**NASA DEVELOP National Program**

****Spell Out Team Location Here

**Spring 2017**

**Short Title: Insert here (ex. South Dakota Ecological Forecasting)**

**Subtitle:** Insert here (ex. Monitoring Forest Loss for Enhanced US Forest Service Decision Making in South Dakota’s Black Hills)

**VPS Title:** Insert here (ex. Beyond a Shadow of a Drought: Remote Monitoring in the Navajo Nation)

**Project Team & Partners**

**Project Team:**

Name (Project Lead), email address

Name 2

Name 3

Name 4

**Advisors & Mentors:**

Name 1 (Affiliation)

Name 2 (Affiliation)

Name 3 (Affiliation)

**Past or Other Contributors:**

Name 1

Name 2

*\*\* If the project is a continuation, you must list ALL previous team members from past terms (who aren’t current team members)\*\**

**Partner Organizations:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **POC (Name, Position/Title)** | **Partner Type** | **Boundary Org?** |
| Org 1 | Dr. Joe Smith, GIS Specialist | End-User | Yes\* |
| Org 2 | Dr. Jane Smith, Research Scientist | Collaborator | No |

**Project Details**

**Applied Sciences National Applications Addressed:** National App 1, National App 2, etc.

**Study Area:** Geographic location of the study area. List all US states included using postal acronyms

**Study Period:** May 2000 – Nov 2010; Forecasting to Year

If Seasonal: Year-Year (Month - Month); Forecasting to Year

**Earth Observations & Parameters:**

Satellite, Sensor – parameter (*examples below, don’t bulletize*)

Tropical Rainfall Measuring Mission (TRMM), Precipitation Radar (PR) – rainfall measurements

Terra, Moderate Resolution Imaging Spectroradiometer (MODIS) – aerosol optical depth

Landsat 8, Operational Land Imager (OLI) – land cover

**Ancillary Datasets Utilized:**

* Provider & Dataset – parameter (*examples below, please bulletize*)
* USGS National Land Cover Dataset (NLCD) – land cover
* NOAA Coastal Change Analysis Program (C-CAP) – regional land cover
* EPA AIRNow PM2.5 dataset – PM2.5 measurements

**Models Utilized:**

* Agency & Model Name (*examples below, please bulletize*)
* USGS National Invasive Species Forecasting System (ISFS)
* NASA Regional Ocean Model System (ROMS)
* NOAA Sea, Lake and Overland Surges from Hurricanes (SLOSH) model

**Software Utilized:**

* Software package – used for/data processed (*examples below, please bulletize*)
* ERDAS IMAGINE – land classification of Landsat imagery
* ArcGIS – raster manipulation/analysis, image enhancement & map creation of Landsat ETM+, NPP VIIRS, Aqua/Terra MODIS

**Project Overview**

**80-100 Word Objectives Overview:**

Insert here (80-100 words max). Short and catchy synopsis of project and its objectives. 1-3 sentences. Keep the reader in mind, make it interesting!

**Abstract:**

Insert here (150 - 250 words, preferably one paragraph)

* Best Practices:
  + The abstract should be fully contained and give the reader a good grasp of the project.
  + While there is a maximum word limit, if you can say it with fewer words, do so.
  + State the most important information first.
  + Avoid passive words like “might” or “could” – use powerful language.
  + Use key words and phrases that will quickly give the reader an idea about the content and focus of the work (ex. Navajo Nation, drought, TRMM, PRISM).
  + Don’t include citations.
  + Don’t define terms.
  + Read other projects’ abstracts for inspiration.
  + Any major restrictions or limitations on results (if results are included) should be stated.
  + Reread the abstract – did it answer who, what, where, when, and why? If it didn’t, then revise it!

**Keywords:**

Insert here 2-8 keywords that relate to your project.

Example: remote sensing, MODIS, Floating Algal Index, biodiversity hotspot, MaxEnt, etc.

**Community Concerns:**

* Concern 1
* Concern 2
* Concern 3
* Etc.

**Current Management Practices & Policies**:

In a well explained nutshell, describe the current management practices that your project end-user employs. Are they conducting costly field observations or some outdated method to manage something that remote sensing and NASA Earth observations could make easier for them? Also what policies are in play - are there any Federal or state laws that oversee the management of a certain area/land cover type/issue? This should not include any information about what your project will contribute or how it will impact these practices and policies. This section should solely be focused on what the partners and any others working on this topic are doing. (one paragraph)

**Decision Support Tools & Benefits:**

|  |  |  |  |
| --- | --- | --- | --- |
| **End-Product** | **Earth Observations Used** | **Benefit & Impact** | **Software**  **Release** |
| End-Product 1 (ex. Risk map, habitat loss map, land cover change detection, etc.) | Ex. Landsat 8 OLI (use acronyms) What EO data were used to derive your product? | Brief description of how the end-product has/will/can improve a specific decision making process or be used by the partner | Options:  N/A  I  II  III  IV  V |
| End-Product 2 |  |  |  |
| End-Product 3 |  |  |  |