Copernicus Marine In Situ TAC Parameters list – V3.3.0 - https://doi.org/10.13155/53381

	variable name	long_name	unit	CF standard_name	additional attributes ('O'ptional or 'M'andatory)	SDN Param	SDN UoM
Coordinates							
	TIME	Time	days since 1950-01-01T00:00:00Z	time	-	-	-
	LATITUDE	Latitude of each location	degree_north	latitude	-	-	-
	LONGITUDE	Longitude of each location	degree_east	longitude	-	-	-
	DEPLOY_LATITUDE	**Latitude of each deployment**	**degree_north**	**deployment_latitude**	**-**	**-**	**-**
	DEPLOY_LONGITUDE	**Longitude of each deployment**	**degree_east**	**deployment_longitude**	**-**	**-**	**-**
	PRECISE_LATITUDE	**Latitude of each location**	**degree_north**	**latitude**	**-**	**-**	**-**
	PRECISE_LONGITUDE	**Longitude of each location**	**degree_east**	**longitude**	**-**	**-**	**-**
	DEPH	Depth	m	depth	-	SDN:P01::ADEPZZ01	SDN:P06::ULAA
	PRES	Sea pressure	dbar	sea_water_pressure	-	SDN:P01::PRESPR01	SDN:P06::UPDB
Coordinates (HF radar specific)							
	BEAR [3]	Bearing away from instrument	degree_true	*TBD*	-	SDN:P01::BEARRFTR	SDN:P06::UABB
	RNGE [3]	Range away from instrument	km	*TBD*	-	SDN:P01::RIFNAX01	SDN:P06::ULKM
Coordinates (Wave spectra specific)							
	FREQ	Central frequency of the band	s-1	wave_frequency	-	*TBD*	SDN:P06::PRSC
Physical oceanography							
	TEMP	Sea temperature	degrees_C	sea_water_temperature	-	SDN:P01::TEMPPR01	SDN:P06::UPAA
	PSAL	Practical salinity	0.001	sea_water_practical_salinity	-	SDN:P01::PSLTZZ01	SDN:P06::UUUU
	CNDC	Electrical conductivity	S m-1	sea_water_electrical_conductivity	-	SDN:P01::CNDCZZ01	SDN:P06::UECA
	DENS	Sea density (sigma-theta)	kg m-3	sea_water_sigma_theta	-	SDN:P01::SIGTEQ01	SDN:P06::UKMC
	SIGT	**Sea density (sigma-t)**	**kg m-3**	**sea_water_sigma_t**	**-**	**SDN:P01::SIGTEQST**	**SDN:P06::UKMC**
	SVEL	Sound velocity	m s-1	speed_of_sound_in_sea_water	-	SDN:P01::SVELXXXX	SDN:P06::UVAA
	BATH	Bathymetric depth	m	sea_floor_depth_below_sea_surface	-	SDN:P01:MBANZZZZ	SDN:P06::ULAA
	HCSP	Horizontal current speed	m s-1	sea_water_speed	-	SDN:P01::LCSAZZ01	SDN:P06::UVAA
	HCDT	Current to direction relative true north	degree	direction_of_sea_water_velocity	-	SDN:P01::LCDAZZ01	SDN:P06::UABB
	EWCT	West-east current component	m s-1	eastward_sea_water_velocity	-	SDN:P01::LCEWZZ01	SDN:P06::UVAA
	NSCT	South-north current component	m s-1	northward_sea_water_velocity	-	SDN:P01::LCNSZZ01	SDN:P06::UVAA
	VCSP	Bottom-top current component	m s-1	upward_sea_water_velocity	-	SDN:P01::LRZAZZZZ	SDN:P06::UVAA
	RDVA [3]	Radial sea water velocity away from instrument	m s-1	radial_sea_water_velocity_away_from _instrument	-	SDN:P01::LCSAWVRD	SDN:P06::UVAA
	DRVA [3]	Direction of radial vector away from instrument	degree_true	direction_of_radial_vector_away_from_instrument	-	SDN:P01::LCDAWVRD	SDN:P06::UABB
Sea Level							
	SLEV	Water surface height above a specific datum	m	water_surface_height_above_reference_datum	time_sampling = n (M, in minutes) sea_level_datum = "chart datum", "geodetic datum", "…" (M) processing_method = "instantaneous values", "filtered values", "average", "…" (M) TGBM_name = "..." (O) TGBM_sea_level_datum = n (O) co_location_with_GNSS = "*Distance* (km)", "No", "Unknown" (O) TGBM_ellipsoidal_height_estimate = n (O) vertical_land_movement_estimate = "*trend (mm/year) - period*", "unknown" (O) GNSS_campaign = "Yes", "No" (O) comment="…" (O)	SDN:P01::ASLVZZ01	SDN:P06::ULAA
	SLVR	**Non tidal elevation of sea surface height**	**m**	**non_tidal_elevation_of_sea_surface_height**	**time_sampling = n (M, in minutes) sea_level_datum = "chart datum", "geodetic datum", "…" (M) processing_method = "instantaneous values", "filtered values", "average", "…" (M) comment="…" (O)**	**SDN:P01::ASLVR101**	**SDN:P06::ULAA**
	TIDE	**Tidal sea surface height above a specific datum**	**m**	**tidal_sea_surface_height_above_reference_datum [1]**	**time_sampling = n (M, in minutes) sea_level_datum = "chart datum", "geodetic datum", "…" (M) processing_method = "instantaneous values", "filtered values", "average", "…" (M) comment="…" (O)**	**SDN:P01::ASLVTI01**	**SDN:P06::ULAA**
Waves							
	VGHS	Generic significant wave height (Hs)	m	sea_surface_wave_significant_height	type_of_analysis="unknown" (M)	SDN:P01::GTDHZZ01	SDN:P06::ULAA
	VHM0	Spectral significant wave height (Hm0)	m	sea_surface_wave_significant_height	type_of_analysis="spectral analysis" (M)	SDN:P01::HMZEZZ01	SDN:P06::ULAA
	VAVH	Average height highest 1/3 wave (H1/3)	m	sea_surface_wave_significant_height	type_of_analysis="zero crossing" (M)	SDN:P01::GAVHZZ01	SDN:P06::ULAA
	VH110 [2]	Average height highest 1/10 wave (H1/10)	m	sea_surface_wave_mean_height_of_highest_tenth	type_of_analysis="zero crossing" (M)	SDN:P01::GTDTZZ01	SDN:P06::ULAA
	VHZA	Average zero crossing wave height (Hzm)	m	sea_surface_wave_mean_height	type_of_analysis="zero crossing" (M)	SDN:P01::HZAVZZ01	SDN:P06::ULAA
	VEMH	Estimated maximum wave height	m	sea_surface_wave_maximum_height	type_of_analysis="unknown" (M)	SDN:P01::GCMXVS01	SDN:P06::ULAA
	VZMX	Maximum zero crossing wave height (Hmax)	m	sea_surface_wave_maximum_height	type_of_analysis="zero crossing" (M)	SDN:P01::GZMXZZ01	SDN:P06::ULAA
	VCMX	Maximum crest trough wave height (Hc,max)	m	sea_surface_wave_maximum_height	type_of_analysis="crests" (M)	SDN:P01::GCMXZZ01	SDN:P06::ULAA
	~~**VMNL**~~	~~**Depth of the deepest trough**~~	~~**m**~~	~~**sea_surface_wave_maximum_trough_depth**~~	~~**type_of_analysis="crests" (M)**~~	~~**SDN:P01:GMNLZZ01**~~	~~**SDN:P06::ULAA**~~
	VMXL	Height of the highest crest	m	sea_surface_wave_maximum_crest_height	type_of_analysis="crests" (M)	SDN:P01::GMXLZZ01	SDN:P06::ULAA
	SWHT	**Swell height**	**m**	**sea_surface_swell_wave_significant_height**	**type_of_analysis="spectral analysis" (M)**	**SDN:P01::GHSWZZ01**	**SDN:P06::ULAA**
	VM01	**Spectral moments (0,1) wave period (Tm01)**	**s**	**sea_surface_wave_mean_period_from_variance_spectral_density_first_frequency_moment**	**type_of_analysis="spectral analysis" (M)**	**SDN:P01::GTZAM1ZZ**	**SDN:P06::UTBB**
	VTM02 [2]	Spectral moments (0,2) wave period (Tm02)	s	sea_surface_wave_mean_period_from_variance_spectral_density_second_frequency_moment	type_of_analysis="spectral analysis" (M)	SDN:P01::GTZAM2ZZ	SDN:P06::UTBB
	VTM10 [2]	Spectral moments (-1,0) wave period (Tm-10)	s	sea_surface_wave_mean_period_from_variance_spectral_density_inverse_frequency_moment	type_of_analysis="spectral analysis" (M)	SDN:P01::GTZAMIZZ	SDN:P06::UTBB
	VTZA	Average zero crossing wave period (Tz)	s	sea_surface_wave_mean_period	type_of_analysis="zero crossing" (M)	SDN:P01::GTZAZZ01	SDN:P06::UTBB
	VGTA	Generic average wave period	s	sea_surface_wave_mean_period	type_of_analysis="unknown" (M)	SDN:P01::GTAMZZ01	SDN:P06::UTBB
	VTPK	Wave period at spectral peak / peak period (Tp)	s	sea_surface_wave_period_at_variance_spectral_density_maximum	type_of_analysis="spectral analysis" (M)	SDN:P01::GTPKZZ01	SDN:P06::UTBB
	VAVT	Average period highest 1/3 wave (T1/3)	s	sea_surface_wave_significant_period	type_of_analysis="zero crossing" (M)	SDN:P01::GTZHZZ01	SDN:P06::UTBB
	VT110 [2]	Average period highest 1/10 wave (T1/10)	s	sea_surface_wave_mean_period_of_highest_tenth	type_of_analysis="zero crossing" (M)	SDN:P01::GTZHTN01	SDN:P06::UTBB
	VTMX	Maximum wave period (Tmax)	s	sea_surface_wave_maximum_period	type_of_analysis="zero crossing" (M)	SDN:P01::GTZMZZ01	SDN:P06::UTBB
	VTZM	Period of the highest wave (Thmax)	s	sea_surface_wave_period_of_highest_wave	type_of_analysis="zero crossing" (M)	SDN:P01::GTHMXX01	SDN:P06::UTBB
	VMDR	Mean wave direction from (Mdir)	degree	sea_surface_wave_from_direction	type_of_analysis="spectral analysis" (M)	SDN:P01::GMWDZZ01	SDN:P06::UABB
	VDIR	Wave direction rel. true north	degree	sea_surface_wave_from_direction	type_of_analysis="unknown" (M)	SDN:P01::GWDRZZ01	SDN:P06::UABB
	VPED	Wave principal direction at spectral peak	degree	sea_surface_wave_from_direction_at_variance_spectral_density_maximum	type_of_analysis="spectral analysis" (M)	SDN:P01::GPEDZZ01	SDN:P06::UABB
	VEPK	Wave spectrum peak energy (Smax)	m2 s	sea_surface_wave_energy_at_variance_spectral_density_maximum	type_of_analysis="spectral analysis" (M)	SDN:P01::GEPKZZ01	SDN:P06::UMHZ
	VST1	Maximum wave steepness	1	sea_surface_wave_maximum_steepness	type_of_analysis="unknown" (M)	SDN:P01::WVSTZZ01	SDN:P06::UUUU
	VPSP	Wave directional spreading at spectral peak	degree	sea_surface_wave_directional_spread_at_variance_spectral_density_maximum	type_of_analysis="spectral analysis" (M)	SDN:P01::GSPRZZ01	SDN:P06::UAAA
	VSPEC1D [2][4]	Wave scalar spectral density	m2 s	sea_surface_wave_variance_spectral_density	type_of_analysis="1st order spectral analysis" (M)	*TBD*	SDN:P06::M2SX
	THETA1 [2][4]	Mean wave from direction	degree	sea_surface_wave_from_direction	type_of_analysis="1st order spectral analysis" (M)	*TBD*	SDN:P06::UABB
	STHETA1 [2][4]	Directional spread around THETA1	degree	sea_surface_wave_directional_spread	type_of_analysis="1st order spectral analysis" (M)	*TBD*	SDN:P06::UAAA
	THETA2 [2][4]	Principal wave from direction	degree	sea_surface_wave_from_direction	type_of_analysis="2nd order spectral analysis" (M)	*TBD*	SDN:P06::UABB
	STHETA2 [2][4]	Directional spread around THETA2	degree	sea_surface_wave_directional_spread	type_of_analysis="2nd order spectral analysis" (M)	*TBD*	SDN:P06::UAAA
BGC							
	DOXY	Dissolved oxygen	mmol m-3	mole_concentration_of_dissolved_molecular_oxygen_in_sea_water	-	SDN:P01::DOXYZZXX	SDN:P06::UPOX
	DOX1	Dissolved oxygen	ml l-1	volume_fraction_of_oxygen_in_sea_water	-	SDN:P01::DOXYZZXX	SDN:P06::UMLL
	DOX2	Dissolved oxygen	µmol kg-1	moles_of_oxygen_per_unit_mass_in_sea_water	-	SDN:P01::DOXMZZXX	SDN:P06::KGUM
	OSAT	Oxygen saturation	%	fractional_saturation_of_oxygen_in_sea_water	-	SDN:P01::OXYSZZ01	SDN:P06::UPCT
	TICW	Dissolved inorganic carbon	µmol kg-1	moles_of_dissolved_inorganic_carbon_per_unit_mass_in_sea_water	-	*TBD*	*TBD*
	CORW [2]	Dissolved organic carbon	µmol kg-1	*TBD*	-	*TBD*	*TBD*
	PCO2	CO2 partial pressure	µatm	surface_partial_pressure_of_carbon_dioxide_in_sea_water	-	SDN:P01::PCO2XXXX	SDN:P06::UATM
	FCO2	CO2 fugacity	µatm	fugacity_of_carbon_dioxide_in_sea_water	-	SDN:P01::FCO2XXXX	SDN:P06::UATM
	CPHL	Chlorophyll-a	mg m-3	mass_concentration_of_chlorophyll_a_in_sea_water	-	SDN:P01::CPHLZZXX	SDN:P06::UMMC
	CHLT	Total chlorophyll	mg m-3	mass_concentration_of_chlorophyll_in_sea_water	-	SDN:P01::CHLTVOLU	SDN:P06::UMMC
	FLU2	Chlorophyll-a fluorescence	mg m-3	mass_concentration_of_chlorophyll_a_fluorescence_in_sea_water [1]	-	SDN:P01::CPHLPM01	SDN:P06::UMMC
	CDOM	Cdom	1e-9	concentration_of_colored_dissolved_organic_matter_in_sea_water_expressed_as_equivalent_mass_fraction_of_quinine_sulfate_dihydrate	-	SDN:P01::FLUOCDOM	SDN:P06::UUUU
	TUR4	Turbidity	1	sea_water_turbidity	-	SDN:P01::TURBXXXX	SDN:P06::USTU
	TSMP	Total suspended matter	g m-3	mass_concentration_of_suspended_matter_in_sea_water	-	SDN:P01::TSEDZZZZ	SDN:P06::UMGL
	NTRA	Nitrate (NO3-N)	mmol m-3	mole_concentration_of_nitrate_in_sea_water	-	SDN:P01::NTRAZZXX	SDN:P06::UPOX
	NTAW	Nitrate (NO3-N)	µmol kg-1	moles_of_nitrate_per_unit_mass_in_sea_water	-	SDN:P01::MDMAP005	SDN:P06::KGUM
	NTRI	Nitrite (NO2-N)	mmol m-3	mole_concentration_of_nitrite_in_sea_water	-	SDN:P01::NTRIZZXX	SDN:P06::UPOX
	NTIW	Nitrite (NO2-N)	µmol kg-1	moles_of_nitrite_per_unit_mass_in_sea_water	-	SDN:P01::MDMAP007	SDN:P06::KGUM
	NTRZ	Nitrate + Nitrite	mmol m-3	mole_concentration_of_nitrate_and_nitrite_in_sea_water	-	SDN:P01::NTRZZZXX	SDN:P06::UPOX
	PHOS	Phosphate (PO4-P)	mmol m-3	mole_concentration_of_phosphate_in_sea_water	-	SDN:P01::PHOSZZXX	SDN:P06::UPOX
	PHOW	Phosphate (PO4-P)	µmol kg-1	moles_of_phosphate_per_unit_mass_in_sea_water	-	SDN:P01::MDMAP906	SDN:P06::KGUM

	SLCA	Silicate (SIO4-SI)	mmol m-3	mole_concentration_of_silicate_in_sea_water	-	SDN:P01::SLCAZZXX	SDN:P06::UPOX
	SLCW	Silicate (SIO4-SI)	µmol kg-1	moles_of_silicate_per_unit_mass_in_sea_water	-	SDN:P01::MDMAP012	SDN:P06::KGUM
	AMON	Ammonium (NH4-N)	mmol m-3	mole_concentration_of_ammonium_in_sea_water	-	SDN:P01::AMONZZXX	SDN:P06::UPOX
	NGDW (2)	Dissolved nitrogen	µmol kg-1	*TBD*	-	*TBD*	*TBD*
	NODW	Dissolved organic nitrogen	µmol kg-1	*TBD*		SDN:P01::MDMAP008	SDN:P06::KGUM
	ALKY	Total alkalinity	mmol m-3	sea_water_alkalinity_expressed_as_mole_equivalent	-	SDN:P01::ALKYZZXX	SDN:P06::UPOX
	ALKW	Total alkalinity	µmol kg-1	sea_water_alkalinity_per_unit_mass (1)	-	SDN:P01::MDMAP014	SDN:P06::KGUM
	PHPH	Ph	1	sea_water_ph_reported_on_total_scale	-	SDN:P01::PHXXZZXX	SDN:P06::UUPH
	PH25 (2)	Ph at 25 °C and 0 dbar	1	*TBD*	-	SDN:P01::PHTLSX25	SDN:P06::UUPH
	BCCW	**Abundance of bacteria**	**10+9 m-3**	*TBD*	**-**	**SDN:P01::TBCCXXXX**	**SDN:P06:UCUL**
Meteorological							
	WSPD	Horizontal wind speed	m s-1	wind_speed	-	SDN:P01::EWSBZZ01	SDN:P06::UVAA
	WDIR	Wind from direction relative true north	degree	wind_from_direction	-	SDN:P01::EWDAZZ01	SDN:P06::UABB
	GSPD	Gust wind speed	m s-1	wind_speed_of_gust	-	SDN:P01::EGTSZZ01	SDN:P06::UVAA
	GDIR	Gust wind from direction relative true north	degree	wind_gust_from_direction	-	SDN:P01::EGTDZZ01	SDN:P06::UABB
	WSPE	West-east wind component	m s-1	eastward_wind	-	SDN:P01::ESEWZZXX	SDN:P06::UVAA
	WSPN	South-north wind component	m s-1	northward_wind	-	SDN:P01::ESNSZZXX	SDN:P06::UVAA
	WSPU	**Bottom-top wind component**	**m s-1**	**upward_air_velocity**	**-**	**SDN:P01:ESZAZZ01**	**SDN:P06:UVAA**
	WBFO	Beaufort wind force	1	beaufort_wind_force	-	SDN:P01::WMOCWFBF	SDN:P06::UUUU
	DRYT	Air temperature in dry bulb	degrees_C	air_temperature	-	SDN:P01::CTMPZZ01	SDN:P06::UPAA
	WETT	Air temperature in wet bulb	degrees_C	wet_bulb_temperature	-	SDN:P01::CWETZZ01	SDN:P06::UPAA
	DEWT	Dew point temperature	degrees_C	dew_point_temperature	-	SDN:P01::CDEWZZ01	SDN:P06::UPAA
	RELH	Relative humidity	%	relative_humidity	-	SDN:P01::CRELZZ01	SDN:P06::UPCT
	ATMS	Atmospheric pressure at sea level	hPa	air_pressure_at_sea_level	-	SDN:P01::CAPAZZ01	SDN:P06::UPBB
	ATMP	Atmospheric pressure at altitude	hPa	air_pressure	-	SDN:P01::CAPHZZ01	SDN:P06::UPBB
	ATPT	Atmospheric pressure hourly tendency	hPa h-1	tendency_of_air_pressure	-	SDN:P01::APRESSTN	SDN:P06::HPAH
	RVFL	River flow rate	m3 s-1	water_volume_transport_into_sea_water_from_rivers	-	SDN:P01::RFDSCH01	SDN:P06::CMPS
	PRRT	Hourly precipitation rate (liquid water equivalent)	mm h-1	lwe_precipitation_rate	-	SDN:P01::CPRRRG01	SDN:P06::MMPH
	PRRD	Daily precipitation rate (liquid water equivalent)	mm d-1	lwe_precipitation_rate	-	SDN:P01::CPRRRG01	SDN:P06::MMPD
	SINC	Shortwave/solar incoming radiation	W m-2	surface_downwelling_shortwave_flux_in_air	-	SDN:P01::CSLRZZXX	SDN:P06::UFAA
	LINC	Longwave/atmospheric incoming radiation	W m-2	surface_downwelling_longwave_flux_in_air	-	SDN:P01::LWRDZZ01	SDN:P06::UFAA
	RDIN	Total incoming radiation	W m-2	surface_downwelling_radiative_flux_in_sea_water	-	SDN:P01:TLRDZZ01	SDN:P06::UFAA
	NRAD	Net total incoming radiation	W m-2	surface_net_downward_radiative_flux	-	SDN:P01:NTLRDZ01	SDN:P06::UFAA
	LGHT	Immerged incoming photosynthetic active radiation	µmol m-2 s-1	downwelling_photosynthetic_photon_flux_in_sea_water	-	SDN:P01::PARERXUD	SDN:P06::UMES
	LGH4	Surface incoming photosynthetic active radiation	µmol m-2 s-1	surface_downwelling_photosynthetic_photon_flux_in_air	-	SDN:P01::PARERXSD	SDN:P06::UMES

Remarks

(1) Standard name to be/being discussed by the CF community
(2) Codes not in the P09 list. Those with 4 characters need to be requested.
(3) For HF Radar data
(4) For wave spectra data

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variable name	long_name	unit	CF standard_name	type_of_analysis	Comment
POSITION_QC	Position quality flag	*none*	*none*	*none*	The QC flag associated to the position given in LATITUDE and LONGITUDE
<PARAM>_ADJUSTED	<PARAM:long_name> adjusted	<PARAM:unit>	<PARAM:standard_name>	<PARAM:type_of_analysis>	The adjusted values of the parameter, usually the delayed mode adjustement
<PARAM>_QC	<PARAM:long_name> quality flag	*none*	*none*	*none*	The QC flags associated to the values of the parameter. Applicable to a <PARAM> or to a <PARAM>_ADJUSTED
<PARAM>_ERROR	<PARAM:long_name> error	<PARAM:unit>	*none*	*none*	The errors associated to the adjusted values of the parameter. Applicable to a <PARAM> or to a <PARAM>_ADJUSTED
<PARAM>_DM	<PARAM:long_name> method of data processing	*none*	*none*	*none*	The data mode : "R"eal-time, "P"rovisional, "D"elayed-mode, "M"ixed. Applicable to a <PARAM> or to a <PARAM>_ADJUSTED
~~<PARAM>_UNCERTAINTY~~	~~<PARAM:long_name> relative uncertainty~~	~~1 or % ?~~	~~*none*~~	~~*none*~~	~~The relative uncertainties associated to the values of the parameter~~
DC_REFERENCE	Station/Location unique identifier in data centre	*none*	*none*	*none*	-
DIRECTION	Direction of the profiles	*none*	*none*	*none*	-
~~POSITIONING_SYSTEM~~	~~Positioning system~~	-	-	-	-
~~VERTICAL_SAMPLING_SCHEME~~	~~*Vertical sampling scheme*~~	-	-	-	-
DEPH_CONVERSION_METHOD	**Depth unit conversion method of vertical reference (PRES or DEPH)**	***none***	***none***	***none***	**-**
PRES_CONVERSION_METHOD	**Sea pressure unit conversion method of vertical reference (PRES or DEPH)**	***none***	***none***	***none***	**-**
DOX2_CONVERSION_METHOD	**Dissolved oxygen unit conversion method of dissolved oxygen**	***none***	***none***	***none***	**-**
DOXY_CONVERSION_METHOD	**Dissolved oxygen unit conversion method of dissolved oxygen**	***none***	***none***	***none***	**-**
PRES_CORE	**Indicator of pressure level from core profile**	***none***	***none***	***none***	**For synthetic Argo profiles**
STATION	**station**	***none***	***none***	***none***	**For FeatureTypes timeSeries and timeSeriesProfile, with attribute cf_role="timeseries_id", as recommended by CF convention for Discrete Sampling Geometries**
TRAJECTORY	**trajectory**	***none***	***none***	***none***	**For FeatureTypes trajectory and trajectoryProfile, with attribute cf_role="trajectory_id", as recommended by CF convention for Discrete Sampling Geometries**
PROFILE	**profile**	***none***	***none***	***none***	**For FeatureType profile, with attribute cf_role="profile_id", as recommended by CF convention for Discrete Sampling Geometries**

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This In Situ parameters list is published on Copernicus Marine In Situ TAC - physical parameters list https://doi.org/10.13155/53381 Its content is based on:

* The Copernicus Marine In Situ standard names come from the CF standard names, available at: http://cfconventions.org/standard-names.html
* The parameter names are based on SeaDataNet-BODC parameter discovery vocabulary available at: https://vocab.seadatanet.org/v_bodc_vocab_v2/search.asp?lib=P09 P09 (MEDATLAS PARAMETER USAGE VOCABULARY)
* The units are compliant with UDUNITS, as implemented by the CF standard; definitions available at: http://www.unidata.ucar.edu/software/udunits

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Date	Version	Who	Description
13/01/2017	3.0.0	ST	First version published
21/03/2017	3.0.0	ST	New standard name for VEPK and VEPD
03/09/2018	3.1.0	ST	New definition for SLEV 13 new parameters added Updated P01 & P06 mapping New tab for the related parameters
10/01/2019	3.1.0	ST	New standard name for VPSP
06/04/2020	3.2.0	ST	New parameters from HF-Radar radial velocities New parameters for wave spectra New BGC parameters
03/12/2021	3.2.1	ST	New standard name for TICW
09/02/2024	3.3.0	ST	New parameters: SLVR, TIDE, SWHT, VM01, BCCW, WSPU Precisions on some existing parameters Some unused optional attributes are removed New related variables linked to the new In Situ TAC format (change highlighted in blue, new lines in bold)