

Parameter	Definition	Units
FLOAT_WMO	World Meteorological Organization float identification number	-
CYCLE	Float cycle	-
PROFILE	Cast number	-
DATE	Date of the cast (format: dd/mm/yyyy)	-
LATITUDE	Latitude	degrees North
LONGITUDE	Longitude	degrees Est
PROJECT	Project funding	-
FLOAT PI	Float Principal Investigator	-
BASIN	Zone of sampling	-
Zeu	Euphotic depth (depth at which the Photosynthetically Available Radiation is reduced to 1% of its value just below the sea surface)	m
Zpd	First optical depth (calculated as $Zeu/4.6$ ; Morel, 1988)	m
Kd(380)	Diffuse light attenuation coefficient at 380 nm within the first optical depth	1/m
Serr_Kd(380)	Standard error of Kd(380) computation	1/m
Kd(412)	Diffuse light attenuation coefficient at 412 nm within the first optical depth	1/m
Serr_Kd(412)	Standard error of Kd(412) computation	1/m
Kd(490)	Diffuse light attenuation coefficient at 490 nm within the first optical depth	1/m
Serr_Kd(490)	Standard error of Kd(490) computation	1/m
Kd(PAR)	Diffuse light attenuation coefficient of the Photosynthetically Available Radiation within the first optical depth	1/m
Serr_Kd(PAR)	Standard error of Kd(PAR) computation	1/m
Chl	Average chlorophyll a concentration within the first optical depth	mg/m <sup>3</sup>
sd_Chl	Standard deviation of the chlorophyll concentration	mg/m <sup>3</sup>
FDOM	Average fluorescent dissolved organic matter within the first optical depth	ppb
sd_FDOM	Standard deviation of the fluorescent dissolved organic matter	ppb
bbp(700)	Average particle light backscattering at 700 nm within the first optical depth	1/m
sd_bbp(700)	Standard deviation of the particle light backscattering at 700 nm	1/m

References

Morel, A. (1988). Optical modeling of the upper ocean in relation to its biogenous matter content (case I waters). *Journal of Geophysical Research*, 93, 10749-10768.