

Sentinel-3 (SRAL) Trajectory Type Properties

Sentinel-3 SRAL is a dual frequency (Ku and C band) synthetic aperture radar altimeter mounted in two low earth polar orbit satellites, Sentinel-3A and Sentinel-3B. Both operate at a central frequency of 13.575 GHz for Ku-band and 5.41 GHz for C-band. The satellites collect data in two different modes- Low Resolution Mode (LRM) and Synthetic Aperture Radar (SAR) with a spatial resolution as narrow as 300m.

To learn more about Sentinel-3 SRAL, see [European Space Agency](#).

ProductFilter	Reduced		Standard				Enhanced			
FrequencyBand	1Hz_Ku	1Hz_C	1Hz_Ku	20Hz_C	20Hz_Ku	1Hz_C	1Hz_Ku	20Hz_C	20Hz_Ku	
PredefinedVariables	Variables									
SIGMA0 (Surface Backscatter coefficient)				sig0_ocog_20_C	sig0_ocog_20_ku			sig0_ocog_20_C	sig0_ocog_20_ku	
SSH (Sea Surface Height)	ssha_01_ku + mean_sea_surf_sol1_01		ssha_01_ku + mean_sea_surf_sol1_01		ssha_20_ku + mean_sea_surf_sol1_01_20_ku		ssha_01_ku + mean_sea_surf_sol1_01		ssha_20_ku + mean_sea_surf_sol1_01_20_ku	
SSHA (Sea Surface Height Anomaly)	ssha_01_ku		ssha_01_ku		ssha_20_ku		ssha_01_ku		ssha_20_ku	
SWH (Significant Wave Height)	swh_ocean_01_ku	swh_ocean_01_c	swh_ocean_01_ku	swh_ocean_20_c	swh_ocean_20_ku	swh_ocean_01_c	swh_ocean_01_ku	swh_ocean_20_c	swh_ocean_20_ku	
SIGMA0_OCEAN (Ocean Surface Backscatter coefficient)	sig0_ocean_01_ku	sig0_ocean_01_c	sig0_ocean_01_ku	sig0_ocean_20_c	sig0_ocean_20_ku	sig0_ocean_01_c	sig0_ocean_01_ku	sig0_ocean_20_c	sig0_ocean_20_ku	
H_SEA_ICE (Sea Ice Surface Elevation)					sea_ice_sea_surf_20_ku				sea_ice_sea_surf_20_ku	
H_SEA_ICE_ANOMALY (Sea Ice Surface Height Anomaly)					sea_ice_ssh_20_ku				sea_ice_ssh_20_ku	
SIC (Sea Ice Concentration)					sea_ice_concentration_20_ku				sea_ice_concentration_20_ku	

SIGMA0_SEA_ICE (Sea Ice Surface Backscatter coefficient)					sig0_sea_ice_sheet_20_ku				sig0_sea_ice_sheet_20_ku
H_ICE_SHEET (Ice Sheet Surface elevation)					elevation_ice_sheet_20_ku				elevation_ice_sheet_20_ku
SIGMA0_ICE_SHEET (Ice Sheet Surface Backscatter coefficient)				sig0_ice_sheet_20_c	sig0_ice_sheet_20_ku			sig0_ice_sheet_20_c	sig0_ice_sheet_20_ku
H_ICE (Ice Surface elevation)					elevation_ocog_20_ku				elevation_ocog_20_ku
SIGMA0_ICE (Ice Surface Backscatter coefficient)				sig0_ice_20_c	sig0_ice_20_ku			sig0_ice_20_c	sig0_ice_20_ku
WS (Wind Speed)	wind_speed_alt_01_ku		wind_speed_a_01_ku				wind_speed_alt_01_ku		
H_MSS (Mean Sea Surface Elevation)	mean_sea_surf_sol1_01	mean_sea_surf_sol1_01	mean_sea_surf_sol1_01	mean_sea_surf_sol1_20_c	mean_sea_surf_sol1_20_ku	mean_sea_surf_sol1_01	mean_sea_surf_sol1_01	mean_sea_surf_sol1_20_c	mean_sea_surf_sol1_20_ku