

The COSMOS2015 catalogue

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1 Abstract

This document describes the COSMOS2015 catalogue which contains precise photometric redshifts and stellar masses for more than half a million objects over the 2 deg^2 COSMOS field. Including $YJHK_s$ images from the UltraVISTA-DR2 survey, Y -band from Subaru/Hyper-Suprime-Cam and infrared data from SPLASH Spitzer legacy program, this near-infrared selected catalogue is highly optimised for the study of galaxy evolution and environments in the early Universe.

1.1 Acknowledging this catalogue

If you use this catalog, please cite the following paper: "The COSMOS2015 catalog: exploring the $1 < z < 6$ universe with half a million galaxies" (Laigle et al. 2016, ApJS, 224, 24)

You must also include the following standard acknowledgement:

"Based on data products from observations made with ESO Telescopes at the La Silla Paranal Observatory under ESO programme ID 179.A-2005 and on data products produced by TERAPIX and the Cambridge Astronomy Survey Unit on behalf of the UltraVISTA consortium."

You are additionally encouraged to cite the papers representing the data included in the catalogue (such as McCracken et al. 2012 for UltraVISTA); see Laigle et al. (2016).

2 Context and changes with respect to the published catalogue

As stated in Laigle et al. (2016), the catalogue was initially made available via anonymous ftp¹, with the aim of adding additional distribution channels, such as ESO’s Phase 3, which is what this document concerns. Since the catalogue includes photometry in $YJHK_s$ from the UltraVISTA DR2 images, ESO has given this catalogue release a release number of 2.1 (i.e. DR2.1) in the UltraVISTA Phase 3 collection. This DR2.1 catalogue release supplements rather than supersedes the DR2 image release.

With respect to the catalogue made available via anonymous ftp, some noteworthy changes are:

- Some column names were changed: the dot in `FLUX_XMM_0.5_2`, `FLUX_CHANDRA_0.5_2` and `FLUX_CHANDRA_0.5_10` was removed, `OFFSET` was changed to `OFFSET_MAG`, and an underscore was inserted in the 11 absolute magnitude columns, now called `M_NUV`, `M_U`, ..., `M_K`.
- The original catalogue used different real numbers to indicate bad or missing data; e.g. -99.9 for fluxes, magnitudes and their errors, 99 additionally for the ISO and AUTO magnitudes and their errors, -99.9 , -99 or 9.99 for `PHOTOZ`, and -999 for e.g. `SFR_BEST` and `MASS_BEST`. To follow the Phase 3 standard all these real-valued “NULL values” were changed to the correct NULL value of NaN (not a number).
- It was discovered that a small fraction of the absolute magnitudes were wrong (in the interval $\sim [-105, -90]$), and these were set to NaN. This concerns about 2% of the `M_NUV` values and 0.1% of the values in the 10 other absolute magnitude columns (`M_U`, ..., `M_K`). The 3 log luminosity columns (`L_NU`, `L_R`, `L_K`) do not have this problem.
- Negative (i.e. unphysical) values of the 50% flux radius column (`FLUX_RADIUS`) were set to NaN.
- 17 likely fake objects with `ALPHA_J2000` > 150.887 (all having no data in the 5 bands used to construct the detection image) were “removed” by setting `ALPHA_J2000` and `DELTA_J2000` to NaN (thus keeping the number of rows and their order unchanged).
- UCDs (unified content descriptors) were added to the header for all columns. The UCDs describe the columns using a standardised vocabulary². The UCDs can be seen in the header doing e.g. `dfits -x 1 ADP*.fits` or viewed online in the ESO catalogue facility at <http://www.eso.org/qi/>
- Units were already present for most columns, but units for a few extra columns were added. The units can be viewed in the same way as the UCDs.
- Descriptions (comments) were added in the header for all columns; these can also be seen in Sect. 3.2.
- The primary header was updated to comply with the Phase 3 standard.

The number of rows (1,182,108) and the number of columns (536) was not changed.

¹ftp://ftp.iap.fr/pub/from_users/hjmcc/COSMOS2015/

²e.g. <http://www.ivoa.net/documents/REC/UCD/UCDlist-20070402.html>

3 Release Content

We present a catalogue containing photometry and physical parameters for more than half a million objects over the 2 deg^2 COSMOS field. This catalogue is largely identical to the one which has already been presented in Laigle et al. (2016). It has been reformatted by the UltraVISTA consortium to comply with ESO’s Phase 3 requirements (cf. Sect. 2). The catalogue contains in total 536 columns together with 1,182,108 rows. The number “half a million” is mentioned since the number of objects with the “best” data is 536,077; these objects are selected using these flags:

`(FLAG_HJMCC==0) & (FLAG_COSMOS==1) & (FLAG_PETER==0)`

(see also Sect. 3.1).

The photometry has been extracted from PSF-homogenised COSMOS optical near-infrared data and infrared data. Each near-infrared and optical band has been convolved so the final seeing (measured using a fit to a Moffat profile) corresponds to $0.8''$. Sources are selected from a chi-squared sum of the optical $z++$ (zpp) band (SuprimeCam) and the 4 NIR $YJHKs$ bands (UltraVISTA-DR2). This ensures that the catalogue contains both redder and bluer objects. It contains the NIR photometric data obtained at the ESO-VISTA telescope by the UltraVista collaboration, as processed at IAP-TERAPIX and made publicly available, the imaging data publicly available from the COSMOS collaboration including Subaru and CFHT, Y band taken with HSC Subaru, and the IR data taken with Spitzer as a part the SPLASH Spitzer legacy program. It contains also a match with the MIPS 24 μm catalog. Physical parameters have been computed with Le Phare at Laboratoire d’Astrophysique de Marseille and have been calibrated using spectroscopic data. In order to compute photometric redshifts with this catalogue, some additional corrections have to be applied to the magnitudes provided here. They are fully described in Laigle et al. (2016).

We provide also the matches with ACS, X-Ray, UV, IR, FIR, Radio catalogs and previous versions of the multi-band catalogue on COSMOS field. When the photometry is not described in Laigle et al. (2016), the corresponding references are mentioned below. What follows in Sect. 3.1 is a description of each column taken from the README file distributed with the original catalogue. Additionally, in Sect. 3.2 we provide a list of all the 536 columns (number, name, description).

3.1 Description of catalogue columns (from the README file)

```
#####
0) object identification
#####

#    name = 'NUMBER'

Right Ascension and Declination
#    name = 'ALPHA_J2000' ; unit = 'deg'
```

```

#   name = 'DELTA_J2000'; unit = 'deg'

Positions in pixels
#   name = 'X_IMAGE';
#   name = 'Y_IMAGE';
#   name = 'ERRX2_IMAGE'; variance on X_IMAGE
#   name = 'ERRY2_IMAGE'; variance on Y_IMAGE
#   name = 'ERRXY_IMAGE'; covariance of X_IMAGE,Y_IMAGE

#####
2) Regions Flags. see the Readme file COSMOS2015_Flags.pdf
for a full description of the regions.
#####

UltraVISTA area
#   name = 'FLAG_HJMCC'; 0: UltraVISTA area, >=1 out of UltraVISTA

UltraVISTA Ultra-deep stripes
#   name = 'FLAG_DEEP'; 1: Ultra-deep stripes, 0: deep stripes

COSMOS 2deg2 area
#   name = 'FLAG_COSMOS'; 1: 2deg2 COSMOS area

Saturated objects and bad areas
#   name = 'FLAG_PETER'; 0: good area, >=1 masked in optical broad-bands (P. Capak)

#####
3) Galactic extinction (Schlegel et al. 1998) at the object position
#####

#   name = 'EBV';

#####
4) Photometry.
#####

Non-detection convention (unless otherwise specified) Flux, Fluxerr,
mag, magerr = NaN in a particular band: there is no data (or pixels are
flagged as saturated) in this band at this position. Flux + Fluxerr
>0 and mag, magerr = NaN: flux is negative at this position, but flux
error is consistent.

#   name = 'FLUX_RADIUS'; radius enclosing 0.5 of the total flux (FLUX_AUTO)

```

#####

A) Optical and NIR photometry

[# is the filter name. Below is the filter list:

CFHT: u

SuprimeCam: B V r ip zpp IB427 IB464 IA484 IB505 IA527 IB574

IA624 IA679 IA738 IA767 IB709 IB827 NB711 NB816

Hyper Suprime-Cam: yHSC (Y band)

UltraVISTA-DR2: Y,J,H,Ks

WIRCam: Hw (H),Ksw (Ks)]

Fluxes and Fluxes errors:

2 diameter apertures fluxes

name = #_FLUX_APER2'; unit = 'uJy'

name = #_FLUXERR_APER2'; unit = 'uJy'

3 diameter apertures fluxes

name = #_FLUX_APER3'; unit = 'uJy'

name = #_FLUXERR_APER3'; unit = 'uJy'

AB Magnitudes and Magnitudes errors:

2 diameter apertures magnitudes

name = #_MAG_APER2'; unit = 'mag'

name = #_MAGERR_APER2'; unit = 'mag'

3 diameter apertures magnitudes

name = #_MAG_APER3'; unit = 'mag'

name = #_MAGERR_APER3'; unit = 'mag'

automatic apertures magnitudes

name = #_MAG_AUTO'; unit = 'mag'

name = #_MAGERR_AUTO'; unit = 'mag'

Isophotal magnitudes

name = #_MAG_ISO'; unit = 'mag'

name = #_MAGERR_ISO'; unit = 'mag'

Flags from SExtractor

name = #_FLAGS';

- 1 The object has neighbours, bright and close enough to significantly bias the MAG AUTO photometry, or bad pixels (more than 10% of the integrated area affected),
- 2 The object was originally blended with another one,
- 4 At least one pixel of the object is saturated (or very close to),

```

8 The object is truncated (too close to an image boundary),
16 Objects aperture data are incomplete or corrupted,
32 Objects isophotal data are incomplete or corrupted,
64 A memory overflow occurred during deblending,
128 A memory overflow occurred during extraction.
#   name = #_IMAFLAGS_ISO'; Object flags indicating saturation

#####
B) IRAC filters (# is the filter name: SPLASH_1 (ch1, 3.6um),
SPLASH_2 (ch2, 4.5um), SPLASH_3 (ch3, 5.8um), SPLASH_4 (ch4, 8.0um)):

fluxes and fluxes errors in a 3 aperture:
#   name = #_FLUX;   unit = 'uJy'
#   name = #_FLUX_ERR'; unit = 'uJy'

Magnitudes and Magnitudes errors in a 3 aperture:
#   name = #_MAG';   unit = 'mag'
#   name = #_MAGERR'; unit = 'mag'

#####
C) MIPS 24 micrometer photometry (Match with the 24um catalog by 1")
(based on Le Floc'h 2009)

fluxes and fluxes errors:
#   name = FLUX_24;   unit = 'uJy'
#   name = FLUXERR_24'; unit = 'uJy'

Magnitudes and Magnitudes errors:
#   name = MAG_24';   unit = 'mag'
#   name = MAGERR_24'; unit = 'mag'

ID in the 24um catalog:
#   name = ID_A24';

#####
D) PACS/PEP photometry (Lutz et al. 2011)
fluxes and fluxes errors 100um:
#   name = FLUX_100;   unit = 'mJy'
#   name = FLUXERR_100'; unit = 'mJy'

fluxes and fluxes errors 160um:

```

```
# name = FLUX_160; unit = 'mJy'
# name = FLUXERR_160'; unit = 'mJy'
```

```
#####
```

E) SPIRE/HERMES photometry (Oliver et al. 2012)

fluxes and fluxes errors 250um:

```
# name = FLUX_250; unit = 'mJy'
# name = FLUXERR_250'; unit = 'mJy' (instrumental noise)
# name = FLUXERRTOT_250'; unit = 'mJy' (total (inst+conf) noise)
```

fluxes and fluxes errors 350um:

```
# name = FLUX_350; unit = 'mJy'
# name = FLUXERR_350'; unit = 'mJy' (instrumental noise)
# name = FLUXERRTOT_350'; unit = 'mJy' (total (inst+conf) noise)
```

fluxes and fluxes errors 500um:

```
# name = FLUX_500; unit = 'mJy'
# name = FLUXERR_500'; unit = 'mJy' (instrumental noise)
# name = FLUXERRTOT_500'; unit = 'mJy' (total (inst+conf) noise)
```

```
#####
```

F) GALEX photometry (Zamojski et al. 2007, Capak et al. 2007)

fluxes and fluxes errors FUV:

```
# name = MAG_GALEX_FUV; unit = 'mag
# name = MAGERR_GALEX_FUV'; unit = 'mag
# name = FLUX_GALEX_FUV; unit = uJy'
# name = FLUXERR_GALEX_FUV'; unit = uJy'
```

fluxes and fluxes errors NUV:

```
# name = MAG_GALEX_NUV; unit = 'mag
# name = MAGERR_GALEX_NUV'; unit = 'mag
# name = FLUX_GALEX_FUV; unit = uJy'
# name = FLUXERR_GALEX_FUV'; unit = uJy'
```

```
#####
```

G) X-Ray photometry

nan value if there is no corresponding object in the matched catalog.

match from the new Chandra COSMOS catalog (Civano et al. 2016, Marchesi et al. 2016):

The match is described in Laigle et al. 2016.

```
# name = 'ID_CHANDRA16'; format = '9A'
```

```

fluxes and fluxes errors from the previous Chandra COSMOS catalog (Elvis et al. 2009)
# name = 'ID_CHANDRA09'; format = 'J'; null = -2147483648
# name = 'FLUX_CHANDRA_05_2'; format = 'D'; unit = 'erg/cm2/s' (0.5-2 keV band flux)
# name = 'FLUX_CHANDRA_2_10'; format = 'D'; unit = 'erg/cm2/s' (2-10 keV band flux)
# name = 'FLUX_CHANDRA_05_10'; format = 'D'; unit = 'erg/cm2/s' (0.5-10 keV band flux)

```

fluxes and fluxes errors from XMM/Newton (Cappelluti et al. 2009):

```

# name = 'ID_XMM'; format = 'J'; null = -2147483648
# name = 'FLUX_XMM_05_2'; format = 'E' (0.2-2 keV band flux)
# name = 'FLUX_XMM_2_10'; format = 'E' (2-10 keV band flux)
# name = 'FLUX_XMM_5_10'; format = 'E' (5-10 keV band flux)
# name = 'HARDNESS_XMM'; format = 'E' (hardness ratio)

```

fluxes and fluxes errors from Nustar (Civano et al. 2015):

```

# name = 'ID_NUSTAR'; format = '20A'
# name = 'FLUX_NUSTAR_3_24'; format = 'E' (3-24 keV band flux)
# name = 'FLUXERR_NUSTAR_3_24'; format = 'E' (3-24 keV band flux error)
# name = 'FLUX_NUSTAR_3_8'; format = 'E' (3-8 keV band flux)
# name = 'FLUXERR_NUSTAR_3_8'; format = 'E' (3-8 keV band flux error)
# name = 'FLUX_NUSTAR_8_24'; format = 'E' (8-24 keV band flux)
# name = 'FLUXERR_NUSTAR_8_24'; format = 'E' (8-24 keV band flux error)
# name = 'HARDNESS_NUSTAR'; format = 'E' (hardness ratio)
# name = 'HARDNESSLOW_NUSTAR'; format = 'E' (hardness ratio lower bound)
# name = 'HARDNESSUP_NUSTAR'; format = 'E' (hardness ratio upper bound)
# name = 'FLAG_XRAYBLEND'; format = 'I'; null = -32768 (flag for blended sources)

```

#####

H) Match with the ACS catalog (Leauthaud et al. 2007)

fluxes and fluxes errors F814W:

```

# name = 'FLUX_814W'; unit = 'mJy'
# name = 'FLUXERR_814W'; unit = 'mJy'

```

#####

I) Radio VLA photometry:

To do the match, 90cm catalog is merged with the 20cm catalog using a 6 radius.
The 20cm catalog to the optical catalog with a 2 radius.

fluxes and fluxes errors 20cm:

```

# name = 'FLUXPEAK_20CM'; unit = 'mJy' (peak flux of the radio source)
# name = 'FLUXPEAKERR_20CM'; unit = 'mJy' (rms uncertainty in the peak)

```



```

    flux of the radio source)
# name = FLUXINT_20CM'; unit = 'mJy' (total integrated flux of the
    radio source)
# name = FLUXINTERR_20CM'; unit = 'mJy' (rms uncertainty total
    integrated flux of the radio source)
# name = RMSBKG_20CM'; unit = 'mJy' (measured local rms noise at the
    source position)

```

fluxes and fluxes errors 90cm:

```

# name = FLUXPEAK_90CM'; unit = 'mJy' (peak flux of the radio source)
# name = FLUXPEAKERR_90CM'; unit = 'mJy' (rms uncertainty in the peak
    flux of the radio source)
# name = FLUXINT_90CM'; unit = 'mJy' (total integrated flux of the
    radio source)
# name = FLUXINTERR_90CM'; unit = 'mJy' (rms uncertainty total
    integrated flux of the radio source)
# name = RMSBKG_90CM'; unit = 'mJy' (measured local rms noise at the
    source position)
name of the sources in VLA 90cm catalog
#   name = NAME_VLA90CM';
name of the sources in JVL Deep catalog
#   name = NAME_JVLDEEP';
name of the sources in JVL Large catalog
#   name = NAME_JVLLARGE';

```

```

#####
5) Match with previous multi-band catalogs
#####

```

```

1st version of the catalog from Capak et al. 2007
    name= 'ID2006'
2nd version of the catalog from Capak et al. 2007
    name= 'ID2008'
catalog from Ilbert et al. 2013
    name= 'ID2013'

```

```

#####
6) Main parameters computed with LePhare
derived using a method similar to Ilbert et al. (2009, 2013)
#####

```

```

# name= 'OFFSET_MAG' (offset applied to the aperture magnitudes to obtain
total quantities)
# name= 'PHOTOZ' (z= zPDF if galaxy [median of the likelihood
distribution], z= 0 if star, z= NaN if Xray source based on Chandra
(Civano program), z= NaN if masked area in flag_Capak)

# name= 'TYPE' (Given even in masked regions; type=0 if galaxy; type=1
if star[mainly based on the chi2, only for objects detected in NIR
or 3.6]; type=2 if Xray source; type=-9 if failure in the fit [most
of these objects have less than 1 band])

#####

Best fit obtained with the galaxy templates warning: every source has
a redshift, regardless of the type or if it is in a masked area or not

# name= 'ZPDF' (photo-z measured using the galaxy templates. Median of
the likelihood distribution.)

# name= 'ZPDF_L68' (lower limit, 68% confidence level [a comparison
photo-z/spec-z shows that these errors could be underestimated by a
factor 0.1*I-0.8 at I>20 and 1.2 at I<20])

# name= 'ZPDF_U68' (upper limit, 68% confidence level [a comparison
photo-z/spec-z shows that these errors could be underestimated by a
factor 0.1*I-0.8 at I>20 and 1.2 at I<20]) name= 'ZMIN_CHI2' (photo-z
measured using the galaxy templates. Photo-z defines as the minimum
of the chi2 distribution.)

# name= 'CHI2_BEST' (reduced chi2 for zMinChi2)

# name= 'ZP_2' (second photo-z solution if a second peak is detected
with P>5% in the PDF)

# name= 'CHI2_2' (reduced chi2 for the second photo-z solution)
# name= 'NBFILT' (Number of filters used in the fit)

```

#####

Best fit obtained with the AGN templates, in LePhare standard modality, but NOT optimised for Xray detected sources (no prior based on morphology, no variability correction, etc.) !!!! Warning: PLEASE use photos from Marchesi et al 2016 for the Xray selected sources. This mentioned paper revises also the counterparts, so it supersedes

Salvato+09, Salvato+11, Civano+11, and Brusa+10.

```
# name= 'ZQ'          (photoz for the AGN library.)
# name= 'CHIQ'        (reduced chi2 )
# name= 'MODQ'        (best fit template)
```

#####

Best fit obtained with the STAR templates

```
# name= 'MODS'        (model for the star library)
# name= 'CHIS'        (reduced chi2)
```

#####

PHYSICAL PROPERTIES

derived from the BC03 best-fit templates at zPDF (Chabrier IMF;
cosmo:70,0.3,0.7; BC03 tau+delayed models described in Ilbert et
al. 2015).

#####

Best fit BC03 model at zPDF

```
# name = 'MODEL'
# name = 'AGE'
# name = 'EXTINCTION'
```

#####

Absolute magnitudes

```
# name = 'M_NUV'    NUV galex
# name = 'M_U'      u* CFHT
# name = 'M_B'      B  Subaru
# name = 'M_V'      V  Subaru
# name = 'M_R'      r+ Subaru
# name = 'M_I'      i+ Subaru
# name = 'M_Z'      z Subaru   (new filter)
# name = 'M_Y'      VISTA
# name = 'M_J'      VISTA
# name = 'M_H'      VISTA
# name = 'M_K'      VISTA
```

#####

Dust corrected color at zPDF

```
# name = 'MNUV_MR'   corrected from dust-extinction.
```

#####

Classification quiescent/star-forming

```

# name = 'CLASS'    0:quiescent/1:star-forming based on the NUV-R/R-J

#####
Mass
# name = 'MASS_MED'      log Stellar mass from BC03 best-fit template. median of the PDF
# name = 'MASS_MED_MIN68' lower limit, 68% confidence level
# name = 'MASS_MED_MAX68' upper limit, 68% confidence level
# name = 'MASS_BEST' log Stellar mass from BC03 best-fit
    template. Taken at the minimum chi2

#####
SFR !Warning: computed without IR, large uncertainties with such methods
# name = 'SFR_MED'      log SFR from BC03 best-fit template. median of the PDF
# name = 'SFR_MED_MIN68' lower limit, 68% confidence level
# name = 'SFR_MED_MAX68' upper limit, 68% confidence level
# name = 'SFR_BEST'      log SFR from BC03 best-fit template. Taken at the minimum chi2
# name = 'SSFR_MED'      log sSFR from BC03 best-fit template. median of the PDF
# name = 'SSFR_MED_MIN68' lower limit, 68% confidence level
# name = 'SSFR_MED_MAX68' upper limit, 68% confidence level
# name = 'SSFR_BEST'      log sSFR from BC03 best-fit template. Taken at the minimum chi2

#####
Luminosities
# name = 'L_NU'      log(dust corrected luminosity in erg/s/Hz) in NUV filter
# name = 'L_R'      log(dust corrected luminosity in erg/s/Hz) in r filter
# name = 'L_K'      log(dust corrected luminosity in erg/s/Hz) in K filter

```

3.2 Complete list of catalogue columns

The following is a list of column number, name and description. This information was derived from the original README file and from Laigle et al. (2016), with the small update that it has been noted that the 3 log luminosity columns (L_NU, L_R, L_K) are dust corrected (i.e. corrected for dust attenuation).

| No. | Name | Description |
|-----|-------------|--|
| 1 | ALPHA_J2000 | Right ascension of barycenter in decimal degrees (J2000) |
| 2 | DELTA_J2000 | Declination of barycenter in decimal degrees (J2000) |
| 3 | NUMBER | Running object number |
| 4 | X_IMAGE | Object position along x |
| 5 | Y_IMAGE | Object position along y |
| 6 | ERRX2_IMAGE | Variance of position along X |
| 7 | ERRY2_IMAGE | Variance of position along Y |
| 8 | ERRXY_IMAGE | Covariance of position X / Y |
| 9 | FLAG_HJMCC | Bad region flag |

| | | |
|----|------------------|--|
| 10 | FLUX_RADIUS | Radius of aperture containing half the flux of MAG_AUTO |
| 11 | KRON_RADIUS | Kron apertures in units of A or B |
| 12 | EBV | Galactic reddening E(B-V) based on Schlegel et al (1998) dust maps |
| 13 | FLAG_PETER | Flag Saturated objects and bad areas |
| 14 | FLAG_COSMOS | 1: 2deg2 COSMOS area |
| 15 | FLAG_DEEP | 1: Ultra-deep stripes, 0: deep stripes |
| 16 | FLAG_SHALLOW | Shallow Flag |
| 17 | Ks_FLUX_APER2 | Ks fixed aperture flux (2",AB) [detection image] |
| 18 | Ks_FLUXERR_APER2 | Ks fixed aperture flux error (2",AB) [detection image] |
| 19 | Ks_FLUX_APER3 | Ks fixed aperture flux (3",AB) [detection image] |
| 20 | Ks_FLUXERR_APER3 | Ks fixed aperture flux error (3",AB) [detection image] |
| 21 | Ks_MAG_APER2 | Ks fixed aperture magnitude (2",AB) [detection image] |
| 22 | Ks_MAGERR_APER2 | Ks fixed aperture mag error (2",AB) [detection image] |
| 23 | Ks_MAG_APER3 | Ks fixed aperture magnitude (3",AB) [detection image] |
| 24 | Ks_MAGERR_APER3 | Ks fixed aperture mag error (3",AB) [detection image] |
| 25 | Ks_MAG_AUTO | Ks auto magnitude (AB) [detection image] |
| 26 | Ks_MAGERR_AUTO | Ks auto mag error (AB) [detection image] |
| 27 | Ks_MAG_ISO | Isophotal magnitude |
| 28 | Ks_MAGERR_ISO | rms uncertainty on magK |
| 29 | Ks_FLAGS | Internal Flag |
| 30 | Ks_IMAFLAGS_ISO | External Flag |
| 31 | Y_FLUX_APER2 | Y fixed aperture flux (2",AB) [detection image] |
| 32 | Y_FLUXERR_APER2 | Y fixed aperture flux error (2",AB) [detection image] |
| 33 | Y_FLUX_APER3 | Y fixed aperture flux (3",AB) [detection image] |
| 34 | Y_FLUXERR_APER3 | Y fixed aperture flux error (3",AB) [detection image] |
| 35 | Y_MAG_APER2 | Y fixed aperture magnitude (2",AB) |
| 36 | Y_MAGERR_APER2 | Y fixed aperture mag error (2",AB) |
| 37 | Y_MAG_APER3 | Y fixed aperture magnitude (3",AB) |
| 38 | Y_MAGERR_APER3 | Y fixed aperture mag error (3",AB) |
| 39 | Y_MAG_AUTO | Y auto magnitude (AB) |
| 40 | Y_MAGERR_AUTO | Y auto mag error (AB) |
| 41 | Y_MAG_ISO | Isophotal magnitude |
| 42 | Y_MAGERR_ISO | rms uncertainty on magY |
| 43 | Y_FLAGS | Internal Flag |
| 44 | Y_IMAFLAGS_ISO | External Flag |
| 45 | H_FLUX_APER2 | H fixed aperture flux (2",AB) [detection image] |
| 46 | H_FLUXERR_APER2 | H fixed aperture flux error (2",AB) [detection image] |
| 47 | H_FLUX_APER3 | H fixed aperture flux (3",AB) [detection image] |
| 48 | H_FLUXERR_APER3 | H fixed aperture flux error (3",AB) [detection image] |
| 49 | H_MAG_APER2 | H fixed aperture magnitude (2",AB) |
| 50 | H_MAGERR_APER2 | H fixed aperture mag error (2",AB) |
| 51 | H_MAG_APER3 | H fixed aperture magnitude (3",AB) |
| 52 | H_MAGERR_APER3 | H fixed aperture mag error (3",AB) |
| 53 | H_MAG_AUTO | H auto magnitude (AB) |
| 54 | H_MAGERR_AUTO | H auto mag error (AB) |
| 55 | H_MAG_ISO | Isophotal magnitude |

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| 56 | H_MAGERR_ISO | rms uncertainty on magH |
| 57 | H_FLAGS | Internal Flag |
| 58 | H_IMAFLAGS_ISO | External Flag |
| 59 | J_FLUX_APER2 | J fixed aperture flux (2",AB) [detection image] |
| 60 | J_FLUXERR_APER2 | J fixed aperture flux error (2",AB) [detection image] |
| 61 | J_FLUX_APER3 | J fixed aperture flux (3",AB) [detection image] |
| 62 | J_FLUXERR_APER3 | J fixed aperture flux error (3",AB) [detection image] |
| 63 | J_MAG_APER2 | J fixed aperture magnitude (2",AB) |
| 64 | J_MAGERR_APER2 | J fixed aperture mag error (2",AB) |
| 65 | J_MAG_APER3 | J fixed aperture magnitude (3",AB) |
| 66 | J_MAGERR_APER3 | J fixed aperture mag error (3",AB) |
| 67 | J_MAG_AUTO | J auto magnitude (AB) |
| 68 | J_MAGERR_AUTO | J auto mag error (AB) |
| 69 | J_MAG_ISO | Isophotal magnitude |
| 70 | J_MAGERR_ISO | rms uncertainty on magJ |
| 71 | J_FLAGS | Internal Flag |
| 72 | J_IMAFLAGS_ISO | External Flag |
| 73 | B_FLUX_APER2 | B fixed aperture flux (2",AB) [detection image] |
| 74 | B_FLUXERR_APER2 | B fixed aperture flux error (2",AB) [detection image] |
| 75 | B_FLUX_APER3 | B fixed aperture flux (3",AB) [detection image] |
| 76 | B_FLUXERR_APER3 | B fixed aperture flux error (3",AB) [detection image] |
| 77 | B_MAG_APER2 | B fixed aperture magnitude (2",AB) |
| 78 | B_MAGERR_APER2 | B fixed aperture mag error (2",AB) |
| 79 | B_MAG_APER3 | B fixed aperture magnitude (3",AB) |
| 80 | B_MAGERR_APER3 | B fixed aperture mag error (3",AB) |
| 81 | B_MAG_AUTO | B auto magnitude (AB) |
| 82 | B_MAGERR_AUTO | B auto mag error (AB) |
| 83 | B_MAG_ISO | Isophotal magnitude |
| 84 | B_MAGERR_ISO | rms uncertainty on magB |
| 85 | B_FLAGS | Internal Flag |
| 86 | B_IMAFLAGS_ISO | External Flag |
| 87 | V_FLUX_APER2 | V fixed aperture flux (2",AB) [detection image] |
| 88 | V_FLUXERR_APER2 | V fixed aperture flux error (2",AB) [detection image] |
| 89 | V_FLUX_APER3 | V fixed aperture flux (3",AB) [detection image] |
| 90 | V_FLUXERR_APER3 | V fixed aperture flux error (3",AB) [detection image] |
| 91 | V_MAG_APER2 | V fixed aperture magnitude (2",AB) |
| 92 | V_MAGERR_APER2 | V fixed aperture mag error (2",AB) |
| 93 | V_MAG_APER3 | V fixed aperture magnitude (3",AB) |
| 94 | V_MAGERR_APER3 | V fixed aperture mag error (3",AB) |
| 95 | V_MAG_AUTO | V auto magnitude (AB) |
| 96 | V_MAGERR_AUTO | V auto mag error (AB) |
| 97 | V_MAG_ISO | Isophotal magnitude |
| 98 | V_MAGERR_ISO | rms uncertainty on magV |
| 99 | V_FLAGS | Internal Flag |
| 100 | V_IMAFLAGS_ISO | External Flag |
| 101 | ip_FLUX_APER2 | ip fixed aperture flux (2",AB) [detection image] |

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| 102 | ip_FLUXERR_APER2 | ip fixed aperture flux error (2",AB) [detection image] |
| 103 | ip_FLUX_APER3 | ip fixed aperture flux (3",AB) [detection image] |
| 104 | ip_FLUXERR_APER3 | ip fixed aperture flux error (3",AB) [detection image] |
| 105 | ip_MAG_APER2 | ip fixed aperture magnitude (2",AB) |
| 106 | ip_MAGERR_APER2 | ip fixed aperture mag error (2",AB) |
| 107 | ip_MAG_APER3 | ip fixed aperture magnitude (3",AB) |
| 108 | ip_MAGERR_APER3 | ip fixed aperture mag error (3",AB) |
| 109 | ip_MAG_AUTO | ip auto magnitude (AB) |
| 110 | ip_MAGERR_AUTO | ip auto mag error (AB) |
| 111 | ip_MAG_ISO | Isophotal magnitude |
| 112 | ip_MAGERR_ISO | rms uncertainty on magIP |
| 113 | ip_FLAGS | Internal Flag |
| 114 | ip_IMAFLAGS_ISO | External Flag |
| 115 | r_FLUX_APER2 | r fixed aperture flux (2",AB) [detection image] |
| 116 | r_FLUXERR_APER2 | r fixed aperture flux error (2",AB) [detection image] |
| 117 | r_FLUX_APER3 | r fixed aperture flux (3",AB) [detection image] |
| 118 | r_FLUXERR_APER3 | r fixed aperture flux error (3",AB) [detection image] |
| 119 | r_MAG_APER2 | r fixed aperture magnitude (2",AB) |
| 120 | r_MAGERR_APER2 | r fixed aperture mag error (2",AB) |
| 121 | r_MAG_APER3 | r fixed aperture magnitude (3",AB) |
| 122 | r_MAGERR_APER3 | r fixed aperture mag error (3",AB) |
| 123 | r_MAG_AUTO | r auto magnitude (AB) |
| 124 | r_MAGERR_AUTO | r auto mag error (AB) |
| 125 | r_MAG_ISO | Isophotal magnitude |
| 126 | r_MAGERR_ISO | rms uncertainty on magr |
| 127 | r_FLAGS | Internal Flag |
| 128 | r_IMAFLAGS_ISO | External Flag |
| 129 | u_FLUX_APER2 | u fixed aperture flux (2",AB) [detection image] |
| 130 | u_FLUXERR_APER2 | u fixed aperture flux error (2",AB) [detection image] |
| 131 | u_FLUX_APER3 | u fixed aperture flux (3",AB) [detection image] |
| 132 | u_FLUXERR_APER3 | u fixed aperture flux error (3",AB) [detection image] |
| 133 | u_MAG_APER2 | u fixed aperture magnitude (2",AB) |
| 134 | u_MAGERR_APER2 | u fixed aperture mag error (2",AB) |
| 135 | u_MAG_APER3 | u fixed aperture magnitude (3",AB) |
| 136 | u_MAGERR_APER3 | u fixed aperture mag error (3",AB) |
| 137 | u_MAG_AUTO | u auto magnitude (AB) |
| 138 | u_MAGERR_AUTO | u auto mag error (AB) |
| 139 | u_MAG_ISO | Isophotal magnitude |
| 140 | u_MAGERR_ISO | rms uncertainty on magU |
| 141 | u_FLAGS | Internal Flag |
| 142 | u_IMAFLAGS_ISO | External Flag |
| 143 | zp_FLUX_APER2 | zp fixed aperture flux (2",AB) [detection image] |
| 144 | zp_FLUXERR_APER2 | zp fixed aperture flux error (2",AB) [detection image] |
| 145 | zp_FLUX_APER3 | zp fixed aperture flux (3",AB) [detection image] |
| 146 | zp_FLUXERR_APER3 | zp fixed aperture flux error (3",AB) [detection image] |
| 147 | zp_MAG_APER2 | zp fixed aperture magnitude (2",AB) |

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| 148 | zp_MAGERR_APER2 | zp fixed aperture mag error (2",AB) |
| 149 | zp_MAG_APER3 | zp fixed aperture magnitude (3",AB) |
| 150 | zp_MAGERR_APER3 | zp fixed aperture mag error (3",AB) |
| 151 | zp_MAG_AUTO | zp auto magnitude (AB) |
| 152 | zp_MAGERR_AUTO | zp auto mag error (AB) |
| 153 | zp_MAG_ISO | Isophotal magnitude |
| 154 | zp_MAGERR_ISO | rms uncertainty on magZP |
| 155 | zp_FLAGS | Internal Flag |
| 156 | zp_IMAFLAGS_ISO | External Flag |
| 157 | zpp_FLUX_APER2 | zpp fixed aperture flux (2",AB) [detection image] |
| 158 | zpp_FLUXERR_APER2 | zpp fixed aperture flux error (2",AB) [detection image] |
| 159 | zpp_FLUX_APER3 | zpp fixed aperture flux (3",AB) [detection image] |
| 160 | zpp_FLUXERR_APER3 | zpp fixed aperture flux error (3",AB) [detection image] |
| 161 | zpp_MAG_APER2 | zpp fixed aperture magnitude (2",AB) |
| 162 | zpp_MAGERR_APER2 | zpp fixed aperture mag error (2",AB) |
| 163 | zpp_MAG_APER3 | zpp fixed aperture magnitude (3",AB) |
| 164 | zpp_MAGERR_APER3 | zpp fixed aperture mag error (3",AB) |
| 165 | zpp_MAG_AUTO | zpp auto magnitude (AB) |
| 166 | zpp_MAGERR_AUTO | zpp auto mag error (AB) |
| 167 | zpp_MAG_ISO | Isophotal magnitude |
| 168 | zpp_MAGERR_ISO | rms uncertainty on magZPP |
| 169 | zpp_FLAGS | Internal Flag |
| 170 | zpp_IMAFLAGS_ISO | External Flag |
| 171 | IA484_FLUX_APER2 | IA484 fixed aperture flux (2",AB) [detection image] |
| 172 | IA484_FLUXERR_APER2 | IA484 fixed aperture flux error (2",AB) [detection image] |
| 173 | IA484_FLUX_APER3 | IA484 fixed aperture flux (3",AB) [detection image] |
| 174 | IA484_FLUXERR_APER3 | IA484 fixed aperture flux error (3",AB) [detection image] |
| 175 | IA484_MAG_APER2 | IA484 fixed aperture magnitude (2",AB) |
| 176 | IA484_MAGERR_APER2 | IA484 fixed aperture mag error (2",AB) |
| 177 | IA484_MAG_APER3 | IA484 fixed aperture magnitude (3",AB) |
| 178 | IA484_MAGERR_APER3 | IA484 fixed aperture mag error (3",AB) |
| 179 | IA484_MAG_AUTO | IA484 auto magnitude (AB) |
| 180 | IA484_MAGERR_AUTO | IA484 auto mag error (AB) |
| 181 | IA484_MAG_ISO | Isophotal magnitude |
| 182 | IA484_MAGERR_ISO | rms uncertainty on magIA484 |
| 183 | IA484_FLAGS | Internal flag |
| 184 | IA484_IMAFLAGS_ISO | External Flag |
| 185 | IA527_FLUX_APER2 | IA527 fixed aperture flux (2",AB) [detection image] |
| 186 | IA527_FLUXERR_APER2 | IA527 fixed aperture flux error (2",AB) [detection image] |
| 187 | IA527_FLUX_APER3 | IA527 fixed aperture flux (3",AB) [detection image] |
| 188 | IA527_FLUXERR_APER3 | IA527 fixed aperture flux error (3",AB) [detection image] |
| 189 | IA527_MAG_APER2 | IA527 fixed aperture magnitude (2",AB) |
| 190 | IA527_MAGERR_APER2 | IA527 fixed aperture mag error (2",AB) |
| 191 | IA527_MAG_APER3 | IA527 fixed aperture magnitude (3",AB) |
| 192 | IA527_MAGERR_APER3 | IA527 fixed aperture mag error (3",AB) |
| 193 | IA527_MAG_AUTO | IA527 auto magnitude (AB) |

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| 194 | IA527_MAGERR_AUTO | IA527 auto mag error (AB) |
| 195 | IA527_MAG_ISO | Isophotal magnitude |
| 196 | IA527_MAGERR_ISO | rms uncertainty on magIA527 |
| 197 | IA527_FLAGS | Internal Flag |
| 198 | IA527_IMAFLAGS_ISO | External Flag |
| 199 | IA624_FLUX_APER2 | IA624 fixed aperture flux (2",AB) [detection image] |
| 200 | IA624_FLUXERR_APER2 | IA624 fixed aperture flux error (2",AB) [detection image] |
| 201 | IA624_FLUX_APER3 | IA624 fixed aperture flux (3",AB) [detection image] |
| 202 | IA624_FLUXERR_APER3 | IA624 fixed aperture flux error (3",AB) [detection image] |
| 203 | IA624_MAG_APER2 | IA624 fixed aperture magnitude (2",AB) |
| 204 | IA624_MAGERR_APER2 | IA624 fixed aperture mag error (2",AB) |
| 205 | IA624_MAG_APER3 | IA624 fixed aperture magnitude (3",AB) |
| 206 | IA624_MAGERR_APER3 | IA624 fixed aperture mag error (3",AB) |
| 207 | IA624_MAG_AUTO | IA624 auto magnitude (AB) |
| 208 | IA624_MAGERR_AUTO | IA624 auto mag error (AB) |
| 209 | IA624_MAG_ISO | Isophotal magnitude |
| 210 | IA624_MAGERR_ISO | rms uncertainty on magIA624 |
| 211 | IA624_FLAGS | Internal Flag |
| 212 | IA624_IMAFLAGS_ISO | External Flag |
| 213 | IA679_FLUX_APER2 | IA679 fixed aperture flux (2",AB) [detection image] |
| 214 | IA679_FLUXERR_APER2 | IA679 fixed aperture flux error (2",AB) [detection image] |
| 215 | IA679_FLUX_APER3 | IA679 fixed aperture flux (3",AB) [detection image] |
| 216 | IA679_FLUXERR_APER3 | IA679 fixed aperture flux error (3",AB) [detection image] |
| 217 | IA679_MAG_APER2 | IA679 fixed aperture magnitude (2",AB) |
| 218 | IA679_MAGERR_APER2 | IA679 fixed aperture mag error (2",AB) |
| 219 | IA679_MAG_APER3 | IA679 fixed aperture magnitude (3",AB) |
| 220 | IA679_MAGERR_APER3 | IA679 fixed aperture mag error (3",AB) |
| 221 | IA679_MAG_AUTO | IA679 auto magnitude (AB) |
| 222 | IA679_MAGERR_AUTO | IA679 auto mag error (AB) |
| 223 | IA679_MAG_ISO | Isophotal magnitude |
| 224 | IA679_MAGERR_ISO | rms uncertainty on magIA679 |
| 225 | IA679_FLAGS | Internal Flag |
| 226 | IA679_IMAFLAGS_ISO | External Flag |
| 227 | IA738_FLUX_APER2 | IA738 fixed aperture flux (2",AB) [detection image] |
| 228 | IA738_FLUXERR_APER2 | IA738 fixed aperture flux error (2",AB) [detection image] |
| 229 | IA738_FLUX_APER3 | IA738 fixed aperture flux (3",AB) [detection image] |
| 230 | IA738_FLUXERR_APER3 | IA738 fixed aperture flux error (3",AB) [detection image] |
| 231 | IA738_MAG_APER2 | IA738 fixed aperture magnitude (2",AB) |
| 232 | IA738_MAGERR_APER2 | IA738 fixed aperture mag error (2",AB) |
| 233 | IA738_MAG_APER3 | IA738 fixed aperture magnitude (3",AB) |
| 234 | IA738_MAGERR_APER3 | IA738 fixed aperture mag error (3",AB) |
| 235 | IA738_MAG_AUTO | IA738 auto magnitude (AB) |
| 236 | IA738_MAGERR_AUTO | IA738 auto mag error (AB) |
| 237 | IA738_MAG_ISO | Isophotal magnitude |
| 238 | IA738_MAGERR_ISO | rms uncertainty on magIA738 |
| 239 | IA738_FLAGS | Internal Flag |

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| 240 | IA738_IMAFLAGS_ISO | External Flag |
| 241 | IA767_FLUX_APER2 | IA767 fixed aperture flux (2",AB) [detection image] |
| 242 | IA767_FLUXERR_APER2 | IA767 fixed aperture flux error (2",AB) [detection image] |
| 243 | IA767_FLUX_APER3 | IA767 fixed aperture flux (3",AB) [detection image] |
| 244 | IA767_FLUXERR_APER3 | IA767 fixed aperture flux error (3",AB) [detection image] |
| 245 | IA767_MAG_APER2 | IA767 fixed aperture magnitude (2",AB) |
| 246 | IA767_MAGERR_APER2 | IA767 fixed aperture mag error (2",AB) |
| 247 | IA767_MAG_APER3 | IA767 fixed aperture magnitude (3",AB) |
| 248 | IA767_MAGERR_APER3 | IA767 fixed aperture mag error (3",AB) |
| 249 | IA767_MAG_AUTO | IA767 auto magnitude (AB) |
| 250 | IA767_MAGERR_AUTO | IA767 auto mag error (AB) |
| 251 | IA767_MAG_ISO | Isophotal magnitude |
| 252 | IA767_MAGERR_ISO | rms uncertainty on magIA767 |
| 253 | IA767_FLAGS | Internal Flag |
| 254 | IA767_IMAFLAGS_ISO | External Flag |
| 255 | IB427_FLUX_APER2 | IB427 fixed aperture flux (2",AB) [detection image] |
| 256 | IB427_FLUXERR_APER2 | IB427 fixed aperture flux error (2",AB) [detection image] |
| 257 | IB427_FLUX_APER3 | IB427 fixed aperture flux (3",AB) [detection image] |
| 258 | IB427_FLUXERR_APER3 | IB427 fixed aperture flux error (3",AB) [detection image] |
| 259 | IB427_MAG_APER2 | IB427 fixed aperture magnitude (2",AB) |
| 260 | IB427_MAGERR_APER2 | IB427 fixed aperture mag error (2",AB) |
| 261 | IB427_MAG_APER3 | IB427 fixed aperture magnitude (3",AB) |
| 262 | IB427_MAGERR_APER3 | IB427 fixed aperture mag error (3",AB) |
| 263 | IB427_MAG_AUTO | IB427 auto magnitude (AB) |
| 264 | IB427_MAGERR_AUTO | IB427 auto mag error (AB) |
| 265 | IB427_MAG_ISO | Isophotal magnitude |
| 266 | IB427_MAGERR_ISO | rms uncertainty on magIB427 |
| 267 | IB427_FLAGS | internal Flag |
| 268 | IB427_IMAFLAGS_ISO | External Flag |
| 269 | IB464_FLUX_APER2 | IB464 fixed aperture flux (2",AB) [detection image] |
| 270 | IB464_FLUXERR_APER2 | IB464 fixed aperture flux error (2",AB) [detection image] |
| 271 | IB464_FLUX_APER3 | IB464 fixed aperture flux (3",AB) [detection image] |
| 272 | IB464_FLUXERR_APER3 | IB464 fixed aperture flux error (3",AB) [detection image] |
| 273 | IB464_MAG_APER2 | IB464 fixed aperture magnitude (2",AB) |
| 274 | IB464_MAGERR_APER2 | IB464 fixed aperture mag error (2",AB) |
| 275 | IB464_MAG_APER3 | IB464 fixed aperture magnitude (3",AB) |
| 276 | IB464_MAGERR_APER3 | IB464 fixed aperture mag error (3",AB) |
| 277 | IB464_MAG_AUTO | IB464 auto magnitude (AB) |
| 278 | IB464_MAGERR_AUTO | IB464 auto mag error (AB) |
| 279 | IB464_MAG_ISO | Isophotal magnitude |
| 280 | IB464_MAGERR_ISO | rms uncertainty on magIB464 |
| 281 | IB464_FLAGS | Internal Flag |
| 282 | IB464_IMAFLAGS_ISO | External Flag |
| 283 | IB505_FLUX_APER2 | IB505 fixed aperture flux (2",AB) [detection image] |
| 284 | IB505_FLUXERR_APER2 | IB505 fixed aperture flux error (2",AB) [detection image] |
| 285 | IB505_FLUX_APER3 | IB505 fixed aperture flux (3",AB) [detection image] |

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| 286 | IB505_FLUXERR_APER3 | IB505 fixed aperture flux error (3",AB) [detection image] |
| 287 | IB505_MAG_APER2 | IB505 fixed aperture magnitude (2",AB) |
| 288 | IB505_MAGERR_APER2 | IB505 fixed aperture mag error (2",AB) |
| 289 | IB505_MAG_APER3 | IB505 fixed aperture magnitude (3",AB) |
| 290 | IB505_MAGERR_APER3 | IB505 fixed aperture mag error (3",AB) |
| 291 | IB505_MAG_AUTO | IB505 auto magnitude (AB) |
| 292 | IB505_MAGERR_AUTO | IB505 auto mag error (AB) |
| 293 | IB505_MAG_ISO | Isophotal magnitude |
| 294 | IB505_MAGERR_ISO | rms uncertainty on magIB505 |
| 295 | IB505_FLAGS | internal Flag |
| 296 | IB505_IMAFLAGS_ISO | External flag |
| 297 | IB574_FLUX_APER2 | IB574 fixed aperture flux (2",AB) [detection image] |
| 298 | IB574_FLUXERR_APER2 | IB574 fixed aperture flux error (2",AB) [detection image] |
| 299 | IB574_FLUX_APER3 | IB574 fixed aperture flux (3",AB) [detection image] |
| 300 | IB574_FLUXERR_APER3 | IB574 fixed aperture flux error (3",AB) [detection image] |
| 301 | IB574_MAG_APER2 | IB574 fixed aperture magnitude (2",AB) |
| 302 | IB574_MAGERR_APER2 | IB574 fixed aperture mag error (2",AB) |
| 303 | IB574_MAG_APER3 | IB574 fixed aperture magnitude (3",AB) |
| 304 | IB574_MAGERR_APER3 | IB574 fixed aperture mag error (3",AB) |
| 305 | IB574_MAG_AUTO | IB574 auto magnitude (AB) |
| 306 | IB574_MAGERR_AUTO | IB574 auto mag error (AB) |
| 307 | IB574_MAG_ISO | Isophotal magnitude |
| 308 | IB574_MAGERR_ISO | rms uncertainty on magIB574 |
| 309 | IB574_FLAGS | Internal Flag |
| 310 | IB574_IMAFLAGS_ISO | External Flag |
| 311 | IB709_FLUX_APER2 | IB709 fixed aperture flux (2",AB) [detection image] |
| 312 | IB709_FLUXERR_APER2 | IB709 fixed aperture flux error (2",AB) [detection image] |
| 313 | IB709_FLUX_APER3 | IB709 fixed aperture flux (3",AB) [detection image] |
| 314 | IB709_FLUXERR_APER3 | IB709 fixed aperture flux error (3",AB) [detection image] |
| 315 | IB709_MAG_APER2 | IB709 fixed aperture magnitude (2",AB) |
| 316 | IB709_MAGERR_APER2 | IB709 fixed aperture mag error (2",AB) |
| 317 | IB709_MAG_APER3 | IB709 fixed aperture magnitude (3",AB) |
| 318 | IB709_MAGERR_APER3 | IB709 fixed aperture mag error (3",AB) |
| 319 | IB709_MAG_AUTO | IB709 auto magnitude (AB) |
| 320 | IB709_MAGERR_AUTO | IB709 auto mag error (AB) |
| 321 | IB709_MAG_ISO | Isophotal magnitude |
| 322 | IB709_MAGERR_ISO | rms uncertainty on magIB709 |
| 323 | IB709_FLAGS | Internal Flag |
| 324 | IB709_IMAFLAGS_ISO | External Flag |
| 325 | IB827_FLUX_APER2 | IB827 fixed aperture flux (2",AB) [detection image] |
| 326 | IB827_FLUXERR_APER2 | IB827 fixed aperture flux error (2",AB) [detection image] |
| 327 | IB827_FLUX_APER3 | IB827 fixed aperture flux (3",AB) [detection image] |
| 328 | IB827_FLUXERR_APER3 | IB827 fixed aperture flux error (3",AB) [detection image] |
| 329 | IB827_MAG_APER2 | IB827 fixed aperture magnitude (2",AB) |
| 330 | IB827_MAGERR_APER2 | IB827 fixed aperture mag error (2",AB) |
| 331 | IB827_MAG_APER3 | IB827 fixed aperture magnitude (3",AB) |

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| 332 | IB827_MAGERR_APER3 | IB827 fixed aperture mag error (3",AB) |
| 333 | IB827_MAG_AUTO | IB827 auto magnitude (AB) |
| 334 | IB827_MAGERR_AUTO | IB827 auto mag error (AB) |
| 335 | IB827_MAG_ISO | Isophotal magnitude |
| 336 | IB827_MAGERR_ISO | rms uncertainty on magIB827 |
| 337 | IB827_FLAGS | Internal Flag |
| 338 | IB827_IMAFLAGS_ISO | External Flag |
| 339 | NB711_FLUX_APER2 | NB711 fixed aperture flux (2",AB) [detection image] |
| 340 | NB711_FLUXERR_APER2 | NB711 fixed aperture flux error (2",AB) [detection image] |
| 341 | NB711_FLUX_APER3 | NB711 fixed aperture flux (3",AB) [detection image] |
| 342 | NB711_FLUXERR_APER3 | NB711 fixed aperture flux error (3",AB) [detection image] |
| 343 | NB711_MAG_APER2 | NB711 fixed aperture magnitude (2",AB) |
| 344 | NB711_MAGERR_APER2 | NB711 fixed aperture mag error (2",AB) |
| 345 | NB711_MAG_APER3 | NB711 fixed aperture magnitude (3",AB) |
| 346 | NB711_MAGERR_APER3 | NB711 fixed aperture mag error (3",AB) |
| 347 | NB711_MAG_AUTO | NB711 auto magnitude (AB) |
| 348 | NB711_MAGERR_AUTO | NB711 auto mag error (AB) |
| 349 | NB711_MAG_ISO | Isophotal magnitude |
| 350 | NB711_MAGERR_ISO | rms uncertainty on magNB711 |
| 351 | NB711_FLAGS | Internal Flag |
| 352 | NB711_IMAFLAGS_ISO | External Flag |
| 353 | NB816_FLUX_APER2 | NB816 fixed aperture flux (2",AB) [detection image] |
| 354 | NB816_FLUXERR_APER2 | NB816 fixed aperture flux error (2",AB) [detection image] |
| 355 | NB816_FLUX_APER3 | NB816 fixed aperture flux (3",AB) [detection image] |
| 356 | NB816_FLUXERR_APER3 | NB816 fixed aperture flux error (3",AB) [detection image] |
| 357 | NB816_MAG_APER2 | NB816 fixed aperture magnitude (2",AB) |
| 358 | NB816_MAGERR_APER2 | NB816 fixed aperture mag error (2",AB) |
| 359 | NB816_MAG_APER3 | NB816 fixed aperture magnitude (3",AB) |
| 360 | NB816_MAGERR_APER3 | NB816 fixed aperture mag error (3",AB) |
| 361 | NB816_MAG_AUTO | NB816 auto magnitude (AB) |
| 362 | NB816_MAGERR_AUTO | NB816 auto mag error (AB) |
| 363 | NB816_MAG_ISO | Isophotal magnitude |
| 364 | NB816_MAGERR_ISO | rms uncertainty on magNB816 |
| 365 | NB816_FLAGS | Internal Flag |
| 366 | NB816_IMAFLAGS_ISO | External Flag |
| 367 | SPLASH_1_FLUX | SPLASH_1 flux in a 3" aperture |
| 368 | SPLASH_1_FLUX_ERR | SPLASH_1 flux error in a 3" aperture |
| 369 | SPLASH_1_MAG | SPLASH_1 magnitude in a 3" aperture |
| 370 | SPLASH_1_MAGERR | SPLASH_1 magnitude error in a 3" aperture |
| 371 | SPLASH_2_FLUX | SPLASH_2 flux in a 3" aperture |
| 372 | SPLASH_2_FLUX_ERR | SPLASH_2 flux error in a 3" aperture |
| 373 | SPLASH_2_MAG | SPLASH_2 magnitude in a 3" aperture |
| 374 | SPLASH_2_MAGERR | SPLASH_2 magnitude error in a 3" aperture |
| 375 | SPLASH_3_FLUX | SPLASH_3 flux in a 3" aperture |
| 376 | SPLASH_3_FLUX_ERR | SPLASH_3 flux error in a 3" aperture |
| 377 | SPLASH_3_MAG | SPLASH_3 magnitude in a 3" aperture |

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| 378 | SPLASH_3_MAGERR | SPLASH_3 magnitude error in a 3" aperture |
| 379 | SPLASH_4_FLUX | SPLASH_4 flux in a 3" aperture |
| 380 | SPLASH_4_FLUX_ERR | SPLASH_4 flux error in a 3" aperture |
| 381 | SPLASH_4_MAG | SPLASH_4 magnitude in a 3" aperture |
| 382 | SPLASH_4_MAGERR | SPLASH_3 magnitude error in a 3" aperture |
| 383 | Hw_FLUX_APER2 | Hw fixed aperture flux (2",AB) [detection image] |
| 384 | Hw_FLUXERR_APER2 | Hw fixed aperture flux error (2",AB) [detection image] |
| 385 | Hw_FLUX_APER3 | Hw fixed aperture flux (3",AB) [detection image] |
| 386 | Hw_FLUXERR_APER3 | Hw fixed aperture flux error (3",AB) [detection image] |
| 387 | Hw_MAG_APER2 | Hw fixed aperture magnitude (2",AB) |
| 388 | Hw_MAGERR_APER2 | Hw fixed aperture mag error (2",AB) |
| 389 | Hw_MAG_APER3 | Hw fixed aperture magnitude (3",AB) |
| 390 | Hw_MAGERR_APER3 | Hw fixed aperture mag error (3",AB) |
| 391 | Hw_MAG_AUTO | Hw auto magnitude (AB) |
| 392 | Hw_MAGERR_AUTO | Hw auto mag error (AB) |
| 393 | Hw_MAG_ISO | Isophotal magnitude |
| 394 | Hw_MAGERR_ISO | rms uncertainty on magHw |
| 395 | Hw_FLAGS | Internal Flag |
| 396 | Hw_IMAFLAGS_ISO | External Flag |
| 397 | Ksw_FLUX_APER2 | Ksw fixed aperture flux (2",AB) [detection image] |
| 398 | Ksw_FLUXERR_APER2 | Ksw fixed aperture flux error (2",AB) [detection image] |
| 399 | Ksw_FLUX_APER3 | Ksw fixed aperture flux (3",AB) [detection image] |
| 400 | Ksw_FLUXERR_APER3 | Ksw fixed aperture flux error (3",AB) [detection image] |
| 401 | Ksw_MAG_APER2 | Ksw fixed aperture magnitude (2",AB) |
| 402 | Ksw_MAGERR_APER2 | Ksw fixed aperture mag error (2",AB) |
| 403 | Ksw_MAG_APER3 | Ksw fixed aperture magnitude (3",AB) |
| 404 | Ksw_MAGERR_APER3 | Ksw fixed aperture mag error (3",AB) |
| 405 | Ksw_MAG_AUTO | Ksw auto magnitude (AB) |
| 406 | Ksw_MAGERR_AUTO | Ksw auto mag error (AB) |
| 407 | Ksw_MAG_ISO | Isophotal magnitude |
| 408 | Ksw_MAGERR_ISO | rms uncertainty on magKsw |
| 409 | Ksw_FLAGS | Internal Flag |
| 410 | Ksw_IMAFLAGS_ISO | External Flag |
| 411 | yHSC_FLUX_APER2 | yHSC fixed aperture flux (2",AB) [detection image] |
| 412 | yHSC_FLUXERR_APER2 | yHSC fixed aperture flux error (2",AB) [detection image] |
| 413 | yHSC_FLUX_APER3 | yHSC fixed aperture flux (3",AB) [detection image] |
| 414 | yHSC_FLUXERR_APER3 | yHSC fixed aperture flux error (3",AB) [detection image] |
| 415 | yHSC_MAG_APER2 | yHSC fixed aperture magnitude (2",AB) |
| 416 | yHSC_MAGERR_APER2 | yHSC fixed aperture mag error (2",AB) |
| 417 | yHSC_MAG_APER3 | yHSC fixed aperture magnitude (3",AB) |
| 418 | yHSC_MAGERR_APER3 | yHSC fixed aperture mag error (3",AB) |
| 419 | yHSC_MAG_AUTO | yHSC auto magnitude (AB) |
| 420 | yHSC_MAGERR_AUTO | yHSC auto mag error (AB) |
| 421 | yHSC_MAG_ISO | Isophotal magnitude |
| 422 | yHSC_MAGERR_ISO | rms uncertainty on magyHSC |
| 423 | yHSC_FLAGS | Internal Flag |

| | | |
|-----|-------------------|---|
| 424 | yHSC_IMAFLAGS_ISO | External Flag |
| 425 | FLUX_24 | MIPS 24 mum flux |
| 426 | FLUXERR_24 | MIPS 24 mum mJy flux uncertainty |
| 427 | MAG_24 | m(24) the apparent isophotal magnitude |
| 428 | MAGERR_24 | Error in mag-24 |
| 429 | ID_A24 | ID in the 24um catalog |
| 430 | FLUX_100 | PACS/PEP 100 mum flux |
| 431 | FLUXERR_100 | PACS/PEP 100 mum mJy flux uncertainty |
| 432 | FLUX_160 | PACS/PEP 160 mum flux |
| 433 | FLUXERR_160 | PACS/PEP 160 mum mJy flux uncertainty |
| 434 | FLUX_250 | SPIRE/HERMES 250 mum flux |
| 435 | FLUXERR_250 | SPIRE/HERMES 250 mum mJy flux uncertainty (instrumental noise) |
| 436 | FLUXERRTOT_250 | SPIRE/HERMES 250 mum mJy flux uncertainty (total (inst+conf) noise) |
| 437 | FLUX_350 | SPIRE/HERMES 350 mum flux |
| 438 | FLUXERR_350 | SPIRE/HERMES 250 mum mJy flux uncertainty (instrumental noise) |
| 439 | FLUXERRTOT_350 | SPIRE/HERMES 250 mum mJy flux uncertainty (total (inst+conf) noise) |
| 440 | FLUX_500 | SPIRE/HERMES 500 mum flux |
| 441 | FLUXERR_500 | SPIRE/HERMES 500 mum mJy flux uncertainty (instrumental noise) |
| 442 | FLUXERRTOT_500 | SPIRE/HERMES 500 mum mJy flux uncertainty (total (inst+conf) noise) |
| 443 | ID_CHANDRA2016 | Observation ID in Chandra COSMOS catalog |
| 444 | ID2006 | Observation ID in the 1st version of the catalog from Capak |
| 445 | ID2008 | Observation ID in the 2ndversion of the catalog from Capak |
| 446 | ID2013 | Observation ID (catalog from Ilbert et al. 2013) |
| 447 | MAG_GALEX_NUV | GALEX magnitude NUV |
| 448 | MAGERR_GALEX_NUV | GALEX magnitude error NUV |
| 449 | MAG_GALEX_FUV | GALEX FUV magnitude |
| 450 | MAGERR_GALEX_FUV | GALEX FUV magnitude error |
| 451 | FLUX_GALEX_NUV | GALEX NUV calibrated flux |
| 452 | FLUXERR_GALEX_NUV | GALEX NUV flux error |
| 453 | FLUX_GALEX_FUV | GALEX FUV flux |
| 454 | FLUXERR_GALEX_FUV | GALEX FUV flux error |
| 455 | FLUX_814W | flux F814W |
| 456 | FLUXERR_814W | flux error F814W |
| 457 | NAME_VLA90CM | name of the sources in VLA 90cm catalog |
| 458 | FLUXPEAK_90CM | peak flux of the radio source |
| 459 | FLUXPEAKERR_90CM | rms uncertainty in the peak flux of the radio source |
| 460 | FLUXINT_90CM | total integrated flux of the radio source |
| 461 | FLUXINTERR_90CM | rms uncertainty total integrated flux of the radio source |
| 462 | RMSBKG_90CM | measured local rms noise at the source position |
| 463 | NAME_JVLDEEP | name of the sources in JVL Deep catalog |
| 464 | NAME_JVLLARGE | name of the sources in JVL Large catalog |
| 465 | FLUXPEAK_20CM | peak flux of the radio source |
| 466 | FLUXPEAKERR_20CM | rms uncertainty in the peak flux of the radio source |
| 467 | FLUXINT_20CM | total integrated flux of the radio source |
| 468 | FLUXINTERR_20CM | rms uncertainty total integrated flux of the radio source |
| 469 | RMSBKG_20CM | measured local rms noise at the source position |

| | | |
|-----|---------------------|--|
| 470 | ID_XMM | Observation ID XMM-Newton |
| 471 | FLUX_XMM_05_2 | 0.5-2 keV band flux from XMM/Newton |
| 472 | FLUX_XMM_2_10 | 2-10 keV band flux from XMM/Newton |
| 473 | FLUX_XMM_5_10 | 5-10 keV band flux from XMM/Newton |
| 474 | HARDNESS_XMM | hardness ratio |
| 475 | ID_CHANDRA09 | Observation ID Chandra COSMOS catalog |
| 476 | FLUX_CHANDRA_05_2 | 0.5-2 keV band flux from Chandra COSMOS catalog |
| 477 | FLUX_CHANDRA_2_10 | 2-10 keV band flux from Chandra COSMOS catalog |
| 478 | FLUX_CHANDRA_05_10 | 0.5-10 keV band flux from Chandra COSMOS catalog |
| 479 | ID_NUSTAR | Observation ID Nustar |
| 480 | FLUX_NUSTAR_3_24 | 3-24 keV band flux from Nustar catalog |
| 481 | FLUXERR_NUSTAR_3_24 | 3-24 keV band flux error from Nustar catalog |
| 482 | FLUX_NUSTAR_3_8 | 3-8 keV band flux from Nustar catalog |
| 483 | FLUXERR_NUSTAR_3_8 | 3-8 keV band flux error from Nustar catalog |
| 484 | FLUX_NUSTAR_8_24 | 8-24 keV band flux from Nustar catalog |
| 485 | FLUXERR_NUSTAR_8_24 | 8-24 keV band flux error from Nustar catalog |
| 486 | HARDNESS_NUSTAR | hardness ratio |
| 487 | HARDNESSLOW_NUSTAR | hardness ratio lower bound |
| 488 | HARDNESSUP_NUSTAR | hardness ratio upper bound |
| 489 | FLAG_XRAYBLEND | flag for blended sources |
| 490 | OFFSET_MAG | offset applied to the aperture magnitudes to obtain total quantities |
| 491 | PHOTOZ | median of the likelihood distribution |
| 492 | TYPE | Type |
| 493 | ZPDF | photo-z measured using the galaxy templates |
| 494 | ZPDF_L68 | lower limit, 68% confidence level |
| 495 | ZPDF_H68 | upper limit, 68% confidence level |
| 496 | ZMINCHI2 | photo-z measured using the galaxy templates |
| 497 | CHI2_BEST | reduced chi2 [-99 if less than 3 filters] for zMinChi2 |
| 498 | ZP_2 | second photo-z solution |
| 499 | CHI2_2 | reduced chi2 for the second photo-z solution |
| 500 | NBFILT | Number of filters used in the fit |
| 501 | ZQ | photoz for the AGN library |
| 502 | CHIQ | reduced chi2 |
| 503 | MODQ | best fit template |
| 504 | MODS | model for the star library |
| 505 | CHIS | reduced chi2 |
| 506 | MODEL | BC03 model at zPDF |
| 507 | AGE | BC03 age |
| 508 | EXTINCTION | Extinction |
| 509 | M_NUV | Absolute magnitude of NUV galex |
| 510 | M_U | Absolute magnitude of Subaru u* band |
| 511 | M_B | Absolute magnitude of Subaru B band |
| 512 | M_V | Absolute magnitude of Subaru V band |
| 513 | M_R | Absolute magnitude of Subaru r+ band |
| 514 | M_I | Absolute magnitude of Subaru i+ band |
| 515 | M_Z | Absolute magnitude of Subaru z-band (new filter) |

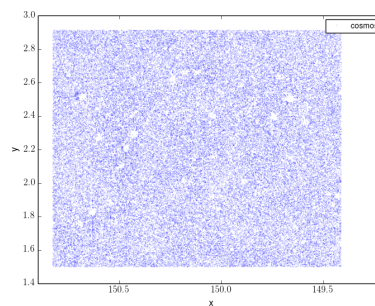
| | | |
|-----|----------------|---|
| 516 | M_Y | Absolute magnitude of VISTA Y-band |
| 517 | M_J | Absolute magnitude of VISTA J-band |
| 518 | M_H | Absolute magnitude of VISTA H-band |
| 519 | M_K | Absolute magnitude of VISTA Ks-band |
| 520 | MNUV_MR | Dust corrected M(NUV)-M(R) color at zPDF |
| 521 | CLASS | 0:quiescent/1:star-forming based on the NUV-R/R-J |
| 522 | MASS_MED | log Stellar mass from BC03 best-fit template. median of the PDF |
| 523 | MASS_MED_MIN68 | lower limit, 68% confidence level |
| 524 | MASS_MED_MAX68 | upper limit, 68% confidence level |
| 525 | MASS_BEST | log Stellar mass from BC03 best-fit template |
| 526 | SFR_MED | log SFR from BC03 best-fit template. median of the PDF |
| 527 | SFR_MED_MIN68 | lower limit, 68% confidence level |
| 528 | SFR_MED_MAX68 | upper limit, 68% confidence level |
| 529 | SFR_BEST | log SFR from BC03 best-fit template. Taken at the minimum chi2 |
| 530 | SSFR_MED | log sSFR from BC03 best-fit template. median of the PDF |
| 531 | SSFR_MED_MIN68 | lower limit, 68% confidence level |
| 532 | SSFR_MED_MAX68 | upper limit, 68% confidence level |
| 533 | SSFR_BEST | log sSFR from BC03 best-fit template. Taken at the minimum chi2 |
| 534 | L_NU | log(dust corr lum in erg/s/Hz) in NUV filter |
| 535 | L_R | log(dust corr lum in erg/s/Hz) in r filter |
| 536 | L_K | log(dust corr lum in erg/s/Hz) in K filter |

4 Appendix: flags and regions

This Appendix explains graphically each of the different regions present in catalogue file and how they may be selected. The region files (represented as DS9 polygon files) are available here: ftp://ftp.iap.fr/pub/from_users/hjmcc/COSMOS2015/region-files.tar.gz.

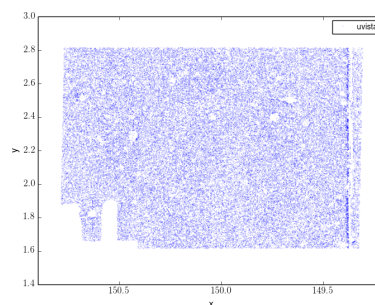
=====COSMOS=====

Area **2deg2**
Description tangent pt= [150.1163213,2.20973097]
Nbr of objects **773118**
File_Name **cosmos_cen.reg**
Keyword **FLAG_COSMOS==1**



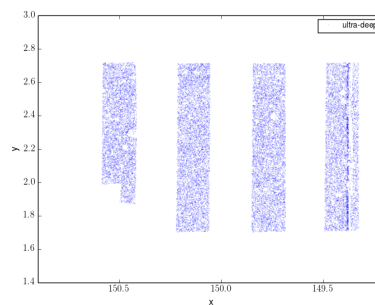
=====UVISTA=====

Area **1.70deg2**
Description The area covered by UVISTA
Nbr of objects **646939**
File_Name **polygon_UVISTA-dr2_Ks_08_15.reg**
Keyword **FLAG_HJMCC==0+FLAG_HJMCC==2**



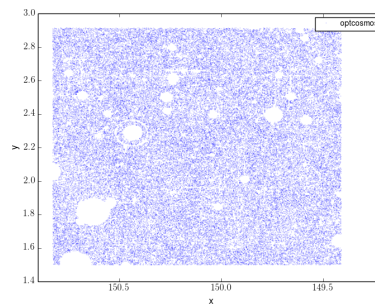
=====UDEEP=====

Area **0.62 deg2**
Description The area covered by UDeep stripes
Nbr of objects **247203**
File_Name **Deep-stripes.reg**
Keyword **FLAG_DEEP==1**



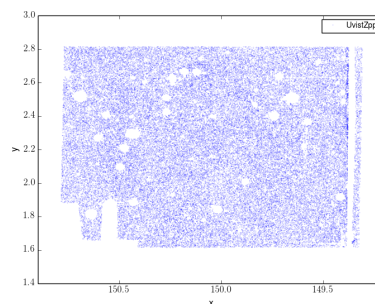
===== !OPT & COSMOS =====

Area **1.77 deg2**
Description Safe objects inside the 2deg2 COSMOS
 square
Nbr of objects **694478**
File_Name **cosmos_cen.reg & COSMOS.Peter2.reg**
Keyword **FLAG_PETER==0+FLAG_COSMOS==1**



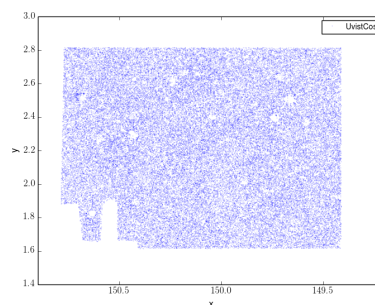
=====UVISTA & zpp=====

Area 1.59 deg2
 Description Good area in the chi2 images
 Nbr of objects **606887**
 File_Name **Polygon_UVISTA-dr2_Ks_08_15.reg**
 Keyword **FLAG_HJMCC==0**



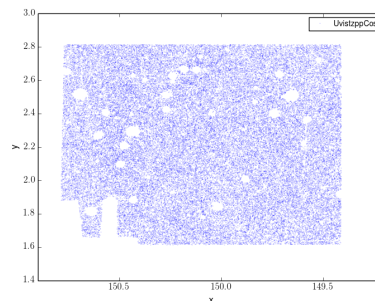
=====UVISTA & COSMOS=====

Area 1.58 deg2
 Description Intersection Uvista and 2deg2 COSMOS
 Nbr of objects **604265**
 File_Name **cosmos_cen.reg & Polygon_UVISTA-dr2_Ks_08_15.reg**
 Keyword **(FLAG_HJMCC==0 + FLAG_HJMCC==2) & FLAG_COSMOS==1**



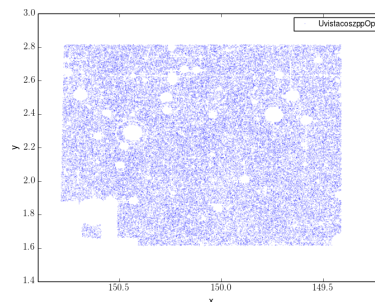
=====UVISTA & zpp & COSMOS=====

Area 1.51 deg2
 Description Intersection Good area in the chi2 image and 2deg2 COSMOS
 Nbr of objects **576762**
 File_Name **cosmos_cen.reg & Polygon_UVISTA-dr2_Ks_08_15.reg**
 Keyword **FLAG_HJMCC==0 & FLAG_COSMOS==1**



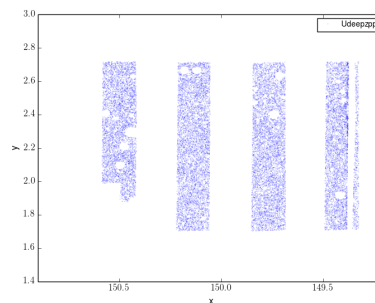
=====UVISTA & zpp & COSMOS & !OPT=====

Area 1.38 deg2
 Description Intersection Good area in the chi2 image and 2deg2 COSMOS and not masked in optical
 Nbr of objects **536077**
 File_Name **cosmos_cen.reg & Polygon_UVISTA-dr2_Ks_08_15.reg & Cosmos.Peter2.reg**
 Keyword **FLAG_HJMCC==0 & FLAG_COSMOS==1 & FLAG_PETER==0**



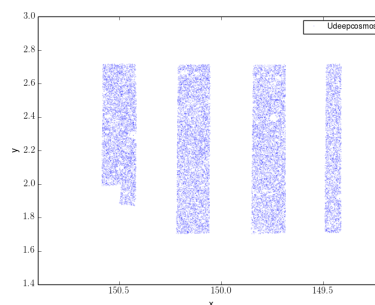
=====UDEEP & zpp =====

Area 0.56 deg2
 Description Intersection Good area in the chi2 image
 and 2deg2 COSMOS
 Nbr of objects 227278
 File_Name **Deep-stripes.reg & Polygon_UVISTA-
 dr2_Ks_08_15.reg**
 Keyword **FLAG_HJMCC==0 &FLAG_Deep==1**



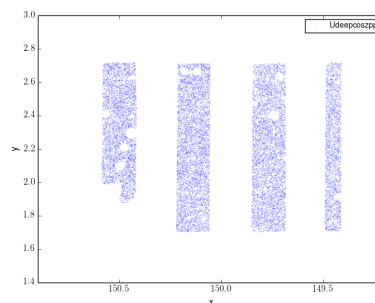
=====UDEEP & COSMOS=====

Area 0.53 deg2
 Description Intersection Deep stripes and 2deg2
 COSMOS
 Nbr of objects 213716
 File_Name **Deep-stripes.reg & cosmos_cen.reg**
 Keyword **FLAG_Cosmos==1 &FLAG_Deep==1**



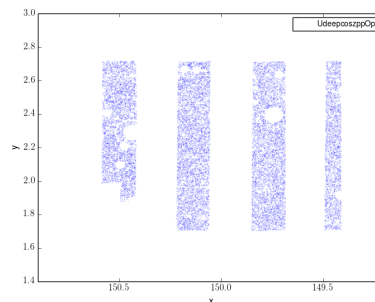
=====UDEEP & COSMOS & zpp =====

Area 0.51 deg2
 Description Intersection Deep stripes and 2deg2
 COSMOS and good area in chi2
 Nbr of objects 204275
 File_Name **Deep-stripes.reg & cosmos_cen.reg &
 polygon_UVISTA-dr2_Ks_08_15.reg**
 Keyword **FLAG_Cosmos==1 &FLAG_Deep==1 &
 FLAG_HJMCC==0**



=====UDEEP & COSMOS & zpp & !Opt=====

Area 0.46 deg2
 Description Intersection Deep stripes and 2deg2
 COSMOS and good area in chi2 and non
 masked in optics
 Nbr of objects 190650
 File_Name **Deep-stripes.reg & cosmos_cen.reg &
 polygon_UVISTA-dr2_Ks_08_15.reg &
 Cosmos.Peter2.reg**
 Keyword **FLAG_Cosmos==1 &FLAG_Deep==1 &
 FLAG_HJMCC==0 & FLAG_PETER==0**



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A full list of references for the data sources used in this catalogue can be found in Laigle et al. (2016).

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