

Parameters

Parameters are integral part of an item's description. New parameters can be added by clicking the little '+Add' in the upper left corner of the tab. Now either all mandatory entries can be filled in manually or by autocomplete.

Manually a (long) name and a short name need be assigned. As for the whole item the shortname should be as unique as possible. This can be achieved by attaching an index to the parameter, a serial number or something else which appears feasible. Keep in mind that the short names cannot be modified, because once created they are in use within [ingest](#) and storage (for setting the path to data files for a particular item). Be also aware that you cannot create items with the same short name under one parent (e.g. you cannot have two temperature parameters at the same item, rather choose temperature01 and temperature02) and **avoid capital letters**.

The field 'Type' refers to the parameter type (e.g. conductivity or cm/s). The unit of measurement must be set as well. Summaries of available types and units (as of 2021-06-16) are listed below.

When using **autocomplete** by punching in the first letters of the 'Name' field parameters from the stock of [pangaea.de](#) are offered to you by [registry.awi.de](#). Especially the comment appears useful if data from O2A is propagated to [pangaea.de](#) for publishing. When using the autocomplete form only the parameter short name is left blank, because the user might want to choose a different one.

Add parameter

Please be aware that once a parameter has been saved, one is only allowed to change its name. Changes in unit are not allowed. For the sake of changes in the unit of a given parameter, please insert a new parameter entry and contact o2a-support@awi.de in case the data from this device is being streamed to our storage solutions.

Name:*

Short name:*

Type:*

Unit:*

Comment:

Please contact o2a-support@awi.de for adding new options in this menu.

Please contact o2a-support@awi.de for adding new options in this menu.

Fields marked with * are mandatory.

SaveCancel

form to set up new parameters

Add parameter

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Name:*

Short name:*

Type:*

Unit:*

Comment:

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Fields marked with * are mandatory.

SaveCancel

suggestion of parameter entries from [pangaea.de](#)

Please consider adding properties (spaces.awi.de/x/2la0FQ) to a parameter (by clicking the  button) if applicable.

When in doubt or something is missing to your opinion, please send a support request to o2a-support@awi.de or ask the [chief editors of your project](#).

Available parameter types

systemName	id	description	uuid
absorption	309		91becf79-26dd-4b22-a008-a04409645bd5
acceleration	303		87670ea4-f792-43cd-a39d-4a62dc17cc02
activity	429		76b4c379-c254-4f0d-b646-12eab4c23995

id	code	longName	uuid
Available units			
153	#/min	counts per minute	f8750b55-912b-4d1c-9f41-4fc4a5ac4657
12	%		b8e0d45f-4490-497d-bbca-17831378ffe6
7	% vol		286a11a9-8f0e-4539-a135-5d906f026bbf
160	1/hour		1ab264d1-e920-4aec-9fe1-0d7dcf3ab1e8

aerosol_mass_concentration	436		98341363-3ea3-414f-9c6e-97b89d6b315e
aerosol_optical_thickness	516		3705c3fe-6223-4ad6-8db6-9dbd1bcf5197
air_temperature	68	Parameters quantifying the degree of hotness of the atmosphere. Specifically excludes indirect measurements of other parameters such as wet bulb temperatures.	fc5cc4ed-34f1-4442-bf62-03064ac8b3a2
altitude	458		cd377775-29ed-4fc9-a40a-2897e223060b
amount	287		0efb68bc-ff69-4bd7-bbd5-d3c10a165ac0
amplitude	275		4271a82d-837b-4810-aaf0-0322f3b0c773
angle	534		6b64f4d3-fdc2-4ffe-be8a-b995b10cccd
angular_rates	461		be715c33-1bf0-4700-8083-68c98aced542
attitude	264		10a9cc16-bd0b-4c41-816b-4536f48f61f1
backscatter_strength	87		37b9ab0c-2848-4545-96f2-5ad7f1847cbf
barometric_pressure	89	barometric pressure	c746b75f-9c8c-4a05-af0c-26438b89607a

149	1/m4	number of particles per volume (m3) per size bin (m)	434b30d3-d633-442f-aec8-c44f7c0527e6
158	1/min		eba76cdf-bb5b-44a6-af47-3faeae1f74c
186	1/s		8241f6f7-5490-4a48-b23f-5a3ecd6e1beb
159	1/week		963dabfe-dc67-41f3-a4cb-ef785aa2495d
55	10e-4 /m s/r	NA	10d83f59-51a9-47ad-8478-195b2af13e0a
105	A	ampere	e53e29b4-2cdf-4dfc-b205-2e3732bca34b
80	bar	NA	a5941310-3806-486b-ac45-2dab28b15859
113	bft	Beaufort	83642928-402e-4e10-b737-b8b0199cb28f
171	C cm/W	degree C x cm per W	15b963c6-8820-4649-bfb5-3b575d5ebfd9
16	cells/ml		d8c58194-dc37-4f22-ad61-6bb965d56840
1	cm	centimeter	17c35419-5be0-4c0e-beaa-ce6e51e11cd1
168	cm W	cm x Watt	4728c024-b2a8-4aa5-8943-f275a06de2c6
117	cm/s	centimeter per second	94969b67-64cd-45f2-a23a-754544924dae
143	cm3	cubic centimeters	b6e624ab-b36c-45fe-a05a-a24f5a2c4cf1
97	count	NA	93fcf4ce-46ab-4cbf-b3af-b836f248e2cb

Battery_terminal_voltage	421		44502796-11b8-4ea5-b817-9730aaf08a19
benthic_flux	60		77c357ed-6d1c-49ae-8c8e-49cb3bec8b05
black_carbon	439		cce7a2a2-a0ba-4bad-8546-161b301cd452
brightness_temperature	387		2ec8f70f-d863-40c1-94db-eadd5b9b1e14
broadband_irradiance	395		88a80c9d-dc33-4456-acec-541e6dadded4
capacitance	542		57205b7f-ed6b-429d-9e9e-2b39cd7ee757
carbon_dioxide	530		471b0684-ddf5-43fa-bb19-56a0de55afa9
carbon_monoxide	432		a9e87cce-1dec-47f9-ad9b-f46c05f915dc
chlorophyll_a	61		0b11db4a-2b7d-4e21-80b2-e50798256cd0
chromophoric_sensor	181	Colored dissolved organic matter (CDOM) is the optically measurable component of the dissolved organic matter in water.	12bada79-eac9-4ee1-9c8c-5087f8fdd441
cloud_ceiling	98		6629860c-96a4-4af3-baf3-3b18c1f0662d

142	cpm	counts per minute	b326866f-c10b-4cae-b5c6-219e09b12d74
33	day	NA	2974f19e-592a-4e3f-8d75-e230e60ce7e8
101	dB	decibel	067973f3-7fe7-44e2-a185-3d66453a3664
50	dbar	dbar	dbd8b293-7ef2-443a-be50-32d27ba3dcfa
135	decimal degrees		33ac1b05-9b2f-4cb3-b79b-10b91f559aa1
24	degree		d2c1fe3d-af27-4f95-b8d2-3193bfbce9a6
180	degree/min	rate of turn	b5cfe25d-19f3-491a-b2cd-c73fdcf0f35c
156	degree/s	degree per second	dca882b3-b38b-471b-88f3-f0eaf0a4bc8e
144	dN/dlog dp cm ⁻³	particle number size distribution as normalized particle number concentration per measured bin width in cubic centimeters	b1ff160b-6e14-4404-bdd4-b58f6d438fc0
141	dpm	disintegrations per minute	afda1f80-c6ad-473f-bb7f-97a32d47126f
176	Eh	redox potential	65090950-9898-4807-9fea-73c7aa3456cd
129	FNU	formazine nephelometric units	aaf7fd57-4b68-4ed8-9e91-d648c86653bf
49	ft	feet	67cfcea7-369d-4fc9-ae97-92656b33d069
54	FTU	FTU	9486cac3-acc4-4e43-8caf-3a8d5a6a232f
157	g		a0a678ac-9af0-4d33-965e-a3622b19810d

cloud_condensation_nuclei	438		44c92e8f-efa2-4d03-b792-5759d274db48
CO2	99		a21726d3-ff08-443d-8aa8-040fbc aeadc2
colorimetric	228	colorimetric	80bb2f08-7491-4193-844f-91aeacdf8059
concentration	192	concentration	4afcaa7a-83fb-4cb5-b728-121672931f83
conductivity	66		c1eed3fa-acb9-4c91-b9d1-38cbe884e00b
cosmic_particles	297		01cc6aff-bfe3-4e3e-90d5-43816c22f6c0
course_over_ground	397	course over ground	4c3ed12f-9fb8-487c-9441-8ab6cc0d24b0
current	280		e7e2efa4-8f58-4602-bafe-fd7727c065dc
current_direction	77		7aef0165-663f-4d88-9fd7-9b6d85ffc5a7
current_speed	76		dbf564ab-4847-42a1-81c9-3e9e66371e8a
date	454		2e3ed696-87f3-4e66-b686-6852c8068b4e

21	g/cm3		8179542c-fd75-482c-8b12-f199fa9dd0e7
177	g/m3	gram per cubic meter	303879f0-012f-4dd8-8e2a-af2babb4c4d7
29	gmt	NA	4070b58a-3e69-4224-9869-4258de84a029
34	hour	NA	43e4ed1f-f1ef-47e7-a119-f334a13e8545
22	hPa		2b78d6a0-985d-4d60-816f-c93ab552a12f
99	Hz	NA	6972bd9a-4bed-4d57-a1da-187b3efdd324
191	JK1m3		c6772dc2-d21e-4c3f-bc95-ba64701767a0
126	K	Kelvin	789a84ca-5837-4c26-b50d-4b496cb94176
107	kg/m3	kilogram per cubic meter	7522d338-ec4b-48f1-891e-ebdb4b78fe7e
184	km	kilometers	95d2a6c7-656a-49f5-952b-7d6f404fb1f7
133	km/h	kilometers per hour	f9ef971d-802f-4cde-8648-56ebade2a203
130	kN	kilonewton	c37b1fa1-d002-4231-b8f7-e957c43ea13d
60	knots	knots	17579c31-1f1a-482a-846b-c93159529e56
108	kPa	Kilopascal	e5ba9c1b-0ff4-4bcf-9795-e11cc4cd51b9
110	l	Liter	f02e507f-d1d6-4234-8ccc-a17e5a5b2014

date_and_time	103		03eca2de-557a-4a5b-bdfb-674a83155be6
delta_T	202	Temperature Difference	d27c5b9a-985a-41a9-ae07-089ef8ec4f69
density	313		ccdf06cc-f857-4567-9ce2-1e37d8c9244e
depth	54		6cd37bff-4385-41c4-ac6f-3facebf5827b
dielectric_permittivity	539		c778f89b-45ff-4c7e-b87f-2d9694935022
diffuse_radiation	95		a3f4d16d-8f52-4681-95fa-5dd4c296d08e
direct_radiation	96		4ef54061-1f22-4f08-9beb-ae49f0660799
direction	460		2bd9c71f-c09f-4177-a663-10a4cb82da2c
distance	195	distance	86359168-9698-47bb-a929-58b1eec7c875
duration	175		e596e004-46cc-40e5-b67b-29c39d7e4215
electrical_resistance	6	The electrical resistance	306d0e38-85a7-4120-bacc-306c3900caa6

15	l/min		ac74ac8e-2419-4023-a827-23d0b9033f17
161	lux		e0abc159-95d8-472a-bb3c-67c794bc7331
2	m	meter	3dab7a68-b13e-47de-95f5-4d3658df659e
17	m/s		66e0cedd-01d7-4c74-8ab6-ca8e15b8f082
114	m/s^2	meter per squaresecond	3724df58-64b1-41b9-be17-333656f83275
103	mA	milli ampere	e2a3c08d-5fd1-4df9-8a05-61a753b900e8
35	mbar	NA	1d7d6b41-10d7-4124-a570-1235f4d24646
189	Mbit/s	Megabits per second	7c1313b5-1d0f-469b-8366-12899903b3db
38	mg/l	miligram per liter	acbd5aa2-df76-4194-843c-e05018798220
112	mGal	MilliGal	aee7f38c-a71b-4165-82fc-59f83b1b7461
46	microg/l	NA	39286a39-98de-42c8-9ae2-c80838fb3a7f
47	micromol/l	NA	228bc095-3dab-44d0-9c6f-fe01e2c659ba
163	micromol/sm-2		152aa122-e227-4553-b80e-5228f92018a0
181	micros	microsecond	345dd9be-952e-4ddb-88a0-247b1f75c316
182	microS/cm	microsiemens per centimeters	a8705560-9cea-4e6b-a75e-e613a577cb97

factor	391		317fb838-05e3-44a0-bdde-7453b3f60817
flow	69		04ab2d1e-4085-47a6-b228-4cf5526b0bcf
fluorescence	55		d1c6ec43-1a54-41dc-b07f-4b36fc b0be25
fluorescent_particles	437		7f276689-c86a-49ba-a4e1-96212724c87e
force	386	Force	8bfb459f-8df3-4856-8b40-77fa50d70acf
frequency	308		eea40e53-1736-4994-a031-4264fe590a0e
global_radiation	93		b52b26c1-1492-4f18-a9c5-e8db610a22f1
gravity	302		d1501fda-6e40-4e25-aa1e-ce67a614c2e0
Heat_Capacity	502	MJ/m³K	83412a1d-cda9-48f2-8d3c-28714498d7bb
heatflux	324		7aae8fc9-e48d-4057-87e5-e9cde9c31ec2
height	455		df7756c1-8d7b-4c0b-bcf7-23c4ab5d06a8

162	microSiemens		9939c0f5-618c-47bc-a6cc-fc3ac547ff34
58	miles		d5d837a6-8362-4e08-b892-1a53214729c9
30	min	NA	f448437a-8352-4b81-8265-ab5367f7a007
19	MJ/m2		280ae174-2634-44f1-a5f9-e450415af5a2
167	MJ/m3 K	MJ per cubic meter per Kelvin	e98257c0-43b5-442f-8438-accbd4acbc5a
51	ml/l	ml/l	84b68c6e-af54-4149-9176-cba0dc413f63
137	ml/min	milliliter per minute	3595ad88-97d0-42b5-a1cf-97c707b7a154
122	mm	millimeter	144ce116-50c6-4c40-ba26-804238f0c17f
151	Mm-1	Mega meter	ba84b222-7931-4253-993a-618165e27b71
25	mm/min	NA	d0e14758-5ce4-4225-b010-786e4cc5765b
109	mm/s	millimeter per second	edba7767-b90f-4a37-964e-9ef679a1f045
170	mm2/s	square mm per second	0a067afd-699d-4144-abba-d6314dfe4429
8	mmol /m2/day		05d9f519-b7c8-4edc-a5c2-423dbad2973e
134	mmol /mol		d92e05b3-010f-4b18-889d-991f400e49dc
44	mmol /m^3	milli mol per cubic meter	40e8069b-bec5-48c6-a981-045b81669d82

ice_nucleating_particles	450		2c4ec7ac-c8e1-4007-9584-9076985ede3
index	307	A key in an associative array	3e3c52ca-f111-424b-ade2-b4b4fed10bce
inorganic_carbon	65		076f5dbd-433d-48be-9819-d174b6ea4de6
intensity	446		7e509b3a-69df-41fc-a23d-f3a500299b3a
internal_temperature	419		ac47d32a-21cc-496d-83ba-1286405252e1
irradiance	423		d170de9c-2594-4fc5-87b3-936935ec51ad
isotope_ratio	304		a428fb8f-7299-42ab-8dfb-9779c3c9e66f
latitude	101		05e7d1fa-5412-48f0-b7e5-c089feb46e2f
length	284		7716d4c6-aab8-499a-8878-213f2ee22da8
longitude	102		4f36f324-04d2-4d8c-a75d-8b559e3cd8bb
longwave_radiation	326		e0e7afce-0d5e-4871-bf53-be19d3daeec6

185	mol m ⁻² s ⁻¹	Particle flux, the rate of transfer of particles through a unit area	41d9ddc9-4d39-4bd6-8515-99afff6ab413
100	mol/l	mol per liter	64c731cc-28f4-42cd-a5e7-f019f8ba4c8a
145	molecules/cm ³	molecules per cubic centimetre	e0ecd197-cb56-480a-a04e-e9716f396b33
32	month	NA	092c4d91-ff89-4146-9b35-56e4286568d7
138	mPa	milliPascal	5fc823ca-33aa-4a63-bedf-deae826896cb
118	ms	millisecond	74fe80e3-2849-4e05-be14-ac6fcce91a6f
13	mS/cm		d62ff245-4a45-4540-b432-cc524837e0ee
124	mS/cm	conductivity (micro Siemens per cm)	88daad3e-a872-475b-8808-1defa7d33d6e
178	mS/m	microSiemens per metre	e03b8713-e718-4cb9-bb09-d863c29174bb
98	mV	NA	1b409783-96f2-4bd1-a7b0-bb714b9b5221
104	mV	milli voltage	5f9e7b2a-7aa8-4a45-8316-712d65389b2a
120	mW	milliwatt	3d7fcacb-d066-4ee3-81ec-af3675621ea9
131	mW m ⁻² nm ⁻¹ sr ⁻¹		63a3f909-79d5-4dc0-9d82-170f5ed2f44f
85	m ⁻¹		7ef4804b-2d2d-4605-a255-910d2ba7ed82
96	m ⁻¹ sr ⁻¹	NA	23a562e0-c435-4bde-aa82-3eba5535e874

luminance	478		45682d c6- 8dd3- 4374- b908- 54cfb8 351557
magnetic_field	301		c5df67 8b- 74b7- 4833- bef7- 75b66f 9e04fb
methane	431		65d174 37- 2c33- 4072- 8a82- fe5f4d2 1fd95
microbe_samples	295		afc279 ba- 2303- 4071- b8bd- 048e2c 512568
net_radiation	327		1f6515 4a- a146- 4d0e- 9d5d- 4faa04 3a36e7
nitrate	82		07c2d1 13- 47e5- 4195- 8de7- 70f99f0 aa24e
nitrite	83		14e730 44- 501f- 48cc- a47b- 66fd28 0cd3f5
nitrogen	241	nitrogen	e504aa 5c- fb1c- 4434- 9361- c1ed45 5b3d4d
nitrogen_dioxide	180		34f883f 0- 392e- 4cb4- 8d33- c4698f 3682ad
organic_carbon	64		082d9f 63-f9cf- 4203- ba5f- 445b68 84ab3e
organic_matter	81		30f7e6 2d- b66f- 4b24- 94c5- e9ada5 e453cc

190	m^2/s		df0741cd- 305a-4d33- 916d- 1f4d10ad02 da
125	N	Newton	6dbc8902- ae3f-42bb- 9ccc- 866691e840 df
59	nautical miles	NA	3b8a3224- 9d48-47f8- 8ad4- d81ba1c983 27
146	ng/m3	nanogram per cubic meter	a36c75e0- a040-47f0- bec0- 8b77e2da93 4d
148	nm	nanometers	8bddafcb- 8b24-43e7- a83f- c588054983 47
136	nmol/l	nanomol per liter	f054ba80- 55d6-4236- aa0d- 5aea79f441 57
11	nmol/ml	nanomol per milliliter	bf321974- e8e4-4eeb- a9aa- 0c6d54ee78 2f
41	nmol /m^2	NA	046feea9- c30a-44a9- 82dc- 64d4ea0ed8 ca
127	none	none	0b62f090- 22c1-4854- 8340- 6aaaaa9aff7a
179	ns	nanoseconds	d96ef461- 1744-4bca- 8913- 26ebd613d6 83
111	nT	NanoTesla	6fb808cb- 211b-4f03- b9c8- bdb53d7fd5 93
18	NTU	nephelometric turbidity unit	f9ed2caa- b16a-4b98- b789- 778e305927 5c
28	number		b90e2679- b922-4e16- 89c9- b5a82593fe 79
173	Ohm	Ohm	f0ffd886- 57bd-446a- 9917- 99d53f565e 41
166	Ohm cm	Ohm x cm	bcfa9f59- 5717-419a- 87b7- 01e088c289 fb

orientation	312	Orientation (horizontal relative to true north)	67ec3c22-98d7-4bb4-819a-91cf810cde52
oxidation_reduction_potential	512	Oxidation reduction potential is a measurement that indicates the degree to which a substance is capable of oxidizing or reducing another substance.	7fd20aea-a8dc-496e-b400-fdb3a1de7855
oxygen	56		c32366c1-87c1-4fee-8bd1-42420a01c6aa
ozone	430		6056709d-4b8f-429f-8315-fc761e72381f
ozone_partial_pressure	418		0fde0e34-2b4b-4043-a0ae-c46cf6fcc99c
ozone_raw_current	420		037930d6-4271-49b8-abaa-9a46b30ed4a8
particle_number_concentration	434		fecd55ae-7fce-440a-b027-4b79966cec7c
particle_size_distribution	435		18e96f62-e8d0-4e23-b8ef-67b2464b5882
pCO2	100		8b35a42c-a3c0-408f-a2a6-1f96b9a93868
pH	57		266e749f-24f8-4344-a8c6-fce634af7662
phaeopigment	62		66533d5d-709c-4b12-9fba-73e4dedc02f3

147	Pa	Pascal	a97d70d8-6241-4312-866b-e2a9861e88e1
150	particle s/cm3	particles per cubic centimetre	743a6fb1-1cbb-46f9-b067-cc10e141219d
188	per meg	per meg	8462250f-7908-4462-8ddd-f081a00b3107
3	percent	percentage	ec5e63f5-24a1-4ea1-a8e6-626304dbc5a5
192	pF	picofarad	a4cfbb3b-8e15-4bbb-ac36-085b5da9feab
53	pH	pH	61b7e8d2-c295-4c72-a3bb-b15cacde4e3d
4	ppb	parts per billion	b55011d1-473d-4059-af5d-db0dfce78387
42	ppm	parts per million	a73df252-f152-4ba7-b102-def983647b6c
164	ppmV	parts per million by volume	6e6ea8a4-713c-4d11-9667-223ad63d8e5f
43	ppt	parts per trillion	4dc29269-764b-49cb-84f0-c4432667d2c5
39	PSU	PSU	cc7e51d0-21fb-4762-a9ba-9d8657e2e2f0
26	raw		d3ddc96a-803e-43d8-bb11-04c8d4996150
52	RH	Relative humidity	b9a4bfd4-16dc-4b39-8c26-5aef61effcc2
128	RSU	relative fluorescence unit	5d912511-0f14-4270-a215-a1742ee90c69
36	s	NA	f17c0ba8-298d-43bc-8e7e-c0af16af418f

phase	543		e7506388-5d01-4991-a315-75f4674935d8
phosphate	85		03743511-ffba-480a-a3b7-f980159e3884
phospholipid	63		5a2e8672-91b8-450b-aae1-06f628486538
photosynthetically_active_radiation	88		a5dbb915-4d41-49bf-833b-3f06ce47b837
phycocyanin	70		88b662f5-6618-46de-af08-7a63ccd49e7d
picture	296		aea50acf-eb8c-4e91-856e-7763c8e9dea4
porosity	59		49923753-6751-408c-9991-fd732d23ae24
power	314	Power is the rate of doing work, the amount of energy transferred per unit time.	b3642575-a235-40f5-8f4c-2582f99fbd3
precipitation	173		153f0055-5487-415b-a754-e07da08f9507
pressure	179		63ad69f5-86c3-473c-986e-538e78d0603d
pump_current	422		70b1cbbd-e60a-4039-ba90-ba530e87a74b

187	s*m**2		f4f68f61-50cf-478f-ac3f-eb34f8f40cef
79	S/m	siemens per meter	b36d26c9-0221-451d-bce8-f455f5a51987
169	st	seawater specific gravity (sigma t)	c04582ef-efb4-4ee5-a8a5-578da5c57aed
37	text	text	4f48d367-83a9-44a1-861f-dbebfb6e7c9e
27	time	NA	4f59e6d3-3bd1-4918-90af-91cf1d031914
57	ton		9c9380d0-00c2-4dc5-8995-4677e19d7514
121	Torr	Millimeter Quecksilbersäule	ce858c1d-d32d-491e-ad51-5da8e669849b
48	unknown	unknown unit	e8c60b63-2c32-46fd-88da-6cad9c55caae
5	V		310b4c69-72da-4ca2-ab25-5ea3a6cfebdde
102	V	voltage	4004e739-02cc-4f69-9724-aa80f1b31fd2
119	W	watt	e949de38-c19d-4cdd-abba-503b696b42ec
123	W / mK	thermal conductivity	ea91891c-d8de-4637-96cd-7a376a8967d9
132	W m-2		71a9af4d-4223-4538-be75-2618fb7b74d3
172	W/m	W per meter	d32dc3f7-fc8d-4469-9c15-6b751d37264e
23	W/m^2		db8cb8dd-ed5f-4b32-80c6-de9affb15b8f

quality_flag	270	quality-flag describe a dataset quality	49672910-d92b-4b01-8eeb-b04463aaf368
radar_images	299		7ce8289b-79ca-4baf-b25c-b53c8c2e9f8e
radiation	477		6085b453-cd96-4357-b6ce-c9cc0f43fbdf
ratio	528		70cc51a7-bdb3-4aac-9286-a3751dfedd27
reflex_radiation	97		77d6bb71-df11-4c24-a7b3-c948f93d7e3e
relative_humidity	92		183ce65c-ba87-456a-82a1-fff65807213e
relative_permittivity	316		293425d1-3078-43b2-abff-fe48c1fe95bf
resistivity	58		79cc982c-ca86-4c87-9e18-3a1eb5bce09c
RGB_image	456		5314bcd1-c901-4826-9450-ec2f59c123d3
salinity	30		9c3bb97a-b67c-4cc3-a557-4595c22f6eea
satellite_images	305		dda6ffc8-3c65-43dc-9eed-73b4bcad7106

155	Wm-2 sr-1 um-1	Watt per m2 per steradian per micrometer	8dccf045-c510-4479-81b1-b3e949abb0c0
31	year	NA	f126887d-c7a7-4162-9dfe-b98e474b5d02
20	°		5964e8c0-07f6-4d49-9fb2-b643e00f0c64
115	°/s	degree per second	b852c245-5ab5-472f-abb8-cfcc45aaa2f1
14	°C		ecbb48c4-577e-4c2b-851a-b967133dd5e5
140	µA	microAmpere	a328bc3b-54d3-4953-80d9-55d9f5afb067
81	µatm	NA	55bccdf6-0efd-464f-b3c9-5e24809da3db
10	µg/cm3		ff158834-fbf0-4d20-b5f0-565ed655a8e5
9	µg/l		5c59fe26-c88d-4acc-aec3-307ae770083a
84	µM	NA	52999796-4a89-4048-a11d-8334232c4ddb
154	m	micrometers	7d79ae1e-ba06-4eb1-a0f9-f75368dcc8b3
40	µmol	micro mol	7e86f232-eefc-4dba-8d90-df5586b515a0
83	µmol m-2 s-1	Particle flux, the rate of transfer of particles through a unit area	237b03b0-70a0-4070-83d6-6df2316c4612
56	µmol photon /m^2/s	NA	744bf30e-6d5c-4be7-8389-e53e205272c8
93	µmol/kg	micro mol per kilogram	1d44d773-85c5-403a-9b55-48148fce4efe

saturation	221		4ab3712b-c371-4f8d-97c7-5abda4014920
sea_ice_concentration	78		f5765b15-47f7-46fd-8284-9c5a9e164bf3
sea_ice_drift_velocity	80		1e7deb88-7b4e-4ec7-8ca7-4cc5d356e323
sea_ice_stress	447		e4664bef-f926-4472-a185-309209c44064
sea_ice_thickness	79		587e924e-375e-42b1-92f2-39fb348bf822
sea_surface_height	75		fed6b4bb-f930-4f6c-bc25-5e71d35584cb
Seawater_Specific_Gravity	500	Seawater specific gravity (SSG) is an indirect measure of seawater density.	5c6b7da9-073b-4c2a-9c43-a1bfda9ea261
shortwave_radiation	325		397aec2-3f80-4130-8731-3360edb1435
silicate	84		58533685-5d3e-414c-a7b0-047dec7e8dc5
snow_height	524	Height or thickness of accumulated snow. The surface called 'surface' means the lower boundary of the atmosphere.	0d14bc43-36cd-40a1-9370-7c310770f3d6
snowfall_particle_shape	445		8fbc3b01-efb7-4724-9d51-19e0cbebaa95

6	μmol/l	micromol per liter	86b0bd67-790f-4fd3-afb6-31274ba8caea
45	μmol/mol	micro mol per mol	2df4f059-c124-42cc-8c47-ba55222a6f46
106	μPa	micropascal	3d6b8856-3c5e-47bc-8588-084a07760b73
183	μS/cm		bac09e3b-393d-484e-b0af-3920db892835
152	V/Wm ⁻²	microvolts per watt per sqmeter	70abb260-fc5c-4458-b94e-8a5e4eab20ed
116	‰	permil	b029eefe-936d-4d8e-864d-7ba8fb36349a

soil_temperature	522	Soil temperature is the bulk temperature of the soil, not the surface (skin) temperature. Soil means the near-surface layer where plants sink their roots. For subsurface temperatures that extend beneath the soil layer or in areas where there is no surface soil layer, the standard name <code>solid_earth_subsurface_temperature</code> should be used.	04c49c fb- 2932- 4006- 9743- 170607 f98b47
solar_heat	73		36d4e3 f1- c696- 4065- bddf- b6d23c 13bb8a
solid_earth_sub surface_temper ature	523	The quantity with standard name <code>solid_earth_subsurface_temperature</code> is the temperature at any depth (or in a layer) of the solid earth, excluding surficial snow and ice (but not permafrost or soil). For temperatures in surface lying snow and ice, the more specific standard names <code>temperature_in_surface_snow</code> and <code>land_ice_temperature</code> should be used. For temperatures measured or modelled specifically in the soil layer (the near-surface layer where plants sink their roots) the standard name <code>soil_temperature</code> should be used.	d1a313 6b- 83bd- 414a- 9d50- 9cc5d0 29196c
sonic_temperatu re	385	sonic temperature	838e79 47- 6fd9- 437d- bc16- d8603a aac487
sound_pressure _in_water	276	Sound pressure is the difference from the local ambient pressure caused by a sound wave at a particular location and time.	200813 cc- d9b9- 45f9- 99ff- ca418c 8abb30
sound_pressure _level_in_water	277	Sound pressure is the difference from the local ambient pressure caused by a sound wave at a particular location and time. Sound pressure level in water is expressed on a logarithmic scale with reference to a sound pressure of 1e-6 Pa. $L_p = 20 \log_{10}(p/p_0)$ where L_p is the sound pressure level, p is the rms sound pressure and p_0 is the reference sound pressure.	f2afe2e 5- eb3a- 41cc- 886a- eae92 9dc9ce
sound_velocity	71		c3b360 d3- ed2a- 4432- bc7f- 44b930 c3e319
spectral_density	535		c8c06f 02- 2f04- 4e74- a4fe- ec95b6 2f87fe
spectral_radiance	394		8e38c1 3a- a4c6- 48fb- 9a0f- 3482f5 0a89a4

speed	298		5b307626-b985-4ae2-a29c-d6fd8d-aac1ed
standard_deviation	531	The square root of the average of the squares of deviations about the mean of a set of data.	7f41d7aa-6255-47ce-94c6-11eda56fd625
sulfurdioxide	433		ba510264-d73c-4da8-98e5-b0fbde-a2b617
surface_temperature	190	The surface temperature is the temperature at the interface, not the bulk temperature of the medium above or below.	deb531a6-ce1e-4ae2-876c-912d7b2d5aa9
surface_albedo	388	The surface called surface means the lower boundary of the atmosphere. Albedo is the ratio of outgoing to incoming shortwave irradiance, where shortwave irradiance means that both the incoming and outgoing radiation are integrated across the solar spectrum. To specify the nature of the surface a cell_methods attribute should be supplied as described in Chapter 7.3.3 of the CF Conventions.	73bfd63a-2f45-4127-986c-9491dad67b4a
temperature	7	temperature	3a8408c7-58c5-4fdf-b8f0-48a71ad7d692
text	515	string / text value	596a32d9-5b52-4205-b07c-09d9e53e1228
Thermal_Diffusivity	503	In heat transfer analysis, thermal diffusivity is the thermal conductivity divided by density and specific heat capacity at constant pressure. It measures the rate of transfer of heat of a material from the hot end to the cold end.	d051f66f-73f9-4b5d-aff9-e6db21884999
thickness	509		10162444-5b54-44ae-a5b0-8d6c05ed3517
time	453		a410c9e2-7196-4195-8598-aa2a4dddb06f

total_alkalinity	252		9bc599c1-0015-4aa2-b50a-a9a92fb390bf
Total_Dissolved_Solids	501	Total dissolved solids (TDS) is a measure of the dissolved combined content of all inorganic and organic substances present in a liquid in molecular, ionized, or micro-granular (colloidal sol) suspended form.	10ad7409-6928-4043-8ac0-a4ecca3e340f
transmission	322	transmission	ed3fc581-b4dc-4149-89bf-3a7e7aa294ed
turbidity	72	http://vocab.nerc.ac.uk/collection/P01/current/TURBXXXX/	a4039e77-ecea-4a97-800c-9d7d4e400525
uncertainty	479		1afe9bde-6c5e-4ab1-9fb2-d842bf1a81b1
UV_radiation	94		e50c15a5-684e-441b-9767-efec324579f5
visibility	174		7fcd8351-de06-4d45-97af-9d8fc6b0acf7
voltage	281		0f301272-4269-46d6-aa26-58cacb054a56
volumetric_water_content	315		f9426bd3-7362-4412-8966-8ced128c5d66
water_content	508		cc8817ce-e1a2-47b7-8e3d-54571887b67f
water_temperature	67		653c9333-ab0e-41fb-8ff4-94b80c411ca0

water_vapour_content	507		cd700c7c-e010-48b8-8d92-0a440f017640
wave_height	331	Wave height of waves on the water body	5019ced0-bf2d-4262-90a3-3e9fcb c9d897
wave_period	332	Wave Period	1f0e16bd-a1f6-4571-b45c-3e08a5ccac2e
wet_bulk_density	86		1c920599-8466-431c-837e-49478ff83410
wind_direction	91	Direction (from) of wind relative to True North {wind direction} in the atmosphere.	2de73374-361e-4b64-b7ff-00495ffd c394
wind_speed	90		e3e222e1-7833-467c-96d7-5c23d92b787e