

OUR SEAS :

MARINE MANAGEMENT

OR

MISMANAGEMENT ?



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Outline

Past Problems

The Problems Facing Us Now

What Needs to be Done

A Solution

Our Legacy



Status Quo



Powerful Fishing Associations

Failing Fisheries, Black Catch, By-Catch, Discards
Ecosystem/Habitat Damage

Influential Aquaculture Industries

Lack Spatial Planning, Cheapest Options
Preferred at Environmental Cost
Ecosystem/Habitat Damage



Oil and other industries

Impact Assessment?
What Costs?
Decommissioning?
Renewables

Status Quo Cont.

Fisheries

Most Global Fisheries; Overfished
Many Outside Safe Biological Limits

Examples:
Grand Banks
North Sea
Clyde



“The next big fin”
NewScientist
17 March 2009

Aquaculture

Spatial Planning
Lacks True
Environmental Awareness

**Environmental costs can be
high**



Status Quo Cont.

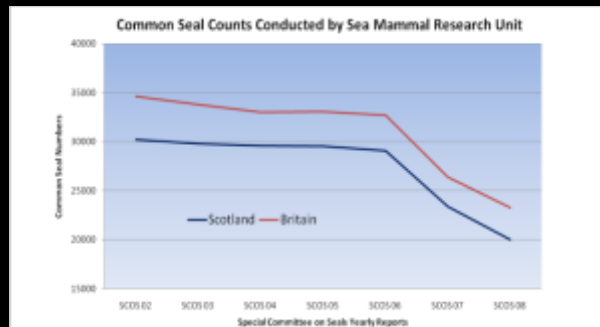


Top end predator
Ecosystem Indicator
Scapegoat
PDV
Bullets
Pathogens
Persecuted

Legislation; "Limited by design"

Consultations; "Limited by authors"

The Seal Example



Political/Government View; "Yes Minister"

NGO's; "Limited by resource"

Lismore Seal Management Group
Scottish Seals Forum
SSMEI Sound of Mull
Inchmarnock Fish Farm Application
Sound of Harris Fish Farm Application
Licence to KILL...in "groups"?

Local Opinions; "Fatigued"

New Legislation

Marine (Scotland) Act

Renewed Thrust (Climate Change/Biodiversity)

People Power: Groups Join Forces; LINK, SPG, LEAF

Who's Resources ?

New Pressures:
Renewables at what cost?

Some Facts Remain;

Our incomplete
understanding of
interactions in marine
ecosystems



Now for the Future

Cost of Doing Nothing
or Too Little ?

Price tags for planet Earth

Putting a cash value on nature may give officials heading to a biodiversity summit the jolt they need

Marine Protected Areas

Highly Protected Marine Areas

Marine Protected Areas
WITH No Take Zones

PLACING A VALUE ON EARTH'S BIOMES

(Value in dollars per hectare per year. The top end of each value range corresponds to prime locations)
Source: TEEB

Coral reefs (tropical and subtropical)

\$14 - \$1,195,000

Key values: tourism, storm protection, fish nurseries

Coastal wetlands

\$2000 - \$215,000

Key values: waste purification, fish nurseries, storm protection

Other coastal systems

\$248 - \$80,000

Key values: tourism, fish nurseries



Inland wetlands

\$1000 - \$45,000

Key values: natural water reservoirs, waste treatment

Rivers and lakes

\$1800 - \$13,000

Key values: water supply, waste treatment, tourism

Tropical forests

\$91 - \$23,000

Key values: climate regulation, gene banks (for medicinal plants, for example), erosion prevention

Temperate and boreal forests

\$30 - \$4900

Key values: Food, gene banks, watershed protection

Woodlands

\$16 - \$2000

Key values: timber and other forest products, waste treatment

Grasslands

\$300 - \$3100

Key values: climate regulation, watershed protection

For the Future Cont.

Current Thinking NEEDS to be “Turned on its Head”

Management Groups FREE from Commercial Pressures

Marine Environmental Issues Taken Outside Short Term Political Process



**Openness & Action, Make a Meaningful Difference,
in Our Generation for those who Follow**

Real Stakeholder Participation

We are at a Global “Tipping Point”

For Both Climate Change and Biodiversity Loss

For the Future Cont.

Marine Protected Areas: Include No Take Zones

Re-Introduce "Three Mile Limit" (Restricting Damaging Mobile Gear)

Listen to and include less vocal, less confrontational fishing associations

Listen to and include informed individuals/groups

Act on comments from consultations

Use data/information from previous consultations

Marine Reserves Work!



People are becoming more aware,
More informed



We are the Custodians What Ever your Pleasure or Business

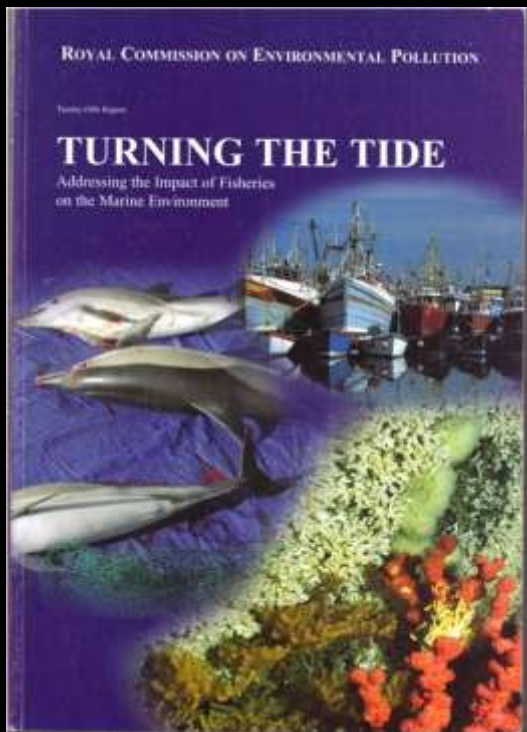


We simply can't afford to let our marine environment go!

TO ALLOW FOR MARINE RECOVERY:

30% NO TAKE !

We have a moral obligation
to our future generations



What we leave them
IS DOWN TO US!

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