**NPS**

**PROJECT SUMMARY**

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| **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, NPSResearch CoordinatorCPCESUNorthern Arizona UniversityP.O. Box 5765Flagstaff, AZ� 86011-5765Tel: (928) 523-0877Fax: (928) 520-8223Ron.Hiebert@nau.edu | **Agency Administration Representative**Lynell WrightBudget AnalystOffice of Budget and FinanceIntermountain RegionP.O. Box 25287Denver, CO 80225-0287Tel: (303) 969-2654Fax: 9303) 969-2754Lynell\_Wright@nps.gov  | **Investigator:**Dr. Thomas H. Nash IIIDept. of Plant BiologyArizona State UniversityBox 871601Tempe, AZ 85287-1601Tel: (480) 965-7735Fax (480) 965-6899Tom.nash@asu.edu | **Partner Admin. Contact:**Janie Morales-CastroOffice for Research & Sponsored Projects Administration, Arizona State UniversityPO Box 873503, Administrative Services Bldg., Room B-270Tempe, AZ� 85287-3503Phone:� (480) 965-0729��� Fax: (480) 727-6285E-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**(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.*** |
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*Attach any supporting material as necessary.*