

ODL MET File Explained

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If the granule can be ordered in Earthdata Search, it must have a matching MET file in ODL format. If the granule can NOT be ordered in Earthdata Search, the format of its met file (if exists) does not matter to Dark Horse.

All ODL MET files must begin with


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GROUP = INVENTORYMETADATA
GROUPTYPE = MASTERGROUP
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and end with

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END_GROUP = INVENTORYMETADATA
END
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Between them are the GROUPS. There are several GROUPS in the ODL MET files. The order of the GROUPS does not matter, some are required while others are optional.

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre>GROUP = COLLECTIONDESCRIPTIONCLASS OBJECT = SHORTNAME NUM_VAL = 1 VALUE = "DSCOVr_EPIC_L1A" END_OBJECT = SHORTNAME OBJECT = VERSIONID NUM_VAL = 1 VALUE = "3" END_OBJECT = VERSIONID END_GROUP = COLLECTIONDESCRIPTIONCLASS</pre>	Required	<p>This group describes the collection. The SHORTNAME and VERSIONID must match Short Name and Version in CAMP, for example:</p> <p>https://camp.larc.nasa.gov/product/DSCOVr_EPIC_L1A_3</p>
<pre>GROUP = INPUTGRANULE OBJECT = INPUTPOINTER NUM_VAL = 1 VALUE = ("EPIC_CalFile_v13.txt") END_OBJECT = INPUTPOINTER END_GROUP = INPUTGRANULE</pre>	Optional	<p>The file(s) used to produce this granule. If you don't know/have any, you can omit this group. If you have multiple files:</p> <pre>GROUP = INPUTGRANULE OBJECT = INPUTPOINTER NUM_VAL = 3 VALUE = ("EPIC_CalFile_v13.txt", "file2", "file3") END_OBJECT = INPUTPOINTER END_GROUP = INPUTGRANULE</pre> <p>Notice the change in NUM_VAL and the comma separated list.</p>

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre> GROUP = ECSDATAGRANULE OBJECT = LOCALGRANULEID NUM_VAL = 1 VALUE = "epic_la_20201025190503_03.h5" END_OBJECT = LOCALGRANULEID OBJECT = LOCALVERSIONID NUM_VAL = 1 VALUE = "01" END_OBJECT = LOCALVERSIONID OBJECT = PRODUCTIONDATETIME NUM_VAL = 1 VALUE = "2020-10-26 04:13:37" END_OBJECT = PRODUCTIONDATETIME OBJECT = DAYNIGHTFLAG NUM_VAL = 1 VALUE = "DAY" END_OBJECT = DAYNIGHTFLAG END_GROUP = ECSDATAGRANULE </pre>	Required	<p>This group describes the granule.</p> <p>The DAYNIGHTFLAG object is optional, other objects are required.</p> <p>Acceptable values for DAYNIGHTFLAG are "DAY", "NIGHT", "BOTH", "UNSPECIFIED".</p>
<p>If the granule's spatial coverage is a bounding box:</p> <pre> GROUP = SPATIALDOMAINCONTAINER GROUP = HORIZONTALSPATIALDOMAINCONTAINER GROUP = BOUNDINGRECTANGLE OBJECT = WESTBOUNDINGCOORDINATE NUM_VAL = 1 VALUE = -179.934082 END_OBJECT = WESTBOUNDINGCOORDINATE OBJECT = EASTBOUNDINGCOORDINATE NUM_VAL = 1 VALUE = 179.978027 END_OBJECT = EASTBOUNDINGCOORDINATE OBJECT = SOUTHBOUNDINGCOORDINATE NUM_VAL = 1 VALUE = -89.940272 END_OBJECT = SOUTHBOUNDINGCOORDINATE OBJECT = NORTHBOUNDINGCOORDINATE NUM_VAL = 1 VALUE = 79.99365 END_OBJECT = NORTHBOUNDINGCOORDINATE END_GROUP = BOUNDINGRECTANGLE END_GROUP = HORIZONTALSPATIALDOMAINCONTAINER END_GROUP = SPATIALDOMAINCONTAINER </pre> <p>If the granule's spatial coverage is a stationary point:</p>	Required	<p>This group describes the granule's spatial information. Currently Dark Horse supports several different formats - bounding box, point, and polygon. Do not use scientific notation for the values. Dark Horse can accept up to 6 digits after the decimal point.</p> <p>A met file that uses bounding box:</p> <div data-bbox="997 849 1381 1234" style="border: 1px solid #ccc; padding: 10px; text-align: center;">  <p>CER_SYN1deg-Day_Terra-Aqua-...</p> </div> <p>A met file that uses point:</p>

REQUIRED/ OPTIONAL	COMMENTS
<pre> GROUP = SPATIALDOMAINCONTAINER GROUP = HORIZONTALSPATIALDOMAINCONTAINER GROUP = Point OBJECT = PointLatitude NUM_VAL = 1 VALUE = 45.4471 END_OBJECT = PointLatitude OBJECT = PointLongitude NUM_VAL = 1 VALUE = -94.7126 END_OBJECT = PointLongitude END_GROUP = Point END_GROUP = HORIZONTALSPATIALDOMAINCONTAINER END_GROUP = SPATIALDOMAINCONTAINER </pre>	<div data-bbox="1150 293 1226 370" style="text-align: center;"></div> <p data-bbox="1010 399 1367 423">LMOS-CIMS_GROUND-ZION_201...</p> <p data-bbox="993 565 1262 589">A met file that uses polygon:</p>
<p data-bbox="86 634 510 659">If the granule's spatial coverage is a polygon:</p> <pre> GROUP = SPATIALDOMAINCONTAINER GROUP = HORIZONTALSPATIALDOMAINCONTAINER GROUP = GPOLYGON OBJECT = GPOLYGONCONTAINER CLASS = "1" GROUP = GRINGPOINT CLASS = "1" OBJECT = GRINGPOINTLONGITUDE NUM_VAL = 4 CLASS = "1" VALUE = (-155, -24.45, -24.45, -155) END_OBJECT = GRINGPOINTLONGITUDE OBJECT = GRINGPOINTLATITUDE NUM_VAL = 4 CLASS = "1" VALUE = (17, 17, 64, 64) END_OBJECT = GRINGPOINTLATITUDE OBJECT = GRINGPOINTSEQUENCENO NUM_VAL = 4 CLASS = "1" VALUE = (1, 2, 3, 4) END_OBJECT = GRINGPOINTSEQUENCENO END_GROUP = GRINGPOINT GROUP = GRING CLASS = "1" OBJECT = EXCLUSIONGRINGFLAG NUM_VAL = 1 </pre>	<div data-bbox="1150 737 1226 813" style="text-align: center;"></div> <p data-bbox="1010 842 1367 867">TEMPO_CLDRR_L3_V01_201307...</p> <p data-bbox="993 1008 1220 1032">A met file that uses line:</p> <div data-bbox="1150 1182 1226 1258" style="text-align: center;"></div> <p data-bbox="1010 1287 1367 1312">CAL_LID_L2_01kmCLay-ValStage...</p>

REQUIRED/ OPTIONAL	COMMENTS

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VALUE = "N"
CLASS = "1"
END_OBJECT = EXCLUSIONGRINGFLAG
END_GROUP = GRING
END_OBJECT = GPOLYGONCONTAINER
END_GROUP = GPOLYGON
END_GROUP = HORIZONTALSPATIALDOMAINCONTAINER
END_GROUP = SPATIALDOMAINCONTAINER

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If the granule's spatial coverage is a line:

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GROUP = SPATIALDOMAINCONTAINER
GROUP = HORIZONTALSPATIALDOMAINCONTAINER
GROUP = GLINE
OBJECT = GLINELATITUDE
CLASS = "1"
NUM_VAL = 10
VALUE = (-62.087585,
        -80.083054,
        -72.441414,
        -52.432083,
        -31.530165,
        -10.369345,
        10.879766,
        32.079624,
        53.044399,
        73.076614)

END_OBJECT = GLINELATITUDE
OBJECT = GLINELONGITUDE
CLASS = "1"
NUM_VAL = 10
VALUE = (19.870485,
        -21.364161,
        -120.139717,
        -137.907745,
        -145.097397,
        -150.121170,
        -154.681702,
        -159.739624,
        -167.064713,
        174.233688)

END_OBJECT = GLINELONGITUDE
END_GROUP = GLINE
END_GROUP = HORIZONTALSPATIALDOMAINCONTAINER

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	REQUIRED/ OPTIONAL	COMMENTS
END_GROUP = SPATIALDOMAINCONTAINER		
<pre>GROUP = RANGEDATETIME OBJECT = RANGEBEGINNINGDATE NUM_VAL = 1 VALUE = "2020-10-25" END_OBJECT = RANGEBEGINNINGDATE OBJECT = RANGEBEGINNINGTIME NUM_VAL = 1 VALUE = "19:00:14" END_OBJECT = RANGEBEGINNINGTIME OBJECT = RANGEENDINGDATE NUM_VAL = 1 VALUE = "2020-10-25" END_OBJECT = RANGEENDINGDATE OBJECT = RANGEENDINGTIME NUM_VAL = 1 VALUE = "19:06:50" END_OBJECT = RANGEENDINGTIME END_GROUP = RANGEDATETIME</pre>	Required	This group describes the granule's temporal information.
<pre>GROUP = PGEVERSIONCLASS OBJECT = PGEVERSION NUM_VAL = 1 VALUE = "407406" END_OBJECT = PGEVERSION END_GROUP = PGEVERSIONCLASS</pre>	Optional	The PGE used to produce this granule. If you don't know/have any, you can omit this group.
<pre>GROUP = MEASUREDPARAMETER OBJECT = MEASUREDPARAMETERCONTAINER CLASS = "1" OBJECT = PARAMETERNAME CLASS = "1" NUM_VAL = 1 VALUE = "GranuleParameters" END_OBJECT = PARAMETERNAME GROUP = QAFLAGS CLASS = "1" OBJECT = AUTOMATICQUALITYFLAG NUM_VAL = 1 CLASS = "1" VALUE = "Passed" END_OBJECT = AUTOMATICQUALITYFLAG OBJECT = AUTOMATICQUALITYFLAGEXPLANATION NUM_VAL = 1 CLASS = "1" VALUE = "All data passed during checkout" END_OBJECT = AUTOMATICQUALITYFLAGEXPLANATION END_GROUP = QAFLAGS END_OBJECT = MEASUREDPARAMETERCONTAINER END_GROUP = MEASUREDPARAMETER</pre>	Optional	<p>This group describes the granule's QA information. If you don't know/have any, you can omit this group.</p> <p>The supported values for AUTOMATICQUALITYFLAG are: "Inspected", "Suspect", "Failed", "Beta", "Passed", "Cleaned"</p>

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre> GROUP = ADDITIONALATTRIBUTES OBJECT = ADDITIONALATTRIBUTESCONTAINER OBJECT = ADDITIONALATTRIBUTENAME CLASS = "1" NUM_VAL = 1 VALUE = "PARAMETERS" END_OBJECT = ADDITIONALATTRIBUTENAME GROUP = INFORMATIONCONTENT CLASS = "1" OBJECT = PARAMETERVALUE CLASS = "1" NUM_VAL = 1 VALUE = "Time_mid,Latitude_deg,Longitude_deg" END_OBJECT = PARAMETERVALUE END_GROUP = INFORMATIONCONTENT END_OBJECT = ADDITIONALATTRIBUTESCONTAINER OBJECT = ADDITIONALATTRIBUTESCONTAINER OBJECT = ADDITIONALATTRIBUTENAME CLASS = "2" NUM_VAL = 1 VALUE = "MINALT" END_OBJECT = ADDITIONALATTRIBUTENAME GROUP = INFORMATIONCONTENT CLASS = "2" OBJECT = PARAMETERVALUE CLASS = "1" NUM_VAL = 1 VALUE = 79.5 END_OBJECT = PARAMETERVALUE END_GROUP = INFORMATIONCONTENT END_OBJECT = ADDITIONALATTRIBUTESCONTAINER OBJECT = ADDITIONALATTRIBUTESCONTAINER OBJECT = ADDITIONALATTRIBUTENAME CLASS = "3" NUM_VAL = 1 VALUE = "MAXALT" END_OBJECT = ADDITIONALATTRIBUTENAME GROUP = INFORMATIONCONTENT CLASS = "3" OBJECT = PARAMETERVALUE CLASS = "1" NUM_VAL = 1 VALUE = 7145.9 END_OBJECT = PARAMETERVALUE END_GROUP = INFORMATIONCONTENT END_OBJECT = ADDITIONALATTRIBUTESCONTAINER END_GROUP = ADDITIONALATTRIBUTES </pre>	Optional	If you don't know/have any, you can omit this group. Notice the value increment for CLASS.
<pre> GROUP = ASSOCIATEDPLATFORMINSTRUMENTSENSOR OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER CLASS = "1" OBJECT = ASSOCIATEDPLATFORMSHORTNAME CLASS = "1" NUM_VAL = 1 VALUE = "Terra-Aqua" END_OBJECT = ASSOCIATEDPLATFORMSHORTNAME OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME CLASS = "1" </pre>	Optional	This group describes the granule's platform, instrument, and sensor information. If you don't know/have any, you can omit this group.

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre> NUM_VAL = 1 VALUE = "FM1+FM2+FM3+FM4" END_OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME OBJECT = ASSOCIATEDSENSORSHORTNAME CLASS = "1" NUM_VAL = 1 VALUE = "Total Detector" END_OBJECT = ASSOCIATEDSENSORSHORTNAME END_OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER CLASS = "2" OBJECT = ASSOCIATEDPLATFORMSHORTNAME CLASS = "2" NUM_VAL = 1 VALUE = "Terra-Aqua" END_OBJECT = ASSOCIATEDPLATFORMSHORTNAME OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME CLASS = "2" NUM_VAL = 1 VALUE = "FM1+FM2+FM3+FM4" END_OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME OBJECT = ASSOCIATEDSENSORSHORTNAME CLASS = "2" NUM_VAL = 1 VALUE = "Window Detector" END_OBJECT = ASSOCIATEDSENSORSHORTNAME END_OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER CLASS = "3" OBJECT = ASSOCIATEDPLATFORMSHORTNAME CLASS = "3" NUM_VAL = 1 VALUE = "Terra-Aqua" END_OBJECT = ASSOCIATEDPLATFORMSHORTNAME OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME CLASS = "3" NUM_VAL = 1 VALUE = "FM1+FM2+FM3+FM4" END_OBJECT = ASSOCIATEDINSTRUMENTSHORTNAME OBJECT = ASSOCIATEDSENSORSHORTNAME CLASS = "3" NUM_VAL = 1 VALUE = "Shortwave Detector" END_OBJECT = ASSOCIATEDSENSORSHORTNAME END_OBJECT = ASSOCIATEDPLATFORMINSTRUMENTSENSORCONTAINER END_GROUP = ASSOCIATEDPLATFORMINSTRUMENTSENSOR </pre>		

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre> GROUP = ORBITCALCULATEDSPATIALDOMAIN OBJECT = ORBITCALCULATEDSPATIALDOMAINCONTAINER CLASS = "1" OBJECT = ORBITALMODELNAME CLASS = "1" NUM_VAL = 1 VALUE = "Unknown" END_OBJECT = ORBITALMODELNAME OBJECT = ORBITNUMBER CLASS = "1" NUM_VAL = 1 VALUE = 96955 END_OBJECT = ORBITNUMBER OBJECT = STARTORBITNUMBER CLASS = "1" NUM_VAL = 1 VALUE = 96955 END_OBJECT = STARTORBITNUMBER OBJECT = STOPORBITNUMBER CLASS = "1" NUM_VAL = 1 VALUE = 96969 END_OBJECT = STOPORBITNUMBER OBJECT = EQUATORCROSSINGLONGITUDE CLASS = "1" NUM_VAL = 1 VALUE = 150.328954734596 END_OBJECT = EQUATORCROSSINGLONGITUDE OBJECT = EQUATORCROSSINGTIME CLASS = "1" NUM_VAL = 1 VALUE = "00:29:17.354Z" END_OBJECT = EQUATORCROSSINGTIME OBJECT = EQUATORCROSSINGDATE CLASS = "1" NUM_VAL = 1 VALUE = "2018-03-11" END_OBJECT = EQUATORCROSSINGDATEh END_OBJECT = ORBITCALCULATEDSPATIALDOMAINCONTAINER END_GROUP = ORBITCALCULATEDSPATIALDOMAIN </pre>	Optional	It seems only some MISR data use ORBITCALCULATEDSPATIALDOMAIN. It's not currently supported in Dark Horse or IMS-API.

GROUPS	REQUIRED/ OPTIONAL	COMMENTS
<pre> GROUP = ORBITPATH OBJECT = STARTORBITNUMBER NUM_VAL = 1 VALUE= 77655 END_OBJECT = STARTORBITNUMBER OBJECT = STOPORBITNUMBER NUM_VAL = 1 VALUE= 77656 END_OBJECT = STOPORBITNUMBER OBJECT = STARTPATHNUMBER NUM_VAL = 1 VALUE= 166 END_OBJECT = STARTPATHNUMBER OBJECT = STOPPATHNUMBER NUM_VAL = 1 VALUE= 166 END_OBJECT = STOPPATHNUMBER END_GROUP = ORBITPATH </pre>	Optional	It seems only some CALIPSO data use ORBITPATH. They become TilingIdentificationSystem in CMR.

No labels