



Potential Spring High Flow Experiment (HFE) – Status of Resources and Experimental Plan

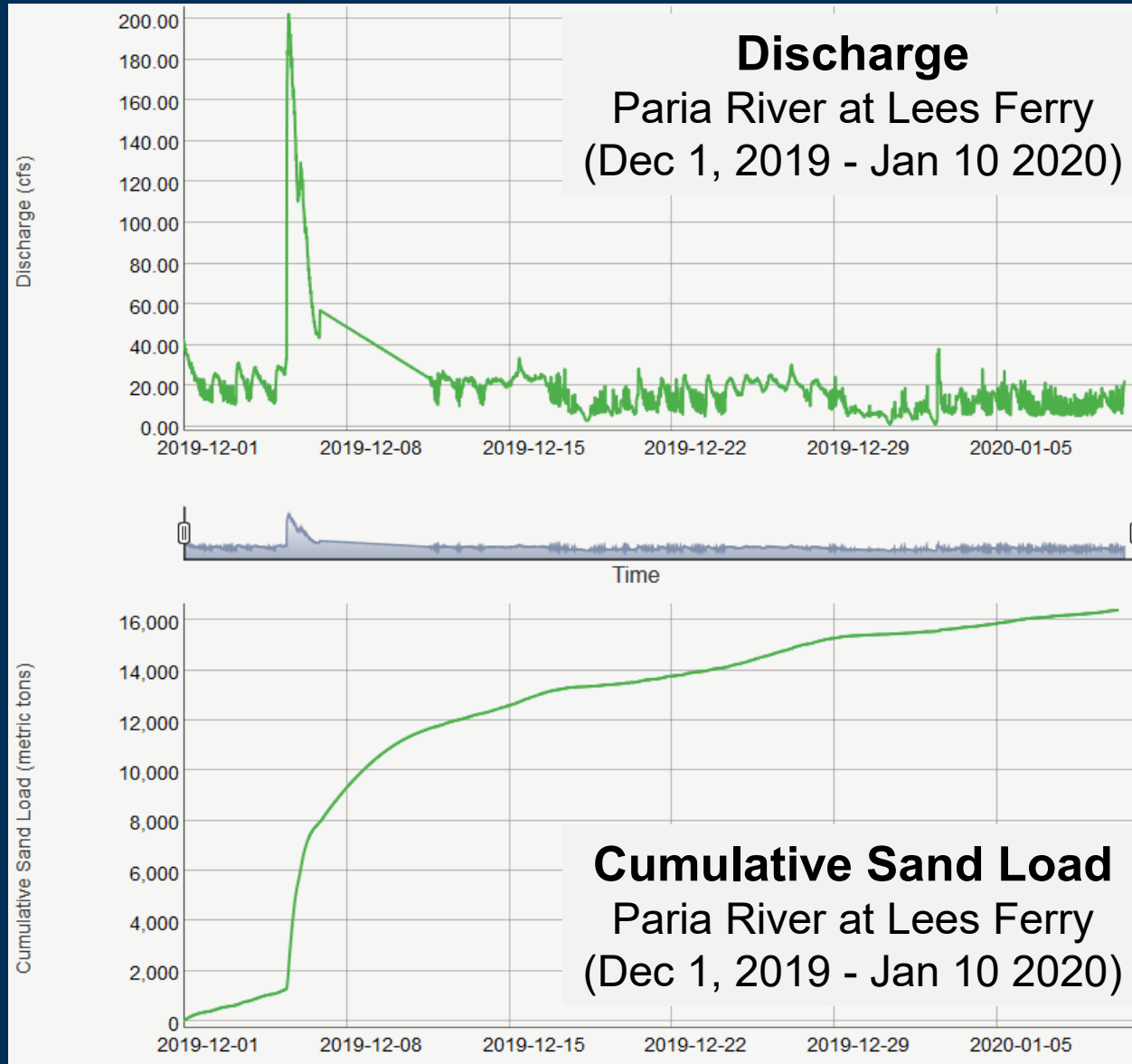
Technical Work Group Meeting
January 15, 2020

Scott VanderKooi

Southwest Biological Science Center

Grand Canyon Monitoring and Research Center

Paria River Discharge & Sediment Inputs

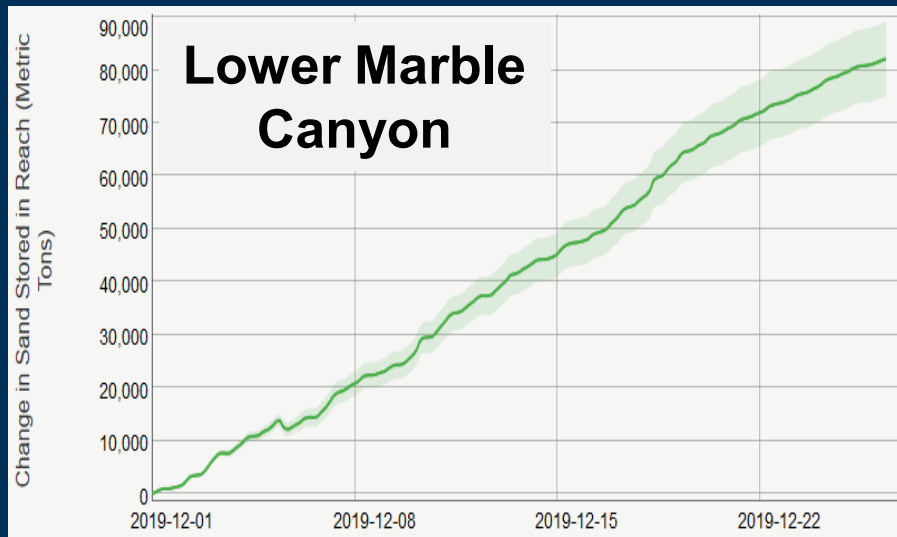
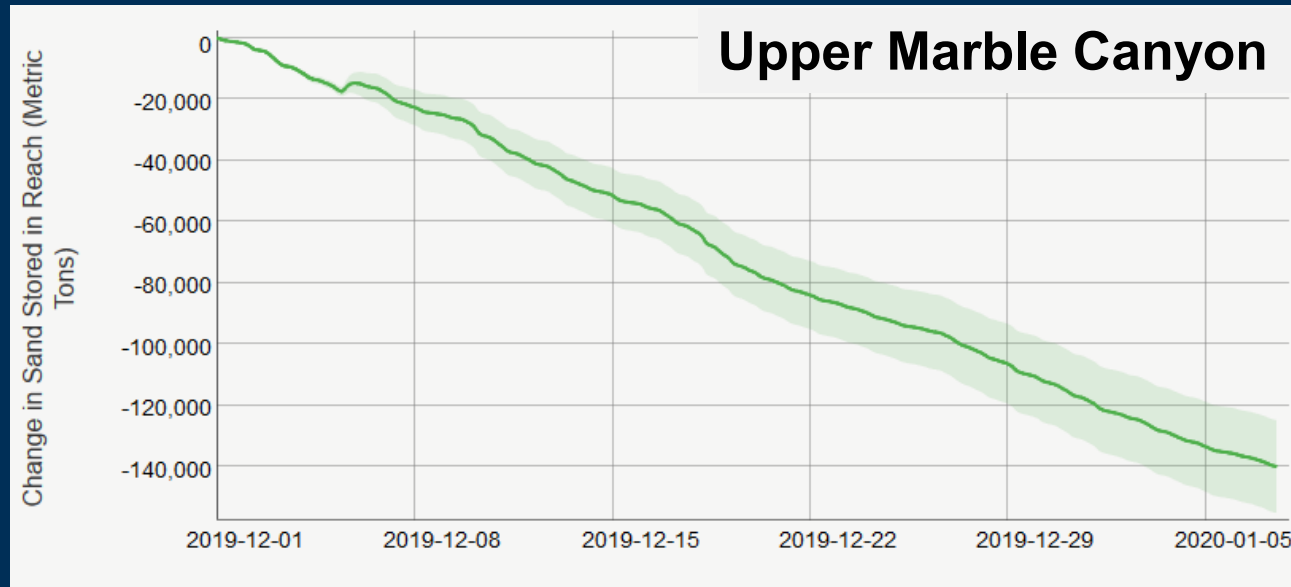


USGS Preliminary Data, 2020. Do Not Cite.

(https://www.gcmrc.gov/discharge_qw_sediment/station/GCDAMP/09382000#)

Jan. 15, 2020

Marble Canyon Sand Mass Balance



USGS Preliminary Data, 2020. Do Not Cite.

(https://www.gcmrc.gov/discharge_qw_sediment/reach/GCDAMP/09380000/09383050,
https://www.gcmrc.gov/discharge_qw_sediment/reach/GCDAMP/09383050/09383100)

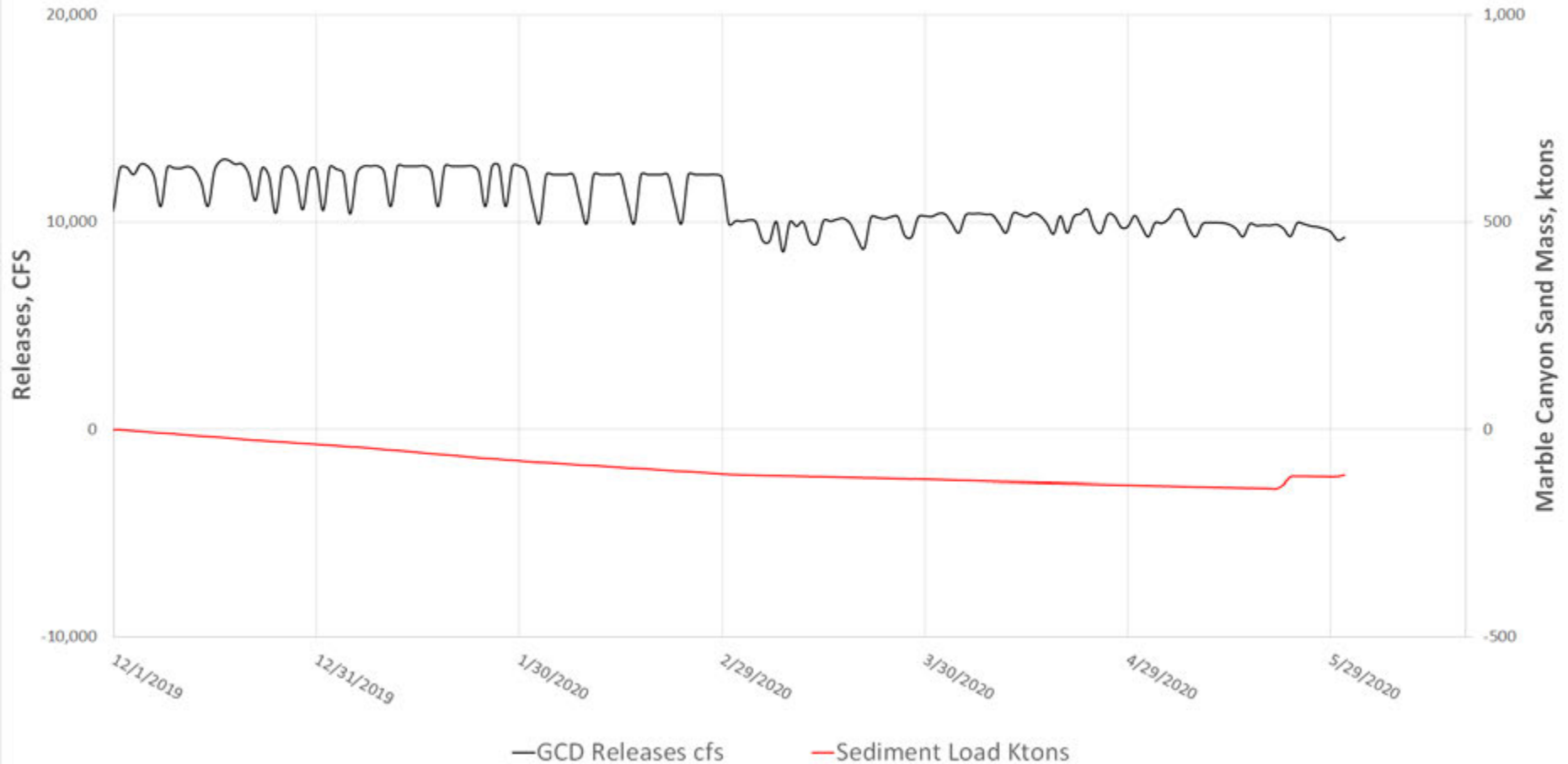
Jan. 15, 2020

Sand Budget Model Results

Actual Flow as of 1/7/2020 00:00
Actual Sediment data as of 1/7/2020 5:00
Graph Updated 1/9/2020 10:10
GCMRC's most recent Lab Results of
Suspended Sediment as of 9/4/2019

Sand Budget Model Results, Dec 2019-May 31, 2020 Release and Calculated Sediment Load in Colorado River, Marble Canyon

The model indicates that currently there is not sufficient sediment to support and HFE.



Plot courtesy Keri Stout, USBR
Preliminary Data, 2020. Do Not Cite.

Jan. 15, 2020

Monitoring

- Resource monitoring as outlined in FY2018-20 Triennial Workplan
 - Sediment transport and discharge
 - Additional spring sediment monitoring trip
 - Sandbars
 - Native and nonnative fishes
 - Aquatic foodbase
 - Riparian vegetation
 - Cultural resources

Questions?

