MONDAY - JULY 22, 2019

Time	Topics		
8:30 - 9:30	Introduction to Workshop: Overview of GLOBE		
Peter	● Agenda		
Evangeline	Purpose/History/Goals/Projects		
	 Connection to 3D NGSS Science Practices 		
	 Connection between GLOBE, SRS Projects, and Landmarks 		
	Ice Breaker		
9:45-12:00	Returning GLOBE Teachers' Scaffolding Talk and Favorite GLOBE		
Returning	Lessons		
Teachers	Show samples of student work		
Evangeline	Discuss projects they did with their class		
	 Question and Answer session between Returning Teachers and 		
	New Teachers		
	What is the Needs Assessment?		
12:00-12:30	Lunch (working)		
	Survey 1: Needs Assessment Survey		
12:30-1:15	Project Based Learning in Context: Grade and Time Appropriate		
Peter & Kathleen	The role of questions in PBL		
	 The process of developing research questions 		
GLOBE team &	GLOBE supported development of research questions		
teachers	Handout of timeline and guidelines for SRS		
	Share what has been done at other symposia		
1:15-2:00	Introduction/Review Taking Air Temperature and Surface		
BU Team &	Temperature Measurements		
teachers			
outdoors			
2.00 2.00	Purchast Crassa has CLORE Astistic Interest and Crade Lavel		
2:00-3:00	Breakout Groups by GLOBE-Activity Interest and Grade Level		
	Grades 1-5 with mentoring by Experienced GLOBE teachers, Calab & Kathlaga		
	Caleb, & Kathleen		
	MS with Peter, Bruce, & Melissa US with Trace & Evangeline		
	HS with Tracy & Evangeline		
	Discuss Landmark lessons and GLOBE		
	Create a Driving Question Board (will add to throughout)		
	the week)		
	Just-in-time protocol and activity practice		
3:00-3:30	Complete Reflection Questions for the day (3 Questions)		
Evangeline			

TUESDAY - JULY 23, 2019

Time	Topics		
8:30 - 9:00	SurveyMonkey: Science Teacher Efficacy Belief Instrument		
9:00-10:00	Introduction to Data Entry		
	Download Necessary GLOBE Apps		
	o GLOBE Observer		
	O GLOBE Data Entry		
	 WeatherLink (for Davis Weather Station) 		
	Setting up a site		
	 Entering collected data into GLOBE Website, either on 		
	computer or on phone		
10:00 - 10:30	GLOBE Science Research Symposia Timeline		
	Discuss different symposia. Distribute timeline.		
	What is a good research question?		
10:30-12:00	Breakout Groups by Grade and Interest		
	 Just-in-Time Protocol and/or Activity Demos 		
	 Brainstorm and Discuss an integrated Landmark Lesson 		
	O What are the target teaching standards?		
	o ES stay in room 157		
	o MS in room 156		
	O HS in Room 156		
12:00-12:30	Working Lunch (Share local school's weather station data)		
GLOBE Team	Solar noon and satellite flyover GLOBE Observer?		
Supporting this			
12:30-1:30	Discussion of Differentiation in Implementation of GLOBE for ELL and		
Evangeline	SPED populations		
1:30-3:00	Continue working groups from morning		
	Draft Landmark Lessons with GLOBE		
	O What are the target learning outcomes?		
	 Add to Driving Question Board 		
	Small-group demos of Just-in Time Protocols by interest		
3:00-3:30	Complete Reflection Questions for the day (3 Questions)		

WEDNESDAY- JULY 24, 2019

Time	Topics
8:30-9:00	GLOBE Data Entry
	 Enter measurements from your home
9:00-11:00	My NASA Data Presentation
	 Elizabeth Joyner for NASA Langley presents introduction for
	all grade levels
11:00-12:00	My NASA Data Breakout by Grade Level
	Elizabeth Joyner Discussions with Grade-level Groups
	BU Team supports other groups
12:00-12:30	Lunch - 2019 GLOBE Project Based Learning Survey
12:30-1:30	Prepare and share out preliminary Project Based Learning ideas
1:30 - 3:00	Working Groups by School:
	Discuss Draft Landmark Lessons and GLOBE
	 Add to Driving Question Board
	Small-group demos of Just-in Time Protocols as needed
3:00-3:30	Complete Reflection Questions for the day (3 Questions)

THURSDAY- JULY 25, 2019

Time	Topics
8:30-9:00	GLOBE Data Entry
	Enter measurements from your home
9:00-10:00	Introduction to GLOBE Campaigns (eg Urban Heat Islands)
	https://www.globe.gov/do-globe/measurement-campaigns/by-
	<u>sphere</u>
	Discussion of GLOBE Packets and Bundles
10:00-12:00	GLOBE protocol workstations
	Continue working groups by interest
	 Continue draft Landmark Lessons with GLOBE
	Organizational Questions Board
12:00-12:30	Lunch
12:30-3:00	Work in Groups by Interest Finish and Document Draft Landmark
	Survey: Interviews
3:00-3:30	Complete Reflection Questions for the day (3 Questions)

FRIDAY- JULY 26, 2019

Time	Topics	Resources
8:30-10:00	GLOBE Data Entry	
	Enter measurements from your home	
	 Discussion of this week's data and integration into classroom 	
	Data visualization with GLOBE	
10:00-10:30	SurveyMonkey: Post Workshop Survey	
10:30-12:30	Review/expand/share landmark lesson plans (Elementary School) Review GLOBE Demonstrations and Activities (Middle School)	
12:30-1:30	Lunch Provided	
	Round table: Bringing GLOBE into your teaching?	
	What do you need?	
	What resources are available to you in Providence?	
	 What can the BU Team advocate for in Providence? 	
	Building a Communication Network!	
1:30-3:00	GLOBE, SRS Projects, and Landmarks:	
	 Develop and Discuss Research Questions 	
	Which Instruments will you need?	
	Gathering Resources and Materials	
	 Ordering Materials 	
	 Resources from GLOBE (teachers have a Google sheet they can 	
	use to specify/request GLOBE-related resources they need us to	
	supply)	
3:00-3:30	GLOBE Certificates!	