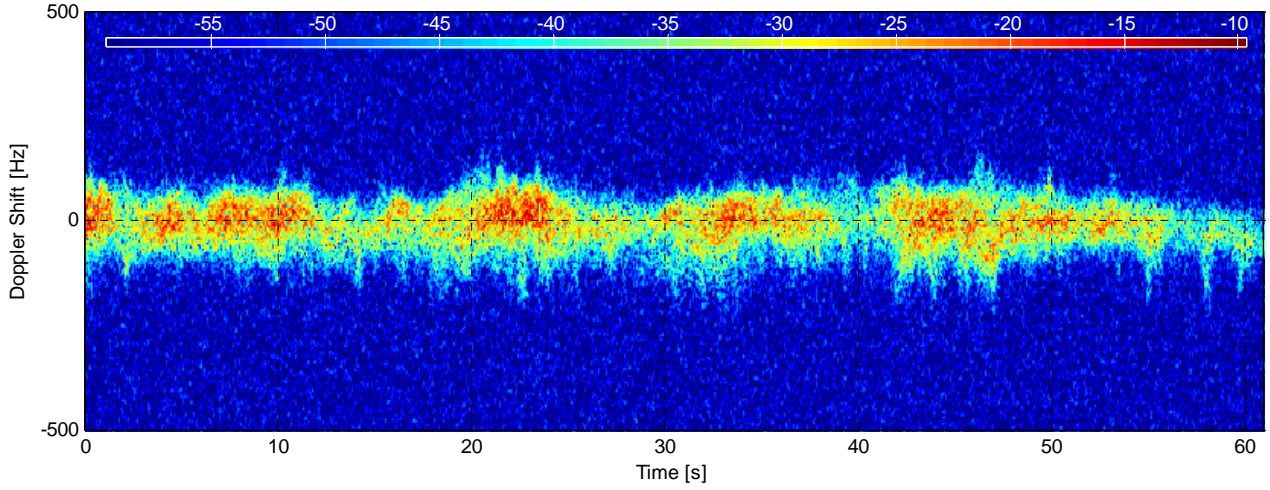


Experiment Summary		Radar Setup	
Type	Value	Tx Frequency	Value
Type	Sea Clutter	Tx Frequency	9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:33:12.453	Tracking Range	5000.31 m
Duration	305830 PRI's (61.1658 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.081	Waveform Type	Fixed Frequency
Original Path	\\20060802_ifs_contd_4	Waveform Bandwidth	N/A
Processor Version	FMSCP Ver 01.22	Waveform File	SC_Fixed_256BL.txt

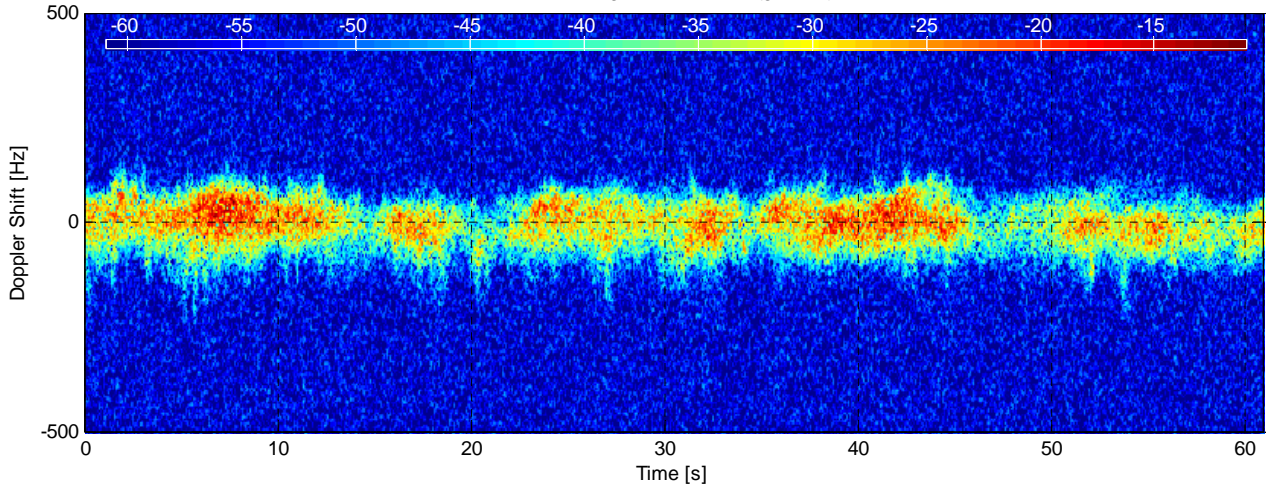
Environment	Value	Geometry	Value	Processing	Value
Inst. Wind	17.3 kts, 200.6 deg. N	Grazing Angle	0.576 - 0.751 deg.	Odd Gates Offset	3.9426-0.606i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	94.11 deg. N	Even Gates Offset	9.01288-4.88764i
8hr Avg. Wind	13.1 kts, 200.8 deg. N	Antenna Elv.	-0.5383 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 157 deg. N	Antenna BW.	1.8 deg. Az, 1.8 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	190.9 dB



RCS [$\text{dBm}^2 \cdot \text{Hz}^{-1}$] at range 5585.3125 m (gate 40) - CFC16-021



RCS [$\text{dBm}^2 \cdot \text{Hz}^{-1}$] at range 5885.3125 m (gate 60) - CFC16-021



RCS [$\text{dBm}^2 \cdot \text{Hz}^{-1}$] at range 6185.3125 m (gate 80) - CFC16-021

