

**STRATEGY FOR SCIENCE ADVISOR AREAS OF EXPERTISE
TO RESPOND TO EMPHASIS AREAS OF THE GCDAMP; 2009-2013**

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NEW DIRECTION

The new GCDAMP directions and emphasis areas in science and management for 2009-2013 are articulated in the recently approved Monitoring and Research Plan, Environmental Assessment and Biological Opinion, as well as other documents. More refinement will occur in the summer of 2009 in approved 2010/2011 programs of work and budgets and a General Core Monitoring Plan.

Although GCDAMP emphasis areas will not change radically i.e. native fish, beaches, etc. a greater emphasis is being placed on understanding and resolving more integrated system wide impacts of operations on multiple resources, as well as approaches to improved adaptive management processes.

To best respond to GCDAMP needs over the current planning period i.e. 2009-2013, adjustments are proposed in the Science Advisor disciplines. The SAs would like input from GCMRC and AMWG on proposed discipline areas. We would also like potential nominations in three areas if the disciplines are supported, areas 3, 4, and 5 in the following table. Three discipline areas, 1, 2, and 3 in the following table, would not change and do not require any nominations at this time.

The following SA protocol excerpt specifies that the AMWG may provide GCMRC with nominations for SA positions. GCMRC and the SA Executive Coordinator normally work with the TWG and AMWG in gaining input on SA program directions, including discipline makeup and nominations.

“Selection Process and Terms. Scientific Advisors will be sought for a three-year term, renewable for one consecutive three-term. AMWG members may provide GCMRC with names of individuals who should be considered for appointment as a Scientific Advisor. Initial Scientific Advisors will be appointed for staggered one-,two-, and three-year terms, to ensure continuity in membership. Scientific Advisors will be selected from among nominees based on the evaluation criteria presented below. GCMRC will seek the consultation of the AMWG in selecting individuals to serve as GCMRC Scientific Advisors. The selection process, requiring them to sign the standard

GCMRC conflict-of-interest statement and providing them a fixed term that they will serve will assure the independence of the Scientific Advisors.”

The following disciplines are proposed for permanent and part time contracts.

A Strategy for full time and part time disciplines in the GCDAMP Science Advisor Group for the 2009/2013 program period.

Full Time Disciplines	Part Time Disciplines
1. <u>Geomorphologist</u> ; systems and modeling experience (currently, Dr. Ellen Wohl)	Cultural Resource Specialist; ² , Anthropology
2. <u>Fish Ecologist</u> ; systems and modeling experience (currently, Dr. James Kitchell)	Cultural Resource Specialist; ² , Field Archeology
3. <u>Adaptive Management Specialist</u> ; systems and modeling experience (currently, Dr. Lance Gunderson)	Remote Sensing Specialist; ² ; aquatic and terrestrial experience
4. <u>System Ecologist</u> ; ¹ riverine and riparian systems experience; modeling expertise	Data Base Management System Specialist; ²
5. <u>Aquatic Ecologist</u> ; ¹ fresh water riverine systems experience	Natural Resource Economist; ² terrestrial and aquatic system experience; modeling experience
6. <u>System Analyst</u> ; ¹ experience with remotely sensed and large multiresource sample designs and multivariate analysis procedures	

Background

In 2001/2002, the GCDAMP's Science Advisory Protocol was developed to respond to requirements of the GCD EIS and the GCDAMP for a Science Advisory Board. It was established in 2001 from guidance in the GCDEIS. Protocols for the independent Science Advisors were developed with input from and concurrence of the GCMRC, TWG, AMWG and Secretary of Interior.

Based on AMWG requests for clarification of appropriate administration and supervision of the SA Program in 2003/2004, and Secretary's concurrence, approval of SA work activities would occur annually by AMWG. This is accomplished by a process of AMWG approval, SA proposed two year program of work and accomplishment report. Amended protocols and operating procedures were drafted for the SA program to

¹ Disciplines for potential full time SA nominations. ² Disciplines where reviewers are intermittently selected from a pool of qualified experts for specific tasks.

respond to the new direction by AMWG. Supervision of this program contract is by the GCMRC Chief or Designee.

In 2005 all services in the SA program were placed in annual purchase orders, bid as cost proposals. In 2009 all SA program services were placed in a 5 year contract, competed through an RFP.

From FY 2002 to FY 2009 adjustments occurred in the discipline makeup of the Science Advisors Group. A comparison of the Science Advisor discipline structure in three separate years 2001/2004/2008 characterizes changes that occur in SA disciplines to respond to areas of emphasis in GCDAMP science and management programs.

2001: Twelve full time disciplines comprised the Science Advisor Group as follows:

- Adaptive Management
- Anthropology
- Archeology
- Fisheries
- Ecosystem
- Riparian Ecology
- Geomorphology
- GIS/Remote Sensing
- Hydrology
- Aquatic Ecology
- Limnology
- Socio-economics

2001 - 2004: In the period 2001-2004 the SAs were primarily a review group for GCMRC and reacted annually to 2-4 GCMRC planning documents. The full time Science Advisor Group was adjusted from 11 to 8. Other discipline-specific reviews were obtained on a part time, as need basis.

Full Time Disciplines	Part Time Disciplines
Adaptive Management	
Anthropology	
	Archeology
Fisheries	
Ecosystem Specialist	
Riparian Ecologist	
Geomorphology	
	GIS/Remote Sensing
	Hydrology
Aquatic Ecology	
Limnology	

	Socio-economics
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The socio-economic reviews were assigned to the SA Executive Coordinator, an economist.

2004 - 2008: From 2004 to 2008 general work tasks of the SAs changed significantly.

- In late 2003/early 2004 the Secretary Designee and AMWG decided the SAs program would respond more fully to requested review and advisory activities of the GCMRC, AMWG and TWG as expressed in requested operating procedures and amended operating protocol
- SAs program would provide more advisory services to TWG, GCMRC and AMWG in science and technical program planning and implementation.

The SAs disciplines during this period generally reflected the following.

Full Time Disciplines	Part Time Disciplines
Adaptive Management	
Anthropology	
	Archeology
Fisheries	
Ecosystem Specialist	
Riparian Ecologist	
Geomorphology	
	GIS/Remote Sensing
	Hydrology
Fisheries; RIP Expertise	Aquatic Ecology
Limnology	
	Socio-economics

Socio-economic expertise was obtained part time from the Executive Coordinator. Cultural resources expertise was obtained from a full time specialist until 2008.