

THE FUTURE
OF ENERGY

THE FUTURE
OF ABERDEEN



**Aberdeen
Offshore
Windfarm**

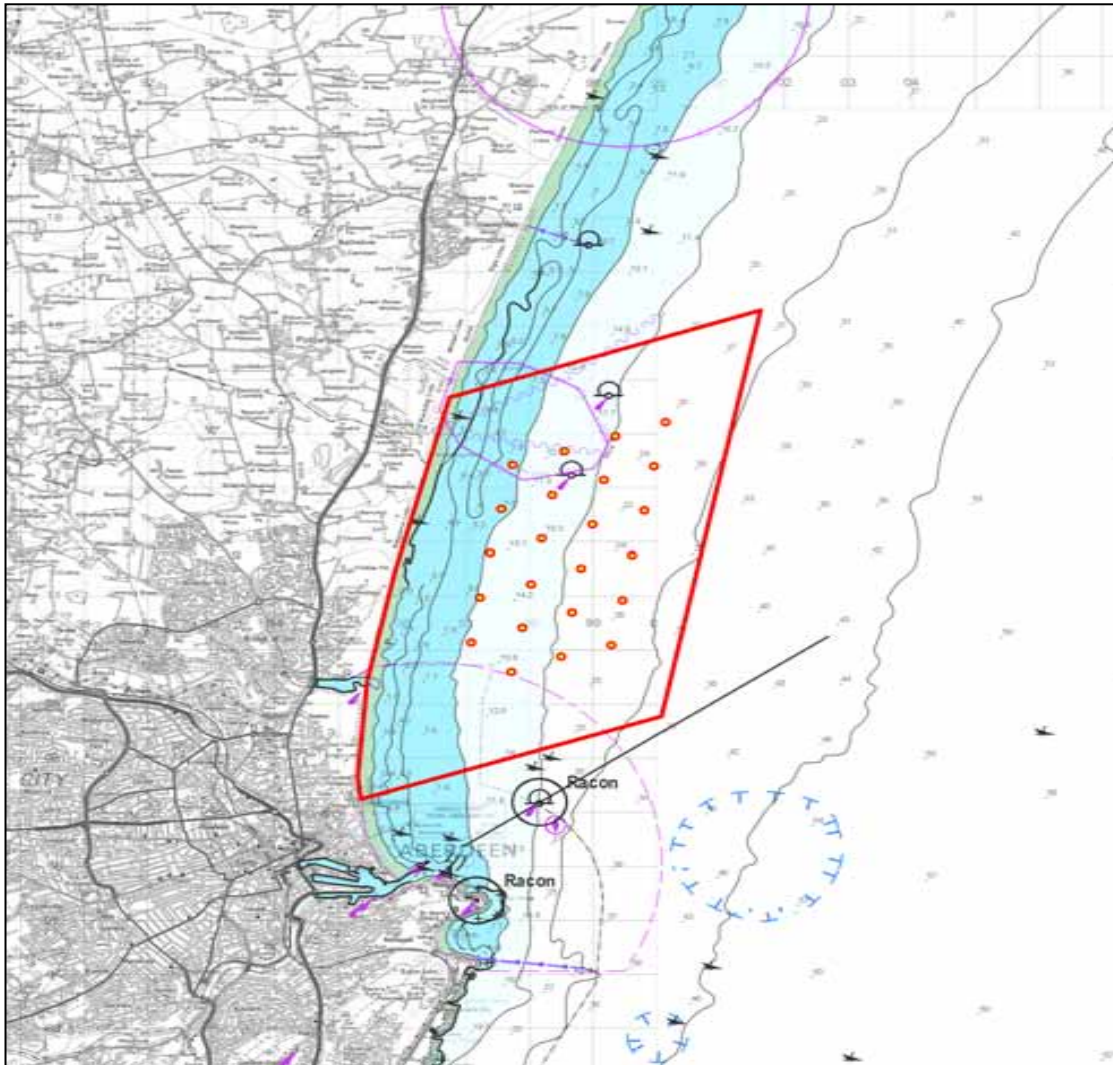
**Iain Todd
Renewables Champion**

11/10/2006

FUTURE VISION



CURRENT LAYOUT



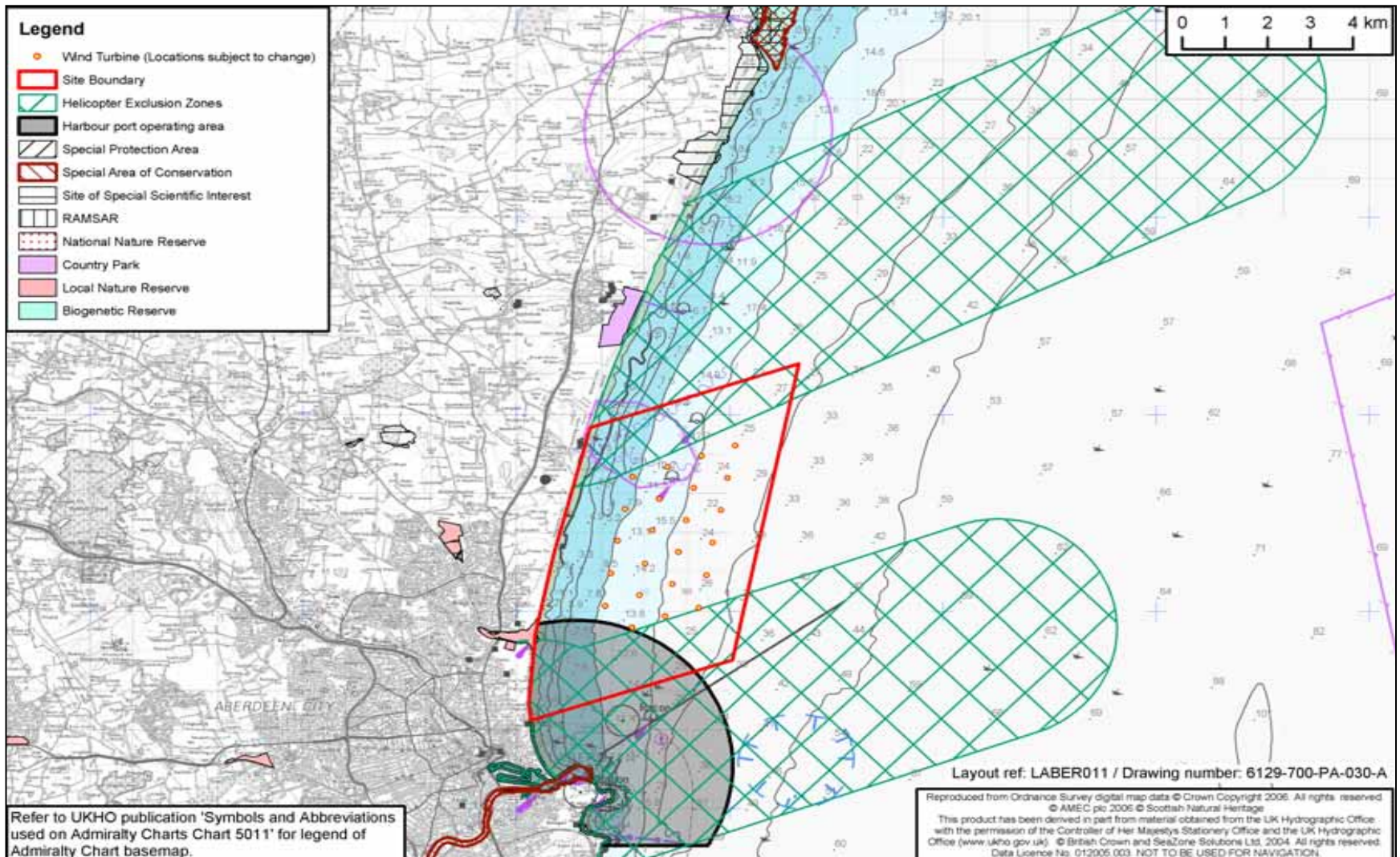
FEASIBILITY STUDIES (1)

- **Maritime safety** - navigational safety, maritime radar systems, mooring sites
- **Bird Monitoring** - onshore surveys, state-of-the-art radar monitoring, offshore bird surveys by boat
- **Aviation** - helicopter routes and aviation issues
- **MoD issues** - Buchan air defence radar site near Peterhead and the Black Dog firing range

FEASIBILITY STUDIES (2)

- **Benthic ecology**, coastal processes and marine ecology
- **Fishing** - traditional salmon netting along the coast - discussions with local netsmen and the salmon boards of the River Dee and the River Don
- **Tourist interests** - two long established golf courses, and the Trump Organisation's plans for a new golf complex three miles north

CONSTRAINTS

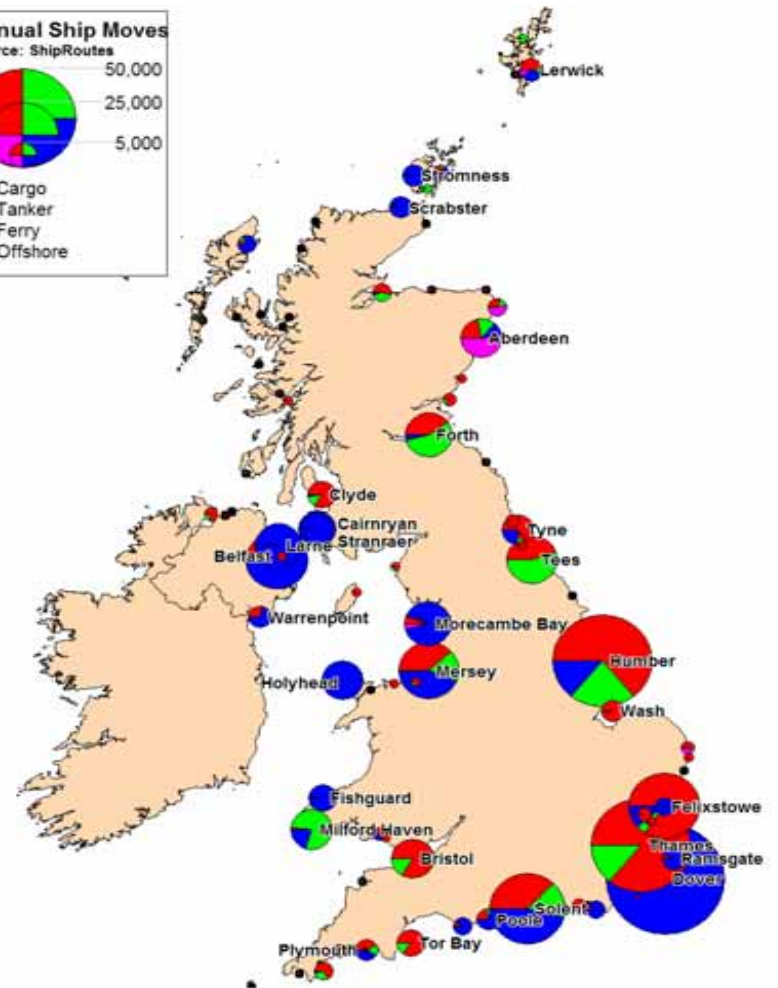
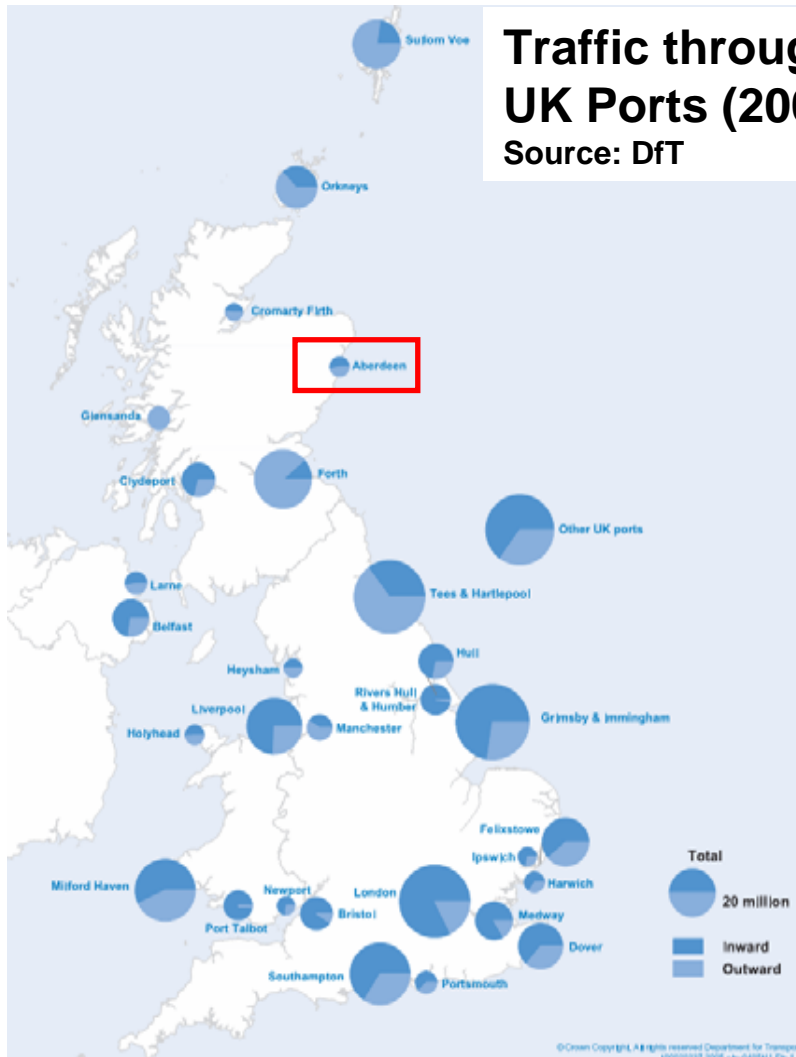


MARITIME ISSUES

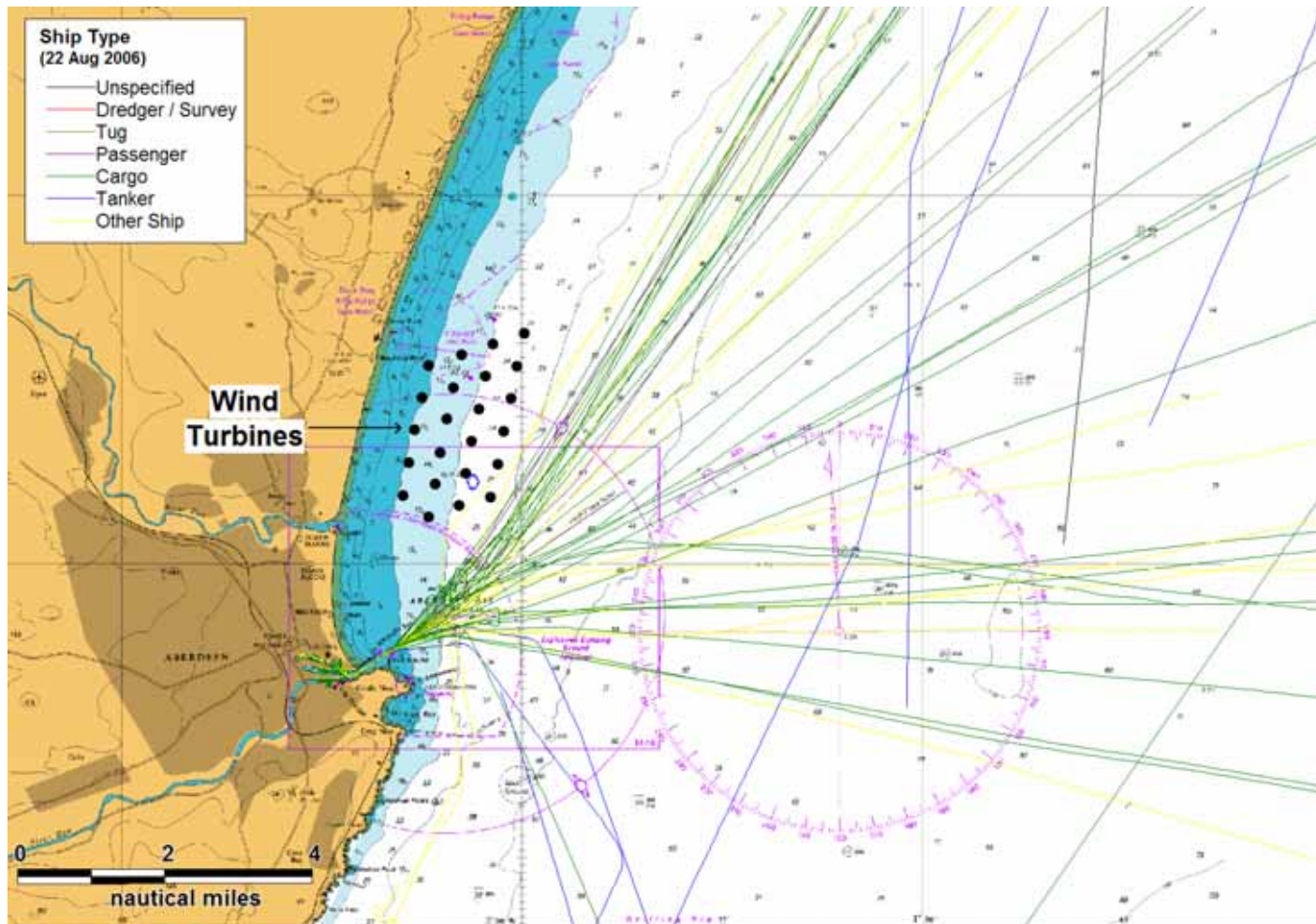


ABERDEEN HARBOUR TONNAGE & VESSELS

Traffic through UK Ports (2004) Source: DfT



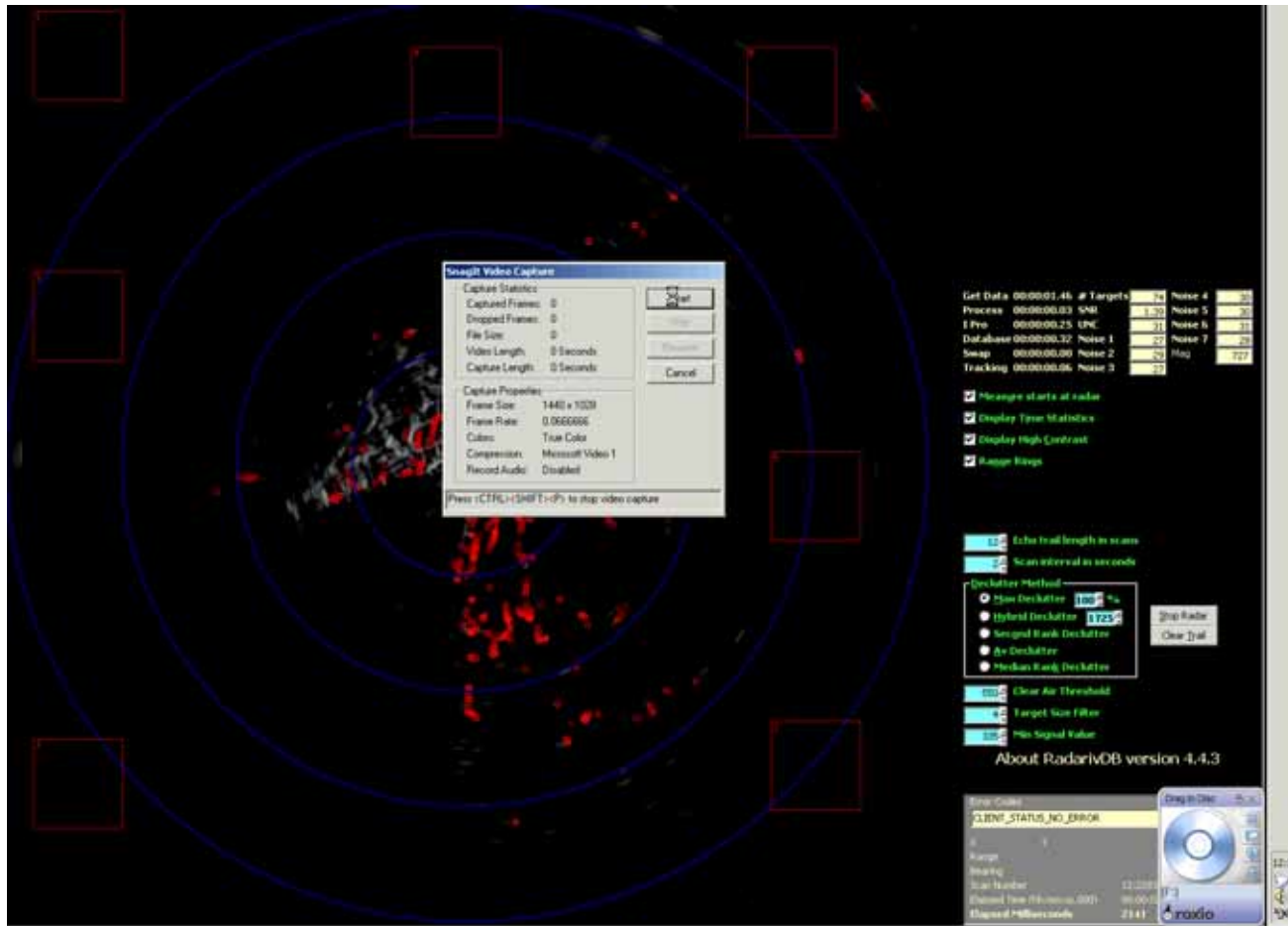
VESSEL MOVEMENTS



BIRD WATCHING (1)



BIRD WATCHING (2)



SnagIt Video Capture

Capture Statistics

Captured Frames: 0

Dropped Frames: 0

File Size: 0

Video Length: 0 Seconds

Capture Length: 0 Seconds

Capture Properties

Frame Size: 1440 x 1020

Frame Rate: 0.000000

Color: True Color

Compression: Microsoft Video 1

Record Audio: Disabled

Press (CTRL)+(SHIFT)+(F) to start video capture

Get Data	00:00:01.46	# Targets	44	Noise 4	20
Process	00:00:00.03	S/N	1.20	Noise 5	20
I Prio	00:00:00.25	UNC	31	Noise 6	20
Database	00:00:00.12	Noise 1	22	Noise 7	20
Swap	00:00:00.00	Noise 2	20	Mag	277
Tracking	00:00:00.06	Noise 3	20		

Manage alerts at radar

Display True Matrix

Display High Contrast

Range Rings

Echo trail length in scans: 10

Scan interval in seconds: 10

Detector Method:

- Slow Detector: 100%- Hybrid Detector: 1.725%- Sensing Radar Detector- Av Detector- Median Radar Detector

Clear Air Threshold

Target Size Filter

Min Signal Value

About RadarivDB version 4.4.3

File Open: CLINE_STATUS_NO_ERROR

Range: 1

Heading: 1

Scan Number: 12,000

Elapsed Time (Microseconds): 99,000

Elapsed # Milliseconds: 23.41

12:28

Cruxio

CIVIL AVIATION (1)



CIVIL AVIATION (2)



MOD



SEA BED



SALMON FISHERIES



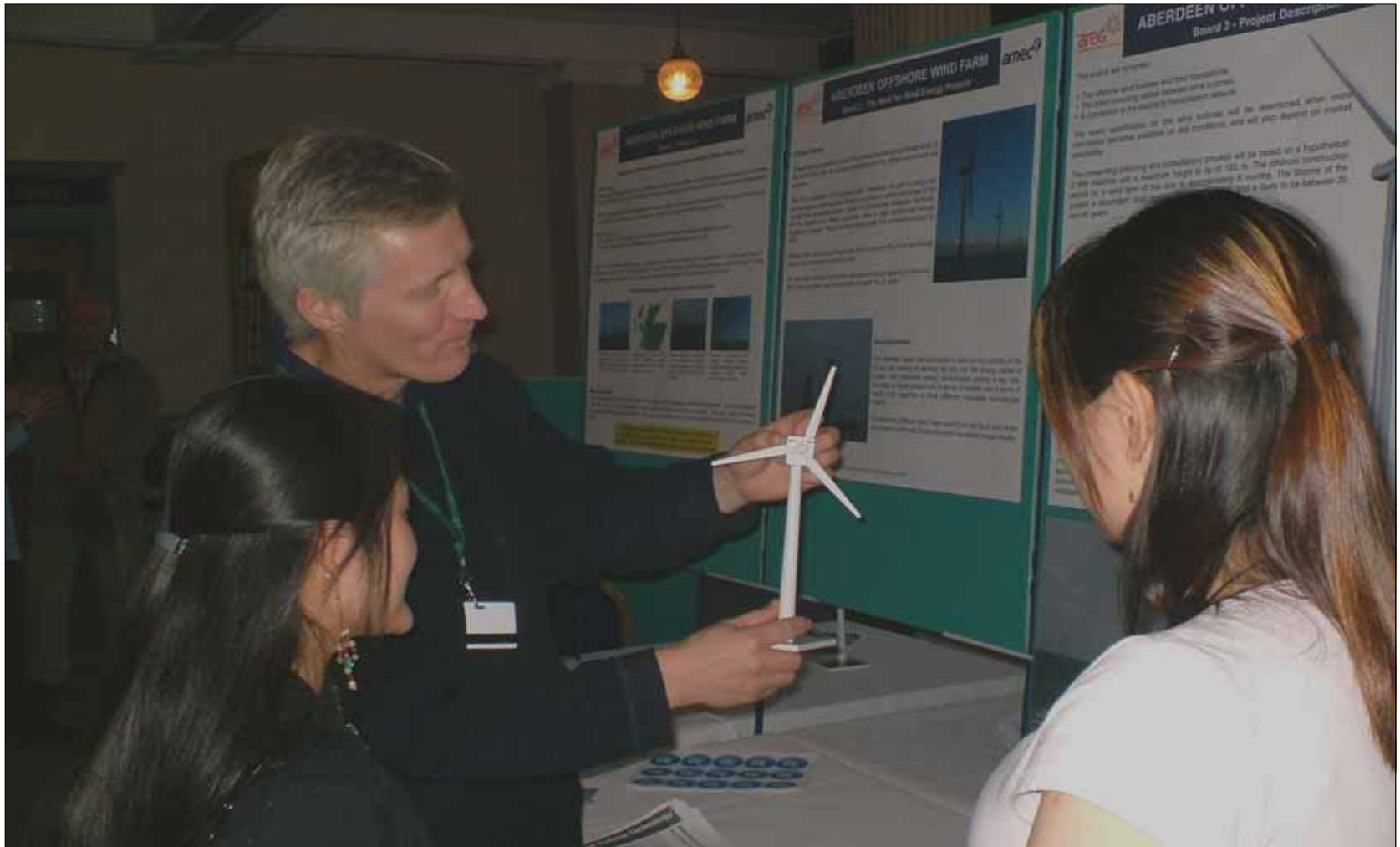
VISUAL IMPACT



TOURISM



PUBLIC CONSULTATION



5 MW TURBINES



BEATRICE (1)



BEATRICE (2)



OTHER ISSUES

- Crown Estate lease
- Sale of shares to members of public
- Possible research and development role

ENERGY FUTURES CENTRE



Queen's Links South



BWEA 2010 ?



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