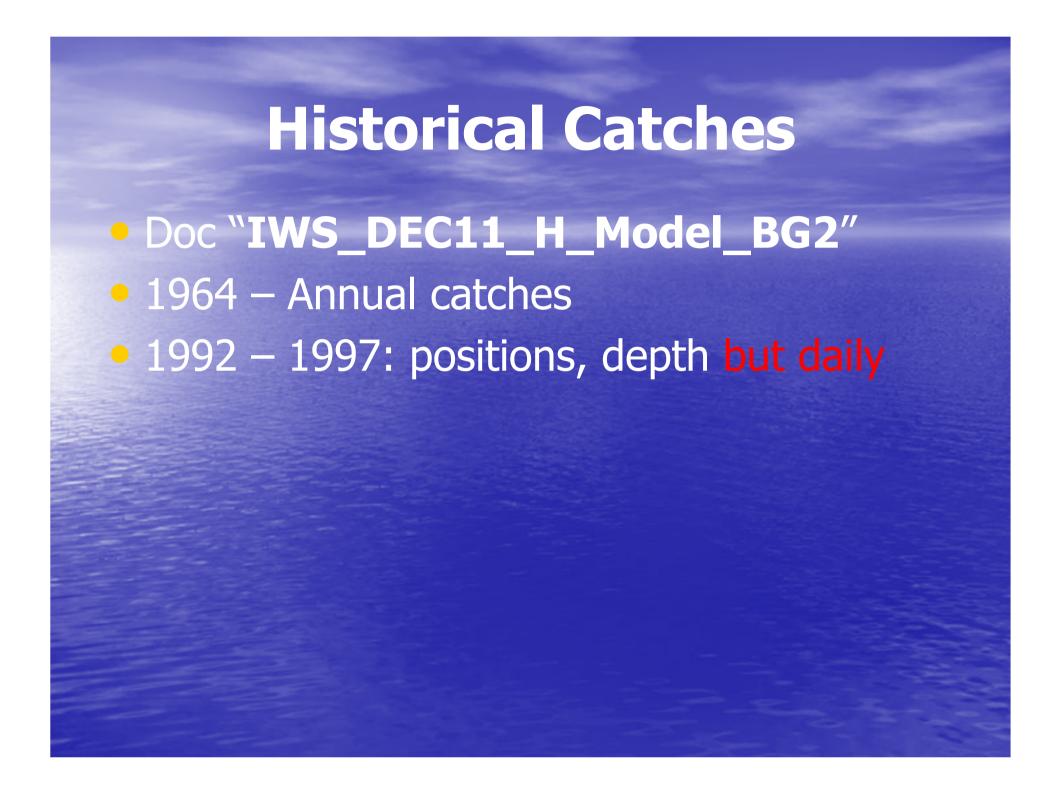




DATA SOURCES

- Historical catches: 1964 –
- Swept-area Biomass surveys: Annual since 1990, on Nan-Sis
- Commercial Logbook data: since 1997 (daily 94-97), on FIMS
- Commercial Sampling (Observers): since 1997, on ResDat (FIMS)
- Annual Seal Scat Sampling, since 2005
- "Port Sampling": since 2006 (Biologicals, position, date and depth)
- Occasional Experimental surveys: spawning, distribution/life history...

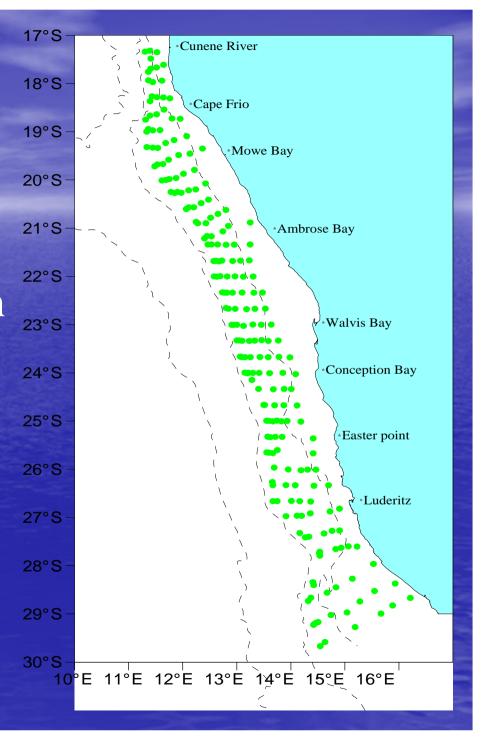


Biomass surveys

- Old Nansen (1990-1993), New Nansen (1994-1999), commercials (2000)
- Trawl info: opening/height, width, mesh, constr. rope/door spread, footrope
- Spatial: position, time and depth
- Catches: species, sex
- Lengths: species, sex
- Biological: length, weight, sex, maturity, otolith, trophics (stomach, muscles tissues)

Survey Stations

- Generally same strategy every year, start in South
- Systematic transect design
- About 220 trawl stationsand 100 CTD station



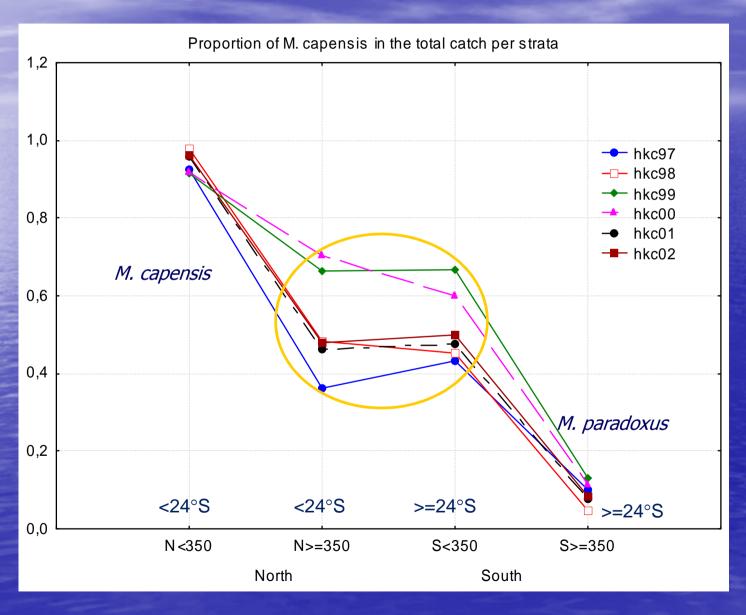


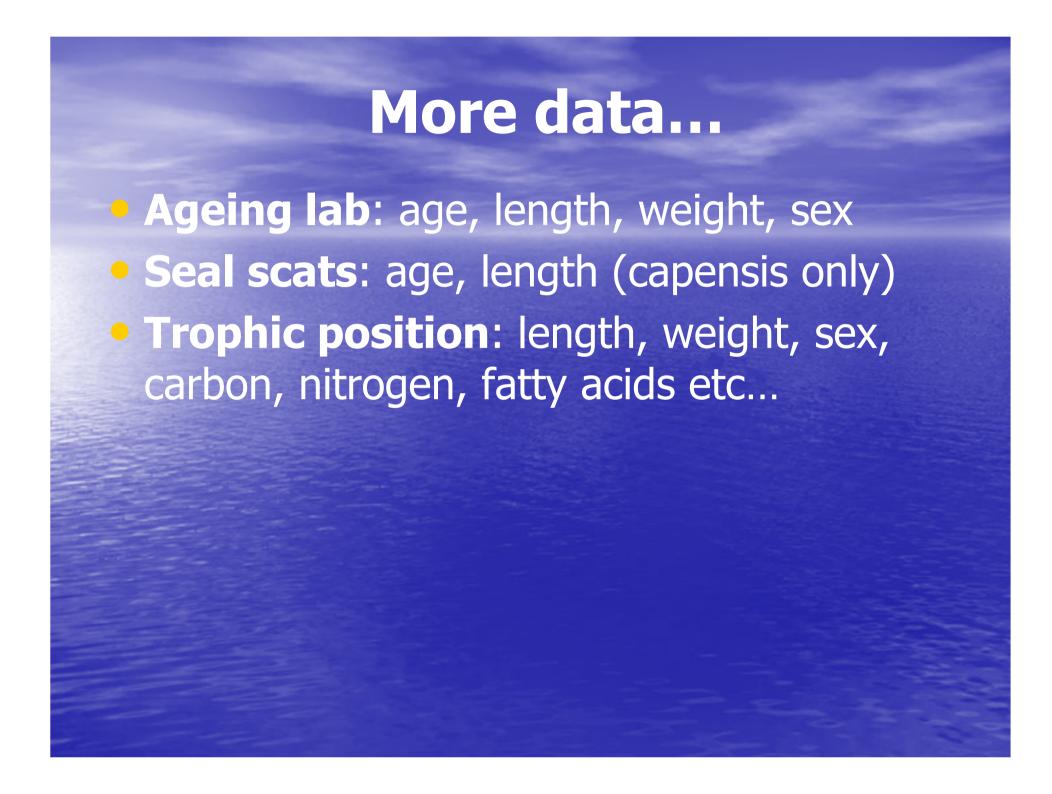
- From 1992-1997 (daily), 1997- current (tow-by-tow)
- Spatial: vessel, position, time, depth
- Catches: combined species
- Trawlers and longliners



- Spatial: vessel, position, time, depth
- Lengths: by species
- Some Biologicals: species, sex, maturity
- Trawlers and longliners
- About 1 trawl a day

Fishing Areas: 4 Main Regions





Management Measures in place

- Fishing Rights to enter fishery
- TAC (ASPM) / Quotas to fish
- Minimum of 110 mm mesh sizes
- No trawling shallower than 200 m depth

And Since 2006

- October closed season spawners
- 200 m increased to 300 m south of 25°S –
 small fish

- END -