Featured Project
Entrainment Risk Study - Central CA
Objective: Estimate risk of fish entrainment using split-beam sonar at multiple, remote hydropower plant water intakes.

System performance was monitored remotely from Seattle offices.
Hydro Relicensing – American River, CA

Hydroacoustic Equipment Description:
DT-X digital scientific echosounder
3 digital split beam transducers – 420 kHz
Custom designed transducer mounts for monitoring under fluctuating water levels.
Rack mount data collection computer with dual RAID storage
LCD flat panel monitor
Modem for communication
Hydro Relicensing – American River, CA

Diver for mounting transducers inside tunnel entrance.

Custom transducer mounts for variable water levels.

Cables routed through heavy duty conduit.
Direction of fish travel and depth location relative to the intakes were assessed. Direction of fish travel within the acoustic beam was translated into a compass angle. Fish traveling at angles towards the intake and at depth of intake were assumed to be entrained.
BioSonics is...

A consulting, engineering and manufacturing firm with over 30 years experience.

Specialized in the application of hydroacoustic technology for monitoring and assessment of aquatic biological resources.

A turnkey solutions provider of sonar systems and services including study design, installation, data processing, and reporting.

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