

test wrapper for tables

H. E. Motteler and L. L. Strow

UMBC Atmospheric Spectroscopy Lab
Joint Center for Earth Systems Technology

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1 Michelson Interferometer

2 CHIRP 1330 Interface Specification

Interface Specification Version 02.02.07
12-17-2020

2.1 Global Groups

Path	Description
/	User data

2.2 Global Dimensions

Name	Size	Description
fov	9	Field-of-view dimension
obs	12,150	number of spectra in 6-minute L1 CHIRP for the 13:30 orbit. 135*90 or 45*30*9
wnum	1,679	IR channel number
fov_poly	8	lat_bnds, lon_bnds points defining the polygon bounding an FOV (anticlockwise as viewed)
utc_tuple	8	parts of UTC time: year, month, day, hour, minute, second, millisec, microsec

2.3 Global Attributes

Name	Type	Size	Value
keywords	string	1	EARTH SCIENCE > SPECTRAL/ENGINEERING > I
Conventions	string	1	CF-1.6\, ACDD-1.3

Name	Type	Size	Value
history	string	1	
source	string	1	AIRS and CrIS instrument telemetry
processing_level	string	1	1
product_name_type_id	string	1	L1
comment	string	1	
acknowledgment	string	1	Support for this research was provided by NASA.
license	string	1	Limited to Sounder SIPS affiliates
standard_name_vocabulary	string	1	CF Standard Name Table v28
date_created	string	1	Unassigned
creator_name	string	1	Unassigned
creator_email	string	1	Unassigned
creator_url	string	1	Unassigned
institution	string	1	Unassigned
project	string	1	Sounder SIPS
product_name_project	string	1	SNDR
publisher_name	string	1	Unassigned
publisher_email	string	1	Unassigned
publisher_url	string	1	Unassigned
geospatial_bounds	string	1	
geospatial_bounds_crs	string	1	EPSG:4326
geospatial_lat_min	float	1	9.9692099683868690e+36f
geospatial_lat_max	float	1	9.9692099683868690e+36f
geospatial_lon_min	float	1	9.9692099683868690e+36f
geospatial_lon_max	float	1	9.9692099683868690e+36f
time_coverage_start	string	1	
time_of_first_valid_obs	string	1	
time_coverage_mid	string	1	
time_coverage_end	string	1	
time_of_last_valid_obs	string	1	
time_coverage_duration	string	1	P0000-00-00T00:06:00
product_name_duration	string	1	m06
creator_type	string	1	institution
creator_institution	string	1	Jet Propulsion Laboratory -- California Institute of Tech
product_version	string	1	vxx.xx.xx
keywords_vocabulary	string	1	GCMD:GCMD Keywords
platform	string	1	JPSS-1 > Joint Polar Satellite System - 1\, SUOMI-NPI
platform_vocabulary	string	1	GCMD:GCMD Keywords
product_name_platform	string	1	SS1330
instrument	string	1	AIRS > Atmospheric Infrared Sounder\, CrIS > Cross-t
instrument_vocabulary	string	1	GCMD:GCMD Keywords
product_name_instr	string	1	CHIRP
product_name	string	1	
product_name_variant	string	1	std
product_name_version	string	1	vxx.xx.xx

Name	Type	Size	Value
product_name_producer	string	1	T
product_name_timestamp	string	1	yymmddhhmmss
product_name_extension	string	1	nc
granule_number	ushort	1	
product_name_granule_number	string	1	g000
gran_id	string	1	yyyymmddThhmm
geospatial_lat_mid	float	1	9.9692099683868690e+36f
geospatial_lon_mid	float	1	9.9692099683868690e+36f
featureType	string	1	trajectory
data_structure	string	1	trajectory
cdm_data_type	string	1	Trajectory
id	string	1	Unassigned
naming_authority	string	1	Unassigned
identifier_product_doi	string	1	Unassigned
identifier_product_doi_authority	string	1	Unassigned
algorithm_version	string	1	
production_host	string	1	
format_version	string	1	v02.02.07
input_file_names	string	1	
input_file_types	string	1	
input_file_dates	string	1	
orbitDirection	string	1	
day_night_flag	string	1	
AutomaticQualityFlag	string	1	Missing
AutomaticQualityFlagExplanation	string	1	'Passed': all spectra are present and calibrated with no o
qa_pct_data_missing	float	1	
qa_pct_data_geo	float	1	
qa_pct_data_sci_mode	float	1	
qa_no_data	string	1	TRUE
title	string	1	13:30 orbit L1 CHIRP
summary	string	1	The CHIRP Level 1 product for the 13:30 sun-synchrono
shortname	string	1	SSYN1330CHIRP1_placeholder
product_group	string	1	l1_chirp
metadata_link	string	1	http://disc.sci.gsfc.nasa.gov/
references	string	1	
contributor_name	string	1	UMBC Atmospheric Spectroscopy Laboratory: Larrabee
contributor_role	string	1	CrIS L1B Scientist
wnum_delta_lw	float	1	0.625f
wnum_delta_mw	float	1	0.83333333333f
wnum_delta_sw	float	1	1.25f

2.4 Global Variables

Name	Type	Dimensions	Description
obs_id	string	obs	unique earth view observation identifier.
obs_time_tai93	double	obs	earth view observation midtime for each FOV
obs_time_utc	uint16	obs, utc_tuple	UTC earth view observation time as an array of integers: year, m
lat	float	obs	latitude of FOV center
lon	float	obs	longitude of FOV center
land_frac	float	obs	land fraction over the FOV
surf_alt	float	obs	mean surface altitude wrt earth model over the FOV
surf_alt_sdev	float	obs	standard deviation of surface altitude within the FOV
sun_glint_lat	float	obs	sun glint spot latitude at scan_mid_time. Fill for night observation
sun_glint_lon	float	obs	sun glint spot longitude at scan_mid_time. Fill for night observation
sol_zen	float	obs	solar zenith angle at the center of the FOV
sol_az	float	obs	solar azimuth angle at the center of the FOV (clockwise from Nor
sun_glint_dist	float	obs	Distance from the center of the calculated sun glint spot to the ce
view_ang	float	obs	off nadir pointing angle
sat_zen	float	obs	satellite zenith angle at the center of the FOV
sat_az	float	obs	satellite azimuth angle at the center of the FOV (clockwise from l
sat_range	float	obs	line of sight distance between satellite and FOV center
asc_flag	ubyte	obs	ascending orbit flag: 1 if ascending, 0 descending
subsat_lat	float	obs	sub-satellite latitude at scan_mid_time
subsat_lon	float	obs	sub-satellite longitude at scan_mid_time
scan_mid_time	double	obs	TAI93 at middle of earth scene scans
sat_alt	float	obs	satellite altitude with respect to earth model at scan_mid_time
local_solar_time	float	obs	local apparent solar time in hours from midnight
utc_tuple_lbl	string	utc_tuple	names of the elements of UTC when it is expressed as an array of
rad	float32	obs, wnum	spectral radiance
synth_frac	float32	wnum	File mean fraction of signal that is attributed to synthesized AIR
nedn	float32	fov, wnum	noise equivalent differential radiance
atrack	ubyte	obs	Along-track index of Field Of Regard
xtrack	ubyte	obs	Cross-track index of Field Of Regard
fov_num	ubyte	obs	Field Of View number in FOR
airs_atrack	ubyte	obs	AIRS-like along-track index of Field Of View
airs_xtrack	ubyte	obs	AIRS-like cross-track index of Field Of View
wnum	float64	wnum	wavenumber