Title: A Suite of recommended Marine Conservation Zones in English Inshore Waters and English, Welsh and Northern Irish Offshore Waters IA No: Lead department or agency: Defra				Impact Assessment (IA)				
				Date: 29/06/	/12			
				Stage: Deve	elopment/Op	ptions		
				Source of ir	ntervention	: Domestic		
				Type of mea				
Other departments of Committee (JNCC), N	Contact for enquiries:							
Summary: Inter	RPC Opinion: RPC Opinion Status							
	ore likely)	Option						
Total Net Present Value	Business Net Present Value	Net cost to busine year (EANCBon 2009		In scope of One-Out?	One-In, M	leasure qu	alifies as	
Unquantified	Unquantified	Unquantified		No		In/Out/zer	o net cost	
necessarily aim to co environmental impact costs of activities are affects society as a w protecting marine ha What are the policy o The Government aim An ecologically cohe will help marine ecos UK's commitments to Directive. Marine Co MCZs helps to delive supported by stakeh	ts that their activi taken into account whole. Governme bitats and specie bitats and specie bjectives and the ns to have 'clean, rent network of N systems adapt to o international ago nservation Zones or the Governmer	ties have, and ther int. The resulting d nt intervention is re s, the value of the intended effects? healthy, safe, prod larine Protected Ar climate change. Th reements and oblig s (MCZs) are an es	e is no exi epletion of equired to marine en ductive an reas (MPA ne network gations an sential cor	isting mecha f marine hat address the vironment to d biologicall (s) is an ess of MPAs w d the Marine mponent of	anism to e bitats and s ese market o society c ly diverse o sential part vill contribu e Strategy this. The p	coceans and of this strate framewo or cedure	gatively 'hrough ntained. d seas'. ategy and ing the 'k to identify	
What policy options I option (further details Only one policy option the Government of the	h ave been consid e s in Evidence Base on has been cons	e) idered: that of desi	gnating M	CZs. The p	urpose of t	the IA is to	inform	
the policy decision at considered, as Policy suite of MCZs that be RSGs as iterations of contribution to meetin and because they m Marine and Coastal necessary contribution	bout whether the y Option 1 repres est meets the reg luring the planning ng the statutory E inimise adverse s Access Act 2009.	suite of MCZs sho ents the consensu ional MCZ projects g process. The fina cological Network social and economi The regional MCZ	uld be des s of the re s' aims. Nu al recomm Guidance ic impacts Z projects a	signated. Ot gional stake umerous op endations w provided by , thereby me are recomm	ther options eholder gro tions were vere chose y JNCC ar eeting the hending the	s are not oups (RSG considere on both for nd Natural requireme	s) on the d by the their England nts of the	
Will the policy be rev	iewed? It will be re	eviewed. If applical	ble, set rev	view date: N	/lonth/Year	r		
Does implementation g	go beyond minimun	n EU requirements?			No			
Are any of these organ	instigna in acono?	If Micros not	Micro	< 20	A			
					Small Yes	Medium Yes	Large Yes	
exempted set out rease What is the CO_2 equiva (Million tonnes CO_2 eq	on in Evidence Bas alent change in gree	e.	Yes	Yes	Small Yes Traded: Unquantifi	Yes Non-	Large Yes traded: antified	

Date:

Summary: Analysis & Evidence

Description:

FULL ECONOMIC ASSESSMENT

Price Base PV Base			Time Period		Net Benefit (Present Value (PV)) (£m)				
Year 2010	Year 2	2012 Years 20		Low: Unquantified High: Unquantifi		High: Unquantified	Best Estimate: N/A		
COSTS (£	m)		Total Tra (Constant Price)	AnsitionAverage AnnualYears(excl. Transition) (Constant Price)			Total Cost (Present Value)		
Low			£56.0m		£13.7m		£237.5m		
High			£536.6m		£25.6m				£817.5m
Best Estima	te		£151.2m			£17.1m	£365.5m		

Description and scale of key monetised costs by 'main affected groups'

Quantified economic impacts on:

- Aggregate extraction (£0.04-£2.72m/yr, best estimate: £0.043m/yr);
- Aquaculture (£0-£0.28m/yr, best estimate: £0.14m/yr);
- Cables (£0.004–£0.01m/yr, best estimate: £0.008m/yr);
- Commercial fisheries (£1.04-£6.93m/yr, best estimate: £3.45m/yr);
- Flood and coastal erosion risk management (£0.001m/yr);
- National defence (£0.01m/yr);
- Oil and gas (£0.25–0.47m/yr, best estimate: £0.36m/yr);
- Ports, harbours, commercial shipping and disposal sites (£0.33-£2.00m/yr, best estimate: £1.32m/yr);
- Recreation (£0.92-£1.58m/yr, best estimate: £1.32m/yr); and
- Renewable energy (£0.02-£23.50m/yr, best estimate: £3.54m/yr).

Plus costs to the public sector of managing MCZs (£7.22–£8.23m/yr, *best estimate: £7.72m/yr*) and costs for ecological surveys (£6.71m/yr).

Other key non-monetised costs by 'main affected groups'

In the high cost scenario, potential unknown costs of mitigating impacts of inter-array cable protection on MCZ features arise for 3 yet to be consented wind farms in 3 rMCZs. There are potential unknown costs for mitigation in the high cost scenario for ports, harbours, shipping and disposal sites, arising from unknown future plans and proposals. In the high cost scenario, rMCZs result in unknown licence application costs for aggregate extraction in strategic resource areas. Further impacts upon archaeological activity in MCZs that are not MCZ Reference Areas could arise from mitigation of impacts of archaeological techniques on MCZ features. Further increased costs may arise for licence applications for yet to be discovered archaeology. In the high cost scenario, the impacts of 4 rMCZs on flood and coastal erosion risk management are assessed in terms of the provision of compensation for the effect on the sites' features (because mitigation is not feasible). Similarly, in both the high and low cost scenarios, impacts of 3 rMCZs on navigational dredges and impacts of 1 rMCZ on a designated shipping anchorage are assessed in terms of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features of the cost of compensation for the effect on the sites' features.

As a result of rMCZs, there are unknown costs for 3 known coastal developments (in 2 rMCZs), 5 known port developments and potential future developments for tidal energy (in 3 rMCZs). Also unknown costs occur to 3 known proposed power interconnector cable routes. The latter has not been costed as the routes are not known. Unknown one-off costs for shipping incurred for purchasing updated charts and Sailing Directions with MCZ locations and management requirements. In addition, social and unknown economic impacts from effects on fisheries have not been costed. There may be potentially significant impacts on some businesses and local economies through restrictions on certain recreational activities and unknown costs to the public sector.

BENEFITS (£m)	Total Tran (Constant Price)	sition Years	Average Annual (excl. Transition) (Constant Price)		Fotal Benefit Present Value)	
Low	Optional		Optional		Optional	
High	Optional		Optional		Optional	
Best Estimate	Unquantified		Unquantified	l	Jnquantified	
It has not been possib	le to monetise the be and the majority of be	enefits onefits a	r 'main affected groups' of designating the sites. This is re not traded, so cannot be eas d groups'		efits cannot	
Conservation of marine species and habitats for current and future generations, which people value. Maintenance or improvement in condition of the features and the value of their non-extractive ecosystem services. Benefits to nature-based recreation activities. Protection of resources will benefit research and education, as reference areas can be used to assess and improve understanding of the long-term impacts of human activities on marine ecosystems. This should lead to improved management of such activities.						
Key assumptions/sens	sitivities/risks			Discount rate	3.5%	
 Key assumptions/sensitivities/risks Discount rate St% Where rMCZ Reference Areas are located within a larger rMCZ, the impacts of the former are assessed separately from the latter. Implementation of management measures (and impacts) will start when rMCZs are designated, assumed to occur at the beginning of 2013. Where necessary, verification will be necessary to confirm the presence and extent of features within many sites. This is assumed to take place in advance of implementation of management measures. Management will be decided after designation, so plausible scenarios are used to describe the additional management of activities that may be needed. Uncertainty in the management that may be required is addressed through the use of more than one scenario, which reflects the potential range of impacts. Scenarios do not pre-judge the management that will be required in practice and may be underestimates or overestimates of the true impact of MCZs. Management will be fully enforced and effective. Boundaries, the locations of features and conservation objectives in MCZs are as specified in the regional MCZ projects' site recommendations. The total impact of the suite of rMCZs has been adjusted to account for site overlaps. Mitigation of impacts of licensed activities will be provided through the existing marine licensing framework. Existing consents that could impact on MCZ features will not be reviewed following designation of MCZs. Costs that operators incur voluntarily and costs that are incurred prior to designation of MCZs are discussed in the narrative but not included in costs presented in the IA summary. The cost to the commercial fishing sector is equivalent to the value of landings and GVA affected attributed to the area of rMCZs. This is likely to be an overestimate of the true value of landings and fetcted as a proportion of effort currently expended within rMCZs is likely to be displaced to ar						

BUSINESS ASSESSMENT (Option 1)

Direct impact on bus	iness (Equivalent Annu	In scope of OIOO? Measure qualifies a		
Costs: £10.19	Benefits: N/A	Net: N/A	Yes	IN/OUT/Zero net cost

Evidence Base (for summary sheets)

There is discretion for departments and regulators as to how to set out the evidence base. However, it is desirable that the following points are covered:

- Problem under consideration;
- Rationale for intervention;
- Policy objective;
- Description of options considered (including do nothing);
- Monetised and non-monetised costs and benefits of each option (including administrative burden);
- Rationale and evidence that justify the level of analysis used in the IA (proportionality approach);
- Risks and assumptions;
- Direct costs and benefits to business calculations (following OIOO methodology);
- Wider impacts (consider the impacts of your proposals, the questions on pages 16 to 18 of the IA Toolkit are useful prompts. Document any relevant impact here and by attaching any relevant specific impact analysis (e.g. SME and equalities) in the annexes to this template)
- Summary and preferred option with description of implementation plan.

Inserting text for this section:

Replace the notes on this page with the text for the evidence base.

To maintain consistent formatting, apply Styles from the toolbar. The **Paste Without Format** toolbar button can be used to paste text from other documents in the current style here.