

**TRAWL SELECTIVITY METHODOLOGY WORKSHOP,
March 22-24, 2004**

Sponsored by:



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Location: (SMAST, Monday, March 22, 10 AM)

706 South Rodney French Blvd.
New Bedford, Massachusetts 02744-1221

Driving directions at: <http://www.smast.umassd.edu/cmastweb/cmastlocation.html>

The workshop will be held in the first floor conference room.

The workshop will be free of cost. Transport, hotel stay and meals will be at own expenses.

Hotel booking at favorable price (**\$81.18/night**, tax included) can be made for the 'Hampton Inn' referring to the Trawl selectivity workshop and UMASS. :

Hampton Inn Fairhaven

(New Bedford/Fairhaven)

1 Hampton Way
Fairhaven, MA 02719
Phone: 508-990-8500
Fax: 508-990-0183

<http://www.lafrancehospitality.com/hampton.htm>

The workshop will start at 10AM March 22 and end March 24 at 5PM. We will work each day until 5 PM and have informal night sessions on the 22nd and 23rd from 8-9.30 PM.

You will need to bring a laptop for statistical exercises. We will try to set up connections so each computer can connect to the internet and run programs on the net: <http://ecweb.constat.dk>. Other exercises will need the use of EXCEL on your computer.

The Workshop

The main focus of the workshop will be on how to deploy a decent methodology (technically and statistically) when conducting trawl selectivity experiments. Catch comparative experiments to i.e. compare catches of two different types of gear will be touched, but get less emphasis than 'true' selectivity experiments. The reason for this is that a lot of practical experience in catch comparative studies is already available in our area and because the statistical part is actually pretty complicated and not fully solved for the time being (I guess this will be elaborated a little during the workshop).

Monday March 22, 10AM-5PM Technical and practical section

The section will include – but not necessary be restricted to:

- Size selectivity – species selectivity.
- Selectivity of different fishing gear,
- General rules for utilizing species specific differences in behavior.
- Selectivity of different fishing gear,
- Whole trawl selectivity – codend selectivity.
- Factors effecting codend selectivity – circumference, tapering, length of extension piece, twine thickness, catch size, sea state, vessel - etc.
- Codend covers – design, flow characteristics, things to consider.
- Codends – different designs including window design, flow characteristics.
- Different cover handling techniques.
- Other covers and collecting bags.
- Twin trawl technique
- Standards and different methods of mesh measurements.
- Hiring arrangements.
- Protocols, logs and things to measure and record. Different measuring techniques.
- Experimental design.

**Tuesday, Wednesday, March 23 and 24, 9AM-5PM
and Monday and Tuesday 8PM-9.30PM.**

Statistical session.

The statistical part of the seminar will be a mixture of lectures, discussions and exercises. A work-book will contain exercises that cover the topics included in the seminar. During the exercises we will build Excel tools for doing the analyses of the single-haul stuff.

The multiple-haul analysis will be conducted using custom build software.

Monday Night Session:

Fundamental concepts: Quantifying selective properties of fishing gear.

Philosophical issues: Why do we care about models?

Tuesday Night Session:

- Statistical Planning – An outline of the principles in statistical planning of experiments with selective fishing gear. Demonstrated by a case study.

Topics covered in this section:

Single Haul analysis:

- Covered codend experiments
- Paired gear experiments
- Selection curves and other curves
- Model control
- Sub-sampling
- Catch-comparison data

Multiple Hauls:

- Aggregation of multiple hauls
 - Comparison of gear-types
 - Mean selection curve
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Funding for this workshop was provided by a Saltonstall/Kennedy grant to the University of Rhode Island. Additional expenses were covered by the Massachusetts Division of Marine Fisheries, RI Sea Grant, the Northeast Consortium and the School for Marine Science and Technology at the University of Massachusetts.

List of Participants:

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