WW3-HyCOM

Model	**Wind Wave Watch 3 - HyCOM (Hybrid Coordinate Ocean Model) with WAM 4 Distribution**
Model Features	**SWAN (Simulating WAve Nearshore) WAM Cycle 4 bottom scattering, surf zone physics and wetting/drying** **The model includes several alleviation methods for the Garden Sprinkler Effect,** **new spectral wave partitions,** **new gridded files output available up to 31,** **"Mosaic approach" is available where an arbitrary number of grids can be considered with full two-way interactions between all grids (useful for moving grid modelling of hurricanes away from the coast)**
Border initialization	**GFS 0.25, WRF 0.1 model time step 5 seconds**
Integration	**Global 240 h, High resolution Nesting 180 h**
Nesting	**Mediterranean sea, Pacific Ocean, Indian Ocean, Atlantic Ocean**
Resolution:	**Global 0.5° Nesting over Mediterranean sea 0,04° Oceans 0,25°**

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Output parameter

Parameter	*Parameter name*	*Unit*
Wind intensity and direction	10m_wind	degrees,Knots
Mean sea level pressure	mean_sea_level_pressure	Ectopascal
Peak direction	peak_direction	*sextile* quadrants
Sea current intensity and direction and Wex file	current, 10mt_winds	degrees,Knots
Spread direction	direction_spread	*sextile* quadrants
Primary wave direction	mean_direction	degrees
Primary wave period	mean_period	seconds
Peak Period	peak_period	seconds
Wave significant height	wave_height	meter
Wave significant lenght	wave_lenght	meter
Swell wave direction	swell_direction	*sextile* quadrants
Swell wave height	swell_height	meter
Swell wave period	swell period	seconds
Wind sea wave direction	wind_sea_dir	*sextile* quadrants
Wind sea wave height	wind_sea_height	meter
Wind sea wave period	wind_sea_period	meter