

From: SERENA MANKILLER <smankill@flagmail.wr.usgs.gov>
To: ibr4dm10.ibr4gwia("barrett@trilobyte.net","EcoPlan...
Date: Fri, Dec 11, 1998 3:12 PM
Subject: January 1999 TWG Meeting Notice

MEMORANDUM

GCMR-700
ADM 10.00

TO: TWG OFFICIAL MEMBERS; COURTESY COPY LIST
FROM: SERENA MANKILLER, GCMRC SECRETARY
SUBJECT: TECHNICAL WORK GROUP MEETINGS: JANUARY 11, 1999 & JANUARY 13, 1999
PHOENIX, ARIZONA

The next Glen Canyon Technical Work Group Meeting is scheduled as follows:

Date: Monday, January 11, 1999
Time: 1 p.m. to 4 p.m.
Location: Embassy Suites Hotel, 1515 N. 44th St. (44th & McDowell Roads),
Turquoise Room, Phoenix, Arizona

The primary objective of this meeting will be to review recommendations to forward to the AMWG. We are also scheduled to discuss BHBF issues.

An additional TWG Meeting for January has been scheduled following the AMWG meeting as follows:

Date: Wednesday, January 13, 1999
Time: 1 p.m. to 4 p.m.
Location: Embassy Suites Hotel, 1515 N. 44th St. (44th & McDowell Roads),
Turquoise Room, Phoenix, Arizona

The primary objective of this meeting will be to review tasks/decisions from the AMWG. We are also scheduled to begin the annual review of Management Objectives and Information Needs.

This information will be posted on the GCMRC AMWG/TWG web site. The Bureau of Reclamation will cause notice of these meetings to be published in the Federal Register Notice. When published, the notices may be reviewed by accessing the USBR web site at <http://uc.usbr.gov/amp>.

Note: The TWG meeting tentatively scheduled for January 14, 1998, has been cancelled.

CC: [ibr4dm10.ibr4gwia\("TGUNN@LeesFerry.com"\)](mailto:ibr4dm10.ibr4gwia('TGUNN@LeesFerry.com')), "LEESFERRY..."

From: SERENA MANKILLER <smankill@flagmail.wr.usgs.gov>
To: ibr4dm10.ibr4gwia("barrett@trilobyte.net", "EcoPlan...
Date: Wed, Dec 30, 1998 3:39 PM
Subject: SCORE Report Available

The STATE OF NATURAL AND CULTURAL RESOURCES IN THE COLORADO RIVER ECOSYSTEM: 1998 DRAFT REPORT (SCORE '98), prepared by Lawrence E. Stevens and Kirsten Rowell of the Grand Canyon Monitoring and Research Center is now available online.

Please access the report from GCMRC's web site:
<http://130.118.161.89/gcmrc/gcmrc.html>

There is also a link from the GCMRC AMWG/TWG web site, under "Reports."

CC: [ibr4dm10.ibr4gwia\("TGUNN@LeesFerry.com", "LEESFERRY...](mailto:ibr4dm10.ibr4gwia()

From: SERENA MANKILLER <smankill@flagmail.wr.usgs.gov>
To: ibr4dm10.ibr4gwia("barrett@trilobyte.net", "EcoPlan...
Date: Thu, Jan 7, 1999 9:36 AM
Subject: GCMRC's Participation in the NGS Control Point Co-observation Project

Mike Liszewski, GCMRC Information Technology Program Manager, asked that this document be distributed to the TWG.

CC: ibr4dm10.ibr4gwia("TGUNN@LeesFerry.com", "LEESFERRY...

File: ngspoints.pdf

Purpose and Scope of the GCMRC's participation in the NGS Control Point Co-observation Project

The Grand Canyon Monitoring and Research Center (GCMRC) and cooperating agencies will be co-observing with the National Geodetic Survey (NGS) in densifying its High Accuracy Reference Network (HARN) control points in northern Arizona. A HARN control point is a centimeter level accuracy position on the Earth's surface. Due to difficulties in setting accurate control in areas of high vertical relief, there is currently a lack of accurate control points in Northern Arizona and the Grand canyon region. NGS has invited the GCMRC to co-observe during these sessions in the Grand Canyon – Colorado River area. GCMRC uses this control for spatially referencing and analyzing scientific data collected in the Colorado River Ecosystem.

GCMRC plans to co-observe 4 to 6 control points during the first session in January. These points, yet of undetermined locations, will be at places of easy access around the Grand Canyon and river corridor that will benefit the GCMRC science programs. NGS has the best facilities and expertise to resolve geodetic ambiguities that exist in setting control in areas with dramatic topographic relief such as the Grand Canyon. By having NGS perform the GPS reduction and adjustment, a substantial cost savings in office and field time can be realized.

Co-observation involves setting up GPS receivers on survey control points for specified periods of time. Upon completion, the data will be submitted to NGS for processing into their HARN control network. NGS will select 3 days per session to collect the GPS data. Each session will require daily 5 ½ hour observation times for 3 consecutive days at different times. The NGS procedures, protocols, and GPS receiver specifications are designed to achieve optimum results and must be carefully adhered to. The GCMRC survey department will offer detailed training to any cooperating agency willing to participate in the establishment of additional control points. There will be additional opportunity to established control points during the continued Nevada and Utah NGS operations in the coming months. The GCMRC survey department will coordinate co-observation sessions within the Grand Canyon area with NGS and cooperating agencies to prevent redundancy and ensure optimum distribution of control points.

Benefits to GCMRC and cooperating agencies are as follows:

- We may select the locations of the points to best suit our mapping and research needs.
- The NGS processing and adjustment is extremely accurate and robust.
- Set new points as well as improve the accuracy of our existing control network.
- Control point coordinates will be published to NGS standards.
- Coordinate additional GPS observations with cooperating agencies resulting in mutual benefits.
- Opportunity to complete a portion of some previously planned long-term GPS control survey operations with NGS assistance.
- NGS can assist GCMRC in the improvement and resolution of some inconsistencies in the regions ellipsoid height and Geoid model.

Please contact Mark Gonzales (fmgonz@flagmail.wr.usgs.gov) or Steve Lamphear (slamphea@flagmail.wr.usgs.gov) of the GCMRC survey department at 520-556-7459 if you are interested in co-observation or more information.

>Date: Tue, 19 Jan 1999 15:52:57
>To: TWG Official Members
>From: SERENA MANKILLER <smankill@flagmail.wr.usgs.gov>
>Subject: Correction: Strategic Plan & Annual Plan Workshops

>
>It was brought to my attention at the TWG meeting that the February 4 & 5 dates (indicated on the below e-mail sent to you on 1/7/99) are on Thursday & Friday (not Mon & Tues). I apologize for any inconvenience this may have caused.

>
>Serena.

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>>Date: Thu, 07 Jan 1999 12:11:25
>>To: TWG Official Members
>>From: SERENA MANKILLER <smankill@flagmail.wr.usgs.gov>
>>Subject: Strategic Plan & Annual Plan Workshops

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>>At its December 8, 1998, meeting the TWG agreed to form a key issue workshop to deal with some philosophical and other issues identified during discussions regarding GCMRC's draft FY2000 Monitoring and Research Plan and the draft 2000-2004 Strategic Plan. When the key issues have been worked out, an ad hoc work group will be formed to finalize the plans. Official TWG members or their alternates may participate in the workshops. This notice has been distributed to the official members of the TWG only, so please discuss it with your alternate if you plan to send one.

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>>The following arrangements have been made for us by the Bureau of Reclamation for the key issues workshops:

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>>The 2000-2004 Strategic Plan Workshop will be held:
>>Monday, February 4, 1999, from 10 a.m. to 5 p.m.
>>Tuesday, February 5, 1999, from 8 a.m. to 4 p.m.

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>>The FY2000 Monitoring and Research Plan Workshop will be held:
>>Tuesday, February 23, 1999, from 10 a.m. to 5 p.m.
>>Wednesday, February 24, 1999, from 8 a.m. to 4 p.m.

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>>The ADWR has generously given us the use of their conference room. Both meetings will be held at the following location:

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>>Arizona Dept. of Water Resources
>>500 N. 3rd St., Phoenix, AZ (across street from Arizona Center)
>>3rd Floor Conference Room A
>>(602) 417-2400 ext 7264 (Chris Harris)

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>>DIRECTIONS TO ADWR OFFICES:

>>From Sky Harbor Airport: Take West I-10 freeway, to 7th Street head south, to Roosevelt head west, to 3rd Street head south, to Fillmore. ADWR offices are on the corner of Fillmore and 3rd streets.

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>>Heading south on I-17: Take the Eastbound I-10 (Tucson) freeway, to 7th Street head south, to Roosevelt head west, to 3rd Street head south, to Fillmore. ADWR offices are on the corner of Fillmore and 3rd streets.

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>>PARKING AT ADWR:

>>Visitor parking in the basement garage is available on a first come-first served basis; please use only the spaces marked "DWR Visitor". There are two large pay parking facilities across the street (about \$2 per day). There is a Ramada close by but we recommend the Best Western Executive Park Hotel.

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>>LODGING:

>>Best Western Executive Park Hotel, 1100 N. Central Ave., Phoenix 85004 Phone: (602) 252-2100 Fax (602) 340-1989. 72 hour cancellation policy. This hotel is much nicer than the Ramada. It is a few blocks from the ADWR and BIA offices meeting locations. Directions: From I-10 heading east exit on 7th Ave and head south, to Roosevelt turn left, to Central turn left, the hotel is on the left. From Sky Harbor Airport: Airport exit at I-10 west, to 7th Street exit and turn left, to Roosevelt turn right, to Central turn right, hotel is on the left.

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>>Ramada Inn-Downtown Phoenix, 401 N. 1st St., Phoenix, Arizona 85004 (602) 258-3411 or (800) 272-6232. FAX: (602)258-3171 It is within walking distance of the ADWR offices, 1 block north of Van Buren) and close to the BIA offices and Arizona Center restaurants.

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Serena Mankiller

Secretary to the Chief

Grand Canyon Monitoring and Research Center

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