# Attachment C

#### NSDI Cooperative Agreements Program Metadata Training & Outreach Project Interim and Final Project Summary Format

# Agreement Number: IA660110253 Category 1: Metadata Trainer and Outreach Assistance Interim Report

## Organization:

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## **Project Narrative**

During the 2006-2007 CAP Grant year, the NBII has successfully **conducted 4 workshops** in locations throughout the United States (Seattle, WA; Asheville, NC; College Station, TX; Portland, OR). 3 of those workshops were titled "Introduction to Metadata", and 1 workshop was titled "Train the Trainer". Each Introduction to Metadata Workshop was 1 ½ days. In total, NBII trained <u>53</u> people in metadata creation and training skills.

The NBII program is very successful at bringing together a variety of organizations to each workshop, which creates an atmosphere of collaboration and idea sharing. Participants leave the workshop not only educated on metadata and the FGDC-BDP Standard, but also with new contacts for collaborative projects and activities related to metadata and other larger themes. Each workshop averaged 18 participants that represented federal, state, tribal, non-profit, and university organizations.

One challenge to the NBII metadata program is an ability to retain trainers that are available to travel to present workshops and/or the ability to arrange pay to cover the trainer's time. In the past, this was considered an in-kind contribution from the organizations offering trainers, but this is an increasingly difficult arrangement due to shrinking budgets. One solution to this problem may be to require each participant in the Train the Trainer Workshop to conduct at least 1 NBII Introduction to Metadata Workshop. This model may also have its own challenges for practical reasons.

Another challenge is tracking the number of metadata records that are produced as a result of NBII training workshops. Since workshops are open to a broad range of organizations, it has not been a requirement to date that those organizations contribute to NBII's Clearinghouse – although it is <u>highly</u> encouraged – the participant's organization may ultimately choose only to contribute to GeoSpatial OneStop, for example. However, many NBII Clearinghouse node partnerships have developed through metadata workshops and as a result hundreds of records have been added.

Collaboration in producing metadata workshops is a critical factor in the training program. Typically, new collaborations transpire for each workshop, as partner organizations host the workshop at their location. Additionally, collaboration occurs at the Clearinghouse level as a result of workshops. Several new Clearinghouse nodes have been created this year due to follow-up and individual contact with workshop participants.

# Metadata training and outreach assistance

Workshop Loc Participants 1 1 1 4 1 2 1 1 1 1 1 1 1 1	<b>Station:</b> Seattle, WA – 1 ½ days Intro Organization Houston Advanced Research Center USGS Auke Bay Lab, AFSC, NOAA Fisheries Aquatic and Riparian Effectiveness Monitoring Program USGS-WFRC- Marrowstone Marine Station Bureau of Land Management National Oceanic and Atmospheric Administration (NOA Ducks Unlimited, Inc Yakama Nation Fisheries Point No Point Treaty Council Environment Canada NASA	Federal Federal
Workshop Loc Participants 2 3 1 4 1 1 1 1	eation: <u>Asheville, NC – 1 ½ days Intro</u> Organization Southern Appalachian Highlands Conservancy (2) NatureServe NBII-SAIN National Park Service (4) Cornell Laboratory of Ornithology The North Carolina Nature Conservancy Appalachian Highlands Science Learning Center (NPS)	Organization Type Non-profit Non-profit Federal Federal University Non-profit Federal
Workshop Loc Participants 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eation: <u>College Station, TX – 2 daysTrain the Trainer</u> <u>Organization</u> Brazos Valley COG Ark-Tex COG TAMU Institute of Renewable Natural Resources Texoma COG Houston-Galveston Area Council Central Texas COG Coastal Bend COG Sonoma Ecology Center North Central Texas COG Rio Grande COG TPWD -Wildlife Region 1	Organization Type State Gov't State Gov't University State Gov't State Gov't State Gov't State Gov't State Gov't State Gov't State Gov't State Gov't
Participants 1 4 1 1 1 1 3	eation: <u>Portland, OR – 1 ½ days Intro</u> <u>Organization</u> Bonneville Power Administration – KEWR Pacific States Marine Fisheries Commission Columbia River Inter Tribal Fish Commission USGS Northwest Habitat Institute USBR Pacific NW Region USDA Forest Service Colville Tribes	Organization Type Federal Inter-agency Tribal Federal Non-profit Federal Federal Tribal

Total: 4 workshops - 53 participants

For each of the introductory workshops presented, participants completed the course able to comprehend the standard, choose appropriate tools, and navigate clearinghouses. Additionally, each participant left the workshop with at least a partially completed record -- having learned and used metadata creation software in class. The typical audience for these metadata workshops is data managers and scientists.

Participants completing the Train the Trainer Workshop are proficient in metadata production when they enter the course. They leave the workshop with the ability to translate those skills into a training capacity for their organization. Each participant is given time to create a presentation during the workshop, and is asked to present on a metadata related topic to their peers and instructors on the final day. Constructive feedback is given to the participant from those attending the workshop and the instructors. All training materials are supplied to the participants as a resource for developing their own metadata programs or to be used unchanged, should they wish.

## Status of Metadata Service

Metadata is served through the NBII Clearinghouse, located at <a href="http://mercury.ornl.gov/nbii/">http://mercury.ornl.gov/nbii/</a> Only 2 web folders are harvested by GeoSpatial One Stop from the NBII: "Metadata Clearinghouse Principal Node", and the "BRD Bibliographic Metadata Node". Other partners on the NBII Clearinghouse are asked to register in GOS independently so as to prevent duplication of records from the same source. The number of records completed as a direct result of the metadata training workshops is not determinable, however, the NBII Metadata Clearinghouse has increased its records holdings by several thousand over the past year – many of those records have been completed or made available by participants in the workshops. As mentioned earlier, assistance in providing metadata service to the organizations that NBII has supported this year would best be served by an online metadata tool developed and supported by FGDC.

## Next Steps

This project will continue in the future, as the NBII infrastructure is in place and metadata is considered a critical element to the mission of the program. The NBII metadata infrastructure includes a training program, robust Clearinghouse, quality control/quality assurance assistance, and a metadata creation assistance program. All are funded by the NBII with the exception of the training program. The NBII has been able to serve the metadata community by offering training due to the generosity of the FGDC CAP Grant program.

#### Feedback on Cooperative Agreements Program

The FGDC CAP Grant has been a very beneficial program to assist metadata development and progress. Having received these grants for several years has allowed the NBII to assist hundreds of people and organizations create metadata and post it to Clearinghouses, which is beneficial to the science community and other research and learning communities. I would like to see the FGDC host a *post* CAP Grant meeting in which those organizations that were awarded funding can present the results of their projects. By sharing successes and challenges, new partnerships could be formed, progress could be seen, and the energy already developed from the success of the projects could be extended to the future.