

GLOBE Mission EARTH Professional Development Institute

Monday – June 11, 2017

TIME	TOPIC	PRESENTER
8:00 - 9:00	Welcome & Introductions Ice Breaker (Pass the GLOBE) Goals & Expectations Teachers complete surveys before they come	Kevin Mikell Lynne Look at posters GLOBE Poster format
9:00 – 10:15	GLOBE Mission EARTH & SATELLITES Big Picture/Essential Question Use Solar Eclipse as an example Introduction of David Bydlowski and Andy Henry Explain why we are all together	Kevin
10:15 - 10:25	Break	Everyone
10:25 – 12:00	Showing the teacher videos Share out Conversation on flying kites Share experiences Go out side and fly a big kite	
12:00 – 12:45	Lunch	Everyone
12:45– 1:45	Debrief from Kite Flying What data can we collect?	
1: 45 – 3:30	Navigating GLOBE website Create User Profile Set up Atmospheric Field Site Google Maps - Enter UT as an example Collect data – Front and back (2:45) GPS on hand GLOBE Observer APP Zoom?	Kevin Sara
3:30-4:15	What Are Geospatial Technologies? What Can They Tell Us about ESS?	Mikell Lynne
4:15-4:45	MISSION EARTH Essential Question What research questions are you able to ask? Include NASA missions/satellites and the research questions they are answering by collecting data Preparing for tomorrow –Android Phone download HoloGLOBE	Kevin
4:45-5:00	Closure-Key Learnings Evaluation	Mikell Lynne

Homework Tonight: do eTraining – air temperature

Theme/ Essential Question: **Earth System Science: How are Global Earth Systems changing over time?**



GLOBE Mission EARTH Professional Development Institute

Tuesday – June 12, 2018

TIME	TOPIC	PRESENTER
8:00 – 9:00	Air Temperature Protocol, SATELLITES, & GLOBE Campaigns Teachers find what campaigns are on GLOBE Collect data	Kevin
9:00 - 10:30	<u>SESSION I: Acquire, Analyze, Apply (A³): Focus “ACQUIRE”</u> - Creating a Geoscience and Remote Sensing Laboratory (GSRL) - EPICS GLOBE Labs (EGL) – IEEE - GLOBE Satellite Collaborations: Current and Future (IceSat2 and LandSat) - HoloGLOBE: AR Geovisualization Tool	John Moore Peter Dorofy
10:30 – 10:40	Break	Everyone
10:40 - 12:30	<u>SESSION II: Acquire, Analyze, Apply (A³): Focus “ACQUIRE”</u> - Overview of the Drone Process – Drone Flying - Gathering Drone Deploy Imagery - Preparing Maps – Previous Maps [break 11:30-11:40]	John Moore Peter Dorofy
12:30-1:15	Lunch	Everyone
1:15-3:20	<u>SESSION III: Acquire, Analyze, Apply (A³): Focus “ANALYZE”</u> <u>“Introduction to Remote Sensing”</u> - Image J - Google Earth [break 2:10-2:20]	John Moore Peter Dorofy
3:20-3:30	Break	Everyone
3:30 – 4:30	<u>SESSION IV: Acquire, Analyze, Apply (A³): Focus “APPLY”</u> <u>“BIG DATA”</u> LandSat Exercise	John Moore Peter Dorofy
4:30-5:00	Tell preview of Wednesday – outside in the morning Closure Key Learnings Evaluation	Mikell Lynne

Tommorrow: Owasua is working with the group putting the data in Excel
Remember to divide the group according to the areas on the project board.

Theme/ Essential Question: Earth System Science: How are Global Earth Systems changing over time?



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Wednesday – June 13, 2018

TIME	TOPIC	PRESENTER
8:00 – 12:00	Welcome More information on AREN Project Fly a big kite again Collect Atmospheric data Kesstral meter.com Yellow 5500 [break 10:00-10:10]	GLOBE team
12:00 - 12:45	Lunch	Everybody
12:45 - 2:00	AREN Student Projects – Crestwood Dr. Johns email	
2:00 - 2:45	AREN Show how to download data Raw data Photos	GLOBE team
2:45-2:55	Break	
2:55-3:45	Parts of a research project-use the poster	Tracy
3:45-4:45	Work on research questions (poster and students) Share out research questions Show where to submit student projects	Teachers
4:45-5:00	Closure Key Learnings Evaluation	Mikell Lynne

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GLOBE Mission EARTH Professional Development Institute

Thursday – June 14, 2018

TIME	TOPIC	PRESENTER
8:00 – 8:30	Overview/Review of Tuesday's Topics: Q&A	Kevin John Peter
8:45-10:00	“Introduction to GIS” • Google Earth • Activity: Point, Lines, and Polygons using zoom • Retrieving data from GLOBE visualization • Search for other sites collecting the same data	Sara Kevin
10:00 - 10:15	Break	Everyone
10:15-12:00	SESSION V: Acquire, Analyze, Apply (A³): Focus “ANALYZE” “Advance Topics in Remote Sensing” • LandSat • Bands • Algorithms [break: 11:00-11:10]	John Peter
12:00-1:00	Lunch and collect data	Everyone
1:00-2:00	SESSION VI: Acquire, Analyze, Apply (A³): Focus “APPLY” “Drone Deploy Imagery” • Export image (KML) to Google Earth	John Pete
2:00-2:10	Break	
2:10 – 3:10	SESSION VII: Acquire, Analyze, Apply (A³): Focus “APPLY” “Geo-Referencing Remote Sensing Imagery”	John Pete
3:10-4:45	Where to submit your poster UT GME SATELLITES STUDENT CONFERENCE – May 1 during the day Work on poster Discussion & Wrap up	All
4:45-5:00	Closure Key Learnings Evaluation	Mikell Lynne

Theme/ Essential Question: Earth System Science: How are Global Earth Systems changing over time?



GLOBE Mission EARTH Professional Development Institute

Friday – June 15, 2018

TIME	TOPIC	PRESENTER
8:00 – 8:30	Welcome Group Photo-Bridge by Library	
8:30-10:00	Final Work on Project	Participants
10:00 – 10:10	Break	Everyone
10:10 – 12:00	Classroom Implementation Doing Science Projects in the classroom Logistics of doing surveys Plan for the school year	Joe, Jim, Debbie, Dianne
12:00-12:45	Lunch	Everyone
12:45 -2:00	Post Workshop Requirements Next Steps continued support	1 person per group Mike
2:00:3:30	Question and Answers Evaluations	Participants
3:30-4:00	Congratulations! Presentation of Certificates	Everyone

Theme/ Essential Question: **Earth System Science: How are Global Earth Systems changing over time?**

