



Evidence needs for scallop fishery management proposals in 27.7.d & 27.7.e

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World Class Science for the Marine and
Freshwater Environment



Centre for Environment
Fisheries & Aquaculture
Science



Cefas

Proposals examined

- The harmonisation of seasonal closures for all fleets
- Setting the minimum ring size diameter at 92 mm
- Setting the minimum landing size at 110 mm



Process

- How could the measures offer stock conservation benefits?
- What evidence is there to support this?
- How can we fill the evidence gaps?
- *Not considered – but important*
 - *Stock definition?*
 - *Stock vs management area?*
 - *Management objectives.*

Common seasonal closure

Pathway for benefit

Reduced total annual fishing pressure?

Spawning improvement?

Reduced undersize impact?

Existing evidence?

Historical fishing effort

Spawning cycles / timing

Seasonal growth rates

Future evidence?

Effort displacement

Spat settlement

Incidental mortality rates

92mm ring size

Pathway for benefit

Reduced
undersize
impact?

Existing evidence?

Selectivity by
size

Future evidence?

Discard
mortality rates

Common 110mm MLS

Pathway for benefit

Protection of spawning potential?

Existing evidence?

Growth & maturity rates

Future evidence?

Discard mortality rates

Conclusions

- Evidence base not complete for full evaluation
 - Current estimates possible, but higher uncertainty
- Other considerations
 - Fisher response – potential to negate benefits?
 - Displaced impacts on other stocks
 - *Economic impacts*