USGS SPCMSC FACS Overview Log - Swath Acquisition

USGS SPCMSC FAN#	12BIM03
Location	BERM / Chandeleur Islands
Date (s)	7/23/2012 start
DOY_YY	205
Survey Vessel or Platform	R/V Survey Cat
Swath System/Frequency	SEA SWATHplus-H / 200KHz
SWATH*plus* version for acquisition	SWATHplus 3.7.10v
SXS file used for acquisition (if changes note the name and day)	
Navigation for acquisition system (i.e OmniSTAR, WAAS, CORS Station, RTK)	OmniSTAR but also collecting Base Station Data
Boat Motion for acquisition (i.e. F180, F190, F190R= wet pod, TSS)	F190R
Collecting External GPS for Navigation? (i.e. Ashtech Receivers)	No (Yes) If yes fill in information below
Base Information	Receiver Model: Ashtech Z-Xtreme; Ant. Height (m): ; Ant. P/N#:
Boat Information	Receiver Model: Ashtech Z-Xtreme; Ant. Height (m): ; Ant. P/N#:
Center of Reference Point (CRP) for acquisition (i.e. F190, swath tranducers,	F190R
SOS Sensor at head?	Working / Yes
SVP Profiles (detailed log attached)	
Technician(s)	Dana Wiese, Newey T. DeWitt

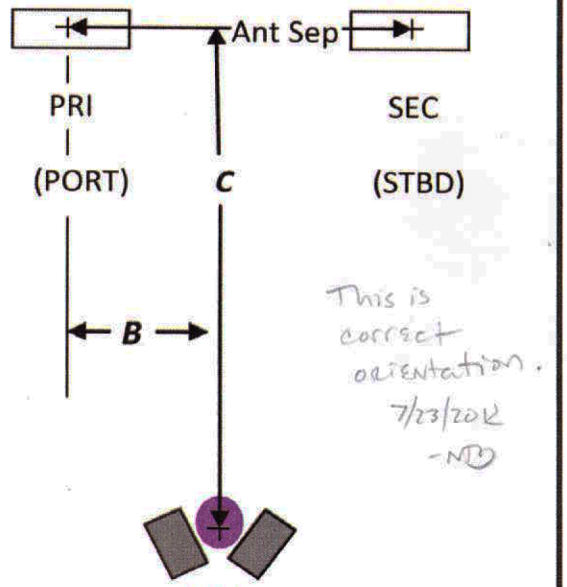
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USGS SPCMSC FAN#	12BIM03	**Survey Vessel**	R/V Survey Cat
F190 Program Version	4.05v	**File Name**	

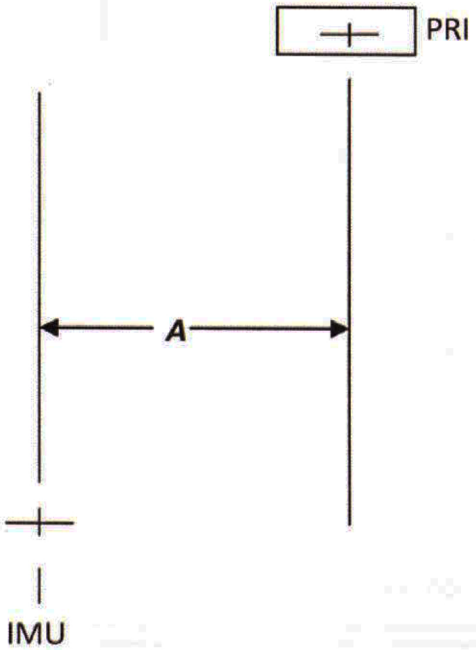
Are F190R antenna offsets entered into the F190 program? (if entered into F190 program then the 'Position Antenna' tab in SWATHplus will be zeros. YES or NO

All measurements relative to F190 PRIMARY antenna.

A = PRIMARY	Is how many meters **FORWARD** of the IMU?	0.281m
B = PRIMARY	Is how many meters **PORT** of the IMU?	0.781m
C = PRIMARY	Is how many meters **ABOVE** of the IMU?	+2.731m
Antenna Separation	How many meters between the Primary and Secondary Antennas	1.442m



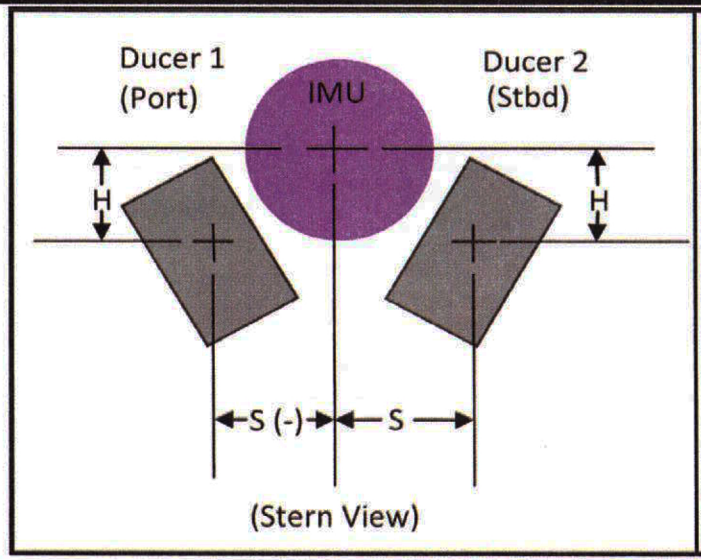
This is correct orientation. 7/23/20K -NB



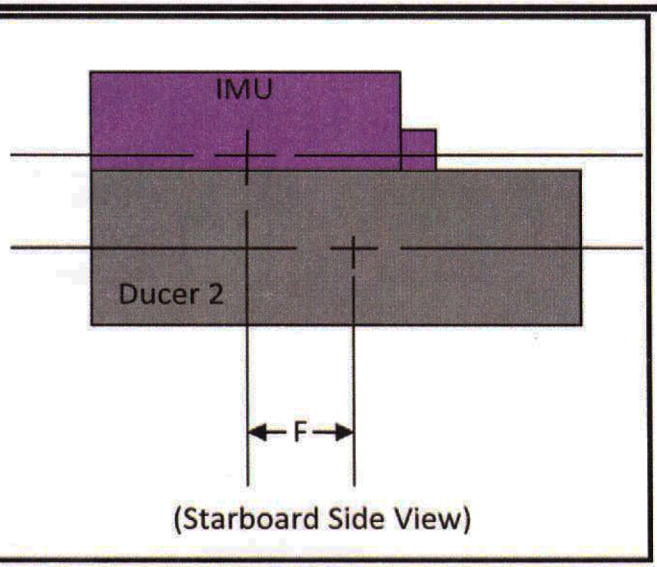
Note: On vessels of opportunity, the antennas may be oriented with the primary antenna toward the bow and the secondary toward the stern (in a parallel orientation to the hull, lengthwise). If so indicate in space the space below.

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USGS SPCMSC FAN#	12BIM03		
SXS File(s)	12BIM03_205-1625.SXS		
Transducer 01 - Port		**Transducer 02-Starboard**	
(H) Height Offset (m) DOWN is +	0.132 m	**(H) Height Offset (m) DOWN is +**	0.132 m
(F) Forward Offset (m) FORWARD is +	0.12710 m	**(F) Forward Offset (m) FORWARD is +**	0.12710 m
(S) Starboard Offset (m) Port is -	-0.0881 m	**(S) Starboard Offset (m) STBD is +**	0.0881 m
Azimuth Offset (deg) Port is -90	-90.00	**Azimuth Offset (deg) STBD is +90**	+90.0
Elevation Offset (deg) Port is -30	-30.00	**Elevation Offset (deg) STBD is -30**	-30.00
Skew Offset (deg)	0.00	**Skew Offset (deg)**	0.00
Pitch Offset (deg)	0.00	**Pitch Offset (deg)**	0.00
Water Depth for SOS calculaton (m)	0.50m	**Water Depth for SOS calculaton (m)**	0.50
Is there a heave offset value entered in the attitude sensor tab?	No value entered		



(Stern View)



(Starboard Side View)