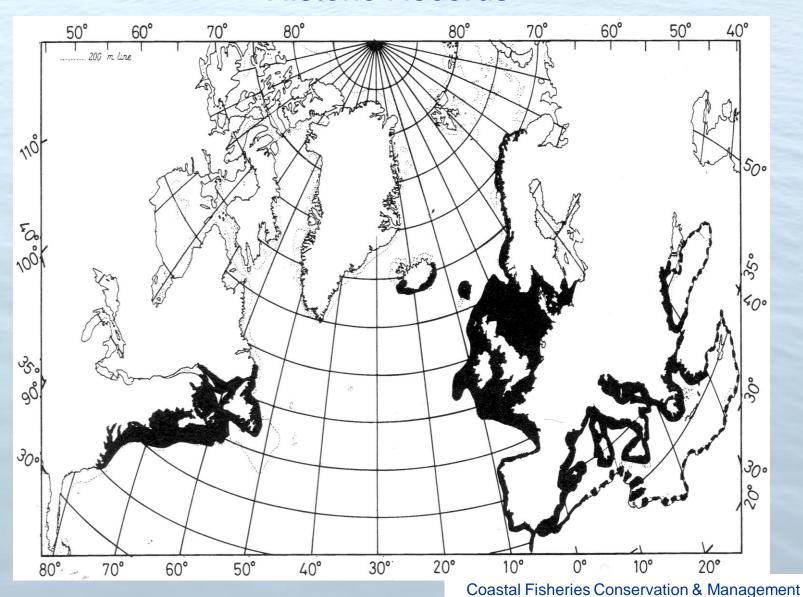


Global Distribution of Mackerel (Scomber scombrus) from Historic Records



First
North Sea
Assessment

Norwegian
Tagging
in Northern
North Sea



First
Western Stock
Assessment

English
Plankton
Survey Biscay
to
Porcupine
Bank



North-East Atlantic Mackerel

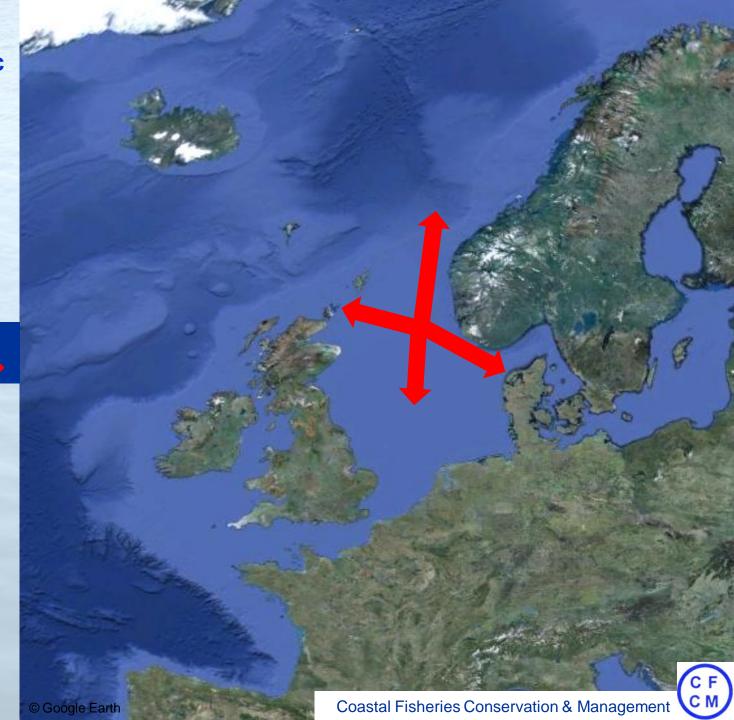
Spawning Grounds



North-East Atlantic Mackerel

North Sea
Spawning
component
Spring-Summer
Migration

North Sea spawning component



North-East Atlantic Mackerel

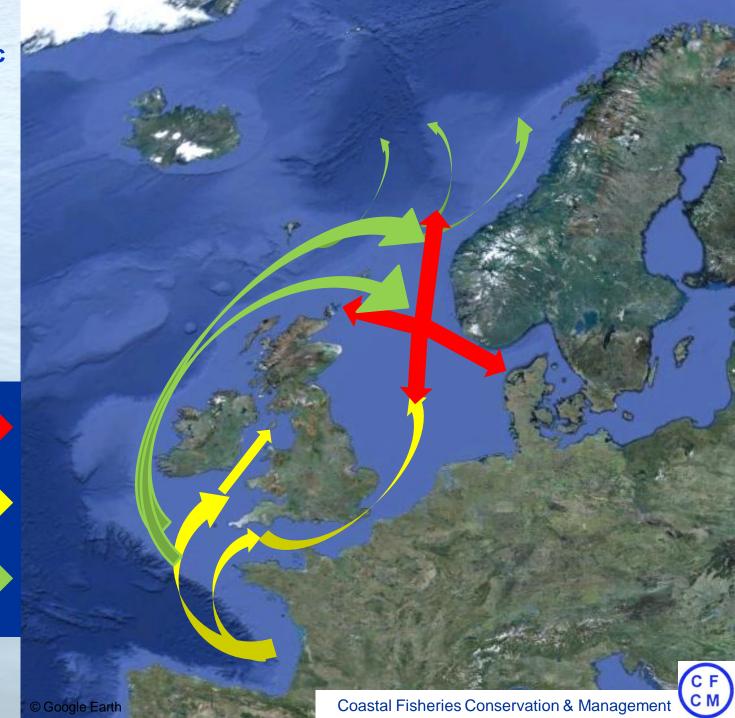
Western & Southern Spawning components

Spring-Summer Migration Pre~2007

North Sea spawning component

Southern spawning component

Western spawning component



North-East Atlantic Mackerel

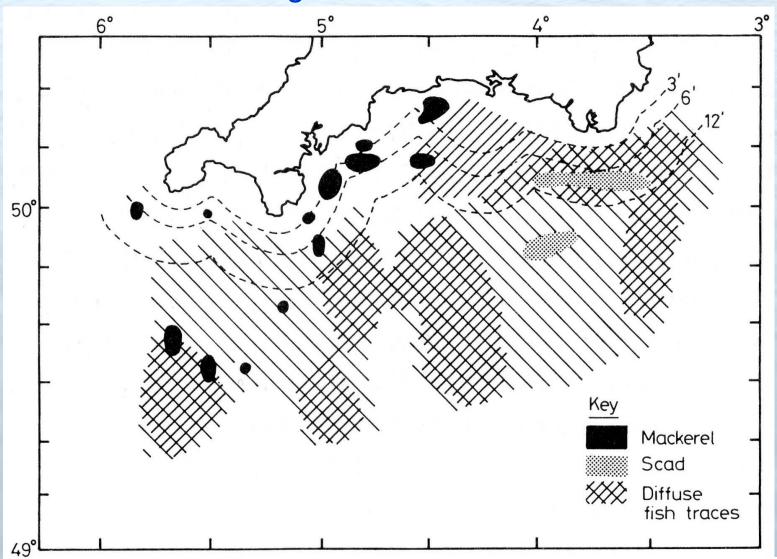
Western spawning component

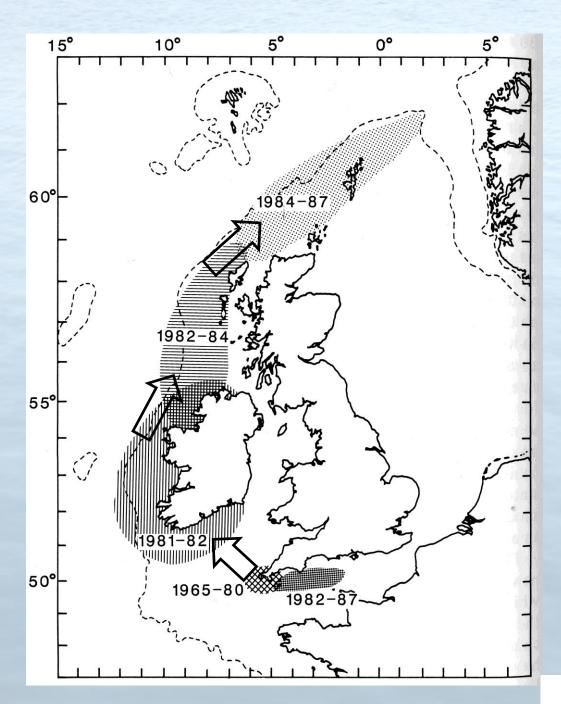
Spring Migration Post~2006

Western spawning component



Typical Winter Mackerel Shoal Distribution in the Western English Channel in the 1970s





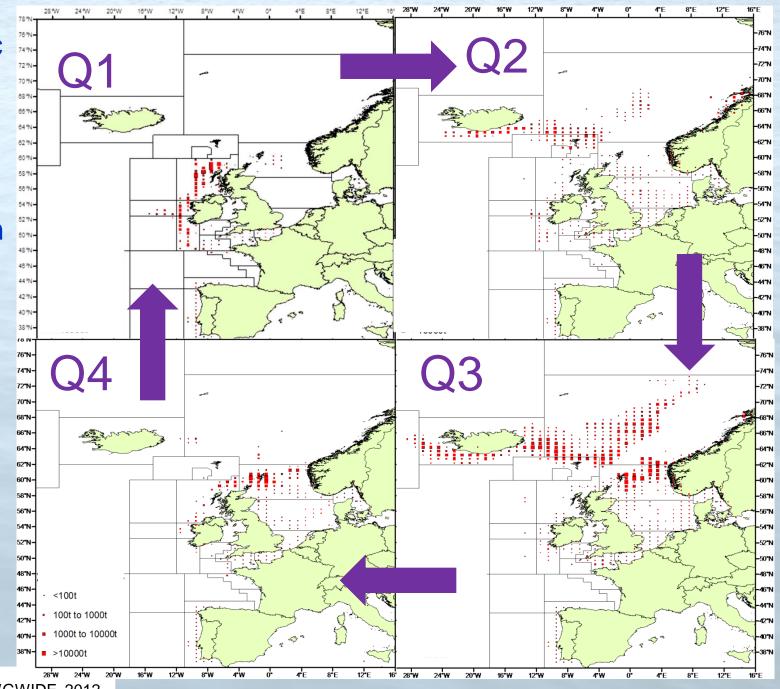
Progressive Northward
Shift in Winter
Mackerel Shoal
Distribution
through the
1980s

Current winter distribution is similar to that first described in 1950s



NE Atlantic Mackerel

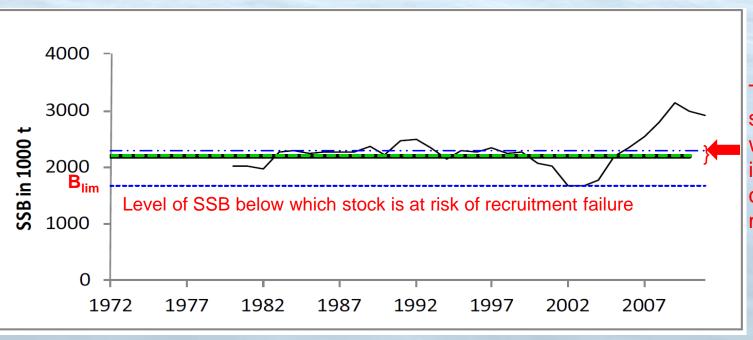
Quarterly
Fishing
Distribution
2011





WGWIDE, 2012

North-East Atlantic Mackerel Stock Spawning Stock Biomass

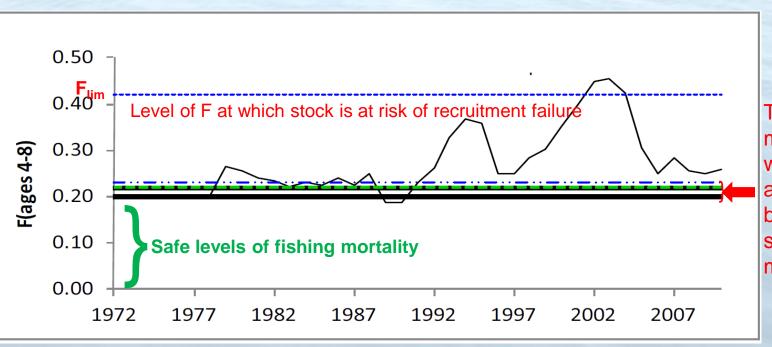


The level of spawning stock biomass below which remedial action is required by the coastal states' management plan

ACOM (Mackerel) 2012



North-East Atlantic Mackerel Stock Fishing Mortality Rate

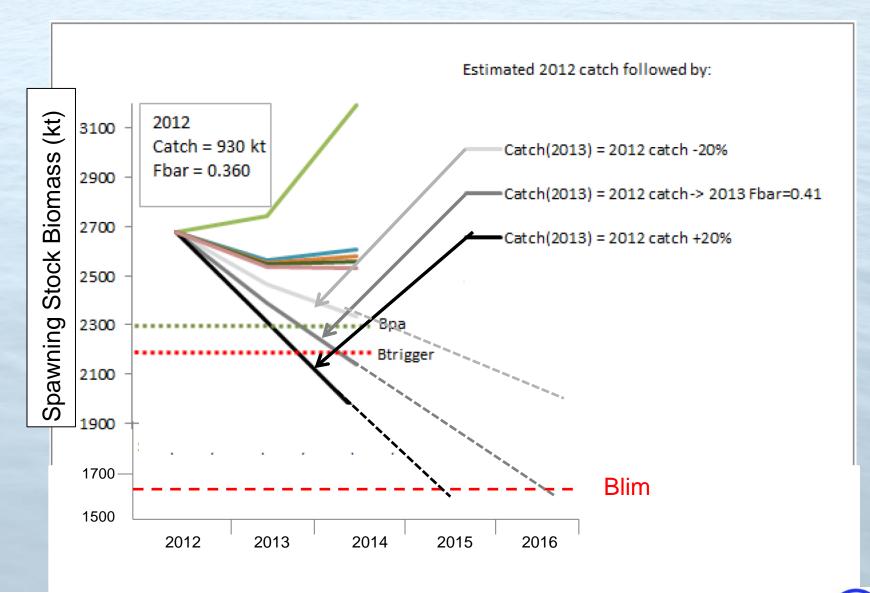


The level of fishing mortality above which remedial action is required by the coastal states' management plan

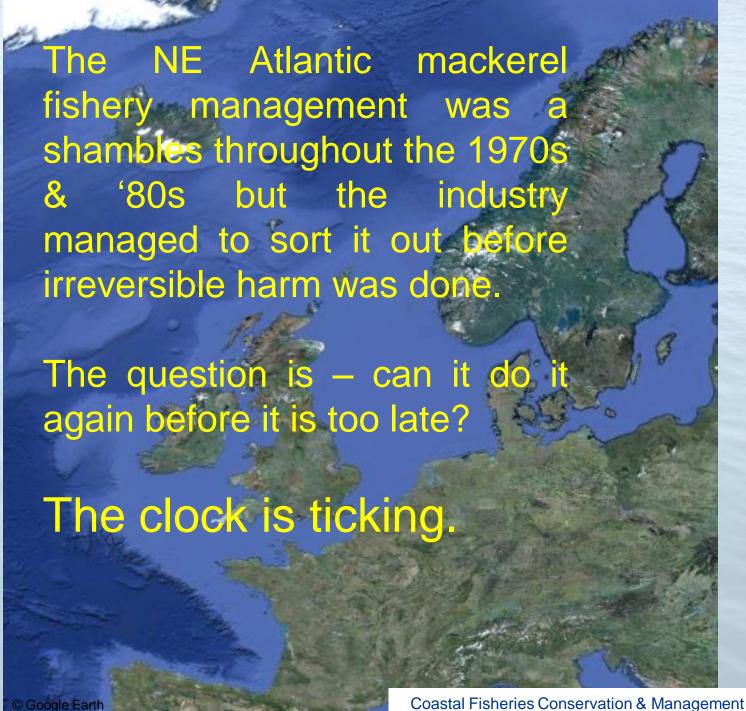
ACOM (Mackerel) 2012



NE Atlantic Mackerel Short-term Prognosis

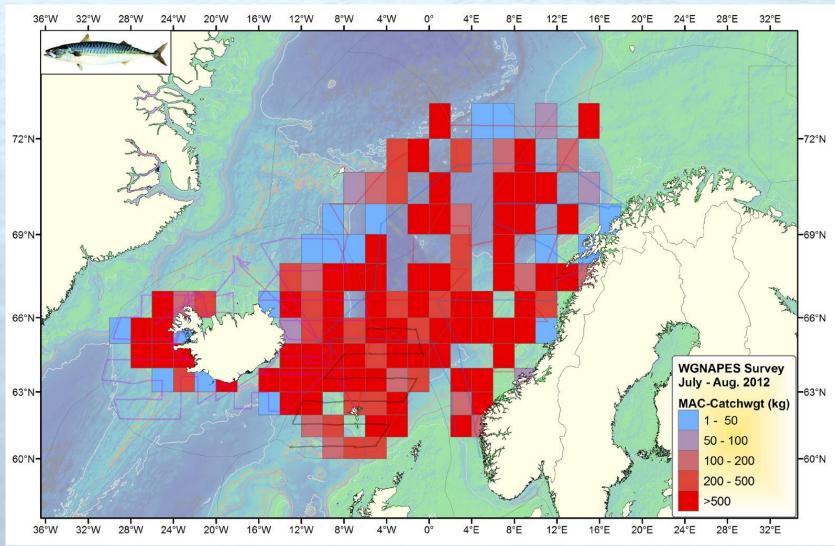




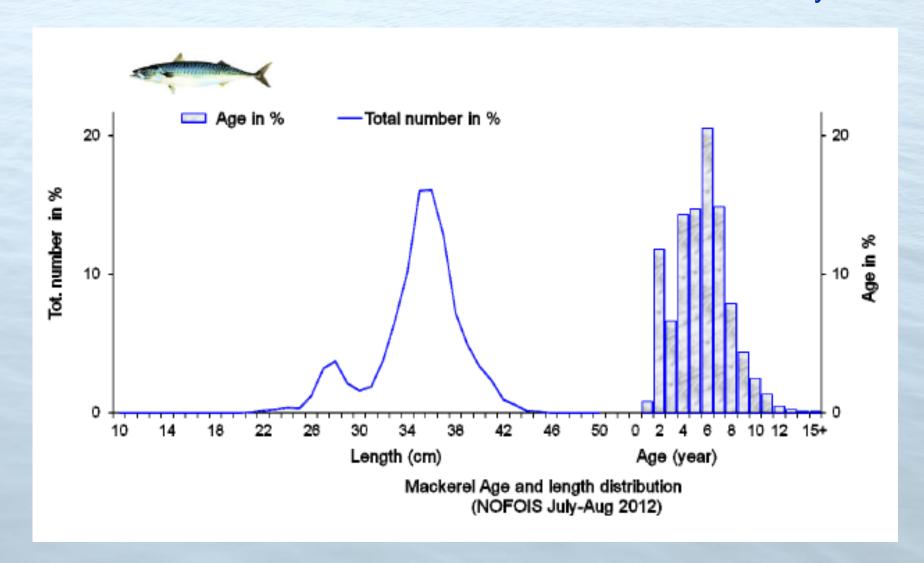


Annexe Figures

NE Atlantic Mackerel Summer Distribution 2012 Nordic Tri-nation Research Vessel Trawl Survey



NE Atlantic Mackerel Length & Age-frequency Distributions 2012 Nordic Tri-nation Research Vessel Trawl Survey



NE Atlantic Mackerel Quarterly Fishing Distribution 2011

