

NL AZMP STANDARD

SECTIONS 2009

AZMP SURVEYS 2009

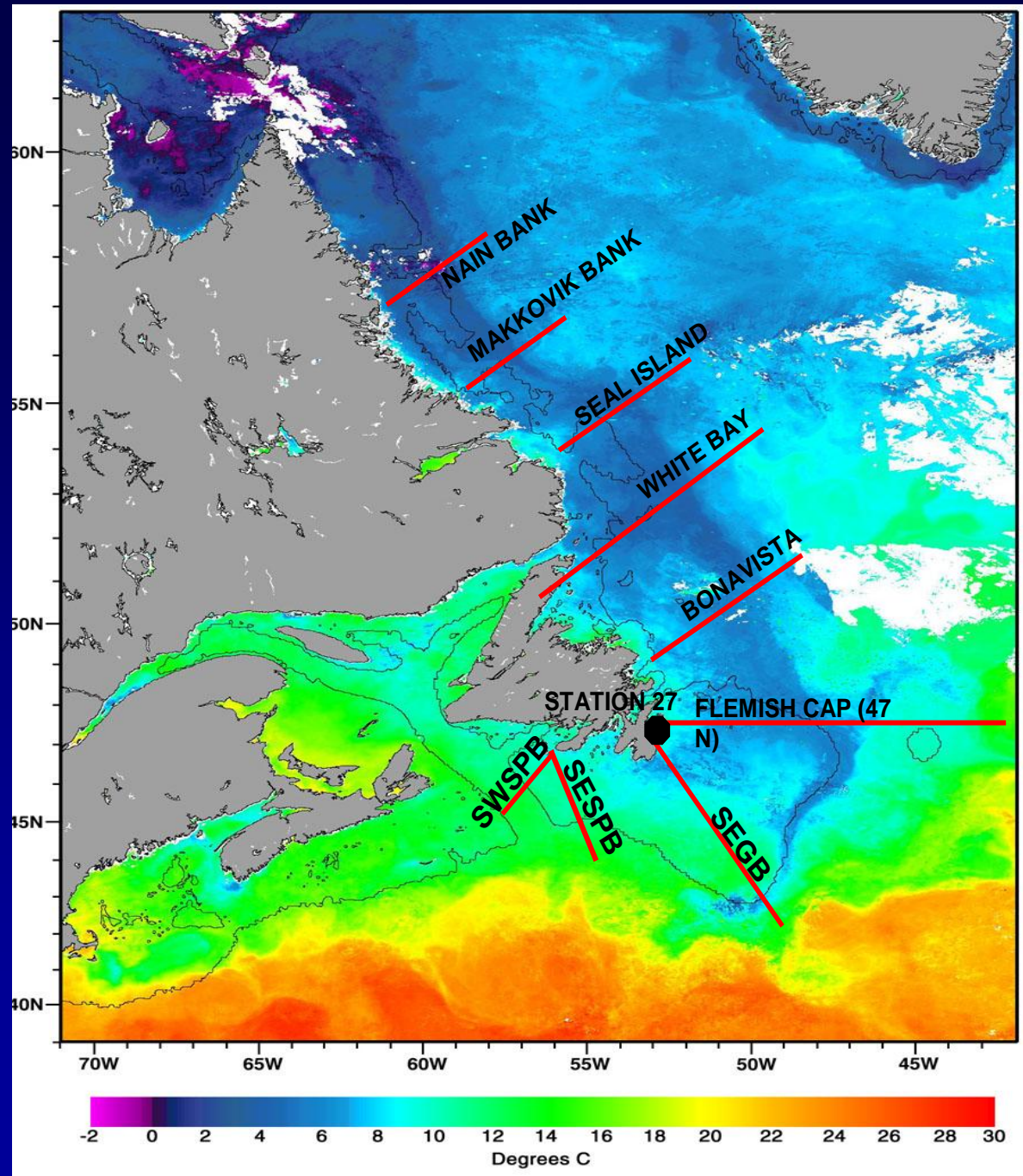
1. Teleost Trip 886 April 26 to
May 15 (19 days)

2. Teleost Trip 890 July 10-28
(19 days)

3. Hudson Trip 929 (865)
November 21 to December 10
(18 days)

A total of 56 ship-days

CTD, oxygen, nutrients,
chlorophyll, phytoplankton
composition, zooplankton
abundance and composition



Ecosystem Research Initiative goals

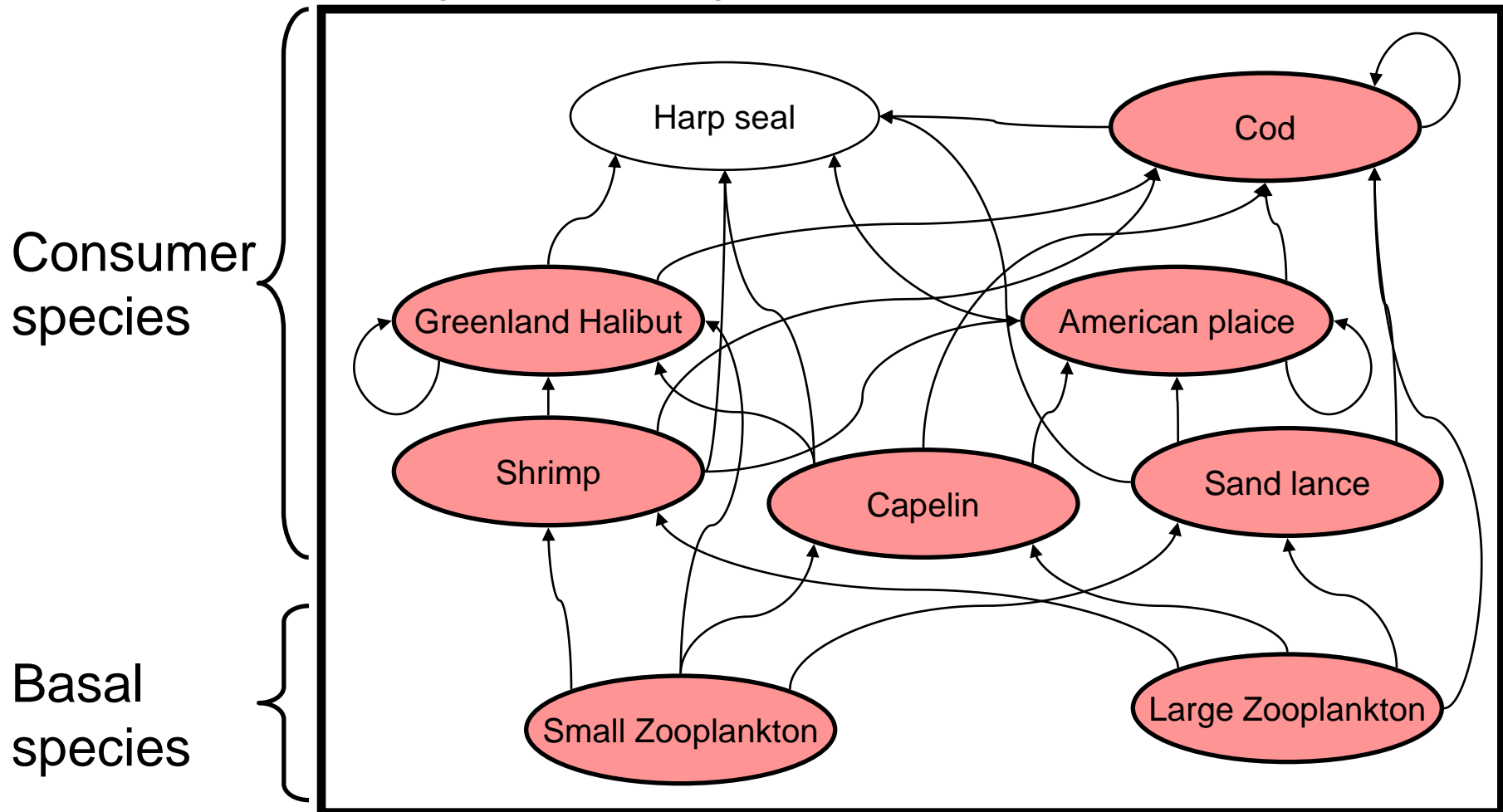
- To enhance the capability of NL surveys in providing information on ecosystem status and main trends by improving monitoring on forage fishes, non-commercial species, major benthic components, and trophic interactions.
- To identify and track ***main pathways*** of energy in the NL system by integrating results from trophodynamic and statistical models with trends and patterns in ecosystem indicators.

Highlights relevant to climate change research

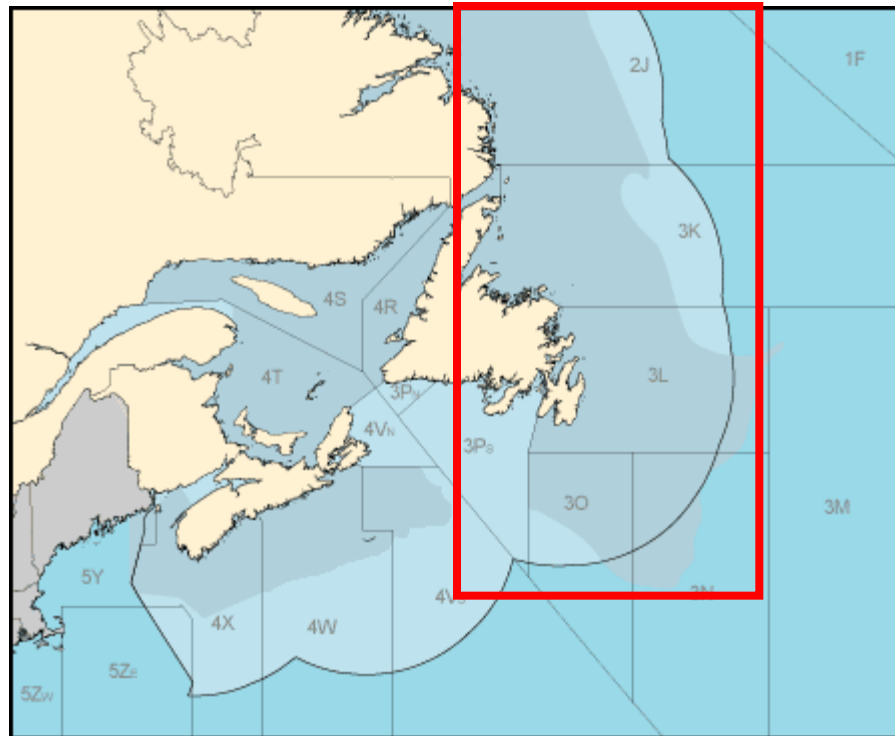
- Models are size structured
- Physiological processes are temperature dependent
- Forage fish productivity linked to dynamics (variability) in lower trophic levels
- Multispecies functional feeding response are key elements of the model – changes in spatial distribution and overlap can affect trophic interactions

Modelling the Newfoundland shelf: and a first pass to climate change

Temperature-dependent Model

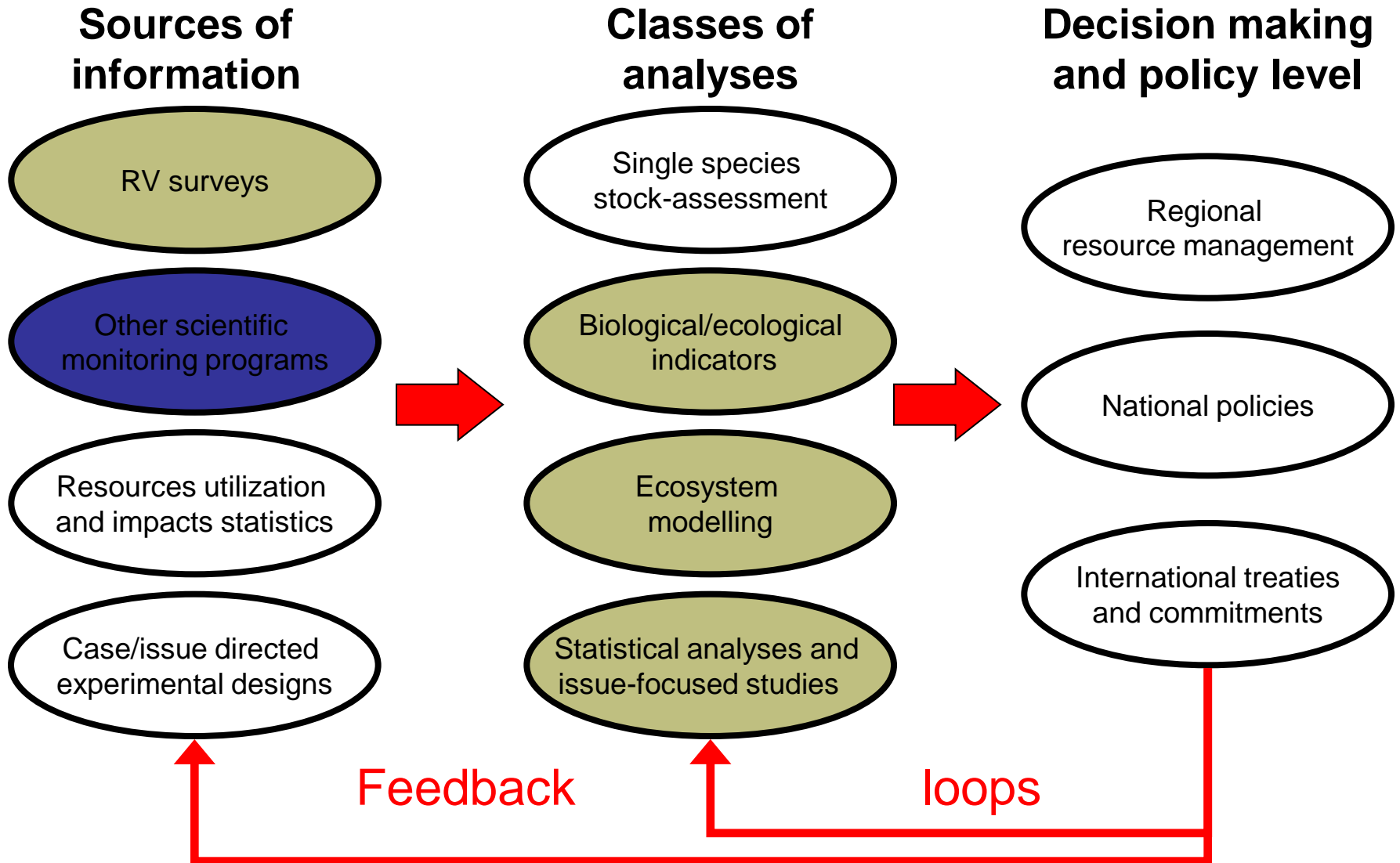


ERI coverage



NAFO Divisions: 2J3KLNO

Where is ERI working?



ERI outcomes

- Status and trends in main forage fish species.
- Structure, changes and trends in the fish community.
- Characterization and patterns of main components of benthic communities.
- Trophic interactions among key components of the NL marine community.
- Identify anthropogenic and environmental drivers of changes in structure and trends