

Access ZTF data during SV phase

- Access to commissioning data (engineering and SV) upon request:

“All requests for data access should be sent to [ztf.communication.coordinators@gmail.com](mailto:ztf.communication coordinators@gmail.com) with a specification of:

- which science validation experiment you are connected with or
- why you need data access if you are not connected to one.”

- Data (images, catalogs, logs) is kept at IRSA:

<https://irsa.ipac.caltech.edu/Missions/ztf.html>

- The Mother of all Links

http://noir.caltech.edu/twiki_ptf/bin/view/ZTF/ZTFcommissioningaccess

Naming scheme

- Path to file name for science files is constructed following:

- https://irsa.ipac.caltech.edu/ibe/data/ztf/products/sci/ +	
year/ +	e.g.: → 2017
month+day/ +	→ 10+23=1023
fracday/ +	→ 296551
ztf_filefracday +	→ 2017+10+23+296551=20171021296551
_paddedfield +	→ 000600
_filtercode +	→ 'zr', 'zg' ('zi')
_cpaddedccdid	→ 08, [01-16]
_imgtypecode +	→ ['o': on-sky, 'b': bias, 'd': dark, 'f': flat, ecc.]
_qqid +	→ 1, [1-4]
_type	→ sciimg.fits, mskimg.fits, log.txt, sexcat.fits, ecc.

https://irsa.ipac.caltech.edu/ibe/data/ztf/products/sci/2017/1023/296551/ztf_20171023296551_000600_zr_c08_o_q1_sciimg.fits

Metadata:

column_name	description	unit	ucd	utype	datatype	principal	indexed
infobits	Info bit flags				int	0	0
field	ZTF field number				int	0	1
ccd_id	CCD number (1..16)				int	0	0
qid	Quadrant ID (1..4)				int	0	0
rcid	Readout-channel ID (0..63)				int	0	0
fid	Filter ID				int	0	0
filtercode	Filter code (abbreviated name)				char	0	0
pid	Science product ID				long	0	1
nid	Day/night ID				int	0	1
expid	Exposure ID				int	0	1
itid	Image type ID				int	0	0
imgtype	Image type name				char	0	0
imgtypecode	Single letter image type code				char	0	0
filefracday	Integer (YYYYMMDDdddddd) used in product file names				long	0	0
obsdate	Observation UT date/time				char	0	1
obsjd	Observation Julian day	d			double	0	1
seeing	Seeing FWHM	arcsec			double	0	0
airmass	Telescope airmass				double	0	0
moonillf	Moon illuminated fraction				double	0	0

- For more :

https://irsa.ipac.caltech.edu/docs/program_interface/ztf_metadata.html

QueryIRSA.py

“use Metadata to find them

...

and in Darkness bind them”

- Synchronize a local metadata table with what's on IRSA
 - Can tell you what was observed when
- Query metadata table to select the files you want, e.g:
 - e.g: science exposures and PSF catalogs of fields x, y, and z, taken for my birthday in the g-band, and at airmass below 1.2
- Download the files using thread pool.
- Free trial version:
<https://github.com/ZwickyTransientFacility/ScienceValidation/blob/master/software/queryIRSA.py>