

Glen Canyon Dam Adaptive Management Program Annual Reporting Meeting 2021

WebEx: <https://bor.webex.com/bor/j.php?MTID=mb12e3159360158cb8099dac6cbc22c74>

Meeting # 199 863 7739

Password: **AR20**

Phone: (415) 524-5035 Access code: 199 863 7739

TIME	Wednesday, January 20, 2021
8:30 – 8:40 (:10)	Welcome and Administrative: Seth Shanahan, Technical Work Group (TWG) Chair <ul style="list-style-type: none"> • Introductions: Michael Moran, Deputy Chief, USGS GCMRC
Modeling Tools for Management	
8:40 – 9:00 (:20)	Mike Runge, USGS Patuxent Wildlife Research Center , Introduction to modeling tools for adaptive management
9:00 – 9:15 (:15)	Brad Butterfield, NAU , Riparian vegetation
9:20 – 9:35 (:15)	Charles Yackulic, USGS GCMRC , Fish populations in Lees Ferry and the Little Colorado River
9:40 – 9:55 (:15)	Kim Dibble, USGS GCMRC , Fish populations in the Western Grand Canyon
10:00 – 10:20 (:20)	BREAK
10:20 – 10:35 (:15)	Paul Grams, USGS GCMRC , Sediment in the Grand Canyon
10:40 – 10:55 (:15)	Lucas Bair, USGS GCMRC , Recreational use in Glen and Grand Canyons
11:00 – 11:15 (:15)	Clayton Palmer, WAPA , Hydropower
11:20 – 12:00 (:40)	Panel Discussion, Modeling Tools for Management: Mike Runge, Charles Yackulic, and Lucas Bair, moderators
12:00 – 12:45 (:45)	LUNCH
Humpback Chub and Other Native Fish	
12:45 – 1:45 (:60)	Maria Dzul, USGS GCMRC, Randy VanHaverbeke, USFWS , Humpback chub in the Grand Canyon
1:50 – 2:10 (:20)	Brian Healy, NPS , Humpback chub translocations
2:15 – 2:35 (:20)	Dave Rogowski, AGFD , Colorado River native and nonnative fish abundance and distribution including Pearce Ferry rapid
2:35 – 2:50 (:15)	Stakeholder Discussion: Management implications of humpback chub and other native fish monitoring and research: TBD, moderator
2:50 – 3:05 (:15)	BREAK
Water Quality/Ecosystem Drivers/Aquatic Food Base	
3:05 – 3:25 (:20)	Bridget Deemer, USGS GCMRC , Flows and phosphorus: the influence of Lake Powell on primary production dynamics in the Colorado River
3:30 – 3:50 (:20)	Jeff Muehlbauer and Ted Kennedy, USGS GCMRC , Bug flows 2020
3:50 – 4:05 (:15)	Stakeholder Discussion: Management implications of water quality, ecosystem drivers, and aquatic food base monitoring and research, TBD, moderator
Rainbow Trout Fishery	
4:05 – 4:25 (:20)	Jan Boyer, AGFD , Lees Ferry fishery monitoring
4:30 – 4:50 (:20)	Mike Yard, USGS GCMRC , Rainbow trout in Glen and Grand canyons
4:50 – 5:05 (:15)	Stakeholder Discussion: Management implications of rainbow trout fishery monitoring and research: TBD, moderator
5:05	Adjourn
5:30 – 7:00	POSTER SESSION (list of posters attached)

Poster Session: 5:30 – 6:30 PM

[Click Here for Poster Session](#)

Poster Title	Author
Water Quality/Ecosystem Drivers/Aquatic Food Base	
Sources and forms of phosphorus in the Colorado River in Grand Canyon: Lightning talk at 5:30 PM	Somer Morris, USGS GCMRC
Thermal tolerance and riverbed drying resistance of a pestiferous net-spinning caddisfly, <i>Smicridea fasciatella</i> , below the Davis Dam: Lightning talk at 5:45 PM	Michael Cavallaro, Bullhead City, AZ
Archaeological Resources/Riparian Vegetation/Hydropower and Energy	
Vegetation monitoring, status and trends: Lightning talk at 6:00 PM	Emily Palmquist, USGS GCMRC, Brad Butterfield NAU, and Erica Fraley, USGS GCMRC
Nonnative Invasive Species	
Effects of common carp predation on survival of humpback chub eggs and larvae: Lightning talk at 6:15 PM	David Ward, USGS GCMRC

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WebEx: <https://bor.webex.com/bor/j.php?MTID=maf32ead06e432fa4935ec92e3b393c8e>

Meeting Number: 199 678 0474

Password: **AR21**

Phone Number: 415-527-5035

Access Code: 199 678 0474

TIME	Thursday, January 21, 2021
8:30 – 8:40 (:10)	Welcome and Administrative: Seth Shanahan, TWG Chair <ul style="list-style-type: none"> • Introductions: Scott VanderKooi, Chief, USGS, GMCRC
Tribal Resources	
8:40 – 9:00 (:20)	Lucas Bair, USGS GCMRC , Incorporating tribal knowledge and preferences into adaptive management: A survey of the Hualapai Tribe
9:00 – 9:15 (:15)	Kurt Dongoske, Pueblo of Zuni , Place, time, and consciousness in the Glen Canyon Dam Adaptive Management Program (Session organizer), Introduction to session
9:15 – 9:35 (:20)	Giorgio Hadi Curti, San Diego State , What does science do? A disparate dance of states of affairs and cartographic events
9:35 – 9:55 (:20)	Edward Wemytewa, Pueblo of Zuni
9:55 – 10:15 (:20)	Lucas Bair, Emily Palmquist, and Charles Yackulic, USGS GCMRC
10:15 – 10:35 (:20)	Simone Athayde, Amazon Dams Network
10:35 – 10:55 (:20)	Claire Smith, Flinders University, Australia
10:55 – 11:15 (:20)	Rebecca Tsosie, James E. Rogers College of Law, University of Arizona , Discussant
11:15 – 101:45 (:30)	Panel Discussion: Place, time, and consciousness in the Glen Canyon Dam Adaptive Management Program , Kurt Dongoske, Pueblo of Zuni
11:45 – 12:30 (:45)	LUNCH
Sediment, Sandbars, and Geomorphology	
12:30 – 12:50 (:20)	David Topping, USGS GCMRC , The long-term sustainability of sand resources in the Colorado River ecosystem remains an open question
12:55 – 1:15 (:20)	Paul Grams, USGS GCMRC , The effects of high-flow experiments and dam releases on sandbar erosion and deposition in Marble and Grand Canyons
1:20 – 1:40 (:20)	Alan Kasprak, Fort Lewis College , Future regulated flows of the Colorado River in Grand Canyon foretell decreased areal extent of sediment and increases in riparian vegetation
1:40 – 1:55 (:15)	Stakeholder Discussion: Management implications of sediment, sand bars, and geomorphology monitoring and research: TBD, moderator
Archaeological Resources/Riparian Vegetation/Hydropower and Energy	
1:55 – 2:15 (:20)	Lonnie Pilkington, NPS and Joel Sankey USGS GCMRC , Vegetation management in the Grand Canyon
2:20 – 2:40 (:20)	Helen Fairley, USGS GCMRC , Using repeat photography to document dam operation effects on sand supply, aeolian landscapes, and terrestrial ecology in the Colorado River Ecosystem
2:45 – 3:05 (:20)	Clayton Palmer, WAPA , Glen Canyon Dam hydropower production – status, trends, and experiments
3:05 – 3:20 (:15)	Stakeholder Discussion: Management implications of archeological resources, riparian vegetation, and hydropower and energy monitoring and research: TBD, moderator
3:20 – 3:40 (:20)	BREAK
Nonnative Invasive Species	
3:40 – 4:00 (:20)	David Ward, USGS GCMRC , Assessing relative predation risks to native fishes from introduced warm-water predators
4:05 – 4:25 (:20)	Brian Healy, NPS , Brown trout control
4:30 – 4:50 (:20)	Charles Yackulic, USGS GCMRC , Brown trout population modeling
4:50 – 5:05 (:15)	Stakeholder Discussion: Management implications of nonnative invasive fish monitoring and research: TBD, moderator
5:05	Adjourn