

Standards Change Request

Correct Keywords in IMAGE_MAP_PROJECTION Object

SCR3-1115.v1

Provenance:

Date: 2007-05-03

Author(s): R. Joyner (EN)

Revised: TBD

Working Group: R.Joyner (lead); P.Garcia (co-lead)

Problem:

Section B.13 of the current PDS Standards Reference, Version 3.7 (2006-02-01), and the Planetary Science Data Dictionary incorrectly specify a set of required keywords for the IMAGE_MAP_PROJECTION Object that are not applicable to all possible map projections; and as such, shouldn't be required.

This unnecessarily clutters the label, forces the Data Producers to do extra work, and makes the label more cumbersome to interpret.

Current Urgency:

Priority is high. This change is needed to correct inconsistencies noted in the current version of the PDS Standards Reference and the PSDD.

Proposed Solution:

(1) Correct the Required Keyword list in Section B.13 of Version 3.7 of the Standards Reference.

- a) Remove: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

(2) Amend the Optional Keyword list in Section B.13 of Version 3.7 of the Standards Reference.

- b) Add: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE

REFERENCE_LONGITUDE

(3) Correct the Required Keyword list in the PSDD for the IMAGE_MAP_PROJECTION Object.

- a) Remove: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

(4) Amend the Optional Keyword list in the PSDD for the IMAGE_MAP_PROJECTION Object.

- b) Add: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

Impact Assessment:

Overall impact is low.

Documentation

The above changes are to be incorporated into the "Planetary Data System Standards Reference" and into the "Planetary Science Data Dictionary" and no changes are required to the "Proposer's Archiving Guide" or the "Archive Preparation Guide".

Interface

No known affect.

Legacy Data and Software

- It is unlikely that legacy data will be affected.
- PDS Validation tools will not be affected.
- Legacy node and user software should not be affected (along as the tool validates against the pdsdd.full).

Interagency

No affect.

Additional Information:

N/A

Requested Changes:

PDS Standards Reference

(1) Correct the Required Keyword list in Section B.13 of Version 3.7 of the Standards Reference.

- a) Remove: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

(2) Amend the Optional Keyword list in Section B.13 of Version 3.7 of the Standards Reference.

- b) Add: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

PDS Planetary Science Data Dictionary

(1) Correct the Required Keyword list in the PSDD for the IMAGE_MAP_PROJECTION Object.

- a) Remove: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL
REFERENCE_LATITUDE
REFERENCE_LONGITUDE

(2) Amend the Optional Keyword list in the PSDD for the IMAGE_MAP_PROJECTION Object.

- b) Add: FIRST_STANDARD_PARALLEL
SECOND_STANDARD_PARALLEL

REFERENCE_LATITUDE
REFERENCE_LONGITUDE