

**Enhance Acoustic Telemetry Project Management Team**

Meets Bi-weekly December 2017-present

Members- Staff from NMFS SWFSC, NMFS WCR, USGS, BOR, CDFW, UCD, UCSC

Facilitator- NMFS WCR (Joe Heublein)

**Goal:**

- Manage current funded effort and deliverables associated with IEP workplan element 2018-333 *Enhanced Acoustic Tagging, Analysis, and Real-Time Monitoring (E. Danner, NMFS SWFSC)*:
  - deployment and maintenance of 416khz (JSATS) and 69khz (VR2) receiver arrays in the Sacramento River and Bay-Delta
  - implantation of JSATS tags in multiple juvenile Chinook salmon release groups
  - develop platform for public and resource manager access to telemetry data
- Coordinate with other acoustic telemetry efforts to share resources, data, etc.:
  - IEP 2018-322 Estimating Abundance of Juvenile Winter-run Chinook Salmon Entering and Exiting the Delta (SAIL)- P. Brandes, USFWS
  - DSP 2018- San Joaquin River Chinook Salmon Migration and Survival- UCD
  - USGS Delta Real-time Acoustic Monitoring System (DREAMS)
  - USFWS- sturgeon acoustic telemetry in the San Joaquin River
  - DWR- adult salmon and sturgeon acoustic telemetry in the Yolo Bypass and Feather River
  - CDFW- adult salmon and sturgeon acoustic telemetry in the Yuba and American rivers, juvenile sturgeon acoustic telemetry in the Bay-Delta
  - USFWS- juvenile green sturgeon acoustic telemetry (Red Bluff)

**Accomplishments:**

- JSATS and VR2 receivers deployed at planned locations plus additional locations for potential WIIN monitoring in Old and Middle rivers (still updating real-time receiver hardware at some sites).
- Websites with real-time and some archived detection data online.
- Tagged Chinook salmon successfully released and generating survival, routing, and abundance estimates (in some cases).
- Ongoing coordination and sharing of data with projects listed above.

**Future Issues and Potential Directions:**

- Project ends in December 2018. Majority of JSATS receiver equipment owned by BOR.
  - Receivers could be maintained by another group.
  - NMFS SWFSC plans to continue tagging studies, data analysis, and data dissemination.
- USGS DREAMS planning to deploy fixed real-time JSATS receiver stations throughout Delta with associated routing and survival models.
  - Timing on DREAMS uncertain and limited to the Delta (i.e. Sacramento/Vernalis to Chipps Island).
  - Not associated with programmatic tag implantation or data plan (NMFS SWFSC focus)
  - Not specific to WIIN Act information needs (but could be applicable with possible modifications)