

Surface Water and Ocean Topography (SWOT) Trajectory Type Properties

SWOT is a nadir-looking dual frequency (Ku and C band) radar altimeter placed in a non-sun-synchronous orbit at an altitude of 890 km. It operates at a central frequency of 13.575 GHz for Ku-band and 5.3 GHz for C-band. The SWOT nadir altimeter main aim is to measure the global sea surface topography, sea level rise, wave height and wind speed.

To learn more about SWOT, see [Jet Propulsion Laboratory](#).

Product	Reduced		Native			Sensor			
	1Hz_Ku	1Hz_C	1Hz_Ku	20Hz_C	20Hz_Ku	1Hz_C	1Hz_Ku	20Hz_C	20Hz_Ku
SSH (Sea Surface Height)	altitude (m) - (range_ocean (m) + rad_wet_tropo_cor (m) + model_dry_tropo_cor_zero_altitude (m) + iono_cor_alt (m) + sea_state_bias (m))		altitude (m) - (range_ocean (m) + rad_wet_tropo_cor (m) + model_dry_tropo_cor_zero_altitude (m) + iono_cor_alt (m) + sea_state_bias (m))				altitude (m) - (range_ocean (m) + rad_wet_tropo_cor (m) + model_dry_tropo_cor_zero_altitude (m) + iono_cor_alt (m) + sea_state_bias (m))		
SSHA (Sea Surface Height Anomaly)	ssha		ssha				ssha		
SWH (Significant Wave Height)	swh_ocean	swh_ocean	swh_ocean	swh_ocean	swh_ocean	swh_ocean	swh_ocean	swh_ocean	swh_ocean
SIGMA0_OCEAN (Ocean Surface Backscatter coefficient)	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean	sig0_ocean
SIC (Sea Ice Concentration)		sea_ice_concentration	sea_ice_concentration			sea_ice_concentration	sea_ice_concentration		
WS (Wind Speed)	wind_speed_alt	wind_speed_alt	wind_speed_alt			wind_speed_alt	wind_speed_alt		
H_MSS (Mean Sea Surface Elevation)	mean_sea_surface_cnescls	mean_sea_surface_cnescls	mean_sea_surface_cnescls			mean_sea_surface_cnescls	mean_sea_surface_cnescls		