

Glen Canyon Dam Release Temperatures

Water Year 2004
Update

Model Simulations & Downstream Monitoring

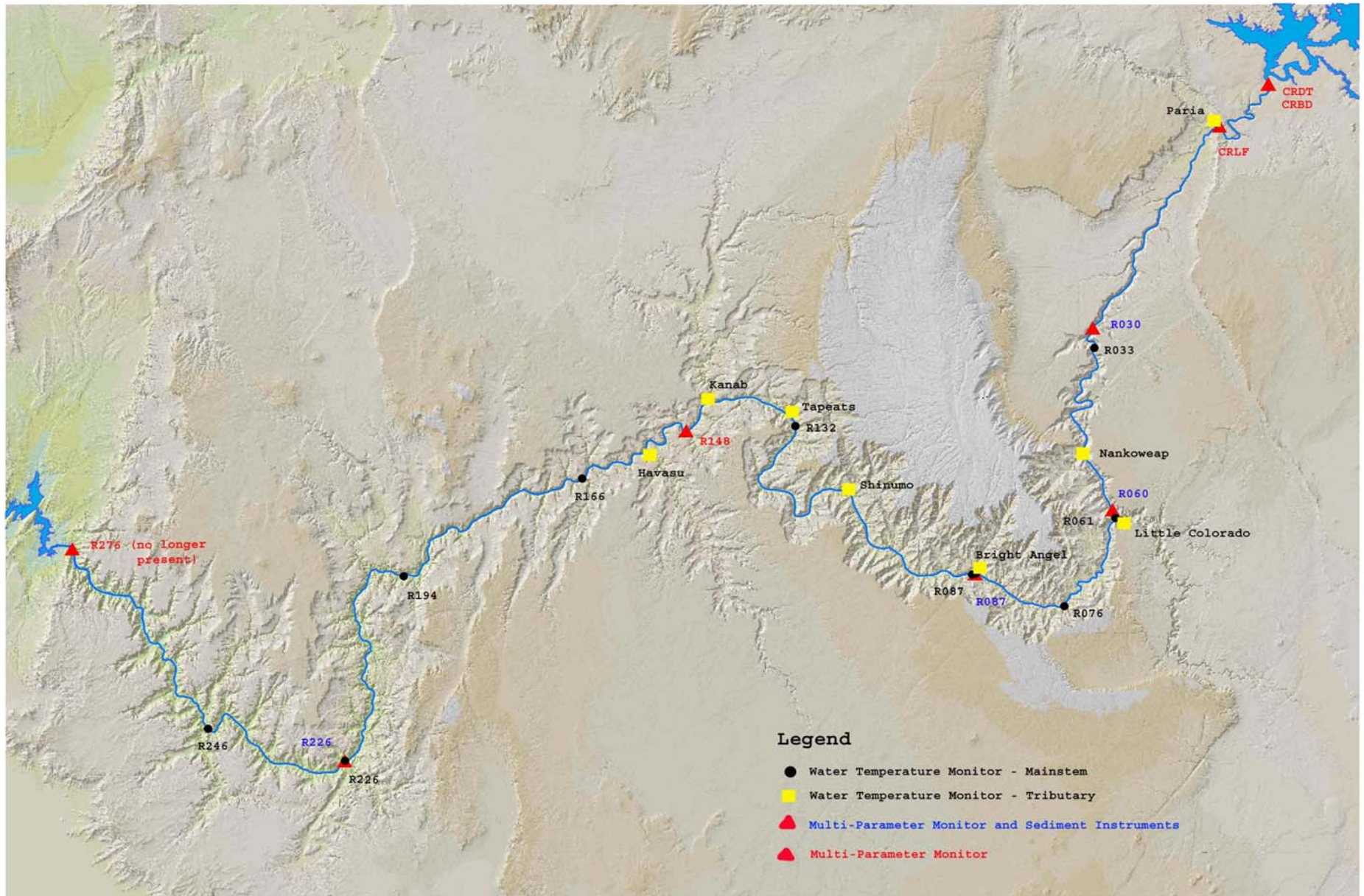
Presented by
Ted Melis

Glen Canyon Dam Release Temperatures Water Year 2004 (Model Simulations & Monitoring)

Bureau of Reclamation Simulations – using current runoff forecast, release temperatures are predicted to reach about 10 to 11 degrees in August, but not predicted to exceed 12 or 13 degrees by December 2004 (CEQUAL + '92-'95 meteorology)

Downstream Quality of Water – current monitoring network is designed for main channel & tributaries, but require additional elements to measure thermal responses in near-shore habitats such as backwaters (See handout showing current locations where QW data are being obtained & location map)

Water Quality Instruments Downstream of Glen Canyon Dam



See Handout with Table Showing Specific Details

Additional Monitoring for Temperatures Water Year 2004 (Backwaters)

Monitoring Near-Shore Temperatures – planning for additional near-shore warming data is underway by the GCMRC within key reaches, if temperatures were to significantly exceed the current predictions during Summer 2004:

Possible Replication of 2000 Study Sites & Methods
placement of thermistor strings within aquatic habitats monitored for the 2000 LSSF thermal treatment

Possible Additional Overflights infrared mapping sensor to define warmed areas of river if constant flows were to occur after sediment trigger