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1 # This file defines all standard variables known to FABM.
2 # It is the ONLY authoritative source of this information.
3 # This script parse_standard_variables.py parses this file
4 # to generate the standard variable include files as well
5 # as the text on the wiki.
6 interior:
7   - name: alkalinity_expressed_as_mole_equivalent
8     units: mmol m-3
9   - name: attenuation_coefficient_of_photosynthetic_radiative_flux
10     units: m-1
11     aggregate_variable: true
12   - name: attenuation_coefficient_of_shortwave_flux
13     units: m-1
14     aggregate_variable: true
15   - name: cell_thickness
16     units: m
17   - name: density
18     units: kg m-3
19   - name: depth
20     units: m
21   - name: downwelling_photosynthetic_radiative_flux
22     units: W m-2
23   - name: downwelling_shortwave_flux
24     units: W m-2
25   - name: mass_concentration_of_suspended_matter
26     units: g m-3
27   - name: mole_concentration_of_ammonium
28     units: mmol m-3
29   - name: mole_concentration_of_carbonate_expressed_as_carbon
30     units: mmol m-3
31   - name: mole_concentration_of_dissolved_inorganic_carbon
32     units: mmol m-3
33   - name: mole_concentration_of_dissolved_iron
34     units: umol m-3
35   - name: mole_concentration_of_nitrate
36     units: mmol m-3
37   - name: mole_concentration_of_phosphate
38     units: mmol m-3
39   - name: mole_concentration_of_silicate
40     units: mmol m-3
41   - name: ph_reported_on_total_scale
42     units: 1
43   - name: practical_salinity
44     units: 1e-3
45   - name: pressure
46     units: dbar
47   - name: temperature
48     units: degree_Celsius
49   - name: fractional_saturation_of_oxygen
50     units: 1
51   - name: secchi_depth
52     units: m
53   - name: net_rate_of_absorption_of_shortwave_energy_in_layer
54     units: W m-2
55 bottom:
56   - name: bottom_depth_below_geoid
57     units: m
58   - name: bottom_depth
59     units: m
60   - name: bottom_roughness_length
61     units: m
62   - name: bottom_stress
63     units: Pa
64 surface:
65   - name: cloud_area_fraction
66     units: 1
67   - name: surface_downwelling_photosynthetic_radiative_flux
68     units: W m-2
69   - name: surface_downwelling_photosynthetic_radiative_flux_in_air
70     units: W m-2
71     synonyms: [downwelling_photosynthetic_radiative_flux_in_air]
72   - name: surface_downwelling_shortwave_flux
73     units: W m-2
74   - name: surface_downwelling_shortwave_flux_in_air
75     units: W m-2
76     synonyms: [downwelling_shortwave_flux_in_air]
77   - name: mole_fraction_of_carbon_dioxide_in_air
78     units: 1e-6
79   - name: wind_speed
80     units: m s-1
81   - name: surface_specific_humidity
82     units: 1
83   - name: surface_air_pressure
84     units: Pa
85   - name: surface_temperature
86     units: degree_Celsius
87   - name: ice_area_fraction
88     units: 1
89   - name: surface_albedo
90     units: 1
91     aggregate_variable: true
92   - name: surface_drag_coefficient_in_air
93     units: 1
94     aggregate_variable: true
95 horizontal:
96   - name: latitude
97     units: degree_north
98   - name: longitude

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99|     units: degree_east
100| global:
101|   - name: number_of_days_since_start_of_the_year
102|     units: d
103| universal:
104|   - name: total_carbon
105|     units: mmol m-3
106|   - name: total_nitrogen
107|     units: mmol m-3
108|   - name: total_phosphorus
109|     units: mmol m-3
110|   - name: total_silicate
111|     units: mmol m-3
112|   - name: total_iron
113|     units: umol m-3
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