#### **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 



## MARK SCHEME for the May/June 2014 series

# 0417 INFORMATION AND COMMUNICATION TECHNOLOGY

**0417/22** Paper 2 (Practical Test A), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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Auto\_filename & path

Centre number. Candidate number

#### **UK FISHING INDUSTRY 2011** Header Filename & path left, Centre & candidate numbers right aligned 1 mark

ze and

Subtitle

Data entry 100% accurate, right aligned 1 mark 14 pt sans-serif, italic 1 mark Draft report by: Candidate Name

3–4 pt outside border applied to titles 1 mark

Title

Data entry 100% accurate, centred 1 mark 28 pt. sans-serif, underlined 1 mark

<del>LU Fishing Fi</del>eet

In 201 an Union **Body text** th 6,444. was Spain's is almost 2 columns, 2 cm col spacing 1 mark double ul fishing 12 pt, serif font 1 mark h the UK fleet wil Single line spacing, fully justified 1 mark le below the four provides more detail:

LARO	GEST CAPACI	TY EU STATE	<u>S</u>
	Number of vessels	Gross Tonnage	Engine Power (kW)
Spain	10,503	398,894	900,663
United Kingdom	6,444	202,048	808,887
Italy	13,077	175,531	1,058,610
France	7,219	171,301	1,002,829
Netherlands	845	152,666	343,705
Portugal	8,380	101,575	371,579
Greece	16,663	83,804	483,193
Denmark	2700		
Germany	Footer Date left, Can	didate name righ	nt 1 mark
Ireland	1		

England

The UK fishing fleet in

**Bullets** Wales

Scotland

numbers right aligned, gridlines displayed

Square bullets applied Bullet indented to 2.5 cm Northern Ireland

Islands (Guernsey, Jersey and the Isle of Man)

The number of registered UK fishing vessels has fallen by 26% since eriod.

Light grev shading

to **Table** Complete, in correct place within column width le a 1 mark Belgium row deleted (above Portugal) 1 mark ties, 1st row - cells merged, heading centred The bold and underlined 1 mark land 2<sup>nd</sup> row – bold, centred, headings wrapped 1 mark than Font matches body text (12 pt, serif) 1 mark Text on one line (rows 3-12),

accounting for 40%, withst Scottish vessels make up 32%. Although Scotland has fewer vessels, they have the highest share of capacity and power. Part of the reason that England has a larger number of vessels but a smaller share of capacity and power is that the English fleet has a higher proportion of smaller vessels.

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Candidate name

sels,

1 mark

1 mark

1 mark

1 mark

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Each fleet in the UK are engaged in different fishing opportunities depending on the area of the country. The Scottish fleet are catching fish that are high volume but lower priced. This includes catches such as the herring and mackerel in the North Sea and West of Scotland waters. As a result the Scottish fleet has higher capacity vessels. These can cover large sea areas and catch several hundred tonnes of fish per vessel in order to be economically viable.

The English fleet are catching fish which are typically lower volume but higher priced, such as the Channel fisheries for sole and plaice. In addition, a greater proportion of the fleet are smaller vessels covering inshore areas. As a result the English fleet has a greater proportion of smaller vessels that are economically viable as they catch smaller quantities of more valuable fish.

## **Administration Port**

In 2011 Newlyn in Cornwall had the largest number of vessels in its administration with 622; 88% of these were smaller boats. The fleet administered by Fraserburgh in Scotland administered fewer boats with 206 but by far the largest capacity with 35,100 gross tonnage and 96,400 kW power. The largest proportion of 10 metre and under vessels was in Hastings with 93%. Administration ports in Wales and the south and west coast of England also had large proportions of smaller vessels.

## Vessel Age

In total, 62% of the UK fleet (whose age is known) were built more than 20 years ago. While the number of vessels being built since 1991 has decreased, the average capacity and power of these vessels has increased by 50%.

# Centre number, Candidate number Number of Fishermen

Since records began in 1938 the number of fishermen working on UK registered vessels has decreased by 74%. In the last decade the numbers have decreased by 15% from about 15,000 to 12,400. This decrease is due to reductions in fleet size and fishing opportunities. Milford Haven, Wales has the largest number of fishermen in the UK with 991, Newlyn in Cornwall has 872 and Fraserburgh has the largest number of fishermen in Scotland with 788.

## **Accidents, Lost Vessels and Fatalities**

During 2011, 299 accidents involving UK registered fishing vessels were reported compared to 272 in 2010. There were 8 fatalities to crew compared with 5 in 2010 and 24 fishing vessels were reported lost. This is the highest number of lost vessels recorded since 2005. The routine wearing of personal flotation devices when fishermen are working on the open deck would reduce the unnecessary loss of life that often occurs when someone goes overboard.

## **Stock Recovery**

Decommissioning exercises over the past decade have focussed on fleet targeting cod, vessels that used trawl fishing for whitefish and beam trawl fishing. This has reduced the over 10 metre fleet by 46% since 2001.

As part of the measures for recovery of fish stocks, sole and cod recovery zones were established to control fishing in specific areas. Vessels fishing with beam trawls or static nets of a certain mesh size had limits imposed on the number of days they could spend at sea.

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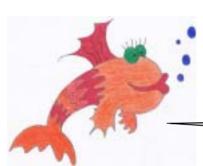
#### Auto filename & path

To prevent growth in fishing activity in the sea areas to the west, an area was established known as the 'Western Waters' in which fishing effort is limited. Regulated activity is permitted for UK registered vessels in only four of the nine sea areas within the Western Waters. Ceilings exist on the maximum fishing effort to be exerted by large vessels targeting certain species in these areas.

Centre number, Candidate number of fishing vessels, reductions in quotas, fishing effort limits and stock management plans.

This report is intended to provide as accurate a picture as possible of fishing activity carried out by the UK fleet.

## **Landings**



The value of fish landed by the UK fleet in 2011 increased compared with 2010. UK vessels landed 600,000 tonnes of sea fish (including shellfish) into the UK and abroad with a value of £828 million. This

15% increase in value compared with 2010. The rise in value is mainly due

to an increase of more than 40% in the average value of pelagic fish.

Shellfish formed the majority of landings by the UK fleet into England, Wales and Northern Ireland whilst pelagic fish had the highest share of landings into Scotland. The large increase in shellfish landings may be due to diversion of fishing activity into this sector where there are fewer restrictions and quotas, and improvements in data collection and reporting.

There has been a drastic decline in the landings of demersal fish (eg cod, haddock and plaice) over the past 50 years. There are a number of causes including reductions in fleet size, declining fish stocks and restricted fishing opportunities. EU and UK regulation has limited demersal fishing activity in recent decades, through decommissioning

## Subheadings (8)

Subheads centred, sans-serif, 14 pt, bold, underline 1 mark

#### **Image**

Fish image in correct location 1 mark Image flipped to face right 1 mark Text wrap, aligned left & top 1 mark Resized 5 cm wide, aspect ratio maintained 1 mark

#### Page layout

A4 Landscape 1 mark
Top, left & right margins 2 cm, bottom 1.5 cm 1 mark
Consistent spacing with cls above/below items 1 mark
Document complete/paragraphs intact, no widows
or orphans, split lists, split tables, blank pages 1 mark

Replace 3 instances of amount with share 1 mark

	Page 5	Mark	Scheme	Syl	labus	Paper		
		IGCSE – M	lay/June 2014	0	417	22		
			accurate 1 mark					
Harbour fees	s due_	Calculated field		Candid	ate name,	Centre number	, Candidate number	1
Admin_Port	Hom	Formatted £ to	2 dp 1 mark	Length	Hull	Shellfish	Fees_Due	
PLYMO\ Title		SE/4	SALCOMBE LASS	11.0				
	0% accurate 1 mark	SE21	SOUWEST LADY	11.0		cape, 1 page w		1 mark
NORTH \$		BH155	BORDER QUEEN	11.0	Name,	Centre No & c	andidate no top right	1 mark
EYEMOUTH	DUNBAR	LH145	TRITON	11.0	WOOD	Yes	£428.35	
STORNOWAY	NORTH UIST	CY263	FAIR LASS	11.1	WOOD	Yes	£430.29	
OBAN	TOBERMORY (ISLE (	-	DAWN TREADER	11.1	WOOD	Yes	£430.68	
POOLE	SWANAGE	PW7	THREE WISHES	11.1	WOOD	Yes	£430.68	
MILFORD HAVEN	<b>CONWY</b>	LH75	TENACITY	11.1	WOOD	Yes	£431.84	
ULLAPOOL	ULLAPOO	CITY also as all to CONIV	ADV 4 months	11.1	WOOD	Yes	£432.62	
FRASERBURGH	GANDLIVS	CITY changed to <b>CONV</b>	<b>WY</b> 1 mark	11.2	WOOD	Yes	£434.17	
NORTH SHIELDS	BLYTH	BH174	HARTLEY	11.2	WOOD	Yes	£435.34	
NORTH SHIELDS	SEAHAM	SD36	BOYS OWN	11.3	WOOD	Yes	£436.50	
CAMPBELTOWN	CAMPBELTOWN	TT76	DALRIADA	11.3	WOOD	Yes	£437.66	
SCARBOROUGH	BRIDLINGTON	FH198	HARVESTER	11.3	WOOD	Yes	£437.66	
NORTH SHIELDS	AMBLE	WY173	EMMA JANE	11.3	WOOD	Yes	£437.66	
NORTH SHIELDS	SEAHAM	SD47	TINA	11.3	WOOD	Yes	£438.44	
KIRKWALL	STROMNESS	K69	MERLIN 11	11.3	WOOD	Yes	£439.99	
POOLE	PORTSMOUTH	P11	SUNSHINE	11.4	WOOD	Yes	£442.32	
LOCHINVER	LOCHINVER	UL48	FORTITUDE	11.4	WOOD	Yes	£443.48	
POOLE	SELSEY	NN404	TOBY ROC	11.4	WOOD	Yes	£444.26	
NORTH SHIELDS	NORTH SHIELDS	SN45	NORTH EASTERN	11.5	WOOD	Yes	£446.59	
MILFORD HAVEN	MILFORD HAVEN	M38	KTJ	11.6	WOOD	Yes	£448.14	
SCARBOROUGH	WHITBY	WY144	JANE ELIZABETH	11.6	WOOD	Yes	£448.14	
LOWESTOFT	LOWESTOET	LTAAG	CANDE	11.6	WOOD	Yes	£450.47	
	Search			11.7	WOOD	Yes	£452.41	
	Length is >=11 and <12		1 mark	11.7	WOOD	Yes	£454.35	
SCARBOROUGH /	Hull is <b>WOOD</b> , Shellfish	n = Yes, Scallop = No	1 mark	11.8	WOOD	Yes	£455.90	
PORTREE	PORTREE	BRD75	SERENE	11.8	WOOD	Yes	£457.84	

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				Candio	late name, C	entre number	, Candidate number
Admin_Port	Home_Port	Port_ID	Vessel_Name	Length	Hull	Shellfish	Fees_Due
KIRKWALL	KIRKWALL	PE91	CALON MOR	11.8	WOOD	Yes	£457.84
STORNOWAY	SOUTH LOCHS	SY799	ONWARD	11.8	WOOD	Yes	£459.00
STORNOWAY	GRIMSAY	CY141	LIZANNA	11.9	WOOD	Yes	£460.17
NEWLYN	MEVAGISSEY	FH76	GALWAD-Y-MOR	11.9	WOOD	Yes	£461.33
PLYMOUTH	SALCOMBE	SE150	CLAIRE LOUISE	11.9	WOOD	Yes	£461.72
MILFORD HAVEN	ABERYSTWYTH	AB7	QUAKER	11.9	WOOD	Yes	£461.72
OBAN	OBAN	UL144	KYRENE	11.9	WOOD	Yes	£462.11
SCARBOROUGH	BRIDLINGTON	SH24	MOYALLON	11.9	WOOD	Yes	£462.50
KIRKWALL	KIRKWALL	K49	SHALIMAR /	11.9	WOOD	Yes	£463.66
POOLE	ISLE OF WIGHT	SU116	GALWAD-Y-MOB	11.9	WOOD	Yes	£463.66
KINLOCHBERVIE	KINLOCHBERVIE	F24	LOUANDRIC	12.0	WOOD	Yes	£464.82
POOLE	LYMINGTON	BD87	CHALE	12.0	WOOD	Yes	£464.82

3 records added (ignore Fees\_Due) 3 marks
Sorted ascending on Length 1 mark
Specified fields, correct order, all data fully visible 1 mark

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Title
Correct, 100% accurate 1 mark

Search (11 records)

Port\_ID begins with BM 1 mark

Admin\_Port not Brixham 1 mark

## Vessels matching criteria

Port_ID	Admin_Port	Home_Port	Vessel_Name	Length
BM254	AYR	UNSPECIFIED SPANISH PORT	BLUE GATE	38.6
BM27	HASTINGS	SHOREHAM	OUR MIRANDA	25.3
BM30	HASTINGS	SHOREHAM	SARA LENA	18.2
BM114	HASTINGS	HASTINGS	SEIONT A	17.0
BM116	HASTINGS	WHITSTABLE	OUR SARAH JAYNE	14.0
BM265	HASTINGS	HASTINGS	JOANNA C	13.9
BM24	LOWESTOFT	PAGELSHAM	PEACE AND PLENTY III	11.7
BM211	MILFORD HAVEN	SWANSEA	SUE ELLEN	11.9
BM367	PLYMOUTH	PLYMOUTH	BON ACCORD	14.9
BM493	PLYMOUTH	PLYMOUTH	OCEAN SPIRIT	13.7
BM190	PLYMOUTH	PLYMOUTH	MARINA	11.4
			Average length	17.3
-				$\overline{}$

#### Sort

Sort ascending *Admin\_Port*, descending *Length* 1 mark

Calculates average *Length*, correct position 1 mark Formatted to 1 dp 1 mark Label 100% accurate 1 mark

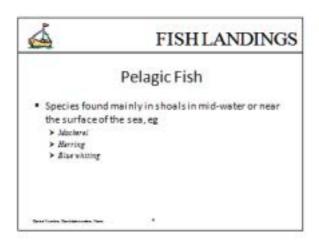
#### Layout

Portrait, 1 page wide, Candidate details bottom 1 mark Specified fields, correct order, data and labels all visible 1 mark

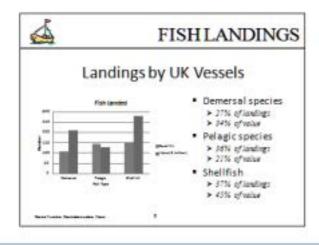
Candidate name, Centre number, Candidate number

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Text FIS Boat clip Centre N Auto slid	zontal line across slid H LANDINGS, black part top left, fits space No, Cand No, Name, le no, bottom centre created and appear	10 pt, serif, bottom left on all slides with no overlap	1 mar nt, no wrap 1 mar 1 mar 1 mar 1 mar 1 mar	k k k k	
	UK Fishing Fleet	, DINGS			
SELECTION SECURITIES	Summary of species landed	Title and subtitl Slide 1 – stars	st slide, title & sub	t	1 m 1 m 1 m 1 m
• 2011 - 15% with 1.5% fa 2011 - 600,0	FISH LAN  anding Statistics Sho  increase in the value of sea fis all in quantity 000 tonnes landed, value £828 000 tonnes landed, value £719 caught by the UK fleet were la	DW:			
• 2011 - 15% with 1.5% fa • 2011 - 600,0 • 2010 - 610,0 • 67% of fish	anding Statistics Sho Increase in the value of sea fis all in quantity 2000 tonnes landed, value £828 2000 tonnes landed, value £719 caught by the UK fleet were la	h landed i million I million Inded in the			

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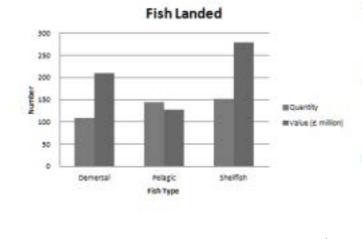


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# **FISH LANDINGS**

## Landings by UK Vessels



- Demersal species
  - > 27% of landings
  - > 34% of value
- Pelagic species
  - > 36% of landings
  - > 21% of value
- Shellfish
  - > 37% of landings
  - > 45% of value

Centre Number, Candidate number, Name

Vertical bar chart correct data, slide 6, left of bullets Chart titles 100% correct, all labels displayed in full 1 mark

1 mark

**Print** – Handout slides – 3 to page **and** correct single slide

1 mark

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Candidate name, Centre number, Candidate number

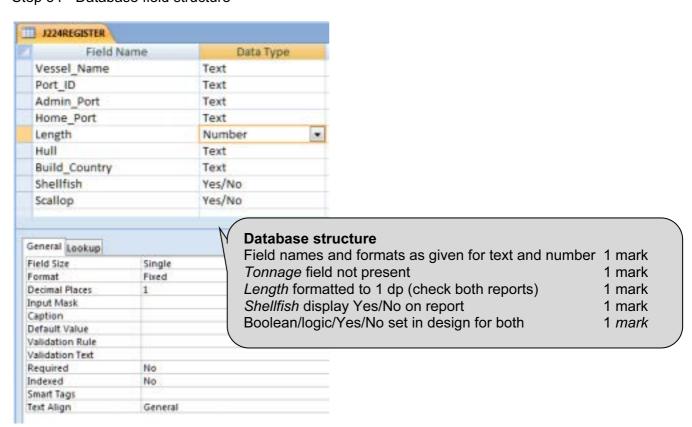
## Page layout Evidence





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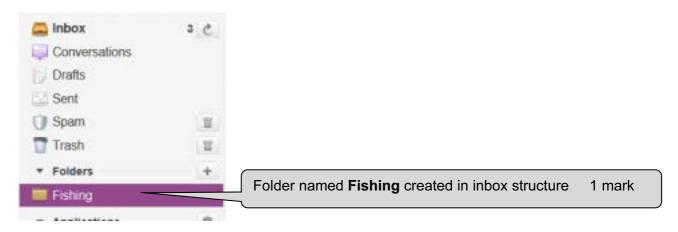
Step 34 - Database field structure



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Candidate number, Centre number, Candidate number

Step 52 - folder evidence



Step 53 - Contact details stored in address book/contacts



Step 56 - Email message

