

Newsletter #20, March 9th 2018
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Last news from the front (Engineering and Data Quality status):

Filter exchanger is making good progress
Starflat analysis ongoing
Flatfield illumination analysis ongoing

Switch to operations cadence:

Sometime next week we plan to start with operations cadence in single filter mode. This will also start the tagging with Caltech, partnership and MSIP data. With the start of the operations cadence, we will also start to use science working group Tags for SEDM and keep track of the use of SEDM by different working groups.

NOAO 2018B solicitation:

NOAO plans to offer limited filtering of ZTF alerts through the ANTARES event broker system (<https://www.noao.edu/ANTARES/documents.php>) in a shared-risk/science-verification mode of operation. For 2018B, ANTARES capabilities are likely to be limited to positional and/or catalog-based filters with associated delta-magnitude thresholds. Proposers interested in employing these ANTARES capabilities within their programs during 2018B are encouraged to contact Dr. Tom Matheson (matheson@noao.edu) in advance of the proposal deadline. Support for ANTARES science verification programs will be subject to availability of resources; depending on demand during this initial call, it is possible that only a subset of programs will be chosen for use with ANTARES.

<http://ast.noao.edu/observing/call-for-proposals-2018b>

News from working groups

Machine Learning group and zooniverse: "Currently, as part of the zooniverse framework, we are running a campaign that has i-band images. We would like help in marking the bogus events. The reference images are not deep, but those will be improved upon when we get more i-band images.

If any of the ZTF group has students/postdocs who would like to be more directly involved with the backend ML efforts, please get in touch with aam@astro.caltech.edu"

Physics of Supernovae and Relativistic Explosions: "The Supernova and Relativistic Explosions group are happily sorting through the alerts flowing from the science validation observing. Of particular interest this week is ZTF18aabybkt and ZTF18aabstmw, a very young Type II and Type Ia SN, respectively, which bodes well for our goal of finding infant supernovae. We are also busy working on telescope proposals for the upcoming cycle.

We would also like to remind everyone that the abstract deadline for the Stockholm supernova conference is next week (March 15). Please see

<https://www.astro.su.se/english/research/conferences/shocking-supernovae-surrounding-interactions-and-unusual-events-1.360793>."

Cosmology: "The Cosmology and AMPEL teams have been working on incorporating the general template fitting tool snocosmo, and creating simulated supernova lightcurves shaped like ZTF alerts for testing. Our goal is for this functionality to be ready for the collaboration meeting."

BH&AGNs: "The ZTFbh SWG has a working GROWTH Marshal filter for Nuclear Transients and a working prototype AMPEL filter that we are testing. We are scanning our transients that pass our filter in the GROWTH Marshal, and will be sending a "wish list" to the GROWTH Marshal team for some added functionalities. We are looking forward to the team meeting at Caltech!"

Solar system: "As of March 3 2018, ZTF has discovered 244 new asteroids that have proper MPC designation. These include 3 Near-Earth Asteroids. Work has begun on building the solar system marshal."

Stellar: "We continue the analysis of the high cadence commissioning fields and work on the field selection for the high cadence Galactic Plane summer fields."

Reminders:

- Archive GUI now ready! The interactive image search, filtering and visualization tool is now ready (see previous newsletters).
- 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://zwickytf/shorten> (username: ztf password:16chips) and type in the URL you want shortened.
- The Wiki page is active! Check it out at <http://zwickytf/wiki>.
- To request access to the wiki page: please email us at ZTF.communication coordinators@gmail.com

"The real voyage of discovery consists not in seeking new landscapes but in having new eyes." (Marcel Proust)

Have a great and productive week!
Thomas and Maayane