

Hi, Mitch, here are my comments. If these datasets pass peer review, please let me know, as it will be my job to update the data dictionary as described at the bottom.

Richard

*/CATALOG/*INST.CAT

INSTRUMENT_TYPE =3D "VIDICON CAMERA". EN currently has this as "CAMERA". Not sure which is better. [NO CHANGE. Our reasoning is that VIDICON CAMERA is already a standard value for INSTRUMENT_TYPE, and it is more specific than, simply, CAMERA. There are many calibration and geometry issues unique to vidicons, so it seems worthwhile to emphasize that these are vidicons cameras.]

*/CATALOG/MISSION.CAT

The current version at EN has many more targets (e.g. the various moons) and 1 more reference, KOHLHASE&PENZO1977. If you want the latest version, I can retrieve it. [REPLACED]

/DATA//*.LBL

INSTRUMENT_NAME =3D "IMAGING SCIENCE SUBSYSTEM - WIDE ANGLE CAMERA" should be

INSTRUMENT_NAME =3D "IMAGING SCIENCE SUBSYSTEM - WIDE ANGLE", and

INSTRUMENT_NAME =3D "IMAGING SCIENCE SUBSYSTEM - NARROW ANGLE CAMERA" should

be INSTRUMENT_NAME =3D "IMAGING SCIENCE SUBSYSTEM - NARROW ANGLE"

Keyword INSTRUMENT_HOST_NAME is required but missing. [ALL FIXED Note: We had been using SPACECRAFT_NAME instead of INSTRUMENT_HOST_NAME. We also changed SPACECRAFT_ID to INSTRUMENT_HOST_ID and changed the corresponding columns names in the labels of all the indices.]

*/DATA/C14993XX/C14993_GEOMA.LBL (and maybe all _GEOMA.LBL)

ROWS =3D 576 for both the binary and the ascii tables. However, the ascii file has only 552 rows. The binary file also has odd values starting in row 551, very likely wrong especially at row 576. [CORRECTED. The extra rows were the result of VICAR needing to pad records to a fixed length. 552 is the correct number of rows in both tables. We have added a note in the VICAR file description about the padding needed for the table to match the record length of the file.]

*/DOCUMENT/VICAR.LBL

Line 13: DOCUMENT_FORMAT =3D ASCII is legal but new. Use TEXT?[CHANGED TO "TEXT"]

VGISS_5*/CATALOG/DATASET.CAT

TARGET_NAME =3D "THETACAR": this target is unknown, i.e. it needs a

target.cat [FIXED. THETACAR became THETA CAR. For consistency with the other data sets, all other STAR targets were replaced by the name of the object targeted (which was indicated in the NOTE field). New added targets are ARCTURUS, ORION, TAURUS,

SCORPIUS, and VEGA. The index files and data labels were all updated in a consistent manner.]

VGISS_5*/CATALOG/REF.CAT

- "and" before final author of SMITHTAL1979A, SMITHTAL1979B, SMITHTAL1981, SMITHTAL1982, SMITHTAL1986B, SMITHTAL1989
- SMITHTAL1989 has an extra comma right after the first author[**ALL FIXED**]

VGISS_5119_peer_review/DATA/C16730XX/C1673012_CALIB.LBL and 800+ others
VGISS_5120_peer_review/DATA/C17363XX/C1736313_CALIB.LBL and 800+ others
VGISS_5214_peer_review/DATA/C20759XX/C2075939_CALIB.LBL and 900+ others
TARGET_NAME =3D "CALLAMPS" is unknown. Probably replace with "CAL LAMPS" [**FIXED in data labels and indices.**]

VGISS_5120_peer_review
VGISS_5214_peer_review
VGISS_7207_peer_review
VGISS_8210_peer_review

To verify, only these volumes have directory CALIB/. [**THIS IS CORRECT.**]

VGISS_5214_peer_review/CALIB/MIPL/FICOR77_VG2_WA_CH4_U.LBL
FILTER_NAME =3D "CH4_U". I assume this is correct, but please verify since no other labels in VGISS_5* use this. [**FILES DELETED. Thank you for noting that the CH4_U filter was not used at Jupiter--it was only used at the other planets. We also deleted the references to the CH4_U filter in PROCESSING.TXT and TUTORIAL.TXT. We did not delete the information about this filter from the DOCUMENT directory, because it remains valid information about the instrument.**]

VGISS_7*/CATALOG/DATASET.CAT

TARGET_NAME =3D "1985U1" is unknown. Create a TARGET.CAT.
TARGET_NAME =3D "CALLAMPS" is unknown. Probably replace with "CAL LAMPS"
TARGET_NAME =3D "OTHER" is also unknown. Can you choose an existing one?
[**FIXED ALL. OTHER was never listed as a target in the data set, so it was deleted from DATASET.CAT. 1985U1 is now PUCK.**]

VGISS_7*/DOCUMENT/FILTERS/DOCINFO.TXT

Line 43: VGn_cc_name.HTM

Line 45: VGn_cc_name.GIF

You could change to VG2_..., as VGISS_8*/DOCUMENT/FILTERS/DOCINFO.TXT
[**NOT CHANGED. In fact, we revised the DOCUMENT directory so that all information about the cameras is identical across all volumes. The only files that are different from one volume set to the next are PROCESSING.TXT and TUTORIAL.TXT. We now note in DOCINFO.TXT that this may mean some instrument information is not applicable to a given volume. We believe that it is simpler to maintain a single collection of Voyager ISS documentation rather than to customize it for each data set.**]

VGISS_720[567]_peer_review/DATA/.../*.LBL
TARGET_NAME =3D "U_RINGS" should be "U RINGS" [FIXED in data labels and indices.]

VGISS_7207_peer_review/DATA/C27190XX/C2719055_CALIB.LBL and many others
TARGET_NAME =3D "CALLAMP" should be "CAL LAMPS". [FIXED in data labels and indices.]

VGISS_8*/CATALOG/DATASET.CAT
TARGET_NAME =3D "1985N1" is unknown. Create a TARGET.CAT
TARGET_NAME =3D "1985N2" is unknown. Create a TARGET.CAT
TARGET_NAME =3D "BETACMA" is unknown. Probably replace with "BETA CMA"
TARGET_NAME =3D "CALLAMPS" is unknown. Probably replace with "CAL LAMPS"
TARGET_NAME =3D "SIGMASGR" is unknown. Probably replace with "SIGMA SGR"
[FIXED ALL. 1985N1 is now PROTEUS; 1985N2 is now LARISSA]

VGISS_8*/CATALOG/REF.CAT
- SMITHETAL1989 has a space between some authors' initials and is missing "and" before the final author.
- SCIENCEV246N4936 was published in 1989, not 1986 [FIXED]

VGISS_8201_peer_review/DATA/C09027XX/C0902741_CLEANED.LBL & 7 others
VGISS_82*/DATA/* have ~150 other such files
REFLECTANCE_SCALING_FACTOR =3D 2.3900E+00 exceeds max of 1.0
[NO CHANGE. Based on the definition, there is no reason why the value of this parameter cannot exceed one. (Reflectance cannot exceed one, but the scaling factor is arbitrary.) The values listed in the labels are correct. The PDS-defined maximum value is incorrect.]

VGISS_8207_peer_review/DATA/C11384XX/C1138406_CALIB.LBL & 173 others
TARGET_NAME =3D "SIGMASG" is unknown. Replace with "SIGMA SGR"? [FIXED in labels and indices.]

VGISS_8207_peer_review/DATA/C11396XX/C1139643_CALIB.LBL & 29 others
TARGET_NAME =3D "BETACMA" is unknown. Probably replace with "BETA CMA". [FIXED in labels and indices.]

VGISS_8210_peer_review/CALIB/MIPL/CALINFO.TXT
DATA_SET_ID =3D "VG1/VG2-N-ISS-2/3/4/6-PROCESSED-V1.0" should be
DATA_SET_ID =3D "VG2-N-ISS-2/3/4/6-PROCESSED-V1.0" [FIXED]

VGISS_8210_peer_review/DATA/C12048XX/C1204820_CALIB.LBL & others
TARGET_NAME =3D "SCORPIU" is unknown. Replace with "SCORPIUS"? [FIXED in labels and indices.]

VGISS_8210_peer_review/DATA/C12050XX/C1205010_CALIB.LBL & others
TARGET_NAME =3D "PLEIADE" is unknown. Replace with "PLEIADES"? [FIXED in labels and indices.]

VGISS_8210_peer_review/DATA/C12414XX/C1241445_CALIB.LBL & others

TARGET_NAME =3D "CALLAMP" is unknown. Probably replace with "CAL LAMPS" [FIXED in labels and indices.]

new data dictionary values:

DOCUMENT_TOPIC_TYPE:
"FILE DESCRIPTION"
"FILTER DESCRIPTION"

FILTER_NAME:
"CH4_JS"
"CH4_U"
"SODIUM"
"UV"

PRODUCT_TYPE:
"BLEMISH_TABLE"
"CALIBRATION_CORRECTION"
"DARK_CURRENT_IMAGE"
"GEOMETRICALLY_CORRECTED_IMAGE"
"RESEAU_TABLE"
"TIEPOINT_TABLE"

SCAN_MODE_ID
"1:1"
"2:1"
"3:1"
"5:1"
"10:1"

[These all appear to be correct.]