**NPS**

**PROJECT SUMMARY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Cooperative Ecosystem Studies Unit**  **Cooperative Agreement Modification** | | | | | |
| FUNDING AGENCY:� **National Park Service, Grand Canyon � Parashant National Monument** | | | | | |
| MODIFICATION NO.: **[CESU info only]** | | COOPERATIVE AGREEMENT NO.:  H1200-04-0002 | | | FUNDING AMOUNT: $6,000 |
| INVESTIGATOR�S Contact Information: **�Dr. Thomas Nash III,**  **�Dept. of Plant Biology, Arizona State University,**  **�Box 871601, Tempe, AZ 85287-1601 �**  **ph. (480) 965-7735; e-mail: tom.nash@asu.edu** | | | | | |
| PROJECT TITLE:**Survey of the Lichens and Bryophytes of Grand Canyon � Parashant National Monument, Part II** | | | | | |
| EFFECTIVE DATES**: August 25, 2004 to December 20, 2005** | | | | | |
| PROJECT ABSTRACT:**In collaboration with Kari Yanskey, botanist, Grand Canyon � Parashant National Monument will be surveyed for lichens to establish baseline information that may be used for future biomonitoring investigations of air pollutants and/or radionuclides. Dr. Nash (ASU) will supervise students in the collection and identification of the lichens. Collections will be deposited in the herbaria at ASU and a duplicate set will be provided Grand Canyon � Parashant National Monument as requested. The scope of work may be modified to include additional research if additional funding becomes available in 2005** | | | | | |
| **Agency Representative:**  Ron Hiebert, NPS Research Coordinator  CPCESU  Northern Arizona University  P.O. Box 5765  Flagstaff, AZ� 86011-5765  Tel: (928) 523-0877  Fax: (928) 520-8223  [Ron.Hiebert@nau.edu](mailto:Ron.Hiebert@nau.edu) | **Agency Administration Representative**  Lynell Wright  Budget Analyst  Office of Budget and Finance  Intermountain Region  P.O. Box 25287  Denver, CO 80225-0287  Tel: (303) 969-2654  Fax: 9303) 969-2754  [Lynell\_Wright@nps.gov](mailto:Lynell_Wright@nps.gov) | | **Investigator:**  Dr. Thomas H. Nash III  Dept. of Plant Biology  Arizona State University  Box 871601  Tempe, AZ 85287-1601  Tel: (480) 965-7735  Fax (480) 965-6899  Tom.nash@asu.edu | **Partner Admin. Contact:**  Janie Morales-Castro  Office for Research & Sponsored Projects Administration, Arizona State University  PO Box 873503, Administrative Services Bldg., Room B-270  Tempe, AZ� 85287-3503  Phone:� (480) 965-0729��� Fax: (480) 727-6285  E-mail:� janiemorales.castro@asu.edu | |
| ***List of Key Words: lichens, bryophytes, Grand Canyon � Parashant National Monument*** | | | | | |
| ***Agency Manager/Technical Representative from National Park - Include contact information @ Specific Park****:*  *Kari Yanskey, botanist*  *Grand Canyon � Parashant National Monument*  *345 E. Riverside Dr*  *St. George, UT�� 84790*  [*Kari\_Yanskey@nps.gov*](mailto:Kari_Yanskey@nps.gov)  *(435) 688-3298�� fax (435) 688-3388* | | | | | |
| *Annual Report Received:*  *Final Report Received:*  *Publications on File:* | | | | | |
| *This Modification is subject to all the provisions included in the Cooperative Agreement,****dated 6/18/04.*** | | | | | |
|  |  |  |  |  |  |

*Attach any supporting material as necessary.*