

N	standard name	old standard name	comment
N2	sea_surface_height_above_reference_ellipsoid	<i>unchanged</i>	
	sea_surface_height_above_geoid	<i>unchanged</i>	zos in CMIP = N2 in (probably all) ocean models, which assume geoid = reference ellipsoid
	sea_surface_height_above_geopotential_datum	<i>unchanged</i>	
	sea_surface_height_above_mean_sea_level	<i>unchanged</i>	
	square_of_sea_surface_height_above_geoid	<i>unchanged</i>	zossq in CMIP
N3	mean_sea_level_height_above_reference_ellipsoid	<i>new</i>	MSL assumes mean tide and zero air pressure anomaly i.e. notionally the climatological mean SSH
-N4	sea_floor_depth_below_reference_ellipsoid	<i>unchanged</i>	N4 is defined as "sea floor height above reference ellipsoid" i.e. a negative number in most places, but we haven't been asked for such a standard name
N5	geoid_height_above_reference_ellipsoid	<i>unchanged</i>	
N6		<i>new names for tides are under discussion in #287 and #288</i>	
-N7	change_in_sea_surface_height_due_to_change_in_air_pressure	<i>new, proposed in https://github.com/cf-convention/discuss/issues/286</i>	Defined as a negative number (SSH falls) for a positive air pressure anomaly; N7 is defined as a positive number (a depression of SSH) for a positive air pressure anomaly
-N7	change_in_mean_sea_level_due_to_change_in_air_pressure	<i>new</i>	following the previous example
-N7	change_in_sea_surface_height_due_to_change_in_air_pressure_and_wind_at_high_frequency	sea_surface_height_correction_due_to_air_pressure_and_wind_at_high_frequency	Following the pattern of the proposed change_in_sea_surface_height_due_to_change_in_air_pressure, in order to make the sign clear, whereas "correction" is not clear (although the definition clarifies it)
-N7	change_in_sea_surface_height_due_to_change_in_air_pressure_at_low_frequency	sea_surface_height_correction_due_to_air_pressure_at_low_frequency	as previous
N10	sea_surface_ [primary_ secondary_ tertiary_] swell_wave_significant_height	<i>unchanged</i>	

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N10	sea_surface_ [wind_] wave_significant_height	<i>unchanged</i>	
N10	sea_surface_wave_significant_period	<i>unchanged</i>	
	sea_surface_height_above_reference_ellipsoid_assuming_zero_air_pressure_anomaly_and_mean_tide	<i>new, proposed in https://github.com/cf-convention/discuss/issues/285</i>	
N11	ocean_dynamic_sea_level	<i>new</i>	MSL wrt geoid, with the geopotential defining the geoid chosen such that the global mean of this quantity is zero
N13	change_in_ocean_dynamic_sea_level	<i>new</i>	change in MSL wrt geoid, where the geoid changes along with global mean sea level, such that global mean of this quantity is zero
N14	change_in_mean_sea_level_ wrt_reference_ellipsoid	<i>new</i>	geocentric sea level change
N15	change_in_mean_sea_level_ wrt_solid_surface	<i>new, proposed in https://github.com/cf-convention/discuss/issues/311</i>	relative sea level change
N16	[halo thermo] steric_change_in_sea_surface_height	<i>unchanged</i>	
N16	[halo thermo] steric_change_in_mean_sea_level	<i>unchanged</i>	
N17	global_mean_thermosteric_sea_level_change	global_average_thermosteric_sea_level_change	zostoga in CMIP, replacing "average" with "mean"
	global_mean_steric_sea_level_change	global_average_steric_sea_level_change	should be practically equal to zostoga
N18	manometric_change_in_sea_surface_height	<i>new</i>	
N18	manometric_change_in_mean_sea_level	<i>new</i>	
N19	global_mean_sea_level_change_due_to_change_in_ocean_mass	<i>new, currently proposed as global_average_sea_level_change_due_to_change_in_ocean_mass in https://github.com/cf-convention/discuss/issues/314</i>	barystatic sea level change, replacing "average" with "mean"
N20	sterodynamic_change_in_sea_level	<i>new</i>	= zos + zostoga = sum of global_mean_thermosteric_sea_level_change and change_in_ocean_dynamic_sea_level
N21	change_in_height_of_solid_surface_ wrt_reference_ellipsoid	<i>new</i>	vertical land movement
N22	change_in_mean_sea_level_due_to_change_in_geoid_and_solid_earth_deformation	<i>new</i>	GRD-induced relative sea level change

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	change_in_mean_sea_level_due_to_change_in_global_ocean_mass_and_geoid_and_solid_earth_deformation	<i>new</i>	sum of barystatic SLC and GRD-induced RSL change
N26	global_mean_sea_level_change	global_average_sea_level_change	replacing "average" with "mean"
N27	change_in_mean_sea_level_wrt_reference_ellipsoid with area: mean in cell_methods		global mean geocentric sea level change, which is exactly the global mean of N14, so it does not need a standard name of its own
	amplitude_of_global_mean_sea_level_change	amplitude_of_global_average_sea_level_change	replacing "average" with "mean", but not sure what this means from the existing definition, which should be clarified; I guess it was intended to refer to the seasonal cycle
	phase_of_global_mean_sea_level_change	phase_of_global_average_sea_level_change	goes with the previous one, replacing "average" with "mean"
	rate_of_global_mean_sea_level_change	tendency_of_global_average_sea_level_change	replacing "average" with "mean", canonical unit $m s^{-1}$, in practice usually mm per year; I think "tendency of ... change" is potentially confusing, since it might sound like an acceleration