



## CALL FOR PAPERS: DEADLINE - MAY 31ST, 2006

Participants should submit Extended Abstracts on-line for both **Oral** and **Poster** papers. Please submit abstracts via email to: [nwfsc.searanching@noaa.gov](mailto:nwfsc.searanching@noaa.gov)

Please include a cover memo that identifies:

- i. Which of the Seven Themes of the Symposium outlined in [www.SeaRanching.org](http://www.SeaRanching.org) your paper addresses.
- ii. Your preference for **Oral** or **Poster** presentation. Please note, however, that although this is a 4-day meeting, there will be no concurrent sessions and the Steering Committee and International Scientific Committee reserve the right to place papers appropriately to create a streamlined Program.

Special sessions for reviewing the Poster Papers will be organized and authors are asked to be present at those sessions to explain their work and answer questions. Posters should be no more than 3' (90 cm) high and 4' (120 cm) wide.

Visual aids for Oral Papers should be electronic and in PowerPoint format. No other visual aid equipment will be provided.

We cannot provide support for registration fees, accommodations or travel expenses for authors of contributed papers or posters.

## PREPARATION OF EXTENDED ABSTRACTS

1. **FORMAT.** Microsoft WORD is the preferred format.
2. **TYPE FACE.** Please use Times New Roman in 12-point font. Please refer to the SAMPLE layout. ▶
3. **TITLE.** The Title should be brief (15 words or less).
4. **AUTHOR(S).** The author making the presentation should be identified with an asterisk (\*).
5. **ADDRESS.** Only the postal and e-mail addresses of the author making the presentation are required; all correspondence will be with that author.
6. **LENGTH.** Please limit your abstract to no more than TWO pages, including all text, and any tables, figures, photographs and references.
7. **LAYOUT.** Please use "Portrait" orientation on Standard A4 paper (width 8.27" x height 11.69" or width 210 mm x height 297 mm). Please make all MARGINS 1" or 25 mm all round.
8. **TEXT.** Text should be single-spaced, with no indentations of the first line, and justified. Paragraphs should be separated by a single line.
9. **TABLES, FIGURES, and ILLUSTRATIONS.** Tables, figures, or black and white photographs relevant to the key findings are acceptable. Captions must be legible and conform to the font size and style specified above.

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**AVIATE TRAINING OF JUVENILE EXOCOETIDAE BEFORE RELEASE**

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The authors report on the continuing culture and release program to enhance neritic populations of *Cypselurus californicus* and *Exocoetus volitans* on the west and east coasts of the tropical waters of North America, respectively. Although neither species is of direct commercial interest itself, each is a desirable prey of most large oceanic predatory fishes. The long-term objective of the program is to build up populations of these and other Exocoetidae to attract popular oceanic species closer to shore for the benefit of commercial and recreational fishermen. The short-term objective is to produce juveniles for release with similar aviate behavior to the wild populations.

Although land-locked, Arkansas has a number of small nuclear power plants with accessible thermal cooling systems, and similar logistics for obtaining adult brookstock from either Atlantic or Pacific waters. Both species-specific hatcheries operated by the program use recycled artificial seawater maintained at optimum temperatures for rearing by heat exchangers linked to discharged cooling waters from the power plant. The hatcheries therefore operate all year round to take advantage of the continuous breeding cycles of the fish.

Aviate training trials (ATTs) for each species were conducted separately once the juveniles became 50 days old. At this age fins are rigid and forked tails well developed. Three identical training tanks were located centrally beneath a fan-assisted induced-draft cooling tower. The purpose was to calculate an Augmenting Buoyancy Index (ABI) for each species from (i) the age of juveniles; (ii) fan assistance, and (iii) survival. Duration of each ATT was 5 days.

Trials first with *C. californicus* suggested conditions with an ABI of ~120 are desirable for effective aviate training before release.

Figure 1. Survival (%) of *C. californicus* with age (days) at start of ATT and draft tower fan speed (rpm).

29.7cm

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