**NASA DEVELOP National Program**



Team Location (ex. NASA Stennis Space Center)

*Spring 2016*

Short Title (Location + Main App Area)

Longer sub-title (ex. Synthetic Aperture Radar Data Decision Support for Atlantic Blue Fin Tuna Population Assessment and Management in the Gulf of Mexico)

 **Technical Report**

Rough Draft – Feb 18, 2016

Author 1 (Project Lead)

Author 2

Author 3

Author 4

Advisor 1, Affiliation (Science Advisor)

Advisor 2, Affiliation (Science Advisor)

Previous Contributors:

Contributor 1

Contributor 2

# I. Abstract

[Placeholder - do not put anything here until the final draft submission. The abstract in the project summary is where the working draft of the abstract should “live”]

**Keywords**

Insert here 2-8 keywords that relate to your project

Example: Remote Sensing, Biomass Burning, Erosion, Sea Level Rise, etc.

# II. Introduction

Including the items listed below; write a synopsis of the following information. Be concise. Word count should be between 200-1000 as one to two pages should suffice.

Material to include:

* Background Information: Relevant information to inform the reader of current status, issues, previous studies, etc
* Project Objectives: These should be short decisive action items.
* Study Area: Describe the geographic location of the study
* Study Period: Explain the time period of data you are looking at (years and dates of data)
* National Application(s) Addressed: Explain which NASA national application areas this project addresses and how it contributes to them
* Project Partners: Explain who the project partners are, why they are interested in this project, how they will use it, what decision making they have to do and is being addressed with this research and methodologies, etc. How will they benefit from this project and methodology?

# III. Methodology

This should be the focus of the paper - concise, yet explanatory, and highlight the NASA Earth observations utilized and its/their capabilities. Include a paragraph or more for each of the following items. No word cap, but be thoughtful and keep it in the two to six page range.

Content to include:

* Data Acquisition: What data did you get, what level products are they, for what dates did you get images, where did you get the images from, etc.
* Data Processing: What did you do to the data? Were there conversions needed to be able to analyze it? Did you have to mosaic images? Did you have to normalize anything to fit other datasets? Did you run an NDVI, change detection, etc?
* Data Analysis: How did you analyze the data? What methods did you use?

# IV. Results & Discussion

Insert images, graphs, maps, charts, etc. here. Choose the most important results to highlight here. No word cap, but two to six pages is a good range.

Things to discuss:

* Analysis of Results: What can you tell from your graphs, images, etc? What does this mean for your project?
* Errors & Uncertainty: What factors could you not account for, what things didn’t work out like you expected they would, etc.
* Future Work: If this project was to be selected for another term, what would be the focus? What other areas would be of interest?

# V. Conclusions

Final conclusions. Word count: 200-600 (~a page).

# VI. Acknowledgments

Insert here. Keep to a concise paragraph or bullets of names. End with the following sentence.

This material is based upon work supported by NASA through contract NNL11AA00B and cooperative agreement NNX14AB60A.

# VII. References

Insert references here. Only include articles/content cited in the body of text above. It’s great if you read many other articles, but they should not all be listed here unless they are being cited in this report.

Use whatever style you want - here are some options:

<http://www.dovepress.com/author_guidelines.php?folder_id=208>

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<http://linguistics.byu.edu/faculty/henrichsenl/apa/apa01.html>

# VIII. Content Innovation

In preparation for DEVELOP’s coming microjournal, please select two content innovation features to support your paper. For each item, please list the name of the feature, and include the tool itself if possible (eg. glossary terms and definitions). If the tool does not work in Microsoft Word (eg. Interactive MATLAB Figure Viewer), please list the file name and upload the related file to the microjournal folder on the DEVELOP Exchange. If you choose to use Inline Supplementary Material, please also include where the material should appear in the text.

**Some options include:**

AudioSlides

Database Linking Tool

Data Profile

Executable Papers

Featured Author Videos

Featured Multimedia for this Article (video and podcast options)

Glossary Viewer

Inline Supplementary Material (figures, tables, computer code)

Interactive Map Viewer

Interactive MATLAB Figure Viewer

Interactive Plot Viewer

Nomenclature Viewer

# IV. Appendices

Insert here