**NASA DEVELOP National Program**

****Spell Out Team Location Here (ex. BLM at Idaho State University GIS TReC)

*Summer 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**

**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)\*\**

**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.
  + Spell out all acronyms except NASA
  + 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 2-8 keywords here that relate to your project. Example: remote sensing, MODIS, Floating Algal Index, biodiversity hotspot, MaxEnt, etc.

**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 |

**Community Concerns:**

* Concern 1
* Concern 2
* Etc.

**Current Decision Making Practices & Policies**:

In a well explained nutshell, describe the current decision making practices that your project end-user employs in relation to the environmental issue at hand. 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, or 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 the partners’ decision making process (one paragraph).

**Decision Support Tools & Benefits:**

|  |  |  |  |
| --- | --- | --- | --- |
| **End-Product** | **Earth Observations Used** | **Partner Benefit & Use** | **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? | Write a brief description of how the end-product has, will, or can improve a specific decision making process or be used by the partner (25-50 words). | Options:  N/A  I  II  III  IV  V |
| End-Product 2 |  |  |  |
| End-Product 3 |  |  |  |

**Project Benefit to End-User**:

Provide a concise paragraph that demonstrates the utility of your project and how it will benefit the end-user involved. How can they use your methodology to enhance a decision and how does that help them? Write about how your project could impact the practices and policies listed above (one paragraph).

**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:**

|  |  |  |
| --- | --- | --- |
| **Platform & Sensor** | **Parameter(s)** | **Use** |
| EO-1 Hyperion | Spectral vegetation indices | 1-2 sentences describing how this dataset will be used. |
| Terra MODIS | Chlorophyll-a | x |
| Aqua MODIS | Chlorophyll-a | x |
| Etc… | Etc… | Etc… |

**Ancillary Datasets Utilized:**

* Provider & Dataset – parameter (*examples below, please bulletize*)
* USGS National Land Cover Dataset (NLCD) – land cover
* EPA AIRNow PM2.5 dataset – PM2.5 measurements

**Models Utilized:**

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

**Software Utilized:**

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

**Project Handoff Package**

**Transition Plan:**

Provide a brief summary of how, when, and to whom the team will hand off project materials at/near the end of the term. Talk to your partners at the beginning of the term to start planning what works best for them – email, videoconference, in-person meeting (for local partners), or other means. List the “what” will be handed off in the handoff package section below (100 words max).

*Software Release Plan*: If an end-product is software release category III or IV, speak to how the team has prepared the partner for delayed delivery of any code, scripts, or tools to an undetermined time in the future, how the team would support that handoff at a later point, and what materials the team would provide to support code use. If there is no software release is required for your project, delete this paragraph (100 words max).

*Project Continuation Plan*: If your project is continuing to another term after this one, speak to what is being handed off now and what additional materials will be handed off in future terms. A first term should never forgo a handoff altogether, instead the team can provide preliminary products. Remove for one term projects (100 words max).

**Team POC:** Name, Email

**Software Release POC**: Name, Email

**Partner POC**: Name, Email

**Handoff Package:**

* List each item (on individual lines) that will be shared with the partner at the end of **this term**
* Review the handoff package menu for ideas of what to include
* *Note*: **code and scripts cannot be provided directly (i.e. by email, flash drive, large file transfer, etc.) to partners, thus should not be included on this list**. Once code is approved by NASA’s Export Control System, it is hosted in the NASA DEVELOP GitHub gallery where partners can download it. You can create tutorials and support documentation and hand that off at the end of the term (thus including them in this list) ahead of the code release.