HadISD Table version 1 - date 18 July 2016

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HadISD Data Format Description

1) Tables of netCDF dimensions, attributes and global attributes

Table 1. Generic Dimensions for HadISD

Dimension Name	Dimensions	Notes
time	??? hours	Stored as compressed time – only timestamps with data are retained
long_character_length	12 characters	
character_length	4 characters	
test	61 tests	
coordinate_length	1	

Table 2. Generic Variables for HadISD

Variable Name	standard_name	long_name	units	Dimensions	comments
longitude	longitude	station_longitude	degrees_eas t	coordinate_length	axis = X
latitude	latitude	station_latitude	degrees_nor th	coordinate_length	axis = Y
altitude	altitude	station_altitude	meters	coordinate_length	axis = Z positive = up
stationname	station_name	station_name		long_character_length	
time	time	time	hours since 1973-01-01 00:00:00	time	calendar = gregorian
station_identification_		station ID code at		time,	
code		time step Dry bulb		long_character_length	
tas	air_temperature	temperatures nearest to reporting hour	degreesC	time	
tds	dew_point_temperature	Dew point temperatures nearest to reporting hour	degreesC	time	
psl	air_pressure_at_sea_le vel	Reported sea level pressure	hPa	time	
ws	wind_speed	Wind speed	metres per second	time	
wd	wind_direction	Wind Direction	Degrees	time	
clt	cloud_area_fraction	Total cloud cover derived in priority order GA, GF, GD - see ISD documentation	oktas 0-8	time	oktas is not a CF- compliant unit
cllow		low cloud cover derived in priority order GA, GF, GD - see ISD documentation.	oktas 0-8	time	oktas is not a CF- compliant unit

clmid		derived in priority order GA, GF, GD - see ISD documentation.	oktas 0-8	time	oktas is not a CF- compliant unit
clhigh		high cloud cover derived in priority order GA, GF, GD - see ISD documentation.	oktas 0-8	time	oktas is not a CF- compliant unit
clbase	cloud_base_altitude	Cloud base of lowest cloud layer nearest to reporting hour	metres	time	
precip	lwe_thickness_of_preci pitation_amount	Depth of precipitation report	mm	time	
precipperiod		Period of precipitation report	hr	time	
wg	wind_speed_of_gust	Wind Gust speed	metres per second	time	
pastsigwx1	past_significant_weath er	Station reports of past significant weather phenomena	1	time	
quality_control_flags		Quality Control status for individual obs		time, test	

Table 3. Generic Global Attributes for HadISD

Global Attribute Name	Description	
title	title of product	
creator_name	name of main contact author	
creator_email	email of main contact author	
licence	licensing statement with link to license and instructions on how to cite data	
	product	
time_coverage_start	YYYY-MM-DDTHH:MMZ	
time_coverage_end	YYYY-MM-DDTHH:MMZ	
summary	quick summaryof product	
source		
isd_version	Version of ISD used (not filled)	
cdm_data_type	Type of Climate Data Model	
references	Paper describing the data product	
hadisd_version	HadISD version number	
isd_date	Date of download of ISD (DD-Month-YYYY)	
keywords	Keywords for dataset discovery	
creator_url	website of main contact author institution	
institution	institution of main contact author	
date_created	YYYY-MM-DD, HH:MM	
qc_code_version	local version of QC code	
station_information	Station ID per timestamp refers to primarysource in ISD and applies to all	
	elements	
Conventions	CF version that the netCDF file has been checked against	
Metadata_Conventions	metadata CF version that the netCDF file has been checked against	
featureType	Type of data held in product	
processing_date	date processing started	
history	Record of processing applied to file.	