Summary of Conventions

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1 Convention Tables

Tabble 1 summarises the naming convention for the variables used in netCDF files (converted from the odb files with the *readodbfile_station.py* script). The variable definition, their naming convention, and the physics units follow the preliminary CDM-common data model agreement, that can be found at:
https://github.com/glamod/common_data_model/
https://github.com/glamod/common_data_model/blob/master/tables/observed_variable.dat

Variable	CDM Name	Units	Description
date		[ ]	
codetype		[ ]	
time		[ ]	
vertco_reference_1	???	[ ]	???
lat	latitude	[ ]	Latitude of station, -90 to 90 (or other as defined by station_crs
vertco_type	z_coordinate_type	[ ]	Type of z coordinate
stalt	observation_height _above_station_surface	[ ]	Height of sensor above local ground or sea surface. Positive values for above surface (e.g. sondes), negative for below (e.g. xbt). For visualobservations, height of the visual observing platform.
long	longitude	[ ]	Longitude of station, -180.0 to 180 (or others as defined by station_crs)
obstype		[ ]	

Table 1. Definition of naming convention, description and units for the variables contained in the netCDF files - Observations

Variable	CDM Name	Units	Description
dewpoint	dew point temperature	[K]	Dew point temperature is the temperature at which a parcel of air reaches saturation upon being cooled at constant pressure and specific humidity.
humidity	specific humidity	[g kg-1]	specific means per unit mass. Specific humidity is the mass fraction of water vapor in (moist) air.
pressure	pressure	[Pa]	pressure of air column at specified height
varno	observed_variable	[int]	The variable being observed / measured.
obsvalue	observation_value	[numeric]	The observed value.
wind	wind	[m s-1]	Speed is the magnitude of velocity. Wind is defined as a two-dimensional (horizontal) air velocity vector, with no vertical component. (Vertical motion in the atmosphere has the standard name upward air velocity.) The wind speed is the magnitude of the wind velocity. Lot 1 uses ff - WMO abbrev.

Table 2. Definition of naming convention, description and units for the variables contained in the netCDF files - Variables.