

TE

2019

Terrestrial Ecology Science Team Meeting

September 23-25 • College Park, MD

Meeting Highlights and Outcomes

Meeting Highlights

The TE program is healthy!

Continuing to produce cutting edge science focused on better understanding of the Earth system through multiple avenues (IDS, CCS, NIP, FINESST, Etc.)

Supporting large programs that have clear societal benefits (e.g., CMS and ABoVE)

Helping meeting Decadal survey goals and ESD by supporting airborne instruments and the Earth Venture enterprise

The Future Is Bright!

We are swimming in data we could only dream about a few years ago

There are 2 LiDARs in orbit!

We can now measure vegetation structure, composition, and function from one platform

47 years of Landsat data with a plan for sustained investment!

This will continue through the development of new missions (SBG, NISAR, Etc.), field campaigns, and Earth Venture efforts

We need to think creatively about new computing and data processing frameworks to handle these large data volumes

The Models need to catch up to take advantage of all these new datasets

We welcomed a very talented and diverse pool of new students into the program that I hope will continue to participate in the program throughout their careers (i.e., we are growing the program and increasing gender diversity!!!)

NASA Terrestrial Ecology's Raison d'Être :

- Use airborne and space-based remote sensing to advance our understanding of terrestrial ecology.
 - Conduct the fundamental ecological research needed to help NASA develop the next generation of airborne and satellite sensors for advancing terrestrial ecology.
 - Interact with stakeholders and develop applications so that science results can be used to obtain societal benefits.
 - Get ahead of the curve (scientifically).
- 