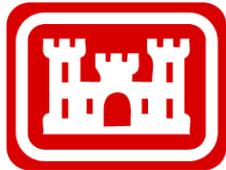


INTERAGENCY MODELING CENTER (IMC)

South Florida Ecosystem Restoration Task Force Meeting
May 18, 2006



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Larry Stout
Water Resources
Engineering Branch

Akintunde Owosina
Hydrologic &
Environmental
Systems Modeling
Department





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MISSION

The Interagency Modeling Center (IMC) will be the modeling services single point of responsibility for the CERP. It will provide or coordinate and oversee the modeling needs and efforts of each Project Development Team (PDT) and RECOVER. The IMC will have the primary organizational and production responsibilities for regional and sub-regional CERP modeling and will be a clearinghouse for, oversee, and coordinate all other project-specific CERP modeling. The IMC will not replace any existing agency staff or agency



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IMC Organization

The IMC is an equal partnership between the USACE Jacksonville District and the South Florida Water Management District.

These two agencies are the sponsoring agencies of the IMC. Participation by other federal and state agencies is welcomed and encouraged.



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IMC Organization cont

The IMC is responsible to its Board of Directors (4 member IMC Board, 2 USACE, 2 SFWMD) and receives resources, management, and technical oversight from the Corps' Water Resources Engineering Branch and the SFWMD's Hydrologic & Environmental Systems Modeling Department.

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Both sponsoring agencies have a program manager located within the IMC.



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CURRENT PARTICIPATION IN IMC

	ON-SITE	OFF-SITE
Sponsoring Agencies		
USACE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SFWMD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Participating Agencies		
National Park Service		<input checked="" type="checkbox"/>
F&WS		<input checked="" type="checkbox"/>
USGS		<input checked="" type="checkbox"/>

* Off-site participation is for occasional participation on interagency review teams



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AGENCY PARTICIPATION

IMC STAFFING

(Full time & Contractors)

	CURRENT	BY END OF 2006 (PROPOSED)
Sponsoring Agencies		
USACE	15 *	20
SFWMD	16 *	19
Participating Agencies		
NSP	0	2
F&WS	0	1
USGS	0	2 - 3

- In addition to co-located staff, the sponsoring agencies rely on H&H and HESM Staff as necessary
- Current staff includes 22 modelers/supervisors, 9 management, support and IT



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IMC LOCATION

The IMC is currently located in Building B-2 on the South Florida Water Management District campus in West Palm Beach, FL.



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TYPES OF IMC SERVICES

Regional Modeling Simulations

Sub regional modeling reviews

Data related requests (BC, rainfall, ET, etc.)

Sub regional simulations

Special Projects - For Example

- Uncertainty analyses,
- Standard modeling data sets,
- Rainfall driven operations,
- Modeling training,
- Modeling data/information management



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MODELS USED IN CERP

DISIPLINES
Hydrology and Hydraulics
Hydrodynamics
Water Quality
Ecology



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IMC WORK INTAKE

The IMC is tasked through Modeling Services Requests (MSR) initiated by the project representatives.

MSRs are reviewed and approved by CERP planning managers from both SFWMD and USACE.

Prioritization of work, when necessary, is by the Design Coordination Team (DCT).

IMC on-going work status is reported on a regular basis to the Quality Review Board (QRB), DCT, and the IMC Board.



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SAMPLE IMC REPORTS

IMC Work Status and

30-Apr-06

Ongoing Efforts

On Schedule Several efforts are ongoing in the IMC and a not reported in detail here, adequate resource

Delayed There are several efforts that are on hold or
 DECOMP PIR: Tool selection - On hold, new recent (DAMP discussion initiated on model RECOVER: Incremental runs - On hold RECOVER: ASR Contingency - Pending EAA: STA Capacity analyses - Pending

High risk EAA PIR and SEIS SFVMM runs completed in the past period. Potential for identified and depending on the priority of the SPOT.
 SFVMM 2010 Simulation for WRAC / Working Group is ongoing. The previously scheduled management request and the project has been modeling efforts. Slippage to the previous date will depend on the extent of the EAA update of July may be delayed if EAA priority of DCT at its May meeting.

CERP A refinement runs for RECOVER
 The schedule for CERP A Refinement effort redirect IMC staff to the EAA and SEIS support depend on pending decision regarding additional issue is being elevated for necessary coordination.
 GM-3/4 Technical Support methodologies. The work remains important a quantifying level of effort to complete. Based on team meeting, it is expected that the work will be necessary to seek reprioritization of the

Anticipated Work

Sub-regional IMC anticipates efforts in support of SDW reviews for several projects in the coming quarter address subregional needs is being addressed necessary, will be coordinated through the District been started or are scheduled to move forward analyses pilots, IMC Cluster project and ERD

Regional Modeling IMC anticipates 2 new major efforts in the near (1) SFVMM runs for ASR contingency (to be completed) (2) CERP Reservoir optimization details on Just beyond the 6 month window, IMC expects Sensitivity on behalf of RECOVER. This effort priority.

CERP PROGRAM-LEVEL ACTIVITIES

Monthly Progress Report

Report Date: 10-May-06 **Reporting Period:** 01-Apr-06 to 10-May-06

Program: Interagency Modeling Center

Program Managers: SFWMD: Akintunde Owosina

USACE: Larry Stout

Program Status (Green, Yellow, Red): YELLOW

Program Summary:

The IMC is tasked with implementing and or facilitating the modeling needs of the CERP Program. A PMP for the IMC was approved by the DCT in January 2004 and was executed on by SFWMD and USACE in February 2004.

Summary of Work Completed During This Reporting Period:

An IMC board meeting was conducted on March 29, 2006 in Jacksonville, FL. The next meeting of the IMC board is scheduled for May 11, 2006 in West Palm Beach, FL.

QRB met on April 4&5, 2006 in WPB. The IMC presented a status report and strategy for implementing the QRB's directive for application of the LECsR model by the IMC. A presentation on IMC was made at the SFWMD/USGS Cooperative Program Meeting on May 5th, 2006.

Sub-regional modeling reviews and services were completed for many CERP projects including the following: SEAGRASS model for FB/FKFS, Site 1 BODR, C23/24 STA DDR, MODBRANCH calibration and verification report for C-111 Spreader Canal, and back checks for IMC comments on Site 1 Groundwater TM, ecological evaluation for C-43 and SWFFS and 3 modeling memos. Regional modeling continued on the 2010 simulation, and for the CERP A Refinement. In addition, data requests and technical issue resolution meetings were completed for the EAA and C-43 projects.

Work Planned for Next Reporting Period:

The results of the customer satisfaction survey for CERP modeling services will be analyzed to see how the IMC can be more responsive to PDTs and RECOVER. IMC will follow up with review respondents that provided contact information. IMC managers will coordinate the finalization of the report on IMC business processes, and begin planning for the PMP update. Review of will be completed for the LECsR model, ASR bench-scale modeling report, and BBCW calibration report. A coordination meeting with ERDC will be conducted concerning the IMC review of the WASH123D modeling for the BBCW project. Regional modeling work will continue on the 2010 simulation, CERP A Refinement, and for the EAA Reservoir project and other PIR's as scheduled. The IMC will develop an updated workload assessment for FY06 based upon recently received project schedules for the streamlined PIR's and Acceler8 projects. IMC will continue to provide support for response to Draft PIR and SEIS comments for the EAA project. A presentation on IMC to the Task Force may be necessary at the May Task Force Meeting.

Potential or Active Issues and Actions Taken To Resolve Issues:

Modeling has taken a high profile in CERP with elevated attention to both IMC and non-IMC modeling. IMC staff participated in interview sessions with EPJV/JMJV team identified to develop recommendations to streamline modeling/planning process. In addition, IMC is considering enhanced liaison activities to preempt modeling issues. This will create staffing challenges; in house discussions have been initiated at both SFWMD and USACE on staffing within the past month. Uncertainty with regards to modeling support requirements of the streamlined PIRs, even after completion of the draft PIR, is an issue. IMC will continue to use DCT to prioritize modeling efforts when necessary. Space issues continue to be a major concern for which short term and long term solutions are required. New staff or contractors are expected in the IMC this year and the available spaces have been exhausted. The discussions with DOI on participation in the IMC have stalled due to loss of some key personnel in DOI. IMC has re-initiated contact with DOI concerning their participation in the IMC.

ended due date, completed was
 s completed on g led by Purvis II
 to go out May 5
 ed ahead of an NER listed in RTS enter issues.
 file review report to
 or task 1 and Task 3 and Task 4
 y EAA - Call made



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SUMMARY OF IMC SERVICES

MSR Received To-Date (2003 - Present):	217
<i>Completed:</i>	176
<i>Assigned / Ongoing:</i>	13
<i>Pending:</i>	7
<i>Terminated:</i>	21

Service Type:

<i>Simulation:</i>	55
<i>Review:</i>	109
<i>Data:</i>	53

**MSR could range from 6 month
SFWMM simulation project to 5
day modeling product review**



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CURRENT WORK EFFORTS

GM3/4 Team - Implement Methods for Other Water-Related Needs

RECOVER (SPOT) – CERP A Refinement

RECOVER (SPOT) – 2010 Scenario with Band 1 Projects

EAA (PIR/A8) – Miscellaneous SFWMM Simulations/Support

RECOVER – Code Development for LO-3 & 2 Lake Stage Envelope
Performance Measures

Biscayne Bay Coastal Wetlands - Review of WASH123D Calibration Rpt.

Florida Bay/Keys Feasibility Study - TIME model support

C-111 Spreader Canal Project - Review of MODBRANCH 2006 calibration

Regional ASR Project - Review & Feedback Regarding the Benchscale
Modeling Report

North Palm Beach County, Part 1 - PEER Review of LECsR Model



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QUESTIONS

Thank you!