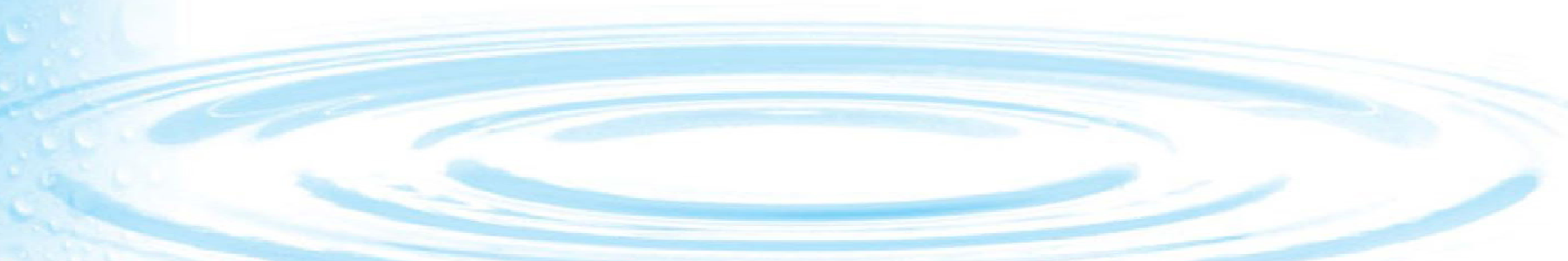


CFWI Hydrologic Analysis Team Status

December 2, 2011

Presented by Akintunde Owosina



Progress Since Last Briefing (1)

- The HAT met (Oct. 4, 13, and 27, Nov. 10, 15, 22 and 29)
 - Continued discussion on options to link environmental information and hydrologic analysis and define environmental reference condition.
 - Developed detailed schedule and identified early and late completion dates as well as individuals responsible for delivering work product.
 - HAT representatives participated in TOC and joint MOC/TOC meetings.
 - HAT members conducted field visits to selected wetland and lakes of interest in the CFWI area.
- Met with USGS (Oct. 18)
 - Reviewed USGS deliverable of the transient calibration and provided comments and feedback that were incorporated in the final deliverable.

Progress Since Last Briefing (2)

- CFWI work plan development
 - Received provisional model output data from the USGS.
 - Made arrangements to provide access to the model to the HAT by January 2012. The details will be contained in a technology transfer memo due by end of December.
 - Drafted modeling related tasks for “Groundwater Availability Determination.”

Anticipated Work for Next Reporting Period

- Review and finalize draft white paper documenting historic water use and representation in model for calibration and Availability Determination.
- Initiate development of the post processing tools for the USGS ECFT model.
- Continue collaboration with EMT on relating simulated and observed wetland changes to withdrawals.
- Provide HAT input to finalizing schedule and overall integrated schedule of the CFWI through Technical Oversight Team.

Anticipated Work for Next Reporting Period (2)

- Initiate testing of the USGS model per the approved technology transfer protocol.
- Initiate testing of reference condition straw man.
- Meet with USGS on December 15th to review progress and results of the Data Mining and Artificial Neural Network tasks.

Status of Key Activities

- Progress of USGS model
 - Calibration scheduled completion date September 30, 2011. Followed by report preparation (**January 31, 2012**) and internal USGS review (February – April **30, 2012**).
 - ✓ Calibration completed and under final review (Nov. 23, 2011).
 - ✓ Draft documentation on track for end of January completion.
- Delivery of USGS model
 - Model output files delivered to SFWMD to initiate the post processing tool development effort.
 - Technology transfer protocol memorandum under development and will be completed by Dec 30, 2011.

USGS Model Delivery Schedule

Calendar Years	2011				2012								
Fiscal Years	2011	2012											
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ECFT Model:													
Calibration completed													
Draft report preparation for review													
Technology Transfer			◆										
Report review & approval													
Final Report preparation & distribution													
Data Mining:													
ANNs/DSS development & completion													
ANN/MODFLOW comparison													
Draft report preparation for review													
Technology transfer													
Report review & approval													
Final Report preparation & distribution													

ANN: Artificial Neural Network.
 DSS: Decision Support System.

USGS Model Delivery Schedule

Calendar Years	2011				2012									
Fiscal Years	2011	2012												
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
ECFT Model:														
Calibration completed	█	█	█											
Draft report preparation for review		█	█	█	█									
Technology Transfer			◆		█	█	█	█						
Report review & approval					█	█	█	█						
Final Report preparation & distribution								█	█					
Data Mining:														
Water Use data compilation	█													
Water Use data preparation		█	█											
ANNs/DSS development & completion	█	█	█	◆	█	█								
ANN/MODFLOW comparison		█	█	█	█	█								
Draft report preparation for review		█	█	█	█	█	█							
Technology transfer							█	█	█	█				
Report review & approval							█	█	█	█				
Final Report preparation & distribution											█	█	█	



ANN: Artificial Neural Network
 DSS: Decision Support System

Status of Key Activities

Technical Collaborative Team	Key Components	Start	End	Status
Hydrologic Analysis Team ----- Modeling and Tools Support (A)	Key Components Model Calibration (A1)		9/30/11	Completed: Calibration completed November 23 rd . HAT comments provided on Oct 18 th were taken into consideration in final calibration. Draft documentation is in progress for internal USGS colleague review.
	- Technology Transfer Protocol (A1B)	11/10/11	12/30/11	Ongoing: Clarification of new task occurred between 11/7/2011 and 11/10/2011. A memo summarizing Technology Transfer protocol will be complete by the end of Dec 2011.
	Statistical Trends in Hydrologic Data (A2)		2/28/12	Ongoing: January deliverable expected from INTERA on the statistical analyses. Additional work to couple the statistical results to other hydrologic data in a GIS data base will occur before the end of February.
	USGS Project to Quantify Factors Affecting Groundwater and Lake Levels in the Central Florida Area (A3)		6/30/12	Ongoing: The USGS ANN is ongoing and a meeting with the HAT to present the completed local models is scheduled for December 15th. Anticipate the A3 activities will be complete by 2/28/2012. Technology transfer and documentation will follow.
	Initial Model Scenarios (A4)		4/30/12	
	Documentation (A5)		5/30/12	

Status of Key Activities

End	Status
9/30/11	<p>Completed: Calibration completed November 23rd. HAT comments provided on Oct 18th were taken into consideration in final calibration. Draft documentation is in progress for internal USGS colleague review.</p>
12/30/11	<p>Ongoing: Clarification of new task occurred between 11/7/2011 and 11/10/2011. A memo summarizing Technology Transfer protocol will be complete by the end of Dec 2011.</p>
2/28/12	<p>Ongoing: January deliverable expected from INTERA on the statistical analyses. Additional work to couple the statistical results to other hydrologic data in a GIS data base will occur before the end of February.</p>
6/30/12	<p>Ongoing: The USGS ANN is ongoing and a meeting with the HAT to present the completed local models is scheduled for December 15th. Anticipate the A3 activities will be complete by 2/28/2012. Technology transfer and documentation will follow.</p>

Questions

