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Newsletter #7, 1st of December 2017
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Last news from the front (Engineering status):
- Warming up and baking for a few days was successful. Contamination has disappeared for the moment
- Linearity optimization is completed. 1% residual non-linearity still there. The science team has to decide if linearity correction is needed. Please contact Matthew Graham for thoughts.
- Flexure problem still under investigation. Some images have very good image quality, some images (mostly towards the south east) have bad image quality (up to 10 arcsec FWHM).
- IPAC started reference building this week!

Help us analyse the engineering data!
- Help is needed to analyse the calibration data:
  - People who are interested in giving help should subscribe to the qa list through this link:
  - A weekly telecon is every week, wednesday 11 am PT.

News from working groups
- **Physics of Supernovae and Relativistic Explosions:** "The SN group is busy working on SEDM white papers, and eagerly anticipating the first supernova detections from ZTF! We encourage anyone interested in our working group to join the mailing list and weekly telecons, and to write a few sentences about themselves in the "Introduce Yourself" section of our twiki. We would also like to draw your attention to two job advertisements at Stockholm University, for a new PhD student and postdoc, respectively. Please share with anyone who might be interested - closing date for both positions is January 15, 2018."

http://www.su.se/english/about/working-at-su/jobs?rmlang=UK&rmpage=job&rmjob=4355
http://www.su.se/english/about/working-at-su/jobs?rmlang=UK&rmpage=job&rmjob=4296

- **AGN and TDEs:** "ZTFbh had their first telecon on November 29th. Our next telecon will be Wednesday, December 13th at 2:30pm Eastern. Until then, we will be working on ourSEDm white papers, and looking at the Stripe 82 Science Validation data. We are also making plans for filtering of the transients alert stream using catalog matches and feature tags for various nuclear transient experiments. If you are interested in AGN and TDE science with ZTF don't forget to sign up to our email list, and "introduce yourself" on our Twiki page".

- **Cosmology with SNe and Gravitational Lensing:** We have begun to organize the working group's effort into smaller tasks (candidate selection, triggering follow-up etc.), each of which will be led by another group member. On December 12th and 13th, a meeting regarding the AMPEL broker will be held at DESY. Statistics from recent lightcurve simulations for SNe (Ia and CC) are available on the Twiki and may be of interest to anyone working on an SEDm white paper: http://noir.caltech.edu/twiki_ptf/bin/view/ZTF/CosmoLCSim (ASCII tables are at the bottom of the page). The next SWG telecon is on Thursday December 7th at 16:30 CET.

- **EM/GW and Neutrino Counterparts:** "ZTF followed up on an interesting high-energy neutrino alert from IceCube (the first PeV neutrino track event that was released in real time). https://gcn.gsfc.nasa.gov/gcn3/22105.gcn3 Several epochs were taken and pre-processed by Matteo at DESY. Image subtraction was performed by Christoffer at Caltech. Here are some results: http://www.astro.caltech.edu/~cfremling/neutrino/ No interesting transient was found. We

had an interesting discussion led by Leo on the follow-up of short GRBs detected by GBM with ZTF. One trigger per month would be suitable for follow-up with ZTF.
- **Solar system bodies:** the group Is observing several near-Earth asteroids as part of the commissioning test and has been awarded LCOGT time in monitoring comet C/2016 R2 (Pan-STARRS)

Data Access Procedure (Reminder):

If you have been using the old archive (not the IRSA one for which access is described below), be aware that it will stop working on **January, the 2nd.**

The following procedure is for the new archive, including all the commissioning data (i.e. including engineering and science validation):

1. All requests for data access should be sent to ztf.communication.coordinators@gmail.com with a specification of:
   a. which science validation experiment you are connected with or
   b. why you need data access if you are not connected to one.
2. If you are in charge of a science validation experiment, you have to write a queue file (see detailed procedure in the newsletter #3, contact ztf.communication.coordinators@gmail.com for any question)
3. In order to get access, you will need to register at the IRSA website. http://irsa.ipac.caltech.edu/account/uman/#id=register&josso_back_to=http://irsa.ipac.caltech.edu/account/signon/login.do . Note that access can only be granted to registered users.

The new system for accessing the data will become active on Friday, November the 17th.
More information will soon be updated on
http://www.oir.caltech.edu/twiki_ptf/bin/view/ZTF/ZTFcommissioningaccess

Science Validation (Reminder):

To date, we have queue files for only 4 science validation experiments in the GitHub repo. If you want data for science validation, you need to provide the queue file(s) for your observations. Below is a reminder of the procedure to follow:

- Select the precise ZTF fields to observe: the second tool at http://yupana.caltech.edu/cgi-bin/ptf/tb/zoc?begin will give you the list of field IDs that cover a particular region on the sky.
- Create a queue file for the observations you want: the last tool at http://yupana.caltech.edu/cgi-bin/ptf/tb/zoc?begin will do this. Please use the following values:
  - Program ID = 0 (science validation is test)
  - Science program PI: The name of the person in charge of this experiment
  - Comment string: Any additional info you want to provide
- Upload the queue file for your experiment to the subdirectory for your experiment in the ScienceValidation GitHub repository: https://github.com/ZwickyTransientFacility/ScienceValidation/experiements/<SCV#>

<SCV#> is the id of your experiment in the ScienceValidation description document: https://github.com/ZwickyTransientFacility/ScienceValidation/blob/master/ZTF%20Capability%20Validation.docx

Your experiment will be ran only if we have your queue file!

For questions, please contact Matthew (mjg@caltech.edu) or Thomas (tkupfer@caltech.edu)

Reminders:

- The ZTF Twitter account is now active! https://twitter.com/ztfsurvey Re-tweet @ztfsurvey!
- To use the url shortener (e.g. during telecons, talks, in emails), navigate to http://zwicky.tf/shorten (username: ztf password:16chips) and type in the URL you want shortened.
- The Wiki page is active! Check it out at http://zwicky.tf/wiki.
- To request access to the wiki page: please email us at ZTF.communication.coordinators@gmail.com

"Patience is bitter, but its fruit is sweet" (Aristotle)

Have a great and productive week!
Thomas and Maayane