SIMPLE = T / file does conform to FITS standard

BITPIX = -32 / number of bits per data pixel

NAXIS = 2 / number of data axes

NAXIS1 = 4656 / length of data axis 1

NAXIS2 = 3520 / length of data axis 2

EXTEND = T / FITS dataset may contain extensions

COMMENT FITS (Flexible Image Transport System) format is defined in 'Astronomy

COMMENT and Astrophysics', volume 376, page 359; bibcode: 2001A&A...376..359H

BZERO = 0 / offset data range to that of unsigned short

BSCALE = 1 / default scaling factor

CREATOR = 'ZWO ASIAIR Plus' / Capture software

OFFSET = 50 / camera offset

XORGSUBF= 0 / Subframe X position in binned pixels

YORGSUBF= 0 / Subframe Y position in binned pixels

FOCALLEN= 597 / Focal length of telescope in mm

EGAIN = 4.96000003814697 / Electronic gain in e-/ADU

XBINNING= 1 / Camera X Bin

YBINNING= 1 / Camera Y Bin

CCDXBIN = 1 / Camera X Bin

CCDYBIN = 1 / Camera Y Bin

XPIXSZ = 3.79999995231628 / pixel size in microns (with binning)

YPIXSZ = 3.79999995231628 / pixel size in microns (with binning)

IMAGETYP= 'Light ' / Type of image

RA = 359.9055 / Object Right Ascension in degrees

DEC = 61.3554 / Object Declination in degrees

DATE-OBS= '2023-10-22T19:50:58'/ Date and time of the start of the observation.

FILTER = '5V ' / Filter used when taking image

INSTRUME= 'ZWO ASI1600MM Pro' / Camera model

GUIDECAM= 'ZWO ASI120MM Mini' / Guide camera model

GAIN = 0 / Gain Value

FOCUSPOS= 51183 / Focuser position in steps

TELESCOP= 'EQMod Mount' / Telescope name

CTYPE1 = 'RA---TAN-SIP' / TAN (gnomic) projection + SIP distortions

CTYPE2 = 'DEC--TAN-SIP' / TAN (gnomic) projection + SIP distortions

CRVAL1 = 0.0388451298405 / RA of reference point

CRVAL2 = 61.1352115421 / DEC of reference point

CRPIX1 = 1752.88039144 / X reference pixel

CRPIX2 = 2003.05200195 / Y reference pixel

CD1\_1 = -0.000364622297243 / Transformation matrix

CD1\_2 = -2.20059030484E-06 / no comment

CD2\_1 = 2.29198883849E-06 / no comment

CD2\_2 = -0.000364661707781 / no comment

A\_ORDER = 2 / Polynomial order, axis 1

B\_ORDER = 2 / Polynomial order, axis 2

AP\_ORDER= 2 / Inv polynomial order, axis 1

BP\_ORDER= 2 / Inv polynomial order, axis 2

A\_0\_0 = 0 / no comment

A\_0\_1 = 0 / no comment

A\_0\_2 = -1.47621961487E-07 / no comment

A\_1\_0 = 0 / no comment

A\_1\_1 = -3.75089029194E-08 / no comment

A\_2\_0 = 1.75644526303E-07 / no comment

B\_0\_0 = 0 / no comment

B\_0\_1 = 0 / no comment

B\_0\_2 = -3.90101991191E-08 / no comment

B\_1\_0 = 0 / no comment

B\_1\_1 = 1.08100451613E-07 / no comment

B\_2\_0 = -5.73414276682E-08 / no comment

AP\_0\_0 = -6.14189484914E-05 / no comment

AP\_0\_1 = -2.85105297785E-09 / no comment

AP\_0\_2 = 1.4756298653E-07 / no comment

AP\_1\_0 = 7.17213298529E-08 / no comment

AP\_1\_1 = 3.75402795125E-08 / no comment

AP\_2\_0 = -1.75532685305E-07 / no comment

BP\_0\_0 = 5.67595011944E-05 / no comment

BP\_0\_1 = 3.98326758671E-08 / no comment

BP\_0\_2 = 3.90197129377E-08 / no comment

BP\_1\_0 = -5.39693815989E-08 / no comment

BP\_1\_1 = -1.08055171149E-07 / no comment

BP\_2\_0 = 5.72864068235E-08 / no comment

IMAGEW = 4656 / Image width, in pixels.

IMAGEH = 3520 / Image height, in pixels.

COMMENT 1 Written by ASTAP. www.hnsky.org

PEDESTAL= 0.000000000000E+000 / Value added during calibration or stacking

CALSTAT = 'DFBS'

DATE-END= '2023-10-22T21:13:44'/ Date and time of the end of the observation.

JD-AVG = 2.460240355801E+006 / Julian Day of the observation mid-point.

DATE-AVG= '2023-10-22T20:32:21'

EXPTIME = 60 / Total exposure time in seconds.

COMMENT D=master\_dark\_20x30s\_at\_0C\_2023-10-23.fit

COMMENT F=master\_flat\_corrected\_with\_flat\_darks\_V\_20xF\_20xFD\_2023-10-25.fit

HISTORY 1 Stacking method AVERAGE

HISTORY 2 Processed as gray scale images.

SET-TEMP= 0 / Average set temperature used for luminance.

LUM\_EXP = 30 / Average luminance exposure time.

LUM\_CNT = 2 / Luminance images combined.

LUM\_DARK= 20 / Darks used for luminance.

LUM\_FLAT= 20 / Flats used for luminance.

LUM\_BIAS= 20 / Flat-darks used for luminance.

DATAMIN = 0 / Minimum data value

DATAMAX = 65152 / Maximum data value

CBLACK = 469 / Black point used for displaying image.

CWHITE = 737 / White point used for displaying the image.

END