

## **NASA DEVELOP – 2019 Spring Potential Project List**

Note: These project ideas are tentative and subject to change. The number of projects listed does not necessarily reflect the number of projects being conducted at a given node.

### **AL: Alabama – Mobile** (Mobile, AL)

- ▶ *Coastal Alabama & Louisiana Urban Development: Evaluating Urban Green Space Impact on Land Surface Temperatures in New Orleans, LA and Mobile, AL*

### **ARC: California – Ames** (Moffett Field, CA)

- ▶ *Chile Ecological Forecasting: Forecasting Chile's Atacama Desert Salt Marshes Future with NASA Earth Observations*

### **AZ: Arizona – Tempe** (Tempe, AZ)

- ▶ *Toronto Disasters: Helping Coastal Communities in Toronto Understand the Environmental Parameters that Contribute to Flooding and Better Prepare for High Water Levels along Lake Ontario using NASA Earth Observations*

### **CO: Colorado – Fort Collins** (Fort Collins, CO)

- ▶ *Nevada & Oregon Water Resources: Utilizing Landsat to Identify Surface Water in Support of the USGS's Management Efforts of Equids*
- ▶ *Minnesota Agriculture & Food Security: Validation of Suitable Habitat for Wild Rice Through Modeling Efforts Using NASA Earth Observation*

### **GA: Georgia – Athens** (Athens, GA)

- ▶ *Southern Appalachia Health & Air Quality: Using NASA Earth Observations to Model and Rapidly Assess Health Impacts of Wildfires*

### **GSFC: Maryland – Goddard** (Greenbelt, MD)

- ▶ *Chesapeake Bay Agriculture & Food Security III: Quantifying Wintertime Agricultural Land Use and Springtime Management of Winter Cover Crops Using Landsat and Sentinel to Support Environmental Conservation Management in Maryland*

### **ID: Idaho – Pocatello** (Pocatello, ID)

- ▶ *Argentina Water Resources: Measuring Soil Moisture and Evapotranspiration in Semi-Arid Climate with NASA Earth Observations to Understand Water Balance in Patagonian Steppe of Argentina*

### **JPL: California – JPL** (Pasadena, CA)

- ▶ *Great Lakes Water Resources: Improving Wetland change Mapping using Moderate Resolution, Multi Temporal, Optical and Radar Satellite Sensors for the Great Lakes Region*
- ▶ *Alaska Ecological Forecasting II: Automated Wetland Inundation Mapping Using Synthetic Aperture Radar and Optical Satellite Imagery for Enhanced Wetland Management*

### **LaRC: Virginia – Langley** (Hampton, VA)

- ▶ *Patuxent Water Resources: Monitoring Land Use and Land Cover Changes in the Patuxent Reservoirs Watershed to Assess Impacts to Water Quality*
- ▶ *Providence Urban Development: Understanding Heat and Flood Related Vulnerability in Urban Environments*

### **MA: Massachusetts – Boston** (Boston, MA)

- ▶ *New York Disasters: Employing Remote Sensing Techniques to Evaluate Flood Extent and Environmental Parameters that Contribute to High Water Levels in New York Communities on the Coast of Lake Ontario*

**MSFC: Alabama – Marshall** (Huntsville, AL)

- ▶ *Coastal Alabama Water Resources III: Enhancing Evaluation of Water Quality in Coastal Alabama Using ECOSTRESS*
- ▶ *Alaska Disasters: Evaluating the Atmosphere-Land Exchange Inverse (ALEXI) Evaporative Stress Index for the Alaska Environment*

**NC: North Carolina – NCEI** (Asheville, NC)

- ▶ *Texas Disasters: Quantification of Damage to Urban Tree Inventories in Texas Following Hurricane Harvey*