IXPE XRT CALDB Changelog for version date 2023-12-01

- 1. Updated files in the XRT branch for the effective area function for the mirror associated with each detector unit.
 - a. These updated files reflect changes to the model parameters for the bulk density, surface roughness, and Ni:Co ratio of the mirrors. These model changes give better agreement with the ground calibration data.
 - b. Naming scheme: "data/ixpe/xrt/bcf/eaf/ixpe_mN_20210103_eaf_03.fits"

IXPE GDB CALDB Changelog for version date 2024-01-25

- 1. For all following file naming schemes, the following conventions are use:
 - a. N is the 1-digit ID of the detector unit (1, 2, 3, and occasionally 4 for the spare)
 - b. YYYYMMDD is the 4-digit year, 2-digit month and 2-digit day of month of the effective data of the file (e.g., 20230101 for Jan 1, 2023).
 - c. VV is the two digit version of the file (e.g., 01).
 - d. WSCHEME is the text indicator of the polarization weighting scheme ("alpha075_" for NEFF weighting, "alpha075simp_" for simple weighting, and "" (blank) for no weighting).
 - e. WEIGHT is the text indicator for whether the polarization scheme weighting indicator ("alpha075_" for weighted and "" (blank) for unweighted).
- 2. NOTE: We are no longer providing updates to the on-axis "ARF" and "MRF" files. Instead, we recommend using ixpecalcarf to calculate these files for each individual observation.
- 3. Added files to the GPD branch for the GRAY filter transmission for each detector unit.
 - a. Naming scheme: data/ixpe/gpd/bcf/grfilt/ixpe dN 20170101 grfilt 01.fits
- 4. Added files to the GPD branch for the quantum efficiency of each detector unit calculated.
 - a. Starting with the launch date (20211209), a new set of files is calculated at 6-month intervals to reflect the effects of the decreasing pressure of the detectors on the quantum efficiency.
 - b. Each date-based set of files consists of nine files, for each combination of detector and polarization weighting method.
 - c. Naming scheme: "data/ixpe/gpd/bcv/qe/ixpe_dN_YYYYMMDD_qe_WSCHEME01.fits"
- 5. Added files to the GPD branch for the UV filter transmission of each detector unit.
 - a. Naming scheme: "data/ixpe/gpd/bcf/uvfilt/ixpe dN 20170101 uvfilt 01.fits"
- 6. Updated files in the GPD branch for the on-axis ancillary response function for each detector unit and each weighting method to account for use of no GRAY filter.
 - a. Naming scheme: "data/ixpe/gpd/cpf/arf/ixpe_dN_20170101_WSCHEME_VV.arf
- 7. Added files to the GPD branch for the modulation factor of each detector unit calculated.
 - a. Starting with the launch date (20211209), a new set of files is calculated at 6-month intervals to reflect the effects of the decreasing pressure of the detectors on the modulation factor.
 - b. Each date-based set of files consists of six files, for each combination of detector and polarization weighting indicator.
 - c. Naming scheme: "data/ixpe/gpd/bcv/qe/ixpe dN YYYYMMDD mfact WEIGHT01.fits"

- 8. Updated files in the GPD branch for the on-axis modulation response function to account for the optional use of the GRAY filter.
 - a. Each version set of files consists of 9 files for each for each combination of detector unit and weighting method
 - b. Naming scheme: "data/ixpe/gpd/cpf/mrf/ixpe_dN_20170101_WSCHEME_VV.mrf