2006 Fynmeet Sea Clutter Measurement Trial

Dataset Overview for 02-Aug-2006

Dr PL Herselman

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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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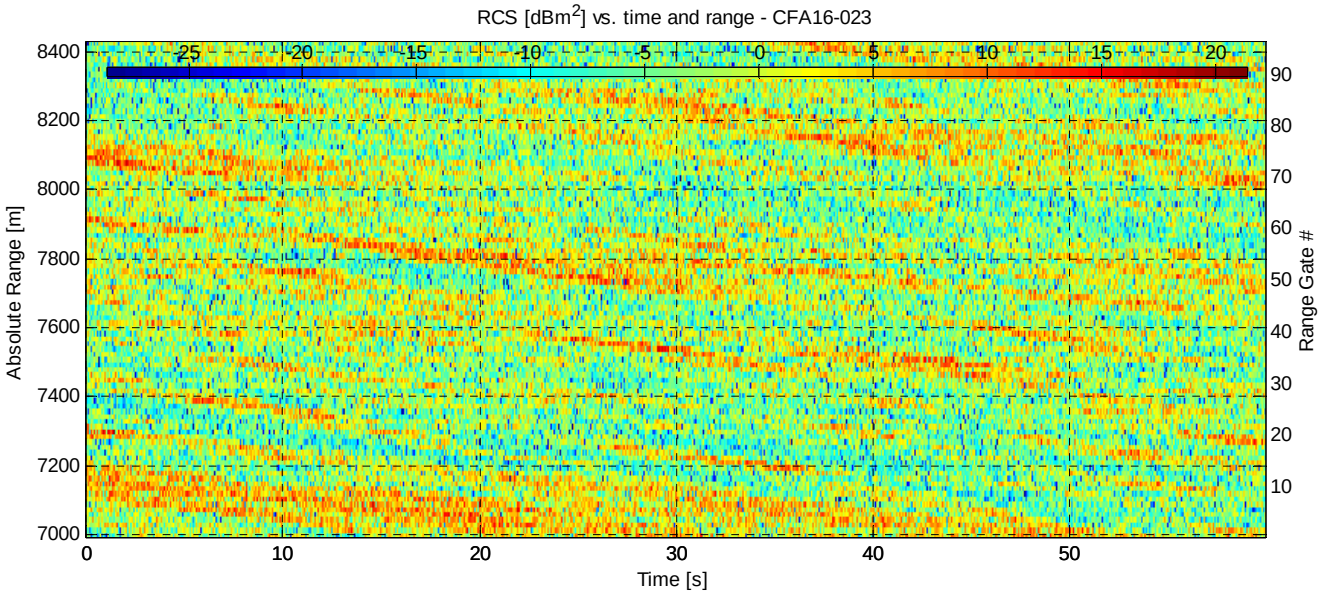
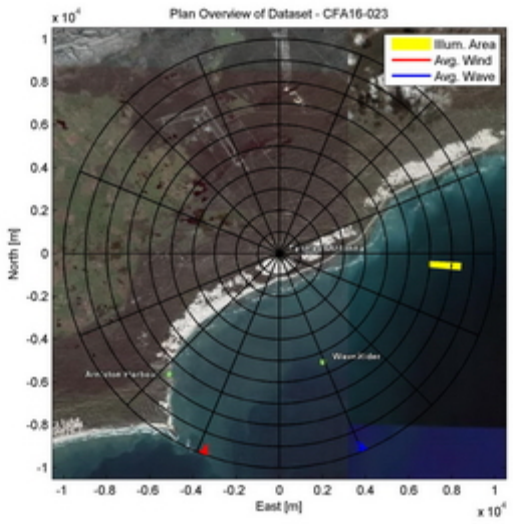
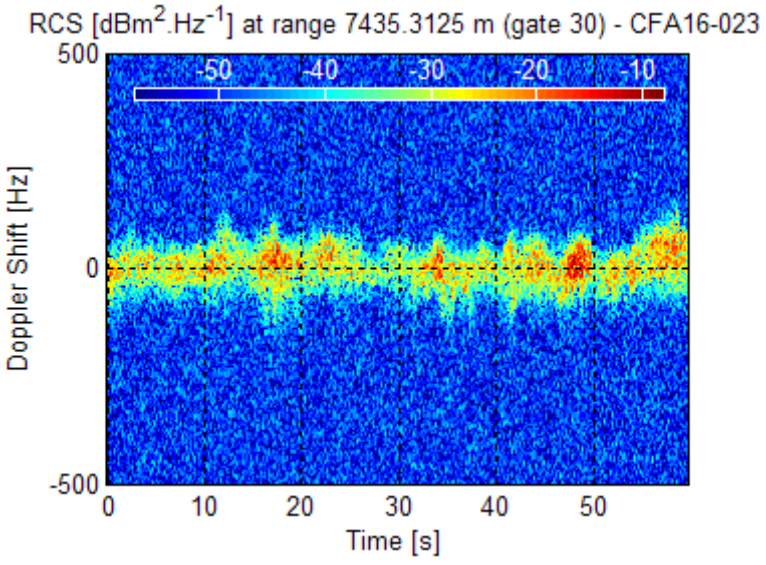
Dataset CFA16-023



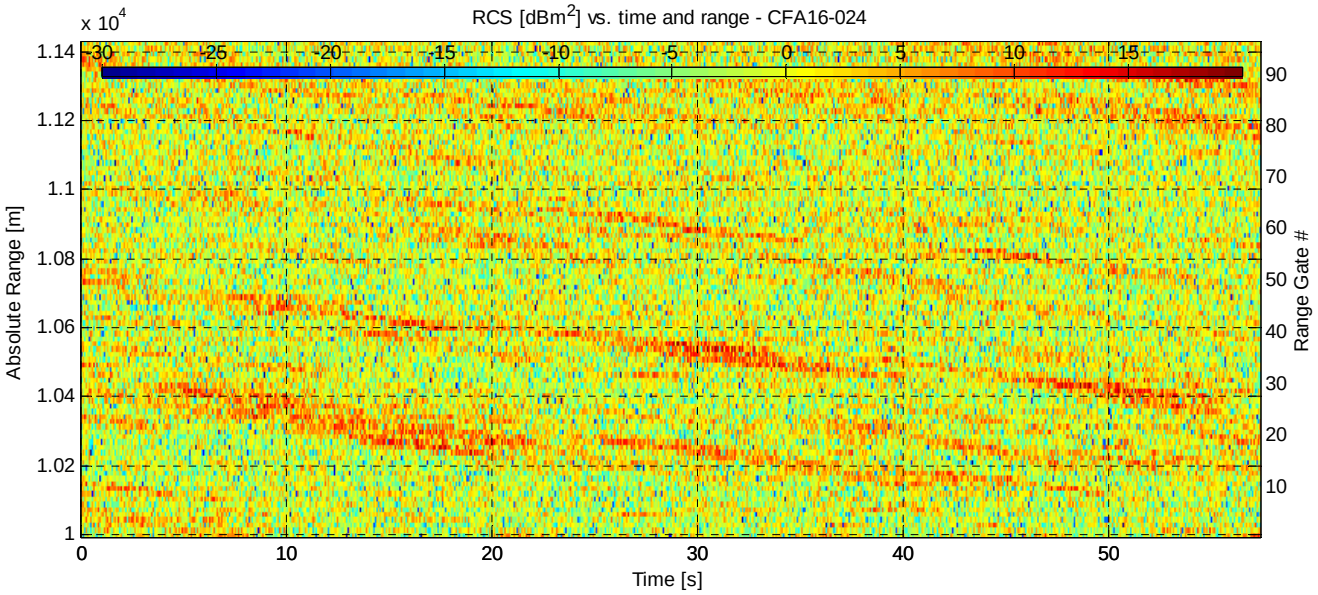
Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	6.9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:27:35.359	Tracking Range	7000.31 m
Duration	299359 PRI's (59.8716 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.077	Waveform Type	Fixed Frequency
Original Path	\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	17.5 kts, 200.6 deg. N	Grazing Angle	0.427 - 0.525 deg.	Odd Gates Offset	9.19413-5.34973i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	94.13 deg. N	Even Gates Offset	3.4374-0.13086i
8hr Avg. Wind	13.1 kts, 200.8 deg. N	Antenna Elv.	-0.5493 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 157.3 deg. N	Antenna BW.	2 deg. Az, 2 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	187.7 dB





Dataset CFA16-024



Experiment Summary	Value	Radar Setup	Value
Type	Sea Clutter	Tx Frequency	6.9 GHz
Date	02-Aug-2006	PRF	5 kHz
Start Time	12:28:51.928	Tracking Range	10000 m
Duration	286840 PRI's (57.3678 s)	Range Extend	1440 m (96 gates), 15 m res.
Original File	PF060802.078	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	17.5 kts, 200.6 deg. N	Grazing Angle	0.298 - 0.35 deg.	Odd Gates Offset	9.1316-5.40956i
Wind Gust	33 kts, 180 deg. N	Antenna Azm.	94.13 deg. N	Even Gates Offset	3.2877-0.13934i
8hr Avg. Wind	13.1 kts, 200.8 deg. N	Antenna Elv.	-0.5466 deg.	I/Q Imbalance	Bypassed
Wave (SWH)	3.44 m, 157.1 deg. N	Antenna BW.	2 deg. Az, 2 deg. El	Complex Conj.	Applied
		GPS Data	Not applicable	Calibr. Coeff.	187.7 dB