

Glen Canyon Dam Adaptive Management Program Annual Reporting Meeting 2018

Grand Canyon Monitoring and Research Center, Building 3, Room 367

TIME	Tuesday, March 6, 2018
9:30 – 9:40 (:10)	Welcome and Administrative: Seth Shanahan, Technical Work Group (TWG) Chair <ul style="list-style-type: none"> • Introductions: Michael Moran, Deputy Chief, GCMRC
Sediment/Archeological and Cultural Resources	
9:40 – 10:00 (:20)	2017 Hualapai zebra-tailed lizard monitoring , Kerry Christensen, Hualapai tribe
10:05 – 10:35 (:30)	Key drivers of sand transport and storage in the Colorado River Ecosystem , David Topping, USGS, GCMRC
10:40 – 11:10 (:30)	Sandbar and sand storage monitoring and research , Paul Grams, USGS, GCMRC
11:10 – 11:30 (:20)	Stakeholder Discussion: Management implications of sediment, sand bars, and geomorphology monitoring and research: Paul Grams, moderator
11:30 – 12:45 (1:15)	LUNCH
Hydropower and Energy	
12:45 – 1:05 (:20)	Status of hydropower resources , Clayton Palmer, WAPA
1:05 – 1:15 (:10)	Stakeholder Discussion: Management implications of hydropower research , Clayton Palmer, moderator
Recreational Experience	
1:15 – 1:35 (:20)	What's it worth? A survey of GCDAMP economic surveys and their usefulness in decision making , Lucas Bair, USGS, GCMRC
1:35 – 1:45 (:10)	Stakeholder Discussion: Management implications of recreational research , Ben Reeder, moderator
Riparian Vegetation/Tribal Resources	
1:45 – 2:05 (:20)	Riparian vegetation monitoring and research in the Colorado River Ecosystem , Brad Butterfield, NAU
2:10 – 2:30 (:20)	2017 Hualapai river monitoring , Carrie Cannon, Hualapai tribe
2:30 – 2:45 (:15)	Stakeholder Discussion: Management implications of riparian vegetation and tribal resources monitoring and research: Helen Fairley, moderator
2:45 – 3:00 (:15)	BREAK
Aquatic Food Base	
3:00 – 3:15 (:15)	Aquatic foodbase ecology in the regulated Colorado River ecosystem , Larry Stevens, Spring Stewardship Institute
3:20 – 3:35 (:15)	Shedding light on aquatic insects of the Colorado River Basin with citizen science , Anya Metcalfe, USGS, GCMRC
3:40 – 4:00 (:20)	Bug flow optimizations and predictions , Jeff Muehlbauer, USGS, GCMRC
4:00 – 4:15 (:15)	Stakeholder Discussion: Management implications of aquatic food base monitoring and research: Ted Kennedy, moderator
4:15 – 4:35 (:20)	Lightning presentations of poster topics
4:35	Adjourn
5:30 – 7:30	POSTER SESSION (list of posters attached)

Poster Session - Little America Hotel, Ponderosa Room, 5:30-7:30 PM

Poster Title	Author
Sediment/Archeological and Cultural Resources	
Monitoring Sandbars with Automated Digital Cameras	Ryan Lima, Daniel Buscombe, Joe Hazel, and Paul Grams
Estimating Sediment Thickness from Riverbed to Bedrock within the Colorado River in the Grand Canyon	Andrew Platt, Daniel Buscombe, Ryan Porter, and Paul Grams
The Effect of Topographic Survey Technique and Resolution on the Interpretation of Geomorphic Change in River Valleys	Alan Kasprak
Identification of discontinuous sand pulses on the bed of the Colorado River in Grand Canyon	Paul Grams, Daniel Buscombe, David Topping, and Erich Mueller
The Glen Canyon reach cultural resource monitoring and protection program	Kenneth Hyde and Brian Harmon
Hydropower and Energy/Recreational Experience	
Financial effect of GCD operations on tribes and tribal members	Clayton Palmer
Riparian Vegetation/Tribal Resources	
Hopi Monitoring Results	Mike Yeatts
Ground-based riparian vegetation monitoring and research	Sarah Sterner
Documenting Glen Canyon Dam effects to culturally-valued riparian vegetation using repeat photography	Helen Fairley
Landscape scale riparian vegetation mapping and analysis using remotely sensed data	Laura Durning
Nonnative Invasive Species	
Asian Tapeworm infestation of Humpback Chub in the Little Colorado River	David Ward
Brown trout control at Bright Angel Creek	Brian Healy
Natural Processes	
Hydropower and the Aquatic-Terrestrial Dynamic Downstream of Glen Canyon Dam	Christina Lupoli
Preliminary results from a citizen science bat acoustic survey in Grand Canyon	Carol Fritzinger
Rainbow Trout Fishery	
Are Hatchery-Reared Rainbow Trout and Brown Trout Effective Predators on Juvenile Native Fish?	David Ward, Ben Vaage and Rylan Morton-Starner
Humpback Chub/Other Native Fish	
Humpback chub translocations	Emily Omana, Brian Healy
Native Fishes of the Grand Canyon--informal educational outreach	Howard Brandenburg
Data Stewardship	
GCDAMP Wiki	Craig Ellsworth

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TIME	Wednesday, March 7, 2018
8:30 – 8:40 (:10)	Welcome and Administrative: Seth Shanahan, TWG Chair <ul style="list-style-type: none"> • Introductions: Scott VanderKooi, Chief, USGS, GCMRC
Water Quality	
8:40 – 9:00 (:20)	Temperature and nutrients as ecosystem drivers in the Colorado River, Charles Yackulic, USGS, GCMRC
9:05 – 9:20 (:15)	Lake Powell as a Regulator of Riverine Ecosystem Drivers-- Temperature Dynamics, Kim Dibble, USGS, GCMRC
9:25 – 9:40 (:15)	Lake Powell as a Regulator of Riverine Ecosystem Drivers-- Nutrient Dynamics, Bridget Deemer, USGS, GCMRC
9:40 – 10:00 (:20)	Stakeholder Discussion: Management implications of water quality and nutrients monitoring and research: Charles Yackulic, moderator
10:00 – 10:15 (:15)	BREAK
Rainbow Trout Fishery	
10:15 – 10:45 (:30)	Rainbow trout recruitment and growth dynamics in Glen Canyon, brown trout in Glen Canyon, and recent observations of outmigration of rainbow trout from Glen Canyon, Josh Korman, EcoMetric
10:50 – 11:10 (:20)	Rainbow Trout Fishery in Lees Ferry, Dave Rogowski, AZGFD
11:10 – 11:30 (:20)	Stakeholder Discussion: Management implications of rainbow trout fishery monitoring and research: Josh Korman, moderator
11:30 – 12:45 (1:15)	LUNCH
Nonnative Invasive Species	
12:45 – 1:05 (:20)	Turbidity as a tool for fish control of nonnative predatory fishes in the Colorado River, David Ward and Ken Sheehan, USGS, GCMRC
1:10 – 1:30 (:20)	Invasive and other non-native species of the Lees Ferry Reach of the Colorado River, Mark Anderson and Ken Hyde, NPS
1:35 – 1:55 (:20)	Brown trout telemetry, Bob Schelly, NPS
1:55 – 2:15 (:20)	Stakeholder Discussion: Management implications of invasive and other non-native fish monitoring and research: David Ward, moderator
Humpback Chub/Other Native Fish	
2:15 – 2:35 (:20)	Drivers of humpback chub population dynamics, Charles Yackulic, Mike Yard, USGS, GCMRC
2:40 – 3:00 (:20)	Modeling humpback chub, adaptive management and LTEMP experiments, Lucas Bair, USGS, GCMRC
3:05 – 3:20 (:15)	BREAK
3:20 – 3:45 (:25)	Razorback sucker <i>Xyrauchen texanus</i> research and monitoring in the Colorado River inflow area of Lake Mead and Grand Canyon, Arizona and Nevada, Howard Brandenburg, ASIR
3:50 – 4:10 (:20)	Fish distribution in the Grand Canyon, Jan Boyer, AZGFD
4:15 – 4:30 (:15)	Stakeholder Discussion: Management implications of humpback chub and other native fish monitoring and research: Howard Brandenburg, moderator
4:30	Adjourn