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Newsletter #132 June 17th 2020

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Impact study mega-constellation satellites (Tom Prince):

Dima Duev, Matthew Graham, Przemek Mroz, and Tom Prince have been using ZTF twilight observations to obtain brightness measurements for satellites in mega-constellations (e.g. Starlink and OneWeb). These will help characterize the impact of such satellites on ground-based astronomy. NSF has asked Tom to lead a review team that is studying those impacts. The satellites are brightest during dawn and dusk twilight and consequently the ZTF twilight search observations for asteroids are also very well suited for satellite reflectance characterization.

News from working groups

Machine Learning: “As the ZTF DR3 draws closer, the ML team has been putting together a large number of ontological and phenomenological binary classifiers. These will be released shortly after DR3 along with labeled variables (several classes) over 20 fields spread across the sky. This will be a precursor to a larger catalog encompassing the entire ZTF sky.”

Multimessenger: “IceCube reported two high-energy neutrinos this week. Unfortunately one (IC200614A) was poorly-localised, and the other (IC200615A) was too close to the sun, so we did not follow-up either. We’re hoping for better luck in future!”

The papers corner:

Please keep us updated about your submitted/published papers, they will be advertised here. Please send Joy Painter, the Astronomy Librarian at Caltech, links to papers as soon as they are published. They will be kept track of [here](#).

Reminders:

- PublicAlerts: There is a [link](#) to the alerts archive on the [website](#)!
- Please help us keep track of all the available softwares! A preliminary list is available on the [twiki](#). Let us know if you are building a software which you think could benefit (or be relevant to) a large portion of the collaboration.
- **ZTF general slack channel:** Please join through this [link](#)!

- If you want to get access to the **ZTF data** via the IRSA interface, please request data access to the communication coordinators: ztf.communication.coordinators@gmail.com
- Archive GUI** now ready! The interactive image search, filtering and visualization tool is now ready ().
- 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, please email us at ZTF.communication.coordinators@gmail.com

"The most successful people are those who do all year long what they would otherwise do on their summer vacation" - Mark Twain

Have a good and productive week!

Erik and Igor