

NASA Applied Remote Sensing Training

Wildfire

October 6-8, 2015

Day 1

8:00am	Introductions	
8:30am	GIS and geospatial data review	
9:15am	Satellite remote sensing review	
9:45am	BREAK	
10:00am	Overview of fire related remote sensing platforms and products	
	Landsat	
	MODIS	
	MERRA	
	SMAP	
	NDVI	
	fPAR	
	NBR	
10:30am	Hands-on exploration exercise (team A)	(team B in breakout)
11:15am	Breakout session 1: A season of fire (team A)	(team B in exercise)
NOON	LUNCH	
1:00pm	What to expect from Geospatial data and technologies	
	Spatial resolution	
	Temporal resolution	
	Understanding error	
1:30pm	Hands-on exploration exercise (team A)	(team B on BREAK)
2:00pm	BREAK	(team B in exercise)
2:30pm	Pre-fire assessment with satellite remote sensing imagery	
3:00pm	Hands-on exploration exercise (team A)	(team B in breakout)
3:45pm	Breakout session 2: satellite imagery in your workflow (team A)	(team B in exercise)
4:30pm	END	
6:00pm	Evening social and student poster session	

Day 2

8:00am	Review of day 1 materials and exercises	
8:15am	Integrating other geospatial data	
	Elevation	
	Slope	
	Aspect	
8:45am	Hands-on exploration exercise (team A)	(team B in breakout)
9:15am	Breakout session 3: Current bottlenecks (team A)	(team B in exercise)
10:30am	BREAK	
10:45am	Fire management and planning with geospatial technologies	
	MODIS active fires	
	VIIRS	
	Early detection systems	

Fire behavior in response to landscape elements

11:15am	Hands-on exploration exercise (team A)	(team B in breakout)	
11:45am	Breakout session 4: Future missions wishlist (team A)	(team B in exercise)	
12:15pm	LUNCH		
1:15pm	Field trip/Technical tour of a regional fire site		
4:30pm			END

Day 3

8:00am	Review of day 1 and 2 materials and exercises	
8:15am	Post fire planning from an end-user perspective	
	BAER	
	ES&R	
9:00am	Hands-on exploration exercise (team A)	(team B in breakout)
9:45am	Breakout session 5: DEVELOP (team A)	(team B in exercise)
10:30am	BREAK	
10:45am	RECOVER Decision support system	
11:15am	Hands-on exploration exercise (team A)	(team B free)
11:45am	Hands-on exploration exercise (team B)	(team A free)
12:15pm	LUNCH	
1:15pm	Long-term monitoring with satellite remote sensing	
	Past research	
	Understanding NPP	
2:00pm	Hands-on exploration exercise (team A)	(team B in breakout)
2:45pm	Breakout session 6: Future research needs (team A)	(team B in exercise)
3:15pm	BREAK	
3:30pm	New techniques and technologies	
	UAS and aircraft systems	
	SMAP	
4:15pm	Wrap up Q&A	
5:00pm	END	