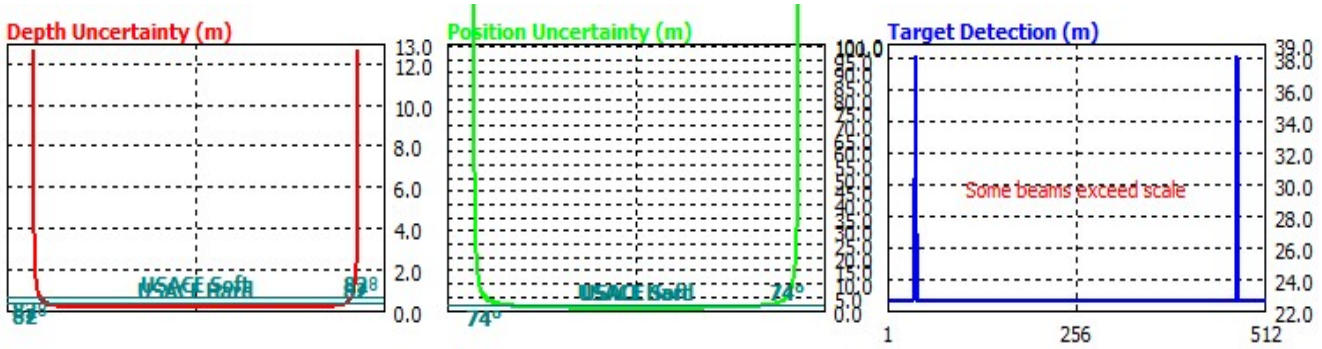
TPU Report - Channel from Phoebus CS 2019

Project Name	Channel from Phoebus CS 2019
Date Report Generated	07/26/19 11:57:36



General		**Tuning Parameters**	
Angular Coverage (deg)	210	Amplitude/Phase Measurement Crossover (samples)	12
Maximum Ping Rate (Hz)	60	Amplitude Detect Denominator	6
Along Track Beam Width (deg)	1.9		
Across Track Beam Width (deg)	0.9	**Estimation Graph Parameters**	
Pulse Length (ms)	0.03	Number of Beams	512
Sector Steering Angle (deg)	361	Depth of Bottom (m)	20
Frequency (kHz)	400.0	Roll Angle (deg)	0.0
Receive Bandwidth (kHz)	6	Pitch Angle (deg)	0.0
Range Sampling Resolution (m)	0.0125		

Environment			
Speed of Sound (m/s)	1529	Sound Speed Sensor Uncertainty (m/s)	0.50
Peak-to-Peak Swell (m)	1.0	Surface Sound Speed Uncertainty (m/s)	0.25
F-A Seafloor Slope (deg)	0.0	Spatio-Temporal Variation (m/s)	1.00
P-S Seafloor Slope (deg)	0.0	Thickness of S-T Layer (m)	10.0
Water Level Uncertainty (m)	0.02	Sound Speed Uncertainty Beyond SV Profile	0.00
Spatial Tide Prediction Uncertainty (m)	0.02	Maximum Depth of SV Profile	21.0

Sensor Info

	Physical Offsets			Sensor Offset Uncertainty		
	Position	MRU	Transducer	Position	MRU	Transducer
Starboard	0.00	0.00	0.00	0.01	0.01	0.01
Forward	0.00	0.00	0.00	0.01	0.01	0.01
Vertical (+ Down)	0.00	0.00	0.00	0.01	0.01	0.01

Survey Speed (kts)	5.0	Fixed Heave Uncertainty (m)	0.02
Speed Uncertainty (m/s)	0.1	Heave (% of Heave Amplitude)	5.00
Roll Offset Angle of Transducer (deg)	0.00	Roll Sensor Uncertainty (deg)	0.02
Pitch Offset Angle of Transducer (deg)	0.00	Pitch Sensor Uncertainty (deg)	0.02
Heading Offset Angle of Transducer (deg)	0.00	Roll Offset Uncertainty (deg)	0.05
Transducer Draft (m)	1.050	Pitch Offset Uncertainty (deg)	0.50
		Yaw Offset Uncertainty (deg)	0.50
Positioning System Uncertainty (m) dmrs	0.07	Positioning Time Lag (ms)	0.20
Heading Uncertainty (deg)	0.02	MRU Time Lag (s)	0.005
		Transducer Time Lag (s)	0.005
Draft Uncertainty (m)	0.02	Latency (s)	0.000
Squat Uncertainty (m)	0.02		
Loading Changes (m)	0.02		