

ICES advice for 2009

North western waters

Presented at: North Western RAC, Madrid, 3-4 July 2008



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Sustainable exploitation is the key to fisheries management

You are looking for relevant information on sustainable exploitation



ICES has released new information on the status of ecosystems and fish



You want to be **on top** of the new information



Review the basis and the content of the new information





How?

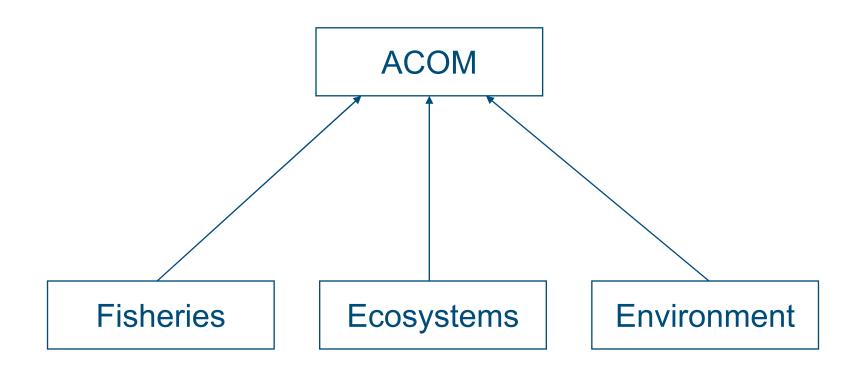
Big picture?

My stock?

1. How did we do it?



Changed to one integrated advice





New timing: advice early in the year





"No new advice"

ple-echw	Plaice in Division VIIe (Western Channel)
sol-echw	Sole in Division VIIe (Western Channel)
spr-ech	Sprat in Divisions VIId,e
cod-iris	Cod in Division VIIa (Irish Sea)
had-iris	Haddock in Division VIIa (Irish Sea)
her nirs	Irish Sea herring (Division VIIa)
nep-7a	Nephrops in Division VIIa North of 53°N (Management Are
ple-iris	Plaice in Division VIIa (Irish Sea)
sol-iris	Sole in Division VIIa (Irish Sea)
whg-iris	Whiting in Division VIIa (Irish Sea)
cod-7e-k	Cod in Divisions VIIe-k
her-irls	Celtic Sea and Division VIIj herring
nep-7fqh	Nephrops in Divisions VIIfqh excl. 31E1 32E1-2 + VIIa, Sou
ple-celt	Celtic Sea plaice (Divisions VIIIf and q)
sol-celt	Sole in Divisions VIIf and g (Celtic Sea)
ana 70 ala	Appletish (Budenesse & Dispetarius) in Divisions VIIIb k.c.
had 7b k	Heddock in Divisions VIIb k
nda 76 K plo-76-k	Plaice in the Southwest of Iroland (Areas VIIIh and VIIIr)
sol-7h-k	Solo in the Southward of Indent (Arres Ville it.)



Still to come: data workshops





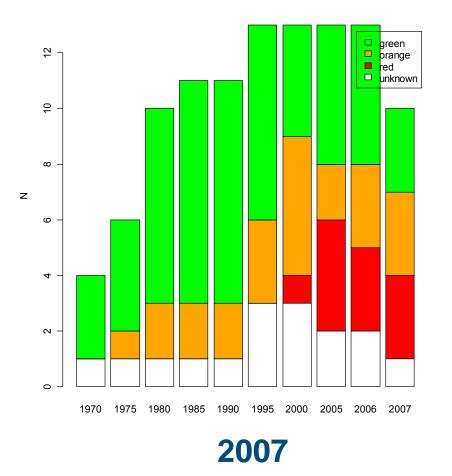
Still to come: fisheries & ecosystem focus

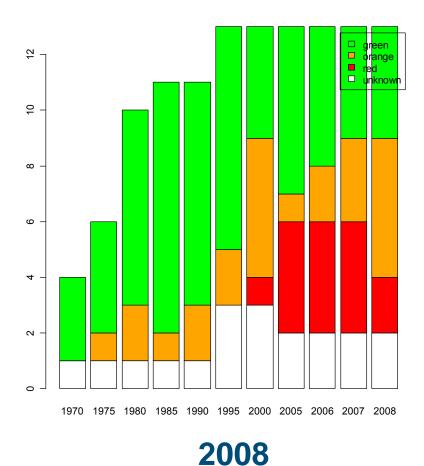


2. The big picture?



Stock status largely similar to last year

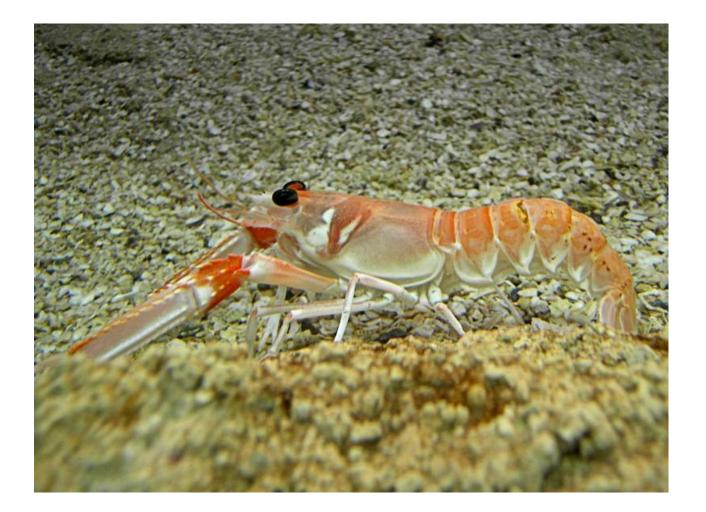




Number of stocks in Celtic Seas and West of Scotland relative to biomass reference points



Nephrops advice: stocks appear stable





Sharks and Rays advice: reason for concern

Species	Area	State of stock	Advice			
	VI	Depleted	No target fisheries			
Common skate	VII	Depleted	No target fisheries			
Thomback ray	VIa VIIa,f,g	Stable/increasing	Status quo catch			
Spotted ray	VIIa,f,g VIIa,f,g	Stable/increasing	<i>Status quo</i> catch			
Cuckoo ray	VIa	Stable/increasing	Status quo catch			
	VII	Uncertain	No advice			
Blonde ray	VIa, VIIa and VIIf	Uncertain	No advice			
Undulate ray	VIIj and VIIde	Uncertain (but with cause for concern)	No target fisheries			
Smalleyed ray	VIIf	Stable/increasing	Status quo catch			
Sandy ray	VI	Uncertain	No advice			
	VIIb,c,h-k	Stable/increasing	No advice			
Shagreen ray	VII	Uncertain	No advice			
White skate	VII	Severely depleted	No fishe ries			
Lesser-spotted dogfish	VIa and VII	Stable/increasing	<i>Status quo</i> catch			
Greater-spotted dogfish	VII	Locally stable and increasing in VIIa	<i>Status quo</i> catch			
Smooth hounds	VII	Stable/Increasing	Status quo catch			
Angel shark	VII	Severely depleted	No fishe ries 🛛 🗶			





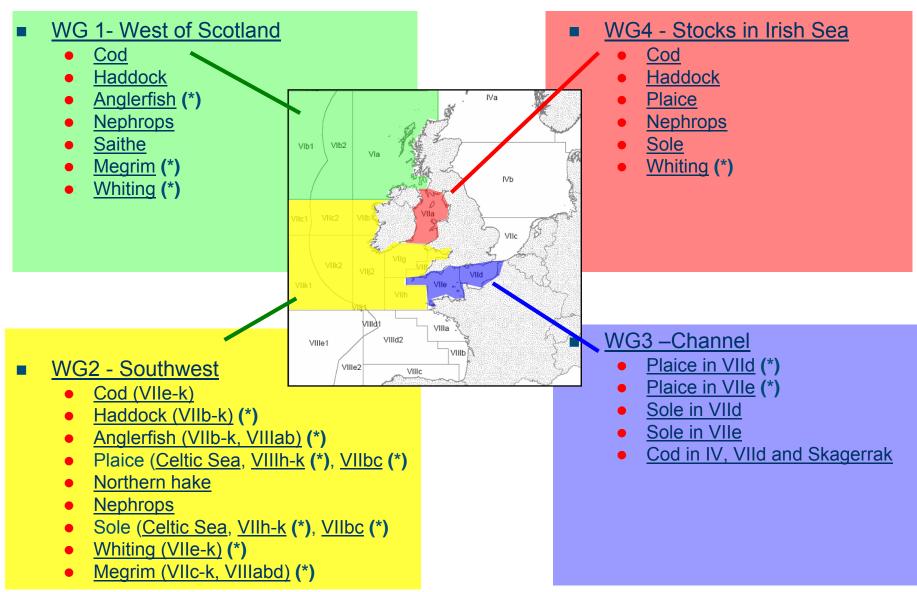


3. What happened to my stock?



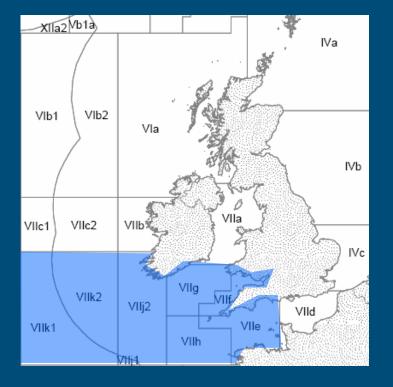
Stocks overview





(* No new advice in 2008)

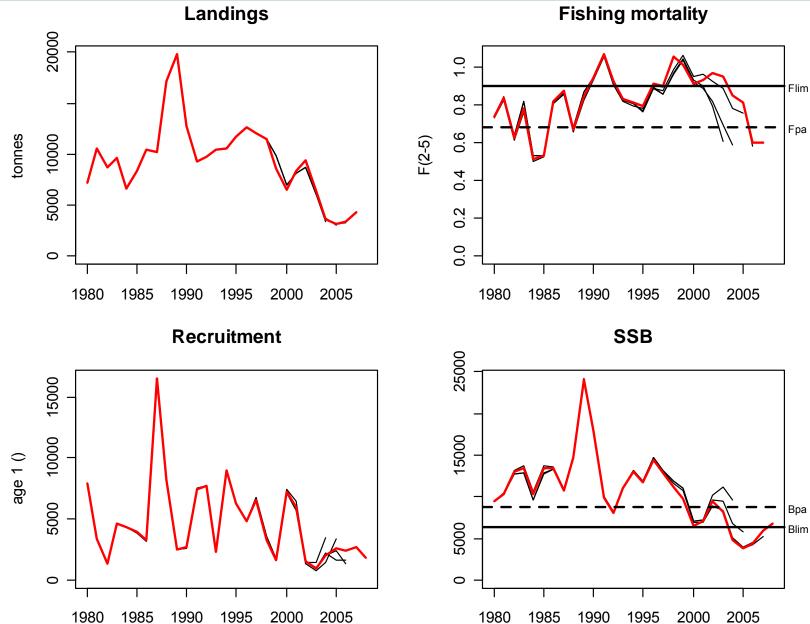
Cod VIIe-k





home WG2

Cod in Divisions VIIe-k: trends





Cod VIIe-k: advice



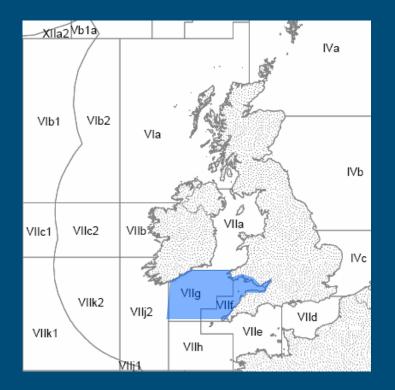
Advice last year

- Low R, lowest observed SSB: zero catch
- zero catch \rightarrow SSB ~ B_{pa} in 2009

New advice

- 50% reduction in fishing mortality.
 - This F corresponds to high long-term yield and low risk of stock depletion.
- Landings of 2600 t
- SSB is expected to reach Bpa in 2010.

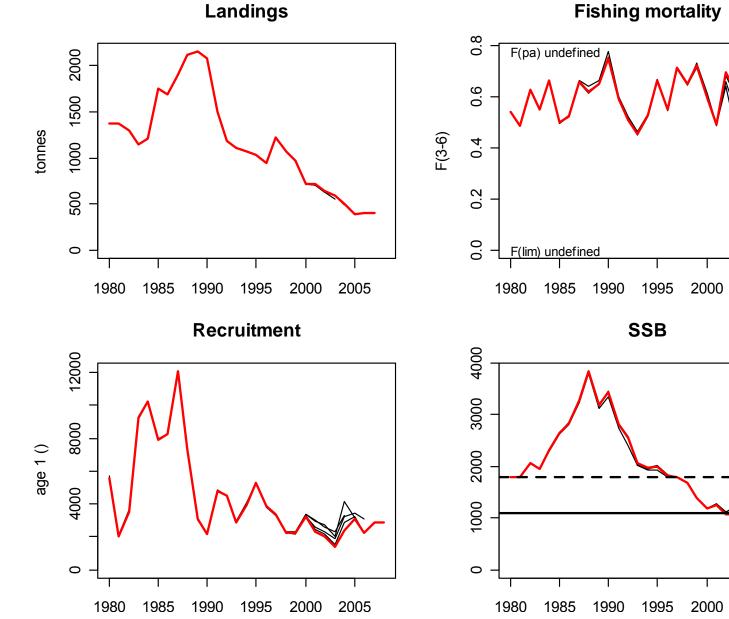
Celtic Sea Plaice (VIIfg)







Celtic Sea Plaice: trends





2005

2005

Вра

Blim



Celtic Sea Plaice VIIfg: advice

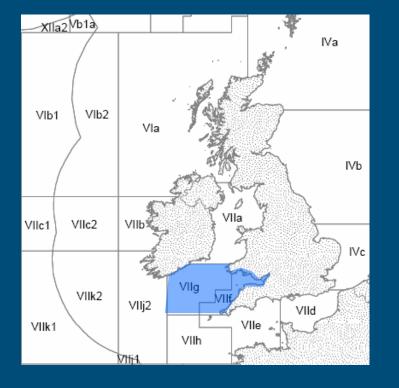
Last year

- 60% reduction in F to increase SSB to B_{pa} in 2009.
- landings \leq 240 t in 2008
- consideration: otherwise recovery plan

This year

- 75% reduction in F needed to increase SSB to around Bpa in 2010.
- Corresponds to landings of less than **170 t** in 2009.

Celtic Sea Sole (VIIfg)

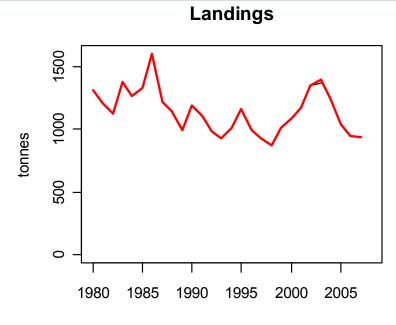




home WG2



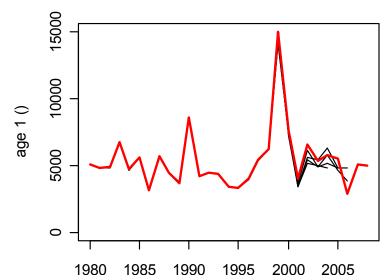
Celtic Sea Sole: trends



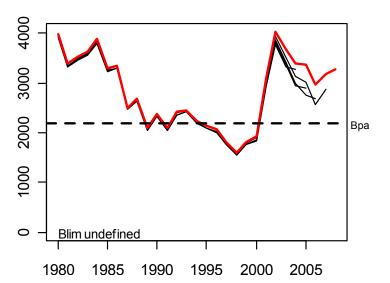
 $(9-1)^{-1}_{-1}$ $(9-1)^{-1}$

Fishing mortality

Recruitment









Celtic Sea Sole: advice

.....

Last year

- Fish at F_{pa}, expected to keep stock above B_{pa}
- Landings \leq 1 000 t.

This year

- Stock that is above Bpa
- Fishing mortality below Fpa
- No long-term gain in yield to increase F.
- ICES recommends status quo F: landings no more than 940 t.





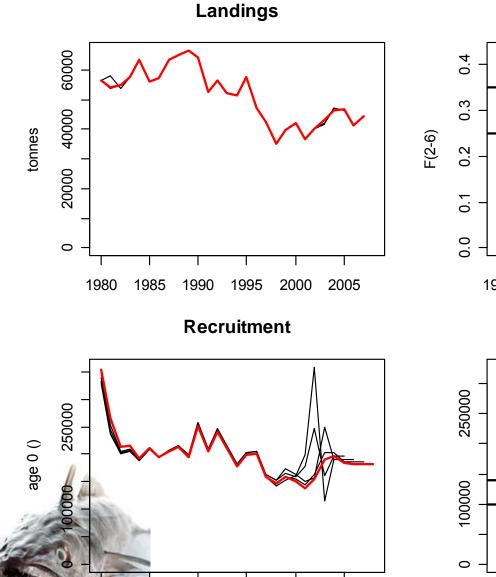
Northern hake (IIIa, IV, VI, VII, VIIIabd)

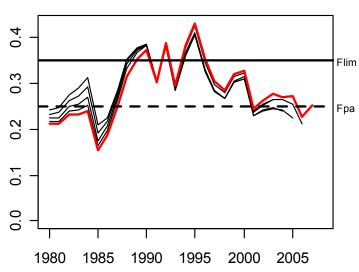






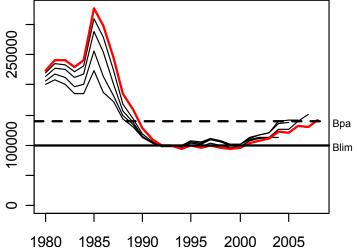
Northern hake: trends





Fishing mortality

SSB





Northern hake: advice



Last year

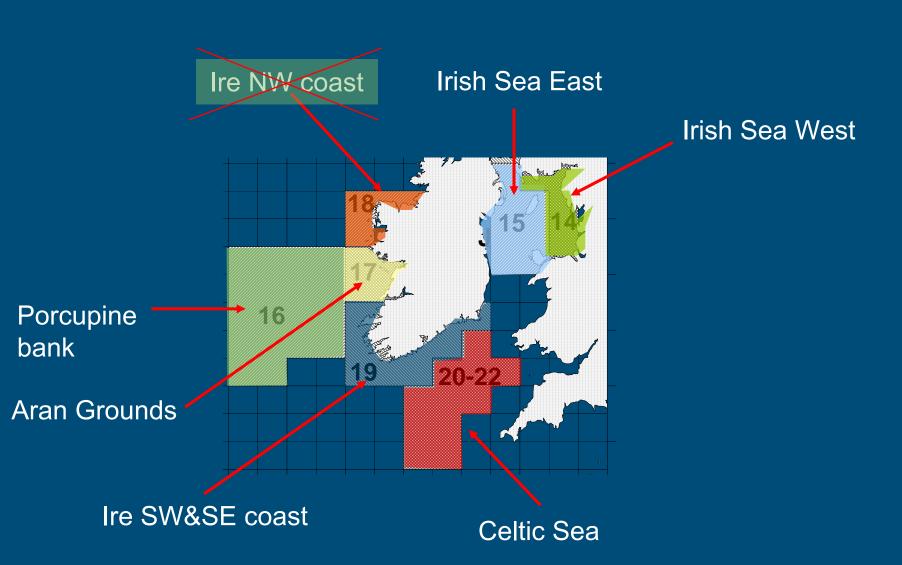
- According to recovery plan: target F=0.25 \rightarrow 54,000 t
- TAC change: 3%

This year

- Fpa = maximum fishing mortality recovery plan
- Landings for 2009 should not exceed 51 500 t.



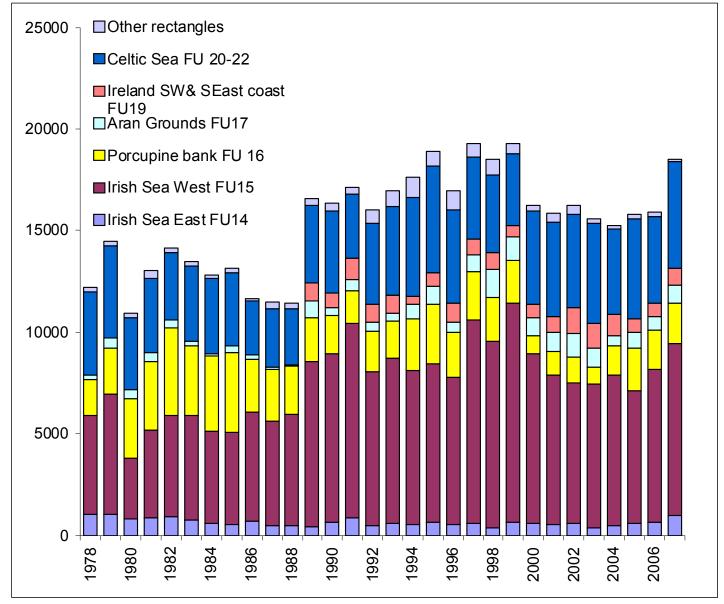
Nephrops in Subarea VII



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Nephrops in VII: landings



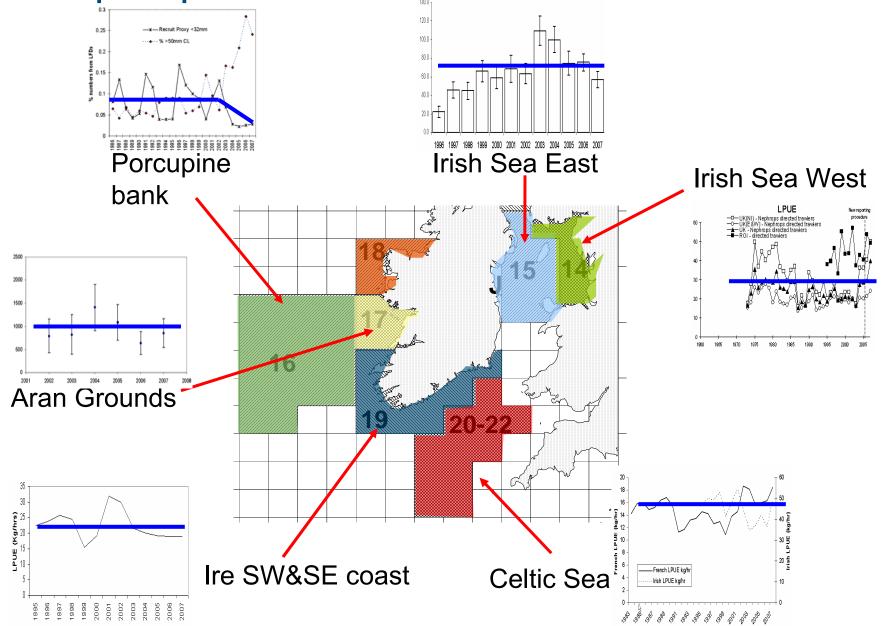




FU	Name	Area	UWTV	LPUE	Mean size	Sex ratio	Other
14	Irish sea East	VIIa		Х	X	Х	
15	Irish Sea West	VIIa	Х	X	X	Х	X
16	Porcupine Bank	VIIb,cj,k		Х	X	Х	X
17	Aran Grounds	VIIb	Х	Х	X	Х	
19	Ireland SW and SE coast	VIIa,gj		X	X		
20-22	Celtic Sea	V∥gj		Х	X		



Nephrops in VII: trends





Nephrops: advice

Advice in 2006

- Total landings relative stable
- constrain fisheries to recent levels of effort at Functional Unit

This year

- Porcupine
 - Apparent low recruitment
 - Recent expansion of the fishery ~ increased exploitation.
 - Reduce exploitation rate: restrict catches to no more than 1000t (catch level before the expansion of the fishery (2000–2003).
- Other areas
 - Current fishery appears sustainable
 - Constrain to recent average effort and landings (2007)

Anglerfish in VIIb-k and VIIIabd



"No new advice"



Lophius budegassa (black bellied angler)



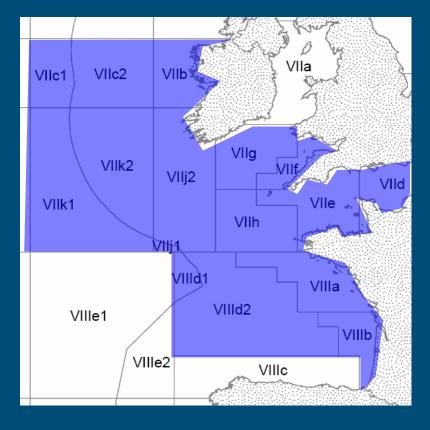
Lophius piscatorius (angler)



Anglerfish in VIIb-k and VIIIa,b,d

- Landings and survey information do not change stock perception
- Same advice as in 2007:
 - "...indicators point to the stocks being stable.
 - ICES recommends that the landings [..] should not exceed the average landings of 2004–2006.
 - ~ 33 000 tonnes."

Megrim in Divisions VIIb-k and VIIIabd





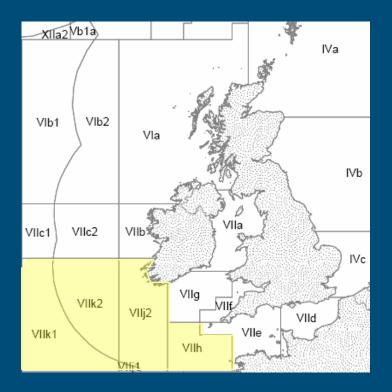
L. whiffiagonis (megrim)



Megrim in VII and VIII

- New survey data do not change stock perception
- Advice same as in 2007
 - ".. survey indicators and commercial data series point to the stock being stable.
 - ...Landings of L. whiffiagonis in 2009 should not exceed the average landings of 2004–2006.
 - ...~ 13 000 tonnes."

Plaice Southwest of Ireland (VIIh-k)





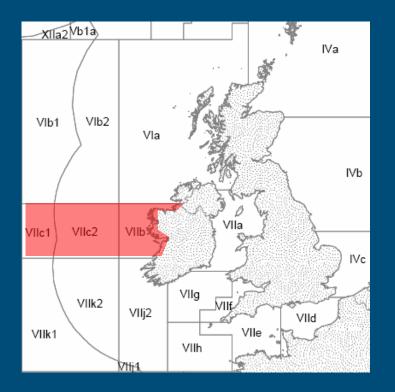




Plaice in VIIh-k: advice

- New data do not change stock perception
- Advice is the same as in 2007
 - "Catches should be no more than the recent average (2004–2006) of around 177 t, in order to avoid an expansion of the fishery until there is more information to facilitate an adequate assessment".

Plaice West of Ireland (VIIbc)





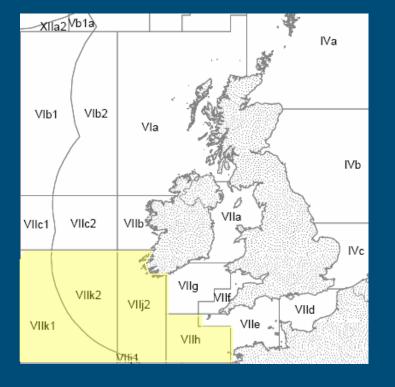




Plaice in VIIbc: advice

- New data do not change stock perception
- Same advice as in 2007
 - "Catches should be no more than the recent average (2004–2006) of around 40 t, in order to avoid an expansion of the fishery until there is more information to facilitate an adequate assessment".

Sole Southwest of Ireland (VIIh-k)



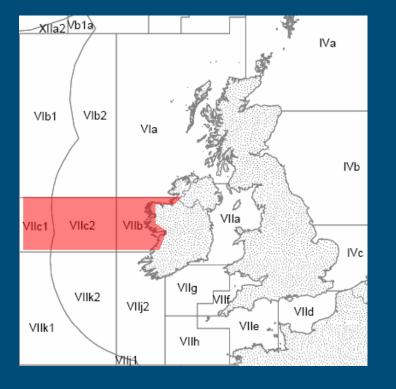




Sole in VIIh-k

- New data do not change stock perception
- Advice same as in 2007
 - "Catches should be no more than the recent average (2004–2006) of around 300 t
 - avoid an expansion of the fishery until there is more information to facilitate an adequate assessment".

Sole West of Ireland (VIIbc)



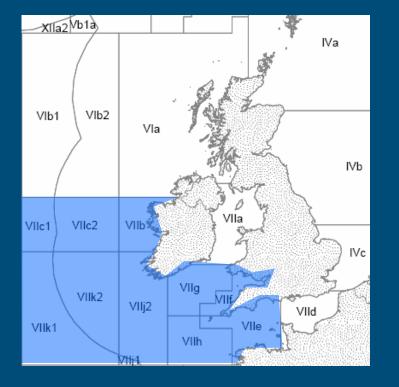




Sole VIIb,c: advice

- New landings data do not change stock perception
- Advice same as in 2007:
 - "Catches should be no more than the recent average (2004–2006) of around 50 t
 - Avoid an expansion of the fishery until there is more information to facilitate an adequate assessment."

Haddock VIIb-k





"No new advice"

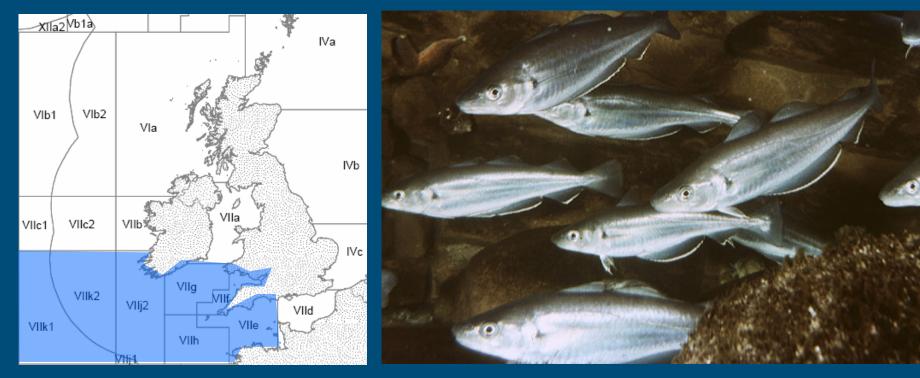
home WG2



Haddock VIIb-k

- Updated exploratory assessment does not change stock perception
- Same advice as in 2007
 - *"Future catches and SSB will be highly dependent on the strength of incoming year classes and their discard mortality.*
 - No strong recruitment has been observed since 2002 and estimated recruitment for 2006 is the lowest since 1997.
 - In this context the stock should be managed by ensuring that fishing effort is not allowed to increase."

Whiting VIIe-k







Whiting VIIe-k: advice

- New exploratory assessment does not change stock perception
- Advice same as in 2007
 - "The current estimates of fishing mortality and SSB are uncertain, but SSB shows a decreasing trend while recruitment is low.
 - ...fishing mortality should be reduced.
 - ICES cannot quantify the required reduction in fishing mortality."



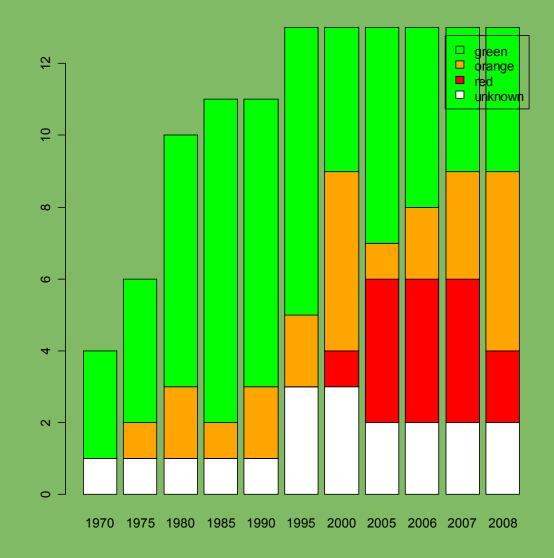
Whiting VIIe-k: consideration

- surveys do indicate that the 2007 year class may be strong.
- Management measures should be introduced in the Celtic Sea to reduce discarding
- Maximize the contribution to future yield and SSB.

Back to the big picture?



Stock status: similar to last year





New advice on nephrops and Sharks and Rays











We are changing the advisory process



Still to come: data workshops & integration







ICES and RACs: manage the process of change

