

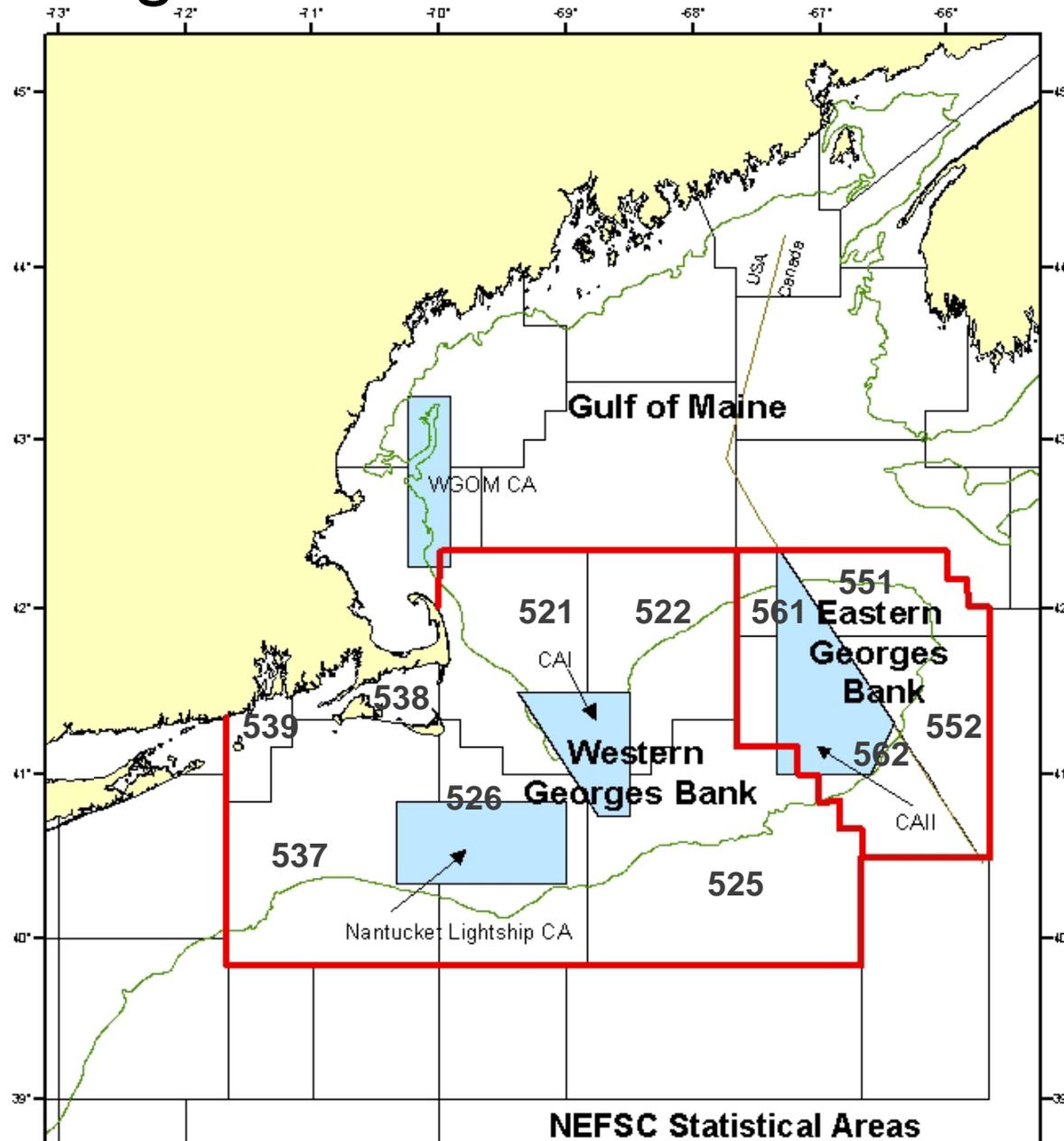
**Eastern GB Haddock
Management Unit**

**Liz Brooks
NEFSC
Woods Hole**

12 August 2013

Management Unit

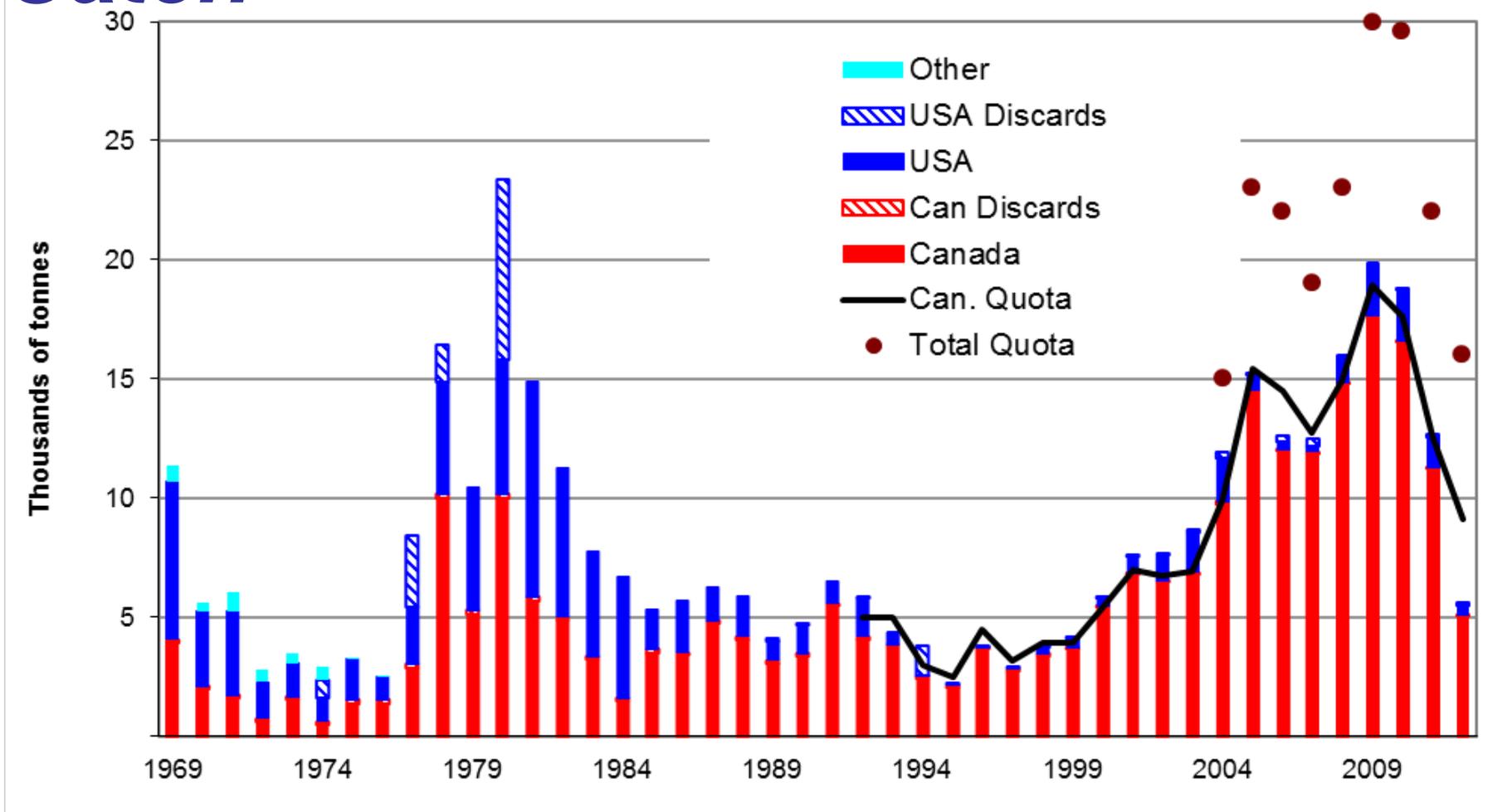
EGB *Haddock*



USA:
561,562
CA:
551,552

Catch

EGB Haddock



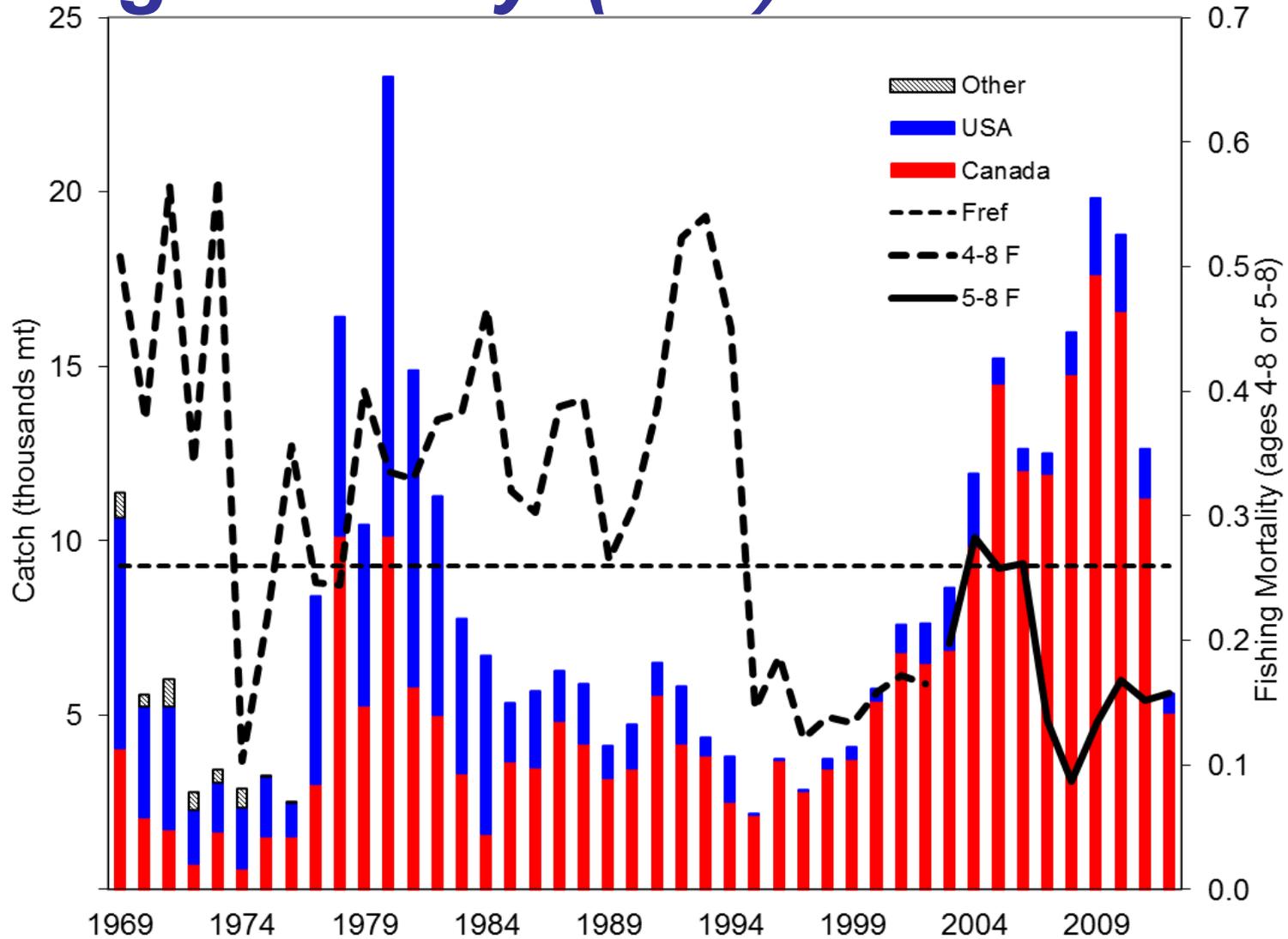
CY: Total 2012 catch: 5,631 mt

US: 569 mt ; Canada: 5,062 mt

FY: Quota taken: US ~ 5%, CA ~ 55%

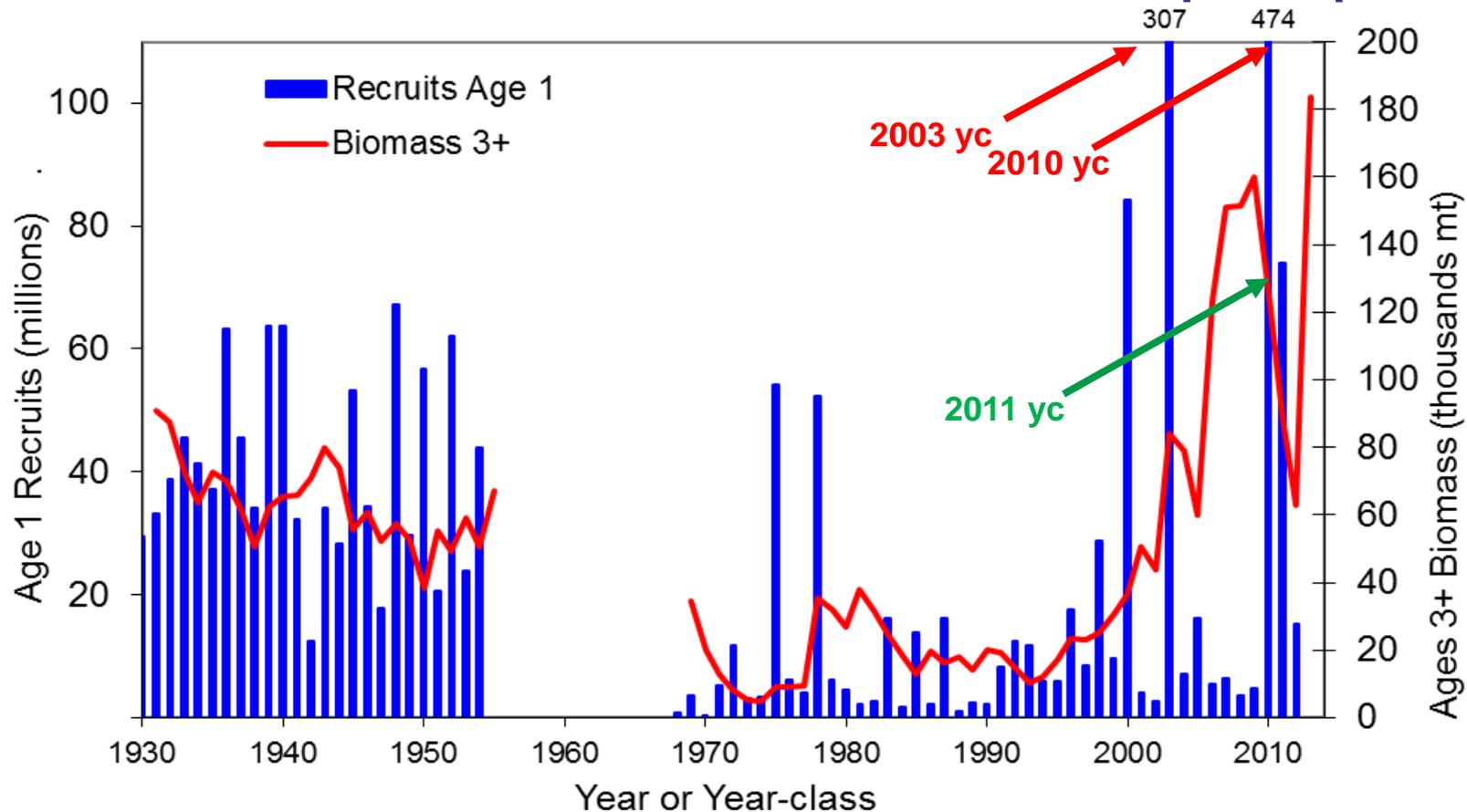
Fishing Mortality (line)

EGB Haddock



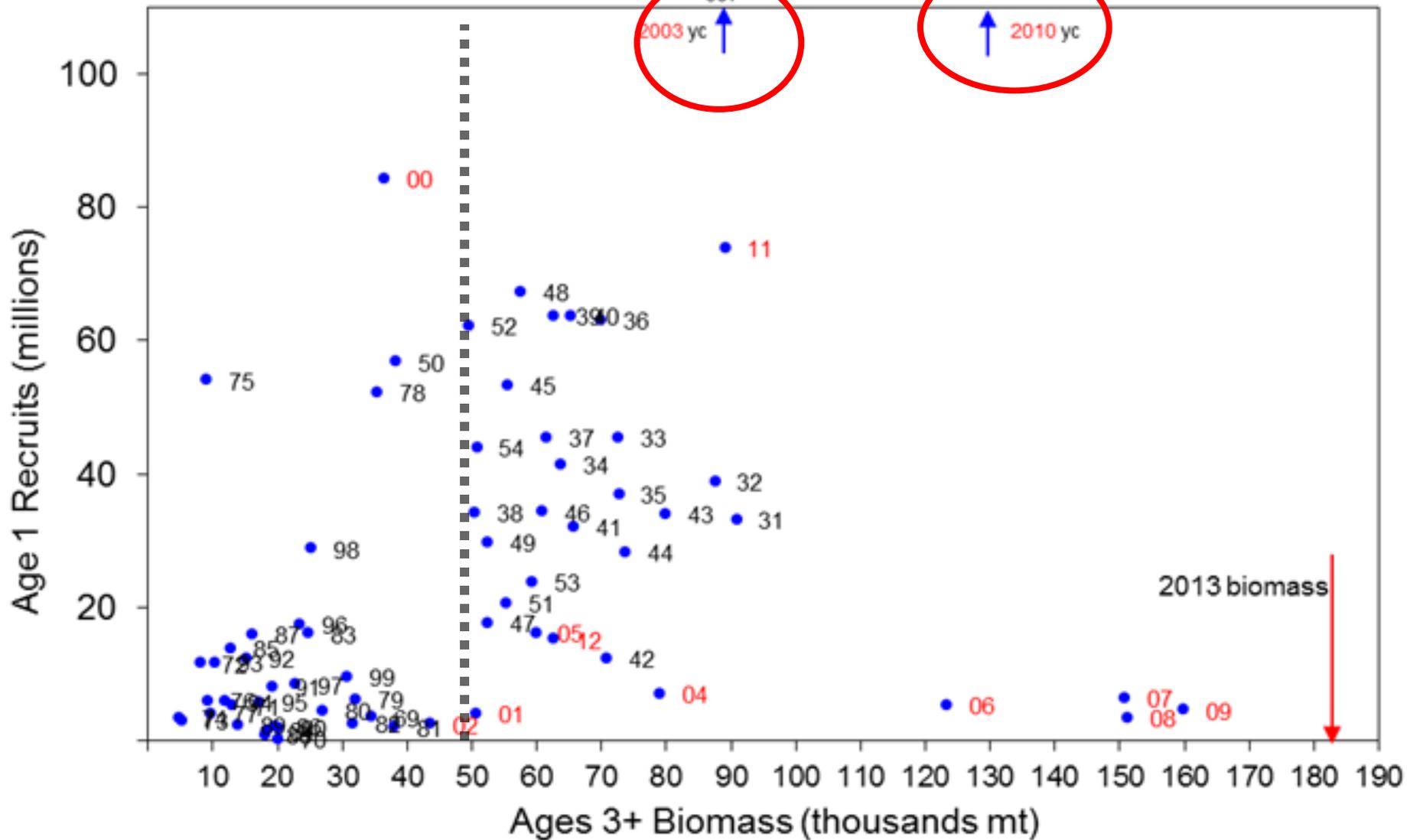
2012 F = 0.16, below or near Fref since 1995

Biomass & Recruitment – Historical perspective

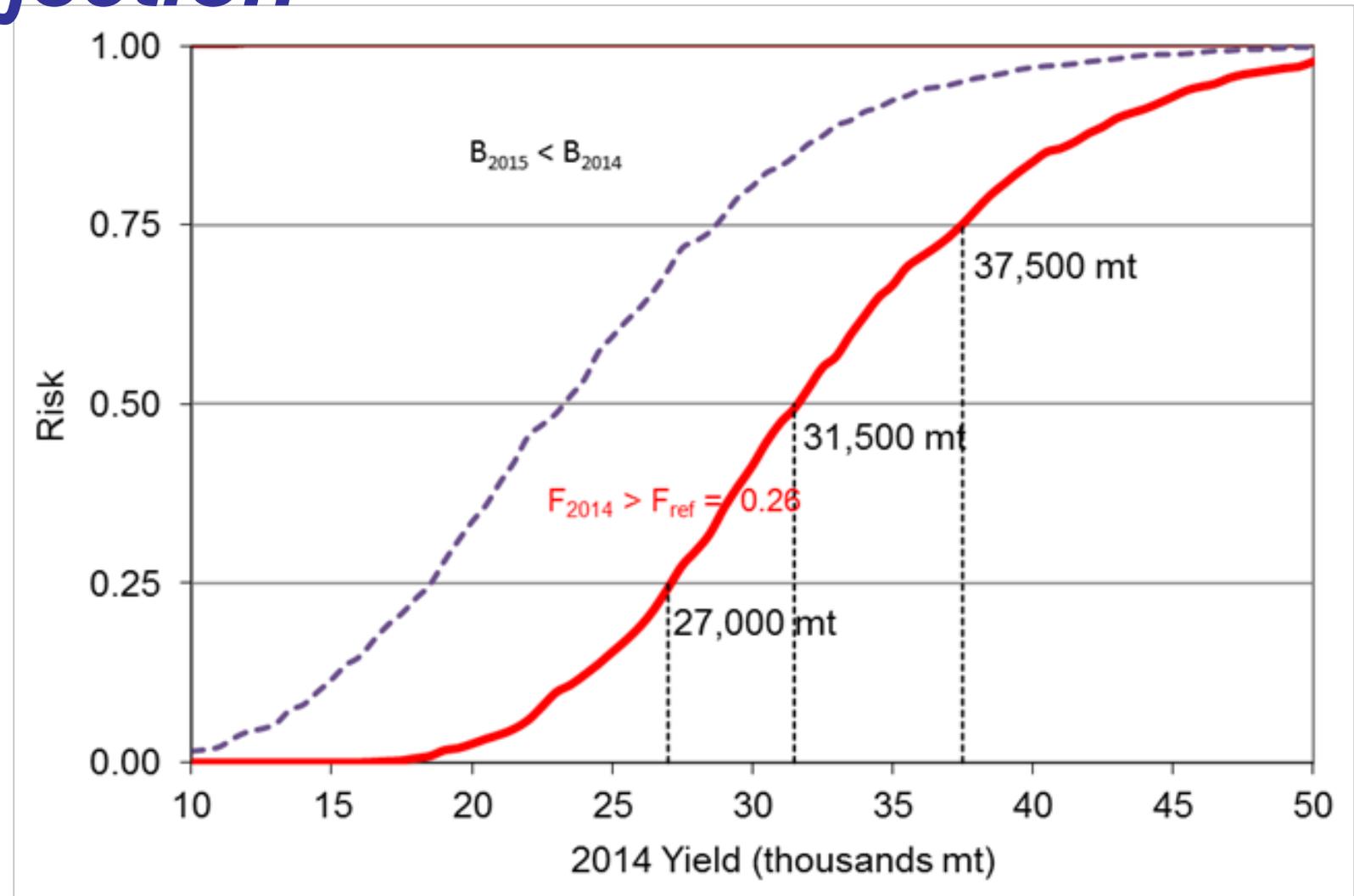


- Adult (3+) biomass increased dramatically in 2000s due to the large 2003 year class.
- At the beginning of 2013, adult biomass was 183,600 mt.
- **2003 and 2010 year classes** are exceptionally large; **2011 year class** is very strong (~74 million)

EGB Haddock: Recruitment



- ◆ Recruitment is highly variable but has generally been higher when adult biomass has been above 40,000 mt, which has been the case since 2001.
- ◆ 2013 3+ biomass estimated at 183,600 mt.
- ◆ 2003 yc estimated to be 307 M and 2010 yc preliminary estimate of 474 M at age 1



- ◆ Assuming a 2013 catch equal to the 10,400 mt total quota, a combined Canada/USA catch of 31,500 mt in 2014 results in a neutral risk (50%) that the 2014 fishing mortality rate would exceed $F_{ref} = 0.26$
- ◆ Biomass in 2014 expected to be largest in times series; biomass expected to decline in 2015
- ◆ Used 2003 year class values for 2010 year class projection inputs.
- ◆ Assumed no growth for 2003 year class (9+) and reduced availability of ages 9+ to fishery

Summary

- Exploitation well below F_{ref} during 2007 – 2012, 2012 $F = 0.16$ ($F_{ref} = 0.26$)
- Preliminary estimate of 2010 year class is exceptional at 474 million and 2011 year class is strong
- Except for the strong 2000 and 2011 year classes and the exceptional 2003 and 2010 year classes, recruitment since 1990 has fluctuated between 2.1 and 29.4 million fish at age 1
- Adult biomass is projected to be 245,500 mt (a record-high) at the beginning of 2014
- F_{ref} catch in 2014 is 30,633 mt
- Fishing up to F_{ref} does not pose conservation concerns for haddock
- Fish condition has been below series average since 2003

Thank you.

Any questions?