

Real-time Spurdog By-catch Avoidance Programme

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16 - 17th November 2016

**NWWAC Focus Group on Skates and Rays
Dublin, Ireland**

World Class Science for the Marine and Freshwater
Environment



Centre for Environment
Fisheries & Aquaculture
Science



Cefas

ISSUE

This is important for:

The fishing industry – Loss of earnings, wasteful practice & concerns of a ‘choke’ species

Policy officials (National & European) – Oppose wasteful discards & mitigate a ‘choke’ species

ENGO - Championing conservation, sustainable exploitation & effective management measures



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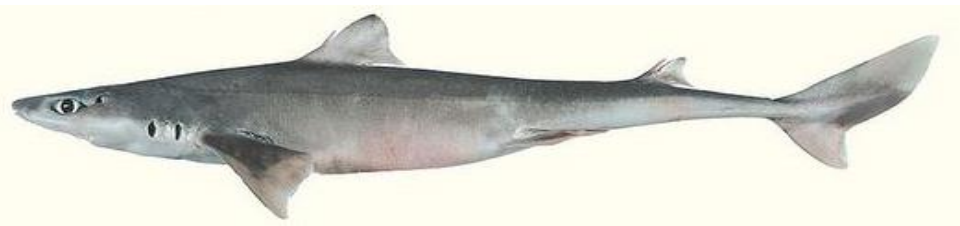


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The “Do Nothing” approach



= Prohibited species

= Not a choke species

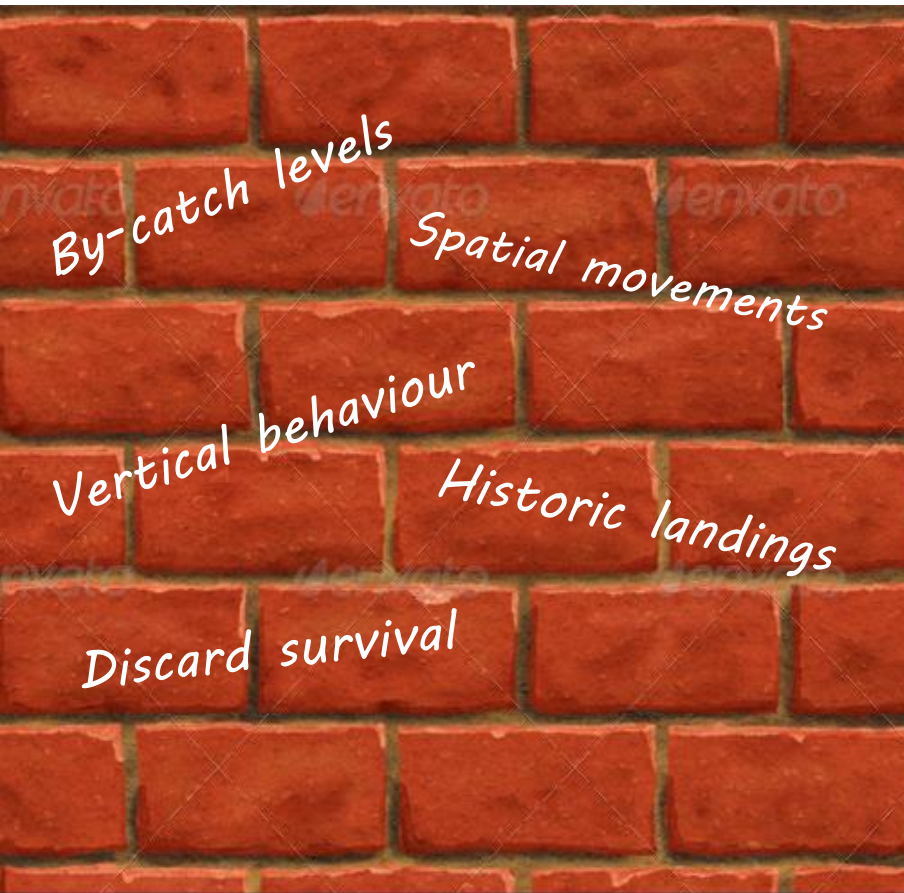
**No landings permitted
now or in future**



**Unavoidable bycatch &
'live'/ 'dead' discarding will
continue**



Collaborative research partnership



**Foundation of collaborative
working & partnership**



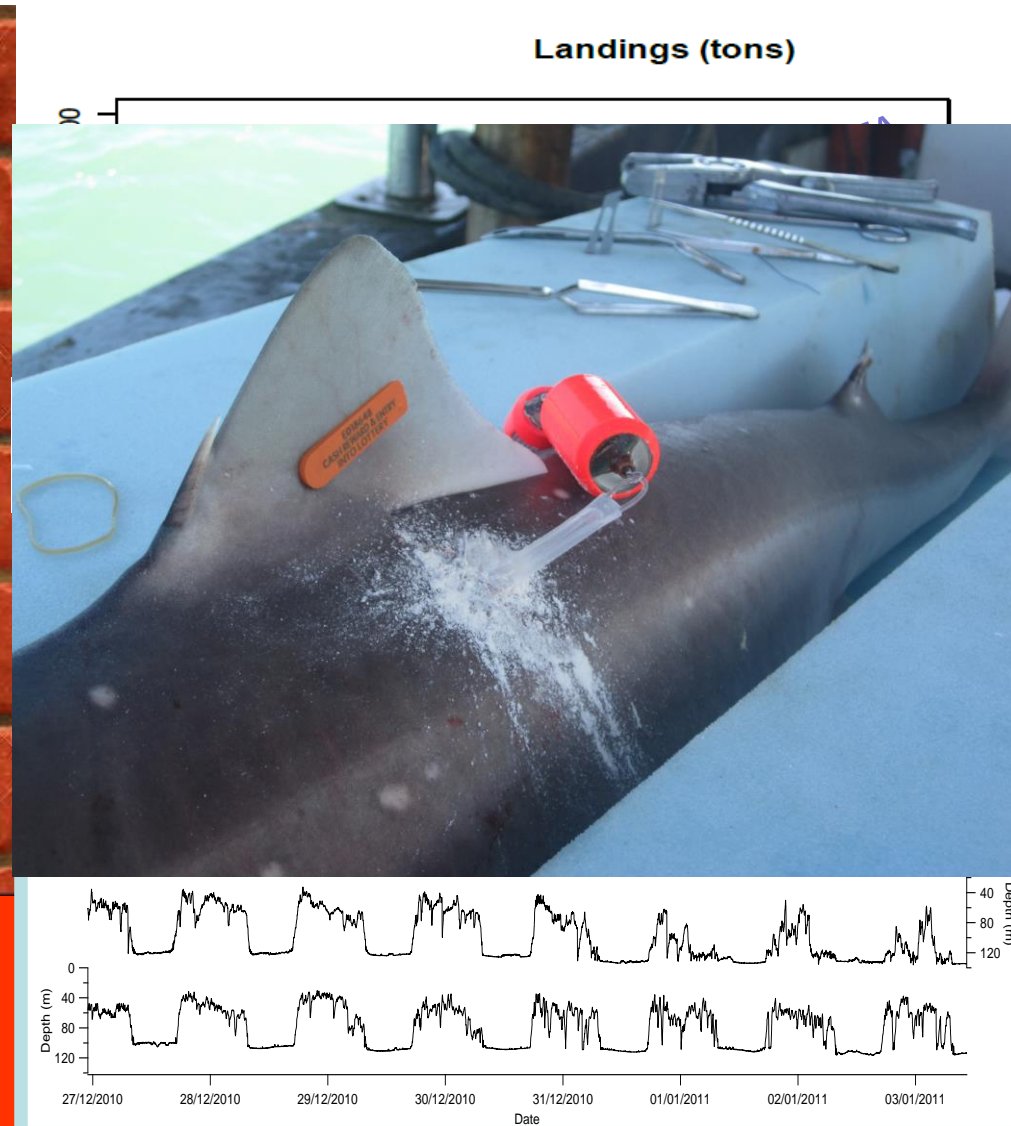
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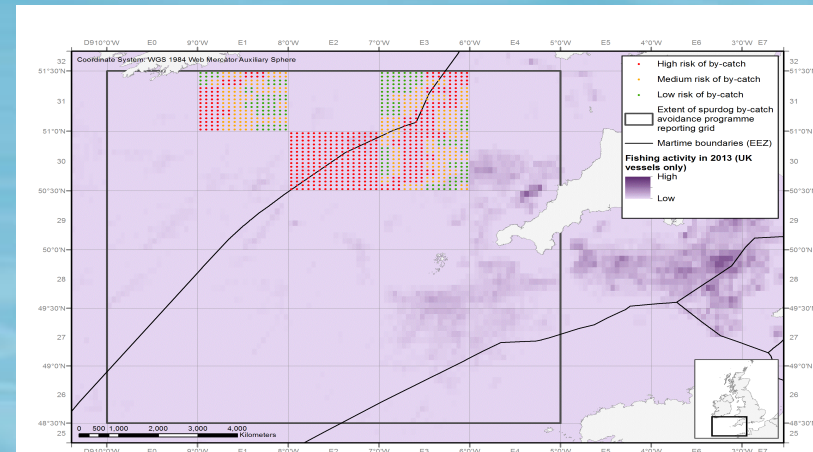
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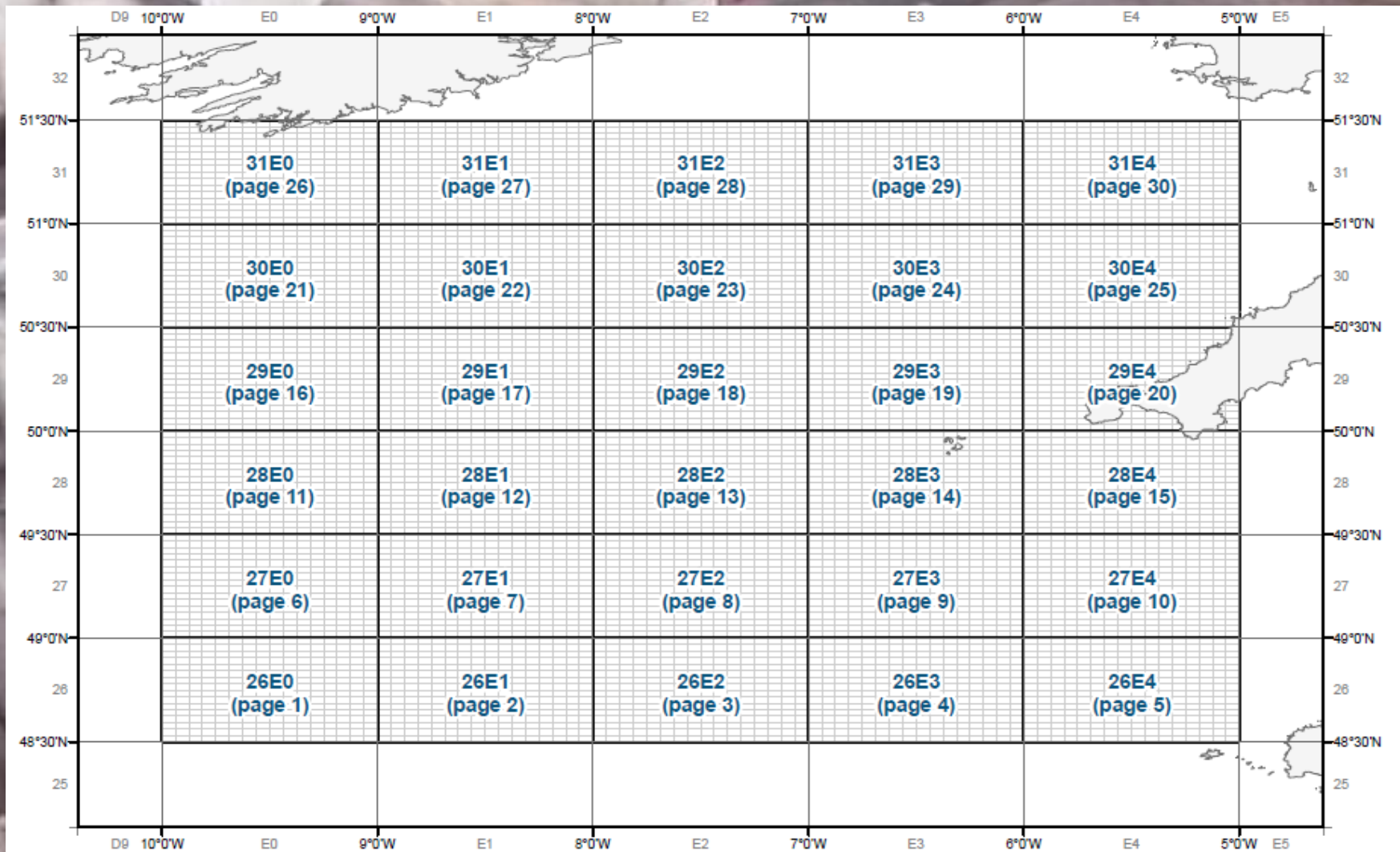


A pilot project to develop a real-time Spurdog By-catch Avoidance Programme

- A 'traffic light' tool to help avoid significant by-catch aggregations, reduce dead discards and reduce fishing induced mortality
- Voluntary 'triggers' to advise the fleet of actions to be taken in areas with significant by-catch
- Provide information to the fishing industry for them to self-manage their by-catch allowance, so not to choke the fishery.



Grid cells fished



Email report to fishermen's organisation

Sent from my iPhone

Begin forwarded message:

From: xxxxxxxxxxxxx@stratosmobile.net

Date: 20 October 2015 18:49:20 BST

To: xxxxxxxxxxxxx@gmail.com

Subject: Message from Inmarsat-C Mobile

From xxxxxxxx, Skipper of xxxxxxxxxxxxxx PZ xxxxxx,
Date 19/10/15

Hauled 7 mile of 125mm gill nets . 14-24 hr soak

29e1, p 13. 66kgs mixed size spurdogs

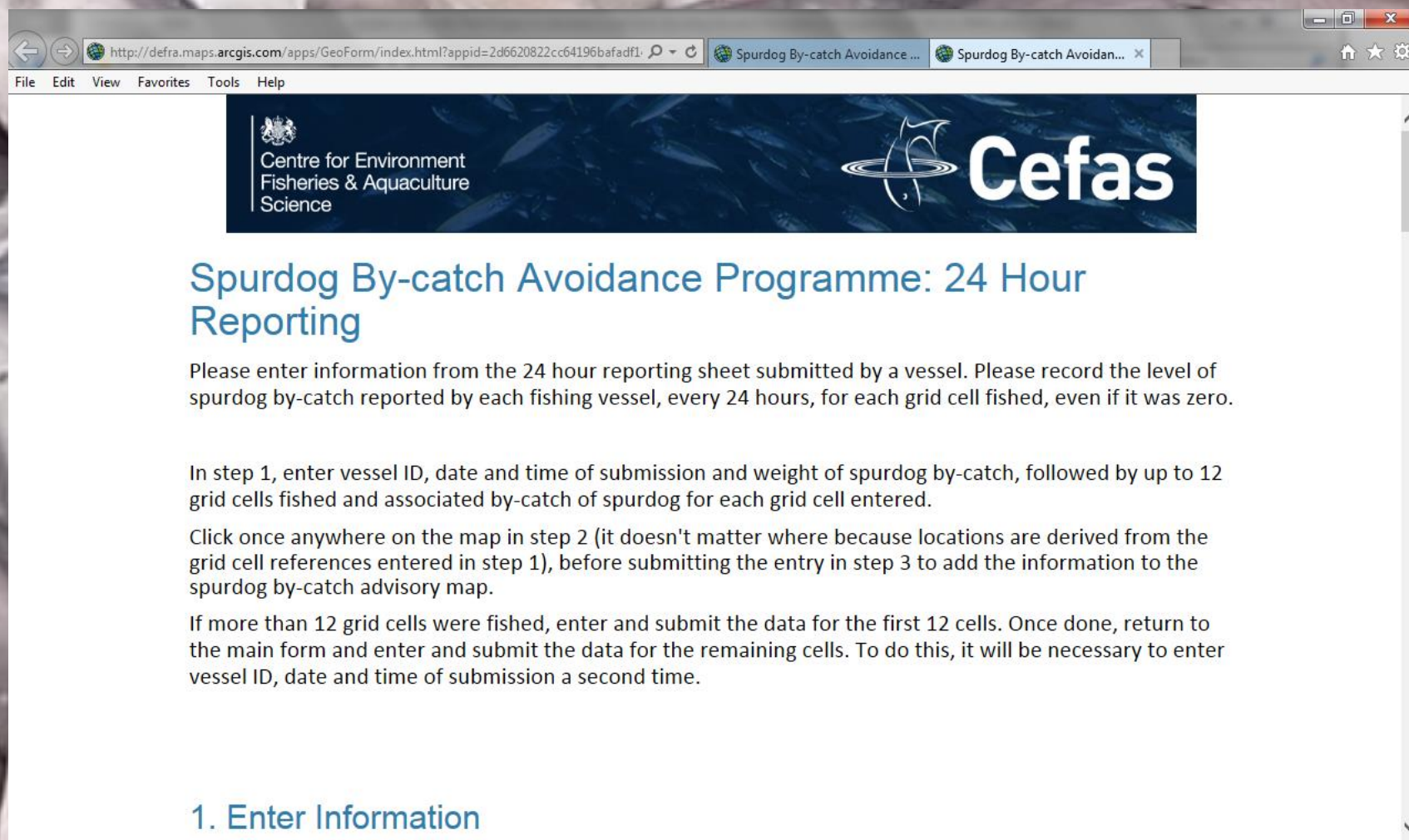
29e2, g,13 33kgs mixed size spurdogs

29e2, f,12, 50kgs mixed size spurdogs

Thank you ,rgds



By-catch report entered into the online portal



The screenshot shows a web browser window with the URL <http://defra.maps.arcgis.com/apps/GeoForm/index.html?appid=2d6620822cc64196bafadf1>. The browser has two tabs open, both titled "Spurdog By-catch Avoidance...". The page header features the logos for the Centre for Environment Fisheries & Aquaculture Science and Cefas. The main heading is "Spurdog By-catch Avoidance Programme: 24 Hour Reporting". Below this, a paragraph states: "Please enter information from the 24 hour reporting sheet submitted by a vessel. Please record the level of spurdog by-catch reported by each fishing vessel, every 24 hours, for each grid cell fished, even if it was zero." This is followed by two instructional paragraphs. The first paragraph says: "In step 1, enter vessel ID, date and time of submission and weight of spurdog by-catch, followed by up to 12 grid cells fished and associated by-catch of spurdog for each grid cell entered." The second paragraph says: "Click once anywhere on the map in step 2 (it doesn't matter where because locations are derived from the grid cell references entered in step 1), before submitting the entry in step 3 to add the information to the spurdog by-catch advisory map." A third paragraph explains: "If more than 12 grid cells were fished, enter and submit the data for the first 12 cells. Once done, return to the main form and enter and submit the data for the remaining cells. To do this, it will be necessary to enter vessel ID, date and time of submission a second time." At the bottom of the form, the section "1. Enter Information" is visible.

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Spurdog By-catch Avoidance Programme: 24 Hour Reporting

Please enter information from the 24 hour reporting sheet submitted by a vessel. Please record the level of spurdog by-catch reported by each fishing vessel, every 24 hours, for each grid cell fished, even if it was zero.

In step 1, enter vessel ID, date and time of submission and weight of spurdog by-catch, followed by up to 12 grid cells fished and associated by-catch of spurdog for each grid cell entered.

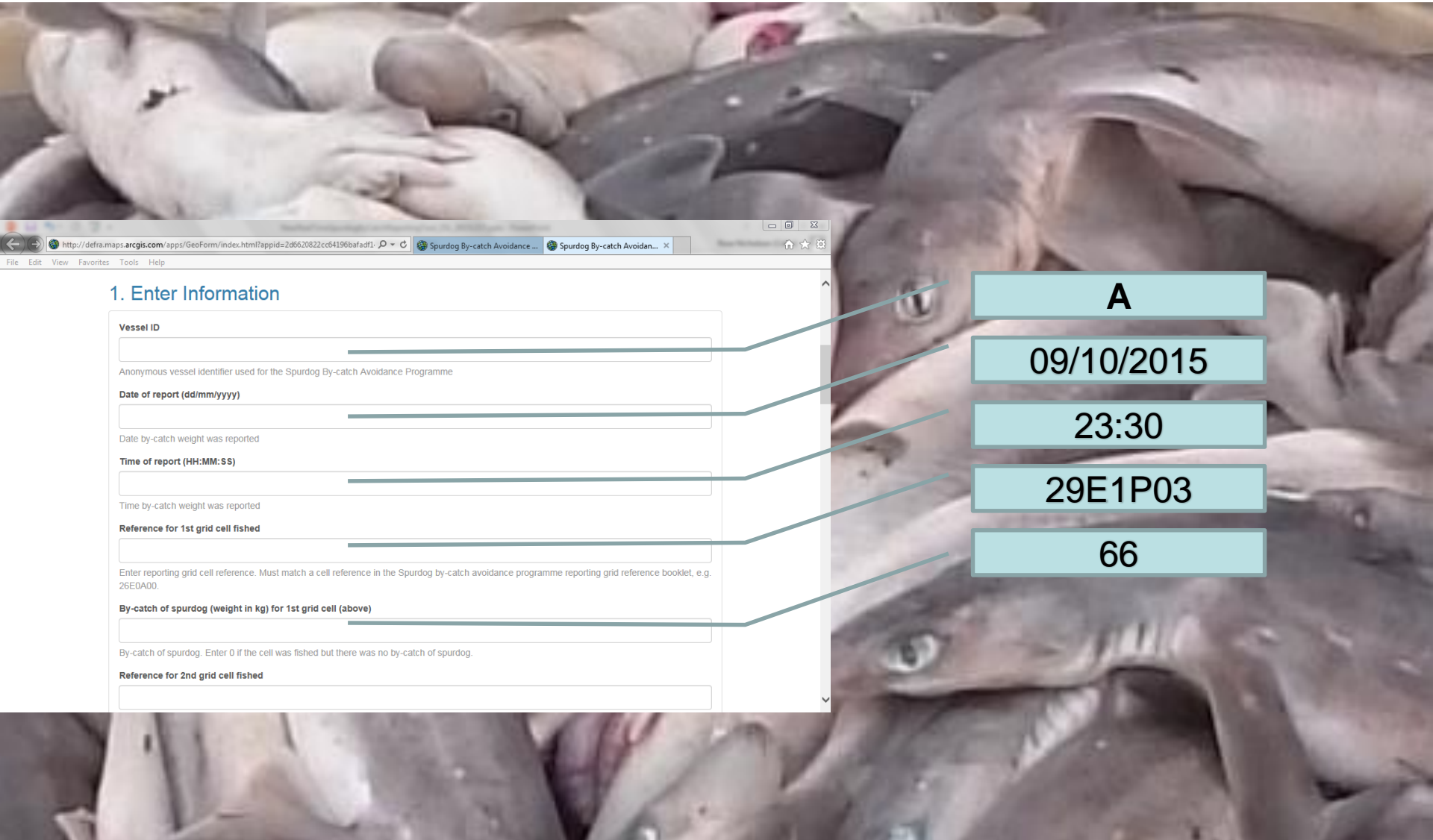
Click once anywhere on the map in step 2 (it doesn't matter where because locations are derived from the grid cell references entered in step 1), before submitting the entry in step 3 to add the information to the spurdog by-catch advisory map.

If more than 12 grid cells were fished, enter and submit the data for the first 12 cells. Once done, return to the main form and enter and submit the data for the remaining cells. To do this, it will be necessary to enter vessel ID, date and time of submission a second time.

1. Enter Information



By-catch report entered into the online portal



1. Enter Information

Vessel ID

Anonymous vessel identifier used for the Spurdog By-catch Avoidance Programme

Date of report (dd/mm/yyyy)

Date by-catch weight was reported

Time of report (HH:MM:SS)

Time by-catch weight was reported

Reference for 1st grid cell fished

Enter reporting grid cell reference. Must match a cell reference in the Spurdog by-catch avoidance programme reporting grid reference booklet, e.g. 26E0A00.

By-catch of spurdog (weight in kg) for 1st grid cell (above)

By-catch of spurdog. Enter 0 if the cell was fished but there was no by-catch of spurdog.

Reference for 2nd grid cell fished

A

09/10/2015

23:30

29E1P03

66



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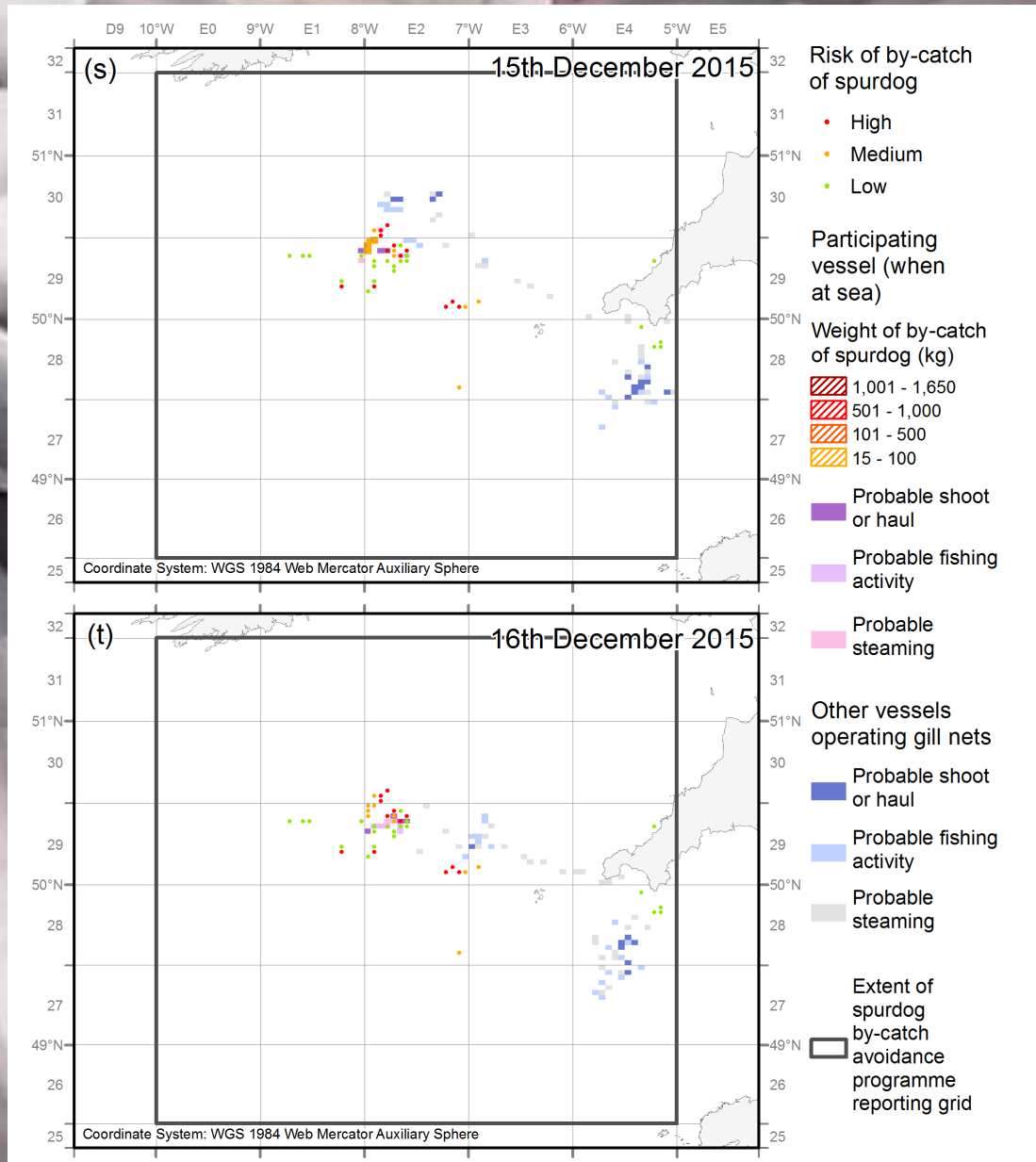


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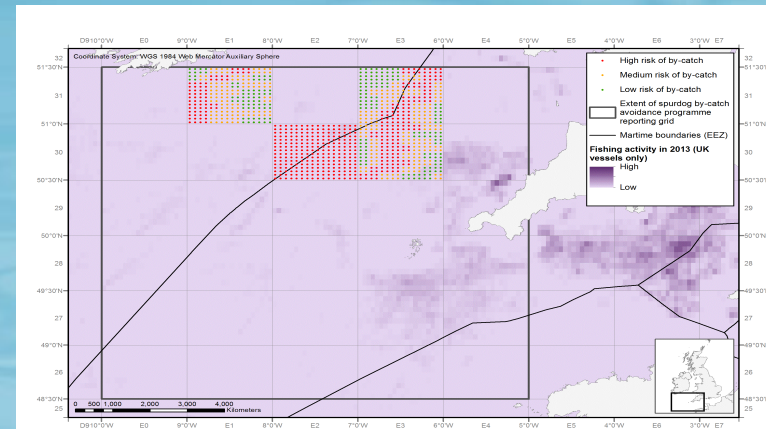
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By-catch Advisory notices



Progress to January 2016

- Functional, low-cost, real-time by-catch reporting tool developed & in place.
- Begun real-time mapping of seasonal spurdog by-catch to help underpin future decisions on avoidance
- Used historic fishery-dependant by-catch and discards data, VMS data and e-logbook data, to evaluate spurdog by-catch avoidance behaviour.
- The initial phase has shown that the participating vessel demonstrated voluntary avoidance



STECF evaluation & EC support



TO DEVELOP A REAL-TIME
PROGRAMME TO MITIGATE A
FISHING INDUCED

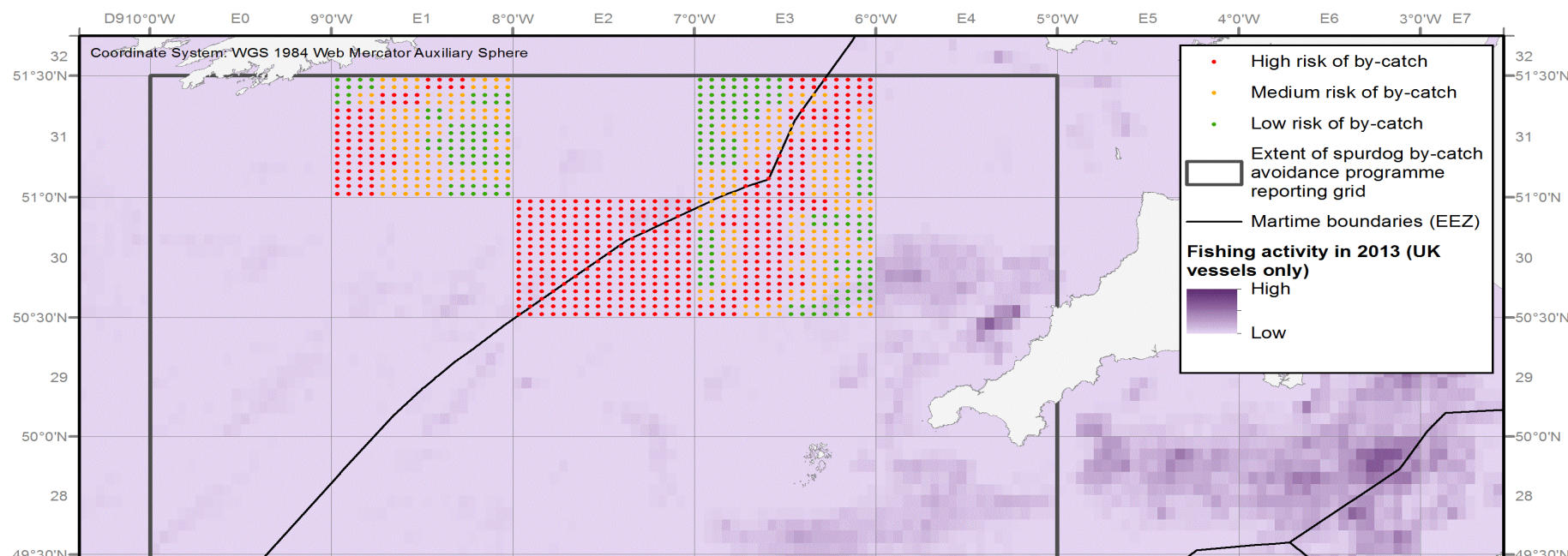
RTS and Carl O'Brien
estoft, Suffolk, NR33 0HT, UK

CY REPORTS

Species:	Picked dogfish	Zone:	Union and international waters of I, V, VI, VII, VIII, XII and XIV
	<i>Squalus acanthias</i>		(DGS/*15X14)
Belgium	20	Analytical TAC	
Germany	4	Article 3 of Regulation (EC) No 847/96 shall not apply	
Spain	10	Article 4 of Regulation (EC) No 847/96 shall not apply	
France	83	Article 12(1) of this Regulation applies.	
Ireland	53		
The Netherlands	0		
Portugal	0		
United Kingdom	100		
Union	270		
TAC	270		

amending Regulation

Outcome



Evaluated by STECF, supported by all partners & the European Commission

Evidence based by-catch allowance

Potential to reduce overall fishing mortality, enable stock recovery, minimise a choke species & end the practice of wasteful dead discarding



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Thank you for listening & I'm happy to take any questions

Contact

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www.cefas.co.uk

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www.linkedin.com/company/cefas

