

JASON-3 Trajectory Type Properties

Jason-3 is a nadir-looking dual frequency (Ku and C band) radar altimeter placed in a non-sun-synchronous orbit at an altitude of 1336 km. It operates at a central frequency of 13.575 GHz for Ku-band and 5.3 GHz for C-band. It is the follow-on altimetry mission of the Jason-2 designed to measure a global sea surface topography, sea level rise, wave height and wind speed.

Older datasets have different variable naming conventions. Hence some predefined variables have 2 sets of variable names from the dataset (As of August 2023).

To learn more about Jason-3, 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
SIGMA0 (Surface Backscatter coefficient)	#1= sig0_ku #2 = sig0_ocean	#1 = sig0_c#2 = sig0_ocean	#1= sig0_ku #2 = sig0_ocean	#1 = sig0_20hz_c #2 = sig0_ocean	#1 = sig0_20hz_ku #2 = sig0_ocean	#1 = sig0_c #2 = sig0_ocean	#1= sig0_ku #2 = sig0_ocean	#1 = sig0_20hz_c #2 = sig0_ocean	#1 = sig0_20hz_ku #2 = sig0_ocean
SSH (Sea Surface Height)	#1 = alt - (range_ku+rad_wet_tropo_corr+model_dry_tropo_corr+iono_corr_alt_ku+sea_state_bias_ku) #2 = altitude - (range_ocean + rad_wet_tropo_cor+model_dry_tropo_cor_zero_altitude + iono_cor_alt + sea_state_bias)		#1 = alt - (range_ku+rad_wet_tropo_corr+model_dry_tropo_corr+iono_corr_alt_ku+sea_state_bias_ku) #2 = altitude - (range_ocean + rad_wet_tropo_cor+model_dry_tropo_cor_zero_altitude + iono_cor_alt + sea_state_bias)				#1 = alt - (range_ku+rad_wet_tropo_corr+model_dry_tropo_corr+iono_corr_alt_ku+sea_state_bias_ku) #2 = altitude - (range_ocean + rad_wet_tropo_cor+model_dry_tropo_cor_zero_altitude + iono_cor_alt + sea_state_bias)		
SSHA (Sea Surface Height Anomaly)	ssha		ssha				ssha		
SWH (Significant Wave Height)	#1 = swh_ku #2 = swh_ocean	#1 = swh_c #2 = swh_ocean	#1 = swh_ku #2 = swh_ocean	#1 = swh_20hz_c #2 = swh_ocean	#1 = swh_20hz_ku #2 = swh_ocean	#1 = swh_c #2 = swh_ocean	#1 = swh_ku #2 = swh_ocean	#1 = swh_20hz_c #2 = swh_ocean	#1 = swh_20hz_ku #2 = swh_ocean
SIGMA0_ICE (Ice Surface Backscatter coefficient)				ice_sig0_20hz_c	ice_sig0_20hz_ku			ice_sig0_20hz_c	ice_sig0_20hz_ku
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	mean_sea_surface	mean_sea_surface			mean_sea_surface	mean_sea_surface		