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UWO CMOR

document

uwo_meteor_radar.cmor.txt : ok

uwo_meteor_radar.cmor.cmor_inst.txt :

-typo? : Due to the degradation in interferometric accuracy at low elevations, no echoes are processed with their nominal elevation is below 20 degrees. => if their nominal elevation is below 20 degrees. (???)

meteor_shower:

This is Jenniskens CAMS data (see below), NOT U.W.O. related material

uwo_meteor_radar.cmor.cmor_inst.txt

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METEOR SHOWERS

Note for ALL xml files:

-remove/change ALL references to UWO and/or Canadian Meteor Orbit Radar (=CMOR), since this is a different instrument / institution, including the <logical_identifier> that contains:

“gbo-uwo_meteor_radar”

Examples:

<logical_identifier>

urn:nasa:pds:gbo-uwo_meteor_radar:meteor_shower:jenniskens_2023_listofshowers_embedded_csv
</logical_identifier>

<Observing_System_Component>
 <name>Canadian Meteor Orbit Radar</name>

<Observing_System_Component>
 <name>UWO Meteor Radar Complex</name>

Internal_Reference>
<lid_reference>

urn:nasa:pds:context:instrument:uwo_meteor_radar.cm
or.cmor_inst
</lid_reference>

overview.txt :

-I don't see the reference mentioned in the text. A quick search in ADS does not show any article referring to a list of meteor showers. The document describing the data mentions: Jenniskens P., 2023. Atlas of Earth's Meteor Showers. Amsterdam: Elsevier, 838 pp
Discussion: not easily referenced => useful? Note: there are references to pages in the book in the explanation
-regarding showers not yet acknowledged by the IAU: I suggest to wait until they are adopted. Otherwise we

take the risk of naming showers and providing numbers that might change in the future and create chaos whenever future papers want to refer to the showers

=>Discussion: having a v1.0 with a tag mentioning that these showers are waiting for IAU approval, and then a v2.0 with final IAU designation + ad reference to IAU official list

readme.pdf :

- full reference clearly mentioned: to be added in the overview.txt

- PB Certainty Level of certainty in parent body identification : how was is computed? We need a method for this...

- 1-sigma uncertainties : I understand meteor data are so uncertain that we can't publish 3-sigma, but is it ok with PDS to publish 1-sigma uncertainties?

- 48 s Mass distribution index = differential or cumulative? Most likely differential

- 54 Fragile Flag = 1 indicates meteoroid fragmentation;

- 1 is = incomplete sentence

jenniskens_2023_listofshowers_embedded.csv :

- update the header given the comments above regarding the mention to UWO and CMOR

- remove the line starting with -99

jenniskens_2023_listofshowers_embedded.xml :

- <discipline_name>Spectroscopy</discipline_name> : strange since the is NOT spectroscopy. : to be changed.

- see previous comment regarding ALL xml files : remove/change all references to UWO and CMOR radar

instrument.

- <Target_Identification>
 <name>Multiple</name>
 <type>Meteoroid Stream</type>

=> this should be changed to <type>Meteor Shower</type>

Note (from discussions): in PDS there should be a way for the user to find the data by name -> add *somewhere* the terms "meteor shower" and "meteoroid stream"

Collection.xml :

- see previous comment regarding ALL xml files : remove/change all references to UWO and CMOR radar instrument.

- <Science_Facets>
 <wavelength_range>Radio</wavelength_range>
 <wavelength_range>Visible</wavelength_range>
 <discipline_name>Spectroscopy</discipline_name>
=> here age the <discipline_name> should be changed since the data have nothing to do with spectroscopy

Others:

- inventory.csv : ok
- collection.xml : ok

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METEOR ORBIT

- the association to meteor showers should be updated

once the IAU decides on the official name and designation of several showers

Note for ALL xml files:

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"gbo-uwo_meteor_radar"

overview.txt : ok

readme_camsv3_0_pdfa.pdf : ok

Data files:

cams_YYYY_embedded.csv : mentions CMOR in
"Observing System Bookmark"

Xml files:

- change ALL references to UWO and/or CMOR
- <discipline_name>Spectroscopy</discipline_name> =
???
- <Observing_System_Component>
 <name>Canadian Meteor Orbit Radar</name>
- <Observing_System_Component>
 <name>UWO Meteor Radar Complex</name>