

ICON CON EUV

ERROR: Missing variables attribute Epoch : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Activity : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_SC_Altitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_SC_Latitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_SC_Longitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Orbit_Number : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_SC_Position_ECEF : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_SC_Slew_Status : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Space_Environment_Region_Status : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Status : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Sun_Status : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Time_UTC_String : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_F107 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_F107a : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Ap : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Latitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Longitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_HmF2 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_IYD : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_NmF2 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Re : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Sigma_HmF2 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Sigma_NmF2 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_SLT : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_SZA : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Filename : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Processing_Date : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Flags : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_UT_Sec : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_L2D : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Oplus : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Altitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Retrieval_Sigma_Oplus : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Altitude : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Covariance_834 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Brightness_834 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Din_834 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Covariance_617 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Brightness_617 : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Input_Data_Din_617 : Var_Type

ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Base : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Change : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Covest : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Covfit : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Ineq_Flag : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Lower_Limit : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_m : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_m_Init : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_m_True : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Name : Var_Type
ERROR: Missing variables attribute ICON_L2_EUV_Daytime_OP_Model_Upper_Limit : Var_Type
ERROR: Missing global attribute "Text_Supplement"

This document describes the data product for ICON EUV, which is in NetCDF4 format.

MISSING Text_Supplement

NetCDF files contain **variables** and the **dimensions** over which those variables are defined. First, the dimensions are defined, then all variables in the file are described.

Dimensions

The dimensions used by the variables in this file are given below, along with nominal sizes. Note that the size may vary from file to file. For example, the "Epoch" dimension, which describes the number of time samples contained in this file, will likely have a varying size.

Dimension Name	Nominal Size
OPL	72
Epoch	3511
Vectors	3
Data	108
Model	5

Variables

Variables in this file are listed below. First, the most important variables (the "data" variables) are described, followed by the "support_data" variables, and finally the "metadata" variables. The variables classified as "ignore_data" are not shown.

MISSING Var_Type

Variable Name	Description	Units	Dimensions
Epoch	Milliseconds since 1970-01-01 00:00:00 UTC	milliseconds	Epoch
ICON_L2_EUV_Daytime_0 P_Activity	EUV ACTIVITY Standardized for several missions, so not all codes are relevant. Binary Coded Integer (16 bits). Earth Day Activity: 1, Earth Night Activity: 2, Calibration Target Activity: 4, Off-target Activity: 8, Sun Proximity Activity:16, Moon Proximity Activity: 32, North Magnetic Footpoint Activity: 64, South Magnetic Footpoint Activity: 128, Science Data Collection Activity: 256, Calibration Data Collection Activity: 512, Spare: 1024 – 32768		Epoch
ICON_L2_EUV_Daytime_0 P_SC_Altitude	WGS84 Altitude of s/c Position (Geodetic) Geodetic Altitude of Spacecraft using WGS84	km	Epoch
ICON_L2_EUV_Daytime_0 P_SC_Latitude	WGS84 Latitude of s/c Position (Geodetic) Geodetic Latitude of Spacecraft using WGS84	degrees North	Epoch
ICON_L2_EUV_Daytime_0 P_SC_Longitude	WGS84 Longitude of s/c Position (Geodetic) Geodetic Longitude of Spacecraft using WGS84	degrees East	Epoch
ICON_L2_EUV_Daytime_0 P_Orbit_Number	Orbit Number Integer Orbit Number		Epoch
ICON_L2_EUV_Daytime_0 P_SC_Position_ECEF	Spacecraft Position in ECEF Coordinates Currently from Idealized Model	km	Epoch, Vectors
ICON_L2_EUV_Daytime_0 P_SC_Slew_Status	Slew or off-point Status Code Not currently available, data is empty in ephemeris file. 0:No Slew 1:Slew If at anytime during the integration there is slewing the whole integration is noted as slewing.		Epoch
ICON_L2_EUV_Daytime_0 P_Space_Environment_R egion_Status	Space Environment Region Status Standardized for several missions, so not all codes are relevant. Binary Coded Integer (32 bits), Earth Shadow: 1, Lunar Shadow: 2, Atmospheric Absorption Zone: 4, South Atlantic Anomaly: 8, Northern Auroral Zone: 16, Southern Auroral Zone: 32, Periapsis Passage: 64, Inner & Outer Radiation Belts: 128		Epoch

Variable Name	Description	Units	Dimensions
ICON_L2_EUV_Daytime_0 P_Status	EUV Status Standardized for several missions, so not all codes are relevant. Binary Coded Integer (16 bits), Earth Day View: 1, Earth Night View: 2, Calibration Target View: 4, Off-target View: 8, Sun Proximity View: 16, Moon Proximity View: 32, North Magnetic Footpoint View: 64, South Magnetic Footpoint View: 128, Science Data Collection View: 256, Calibration Data Collection View: 512, Spare: 1024 – 32768		Epoch
ICON_L2_EUV_Daytime_0 P_Sun_Status	s/c Sun/Shadow Status Code From Ephemeris files 0=Sun, 1=Earth Shadow		Epoch
ICON_L2_EUV_Daytime_0 P_Time_UTC_String	Date and Time in UTC format Time is for the middle of the measurement integration	UTC	Epoch
ICON_L2_EUV_Daytime_0 P_F107	F10.7 values used F10.7 values used from GPI file in solar flux units	F10.7 flux units	Epoch
ICON_L2_EUV_Daytime_0 P_F107a	F10.7a values used F10.7a values used from GPI file	F10.7 flux units	Epoch
ICON_L2_EUV_Daytime_0 P_Ap	Ap values used Ap index from GPI file	Index	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Latitude	Geographic Latitude Geographic Latitude at Retrieval location	Degree s	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Longitude	Geographic Longitude Geographic Longitude at Retrieval location	Degree s	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_HmF2	HmF2 Height of F2 layer from Retrieval	km	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_IYD	iYearDay Integer of year & DOY	Day	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_NmF2	NmF2 Density of F2 layer from Retrieval	cm-3	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Re	Re_Retrieval Local Earth Radius at Retrieval	km	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Sigma_HmF2	Sigma_HmF2 1 sigma in Height of F2 layer from Retrieval	km	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Sigma_NmF2	Sigma_NmF2 Sigma in Density of F2 layer from Retrieval	cm-3	Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_SLT	SLT Local time at Retrieval	hours	Epoch

Variable Name	Description	Units	Dimensions
ICON_L2_EUV_Daytime_0 P_Retrieval_SZA	SZA Solar Zenith Angle at Retrieval	Degrees	Epoch
ICON_L2_EUV_Daytime_0 P_Input_Data_Filename	Input_Data_Filename Input data filenames		Epoch
ICON_L2_EUV_Daytime_0 P_Processing_Date	Processing_Date Processing_Date		Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Flags	Retrieval_Flags Retrieval Error Flags - see documentation		Epoch
ICON_L2_EUV_Daytime_0 P_UT_Sec	UT_Sec UT Seconds		Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_L2D	Retrieval_L2D Retrieval_L2D		Epoch
ICON_L2_EUV_Daytime_0 P_Retrieval_Oplus	Retrieval_Oplus Oplus		Epoch, OPL
ICON_L2_EUV_Daytime_0 P_Retrieval_Altitude	Retrieval_altitude altitude		Epoch, OPL
ICON_L2_EUV_Daytime_0 P_Retrieval_Sigma_Oplus	Retrieval_sigma_Oplus sigma_Oplus		Epoch, OPL
ICON_L2_EUV_Daytime_0 P_Input_Data_Altitude	Input_data_Altitude Input_data_Altitude	km	Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Covariance_834	Input_data_Covariance_834 Input_data_Covariance_834 nm		Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Brightness_834	Input_data_Brightness_834 Input_data_Brightness_834 nm		Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Din_834	Input_data_Din_834 Input_data_834 nm	nm	Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Covariance_617	Input_Data_Covariance_617 Input_data_Covariance_617 nm		Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Brightness_617	Input_data_Brightness_617 Input_data_Brightness_617 nm		Epoch, Data
ICON_L2_EUV_Daytime_0 P_Input_Data_Din_617	Input_data_Din_617 Input_data_Din_617 nm		Epoch, Data
ICON_L2_EUV_Daytime_0 P_Model_Base	Model_Base Model_Base		Epoch, Model

Variable Name	Description	Units	Dimensions
ICON_L2_EUV_Daytime_0 P_Model_Change	Model_Change Model_Change		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_Covest	Model_covest Model_covest		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_Covfit	Model_covfit Model_covfit		Epoch, Model, Model
ICON_L2_EUV_Daytime_0 P_Model_Ineq_Flag	Model_ineq_flag Model_ineq_flag		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_Lower_Limit	Model_lower_limit Model_lower_limit		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_m	Model_m Model_m		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_m_Init	Model_m_Init Model_m_Init		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_m_True	Model_m_True Model_m_True		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_Name	Model Name Model Name		Epoch, Model
ICON_L2_EUV_Daytime_0 P_Model_Upper_Limit	Model_upper_limit Model_upper_limit		Epoch, Model

This document was automatically generated on 2018-03-19 11:46 using the file:
 ICON_L2_EUV_Daytime_2017-05-29_v01r000.NC
 Software version: ICON EUV L2 v01r000