



Rose, Shanna <slrose@usgs.gov>

11451800 15 wy GCLAS draft computations

O'halloran, Denis <dohall@usgs.gov>

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To: "Alpers, Charlie" <cnalpers@usgs.gov>, Shanna Rose <slrose@usgs.gov>

I have wrapped up what I can do today on this project:
I'm attaching a few files and brief out line of what I did and saw.

- 1) created a GCLAS file of all samples Projects and FO) and **15 min Discharge** form Andy's computations (but **only Projects samples were used for sed comps**)
- 2) created a GCLAS file of all samples Projects and FO) and **daily mean Discharge** from Andy's computations (and both FO and Projects samples used for sed comps with **no estimates or unused samples**)
- 3) created a GCLAS file of all samples Projects and FO) and **15 min Discharge** from Andy's computations (and **both FO and Projects samples used for sed comps with no estimates or unused samples**)
- 4) created a GCLAS file of all samples Projects and FO) and **15 min Discharge** from Andy's computations(**both FO and Projects samples used for sed comps with "minimal" added gclas ssc estimate points (for peaks and troughs, samples gap 12/20-31, and a few samples not used for comps)**)

Results for 4 Gclas comps:

Interesting comparing the 4 processes and % load difference:

Annual Discharge Total	Annual Mean SSC	Annual load	% diff from #4
1) 52400	509	232,000	-13%
2) 52400	171	222,000	-17%
3) 52400	148	254,000	-5%
4) 52400	139	267,000	

Projects obviously sample the high events more thoroughly than FO so had the higher SSC mean.
Many Point samples seemed to plot higher than X-s samples - some lined up well but I didn't do a thorough analysis of this and making some decisions on these discrepancies would be time consuming and not sure how much affect this would have on annual load.

Attaching :

All from GCLAS # 4 run:
DV outputs (2 .rdb's)
UV outputs (2 UV.load and UV.ssc .txt files)
Daily Summary for 2015 (ty4 gclas Raw estimates)

Screenshots form GCLAS
SedTransport Plot screenshot

Final .gpf file for GCLAS

I'm heading out mid afternoon on a trip so won't be available after that to discuss any of this until 9/4.

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Denis O'Halloran
Sediment Data Specialist/FERC Coordinator
US Geological Survey
6000 J. St , Placer Hall
Sacramento, CA 95819
Office (Mon,Wed) (916) 278-3168
Cell (Tu,Thur,Fri) (530) 412-0578

8 attachments

 **1145180.15gclasUV.conc.txt**
860K

**11451800.15dvSSCRawestimategclas.rdb**

7K

**11451800.15dvloadsRawestimategclas.rdb**

7K

**11451800.15gclasUV.load.txt**

860K

**11451800.15ty4gclasRawestimates.txt**

14K

**11451800.15WYSCREENSHOTsgclasWITHAFEWESTIMATES.docx**

673K

**11451800.15wyGCLASsedTransportPlotallsamples.docx**

52K

**11451800.15WYgclasfoFO andProjects witha few ESTIMATEs and Removals.gpf**

382K