

To: Authors of R2K ISS Summary Articles in Special Issue of Oceanography

From: Co-editors – Fornari, Holden, Mullineaux, Tolstoy, Beaulieu

Date: March 18, 2011

Subject: Suggested structure for ISS articles in Oceanography R2K special issue

Dear Authors of the R2K ISS summary articles-

Thank you in advance for agreeing to help author/co-author the summary article for the ISS that you have been actively involved in working at. We have provided below a straw-plan outline for your consideration that we believe will help ensure that the topics covered in your summary article cover the spectrum of research that has been conducted at the ISS and that there is a similar structure to the three ISS-focused articles planned for the special issue. Our idea is based on using the R2K Implementation Plans as a starting point, as those provide the important context for why the sites were chosen and outline the types of work that would be accomplished. Using that information will also provide a metric by which the community and NSF can consider the significant accomplishments achieved at each ISS in terms of integrated science leading to new ideas and models for MOR processes.

We welcome your comments on these suggestions, and we don't feel that you need to adhere to them strictly. Hopefully by considering these points it will help you organize the presentations and discussion and will help set the stage for comparisons between the three ISSs.

Please do not hesitate to contact any/all of the co-editors if you have questions, comments or suggestions for improving the outline structure.

Thank you in advance for your consideration of these suggestions.

Best Regards,

Dan, Jim, Lauren, Maya, and Stace

The Implementation Plans can be downloaded as PDF from:

<http://www.ridge2000.org/science/iss/endeavour/>

<http://www.ridge2000.org/science/iss/epr/>

<http://www.ridge2000.org/science/iss/lau/>

1. Introduction - sets the stage for why each ISS (and the bull's eye at each ISS) was chosen.

2. Fundamental questions and site-specific objectives addressed at this ISS (this should also refer back to the original 7 R2K Science Plan questions, listed at:

http://www.ridge2000.org/science/info/science_plan.php).

This section would be where the co-authors contribute most of the information on scientific advances.

Some information can be extracted from the R2K mid-term review:

http://www.ridge2000.org/science/program_review_2008/

For example, "1.3. Hypotheses Tested and Advances":

http://www.ridge2000.org/science/program_review_2008/report/section1.html#3

3. Time critical studies at this ISS - section on rapid response cruise(s).

Note there is a TCS overview on the ridge2000.org website that would be useful for the Endeavour ISS article: <http://www.ridge2000.org/science/tcs/index.php>.

The Lau ISS article could use TCS News for eruptions in the Lau Basin:

<http://www.ridge2000.org/science/tcs/news/index.php>.

The EPR ISS article could use the overview of eruption response efforts at:

<http://www.ridge2000.org/science/tcs/epr06activity.php>.

4. Table of R2K-funded cruises to the ISS (*to be prepared by R2K office*)

This will be an update of the listing in the mid-term review at:

http://www.ridge2000.org/science/program_review_2008/report/table3.html

Recent cruises:

Endeavour: <http://www.ridge2000.org/science/iss/endeavour/projects.php>

EPR: <http://www.ridge2000.org/science/iss/epr/projects.php>

Lau: <http://www.ridge2000.org/science/iss/lau/projects.php>

5. Data sets [and technologies in addition to the science] that came out of the ISS

This could be a table listing data types submitted to MGDS (*to be prepared by R2K office and MGDS Data Portal Staff*).

[It would also be good to highlight instruments that were built for work on ISS cruises, or software – note that these may also be cross-referenced in the technology article (i.e., article co-authored by Ferrini, Kinsey and Seyfried).]

6. Relationship of each ISS to other national or international programs and collaborative efforts

- Endeavour – e.g., NEPTUNE Canada, U.S. OOI.

- EPR – e.g., off-axis IODP cores 504B and Hess Deep. (e.g., from Lau IP: “*The IODP is the ideal vehicle for extending ISS studies significantly into the third dimension beneath the seafloor as well as back in time through off-axis drilling.*”), also collaborative links to French colleagues working at EPR 9-10N.

- Lau – e.g., Nautilus Minerals, InterRidge, SOPAC.

7. List of selected refs for each ISS (*to be prepared by R2K office with input from each ISS article authors and MGDS R2K Data Portal Staff*).