



Examples of IBIS/PICsIT data analysis

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Basic commands and parameters



To make images (per Scw):

```
ibis_science_analysis ogDOL="./og_ibis.fits[1]"
startLevel="BIN_I" endLevel="IMA2"
OBS1_ScwType="ANY" CAT_refCat="$ISDC_REF_CAT"
SWITCH_disableIsgrI="YES" SWITCH_disablePICSIT="NO"
IBIS_IPS_ChanNum=0
SCW1_BKG_P_method=1
SCW1_BIN_cleanTrk=1
SCW1_BKG_picsSUnifDOL="-" SCW1_BKG_picsMUnifDOL="-"
PICSIT_inCorVar=1
PICSIT_outVarian=1
```

Basic commands and parameters



To make images (mosaics):

```
ip_skymosaic inOG="" idxScw="" outOG="./og_ibis.fits[1]"
outMosaic="./pics_mosa_ima2.fits (PICS-MOSA-IMA-IDX.tpl)"
outPicsitCat="./pics_mosa_res2.fits (PICS-MOSA-RES-
IDX.tpl)"
inCat="./isgri_catalog.fits[1]" detThr=3.0
imgSel="EVT_TYPE=='SINGLE' && E_MIN==252 && E_MAX==336"
projSel="-TAN"
```

or with HEASoft v 6.0 tool:

```
varmosaic list picsit_mosaic.fits
```

Basic commands and parameters



To make lightcurves (per Scw):

```
ibis_science_analysis ogDOL="og_ibis.fits[1]"  
startLevel="DEAD" endLevel="LCR"  
OBS1_ScwType="ANY" CAT_refCat="$ISDC_REF_CAT"  
SWITCH_disableIsgrI="YES" SWITCH_disablePICsIT="NO"  
GENERAL_levelList="DEAD,LCR"
```

```
barycent inDOL='picsit_lcr.fits[2]' inCOL=TIME  
outDOL='output_lcr.fits[2]' outCOL=TIME  
auxDOL='/path_to/scw/0052/005200550010.001/swg.fits[1]'  
raOBJ=83.6292 decOBJ=22.013140
```