

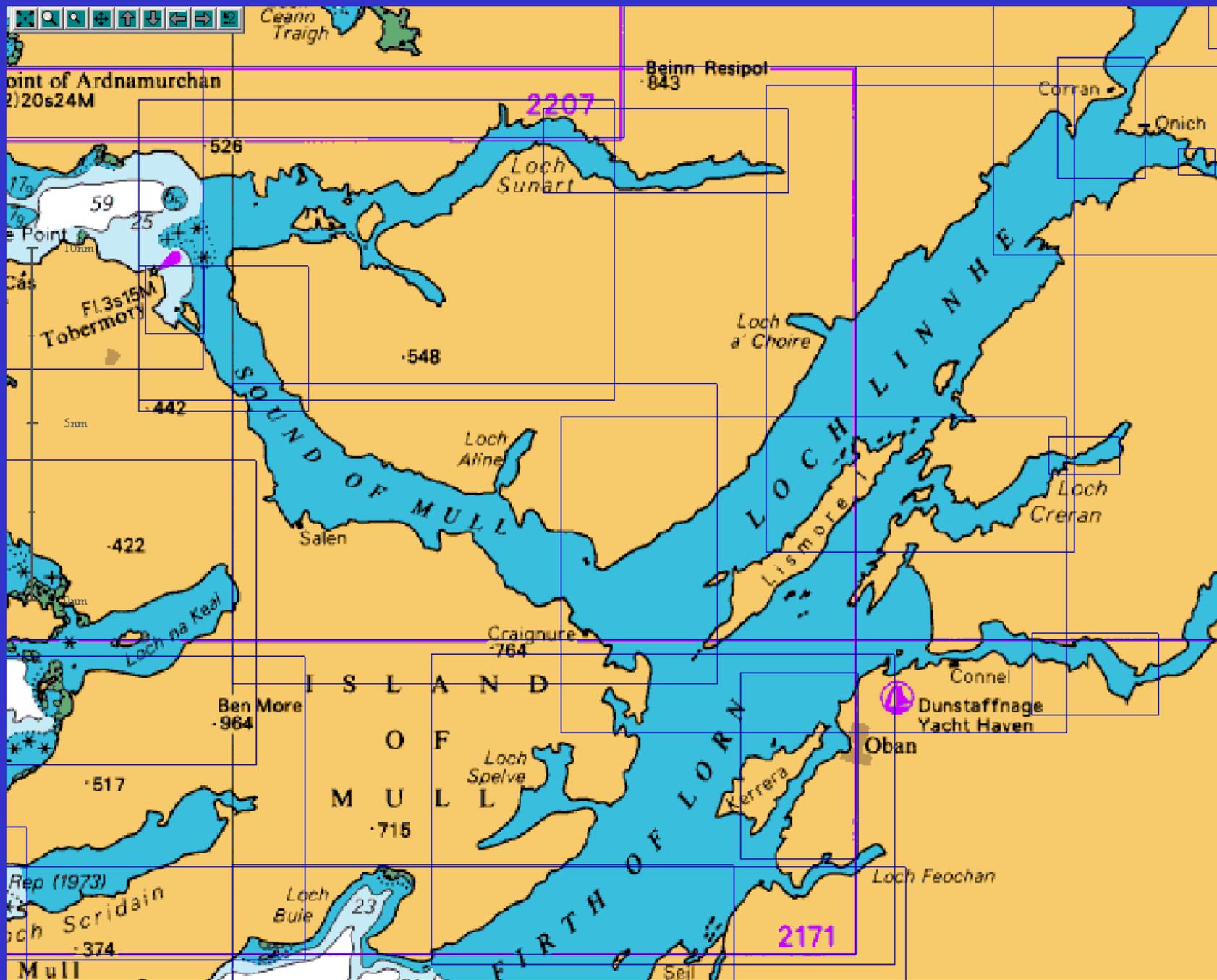
# AIS SART Sea Trials. Northern Lighthouse Board, Oban, Scotland.



## COMMISSIONERS OF NORTHERN LIGHTHOUSES AIDS TO NAVIGATION



- 201 Lighthouses
- 150 Buoys
- AtoN under contract

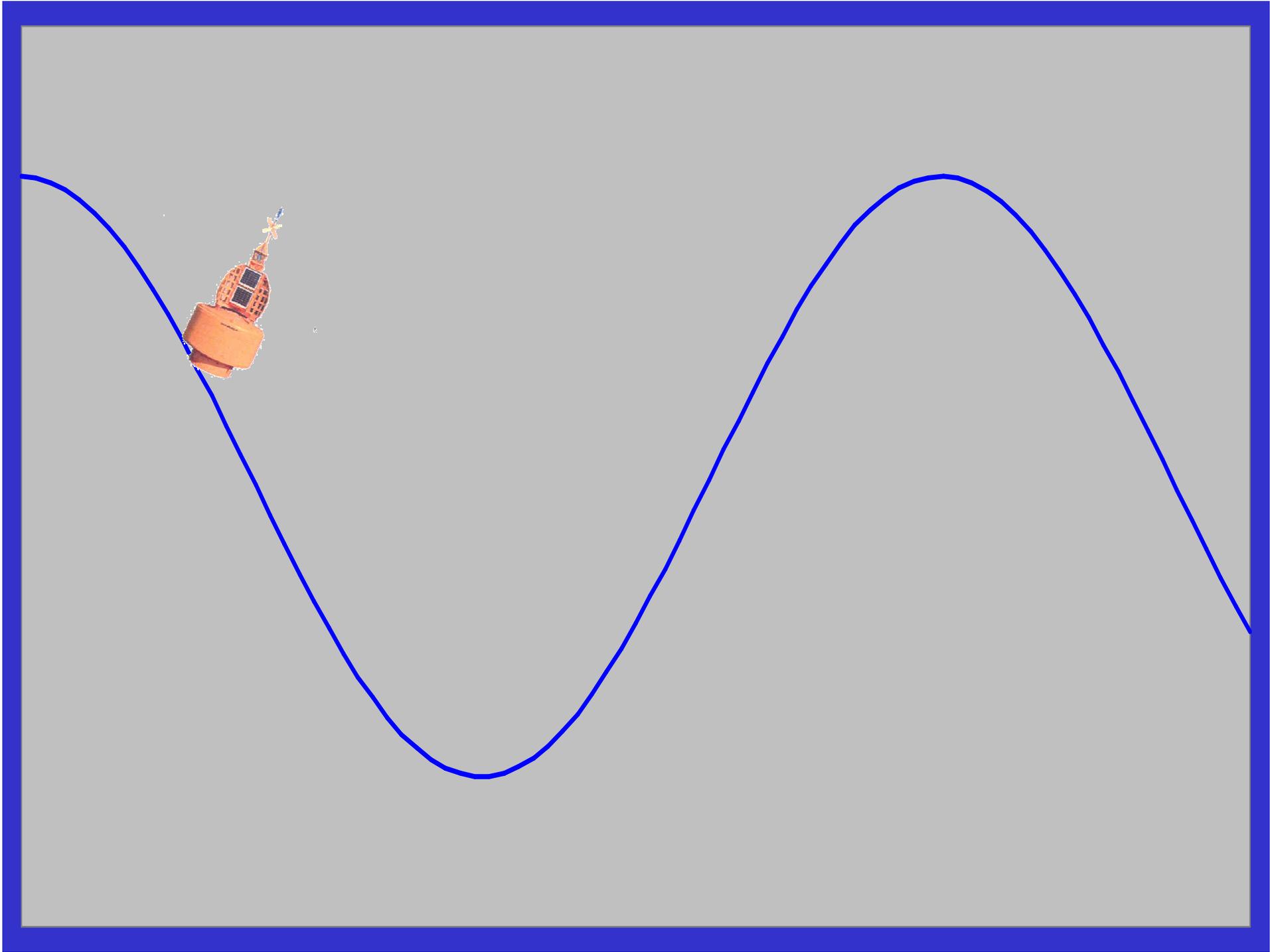


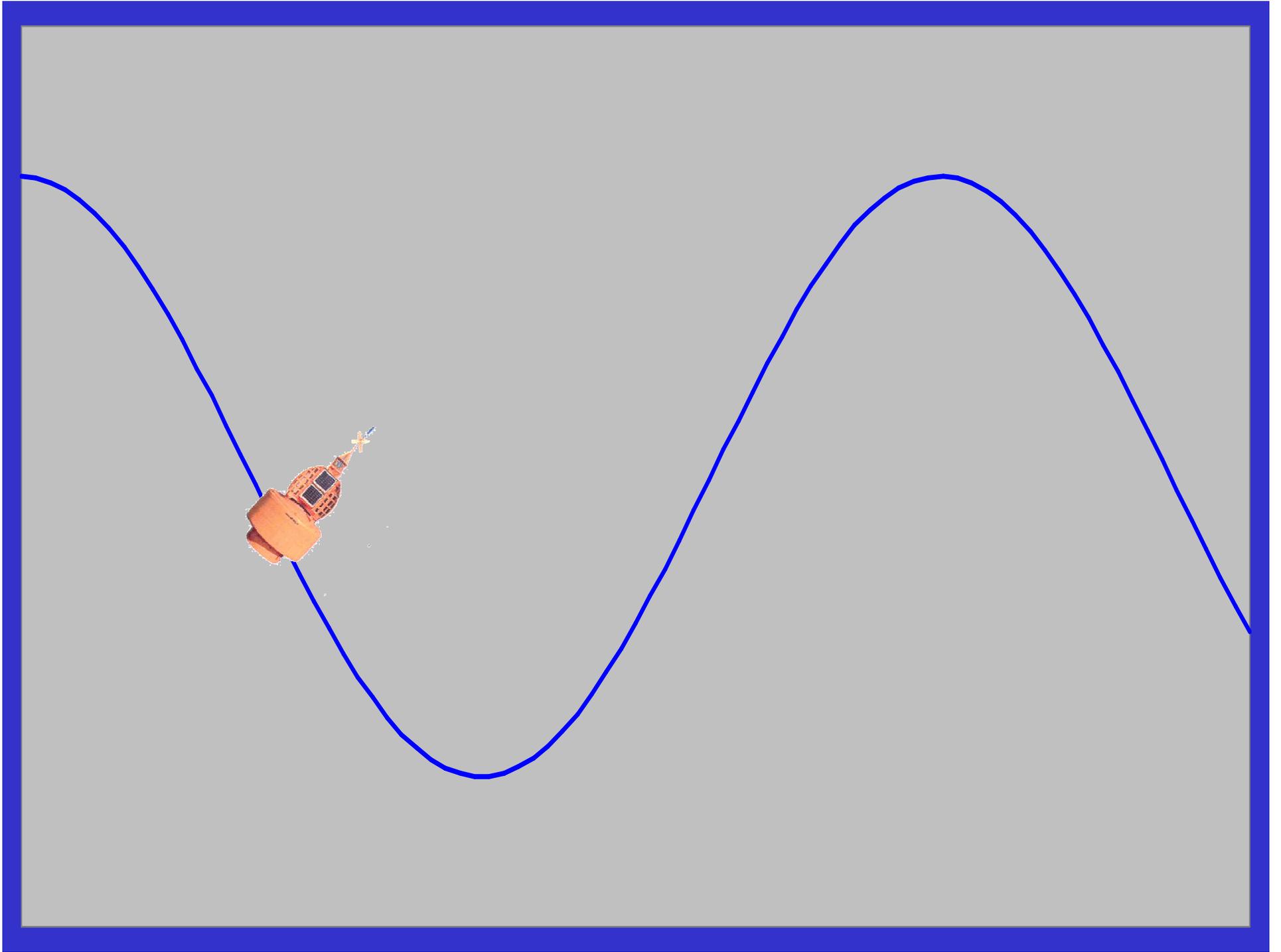
## Oban Sea Trials

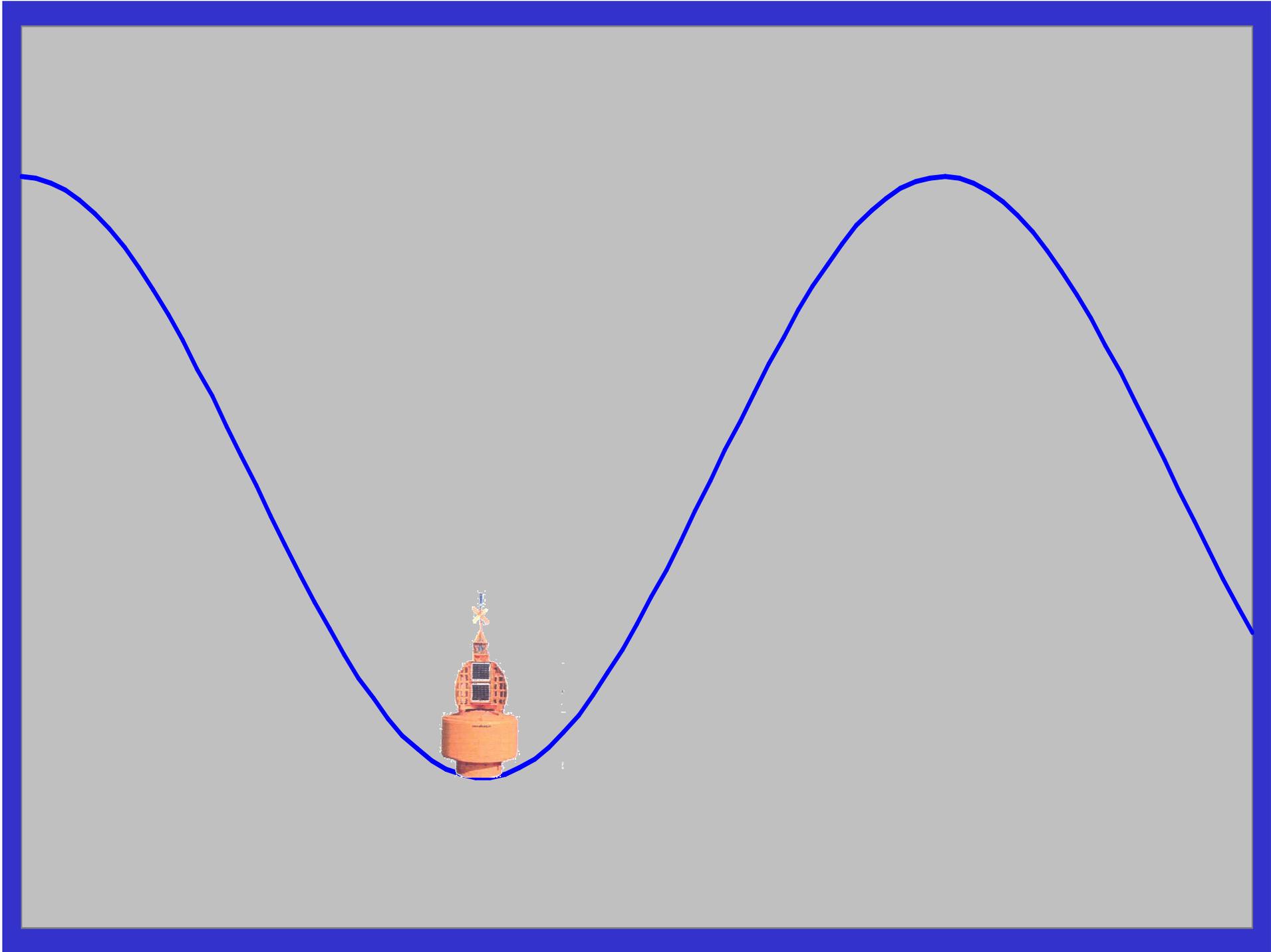


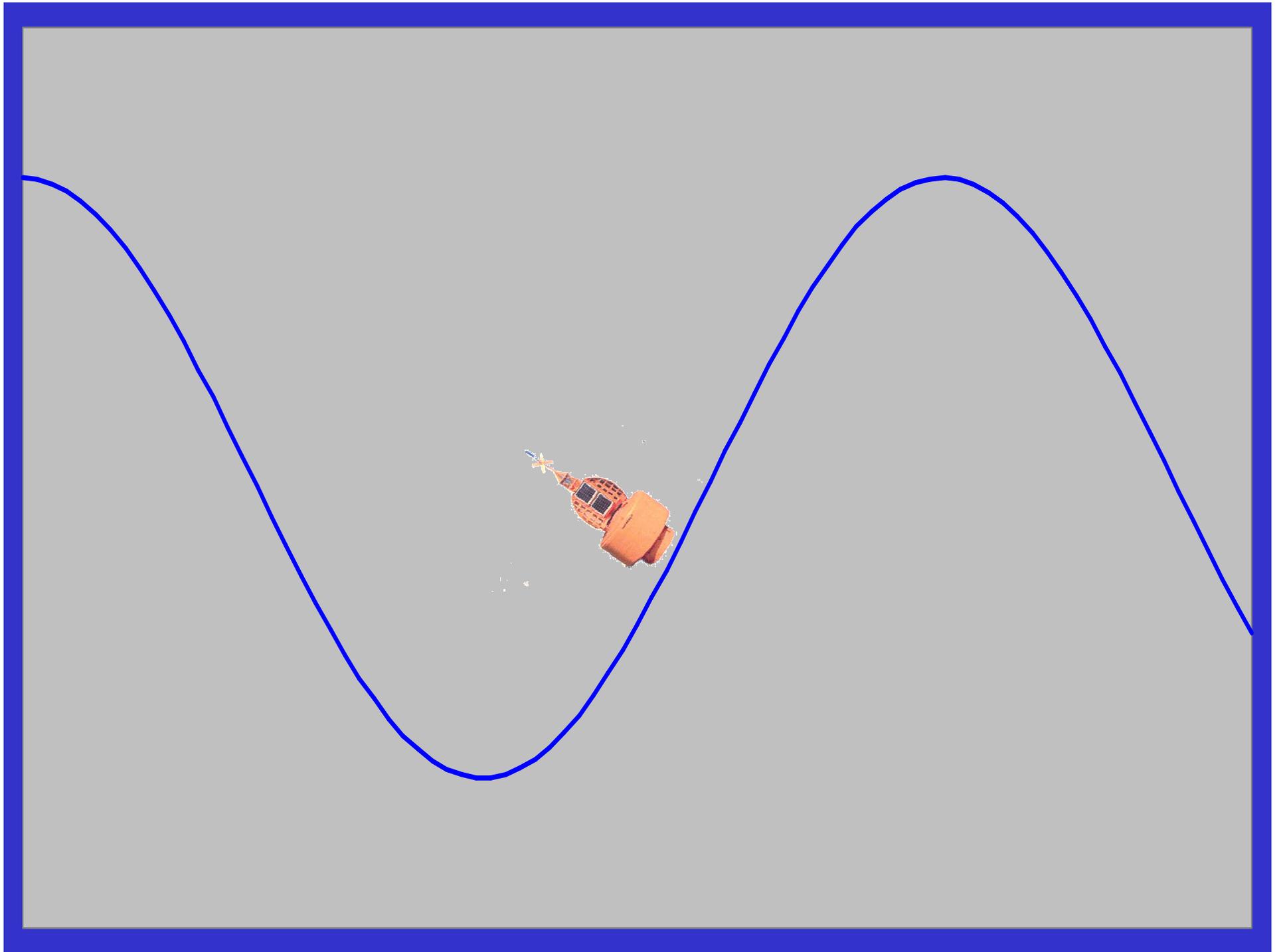
- Joint initiative by
- UK GLAs
  - Northern Lighthouse Board (NLB)
  - Commissioners of Irish Lights (CIL)
  - Trinity House (TH)
- UK MCA
  - Maritime Coastguard Agency

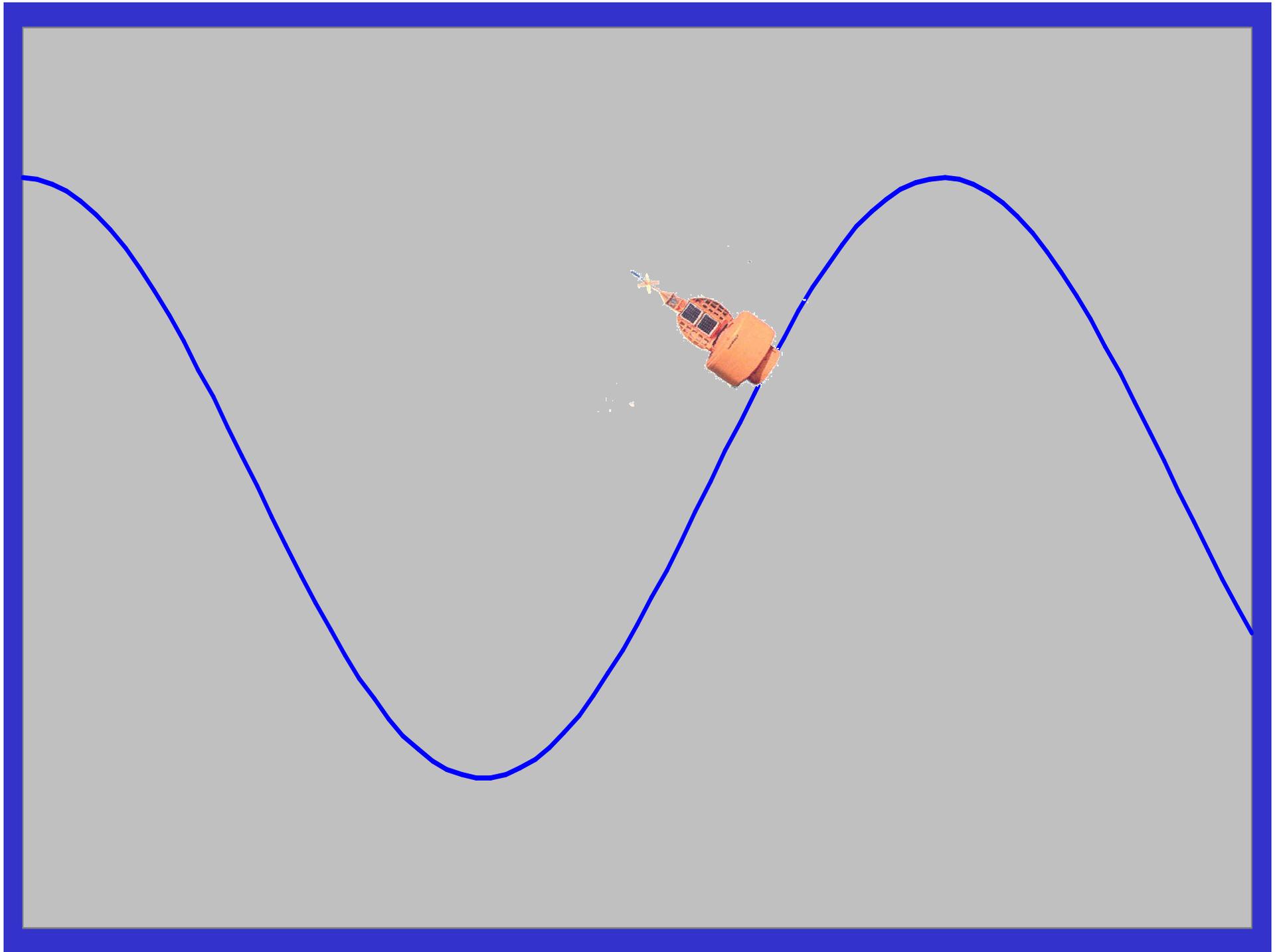


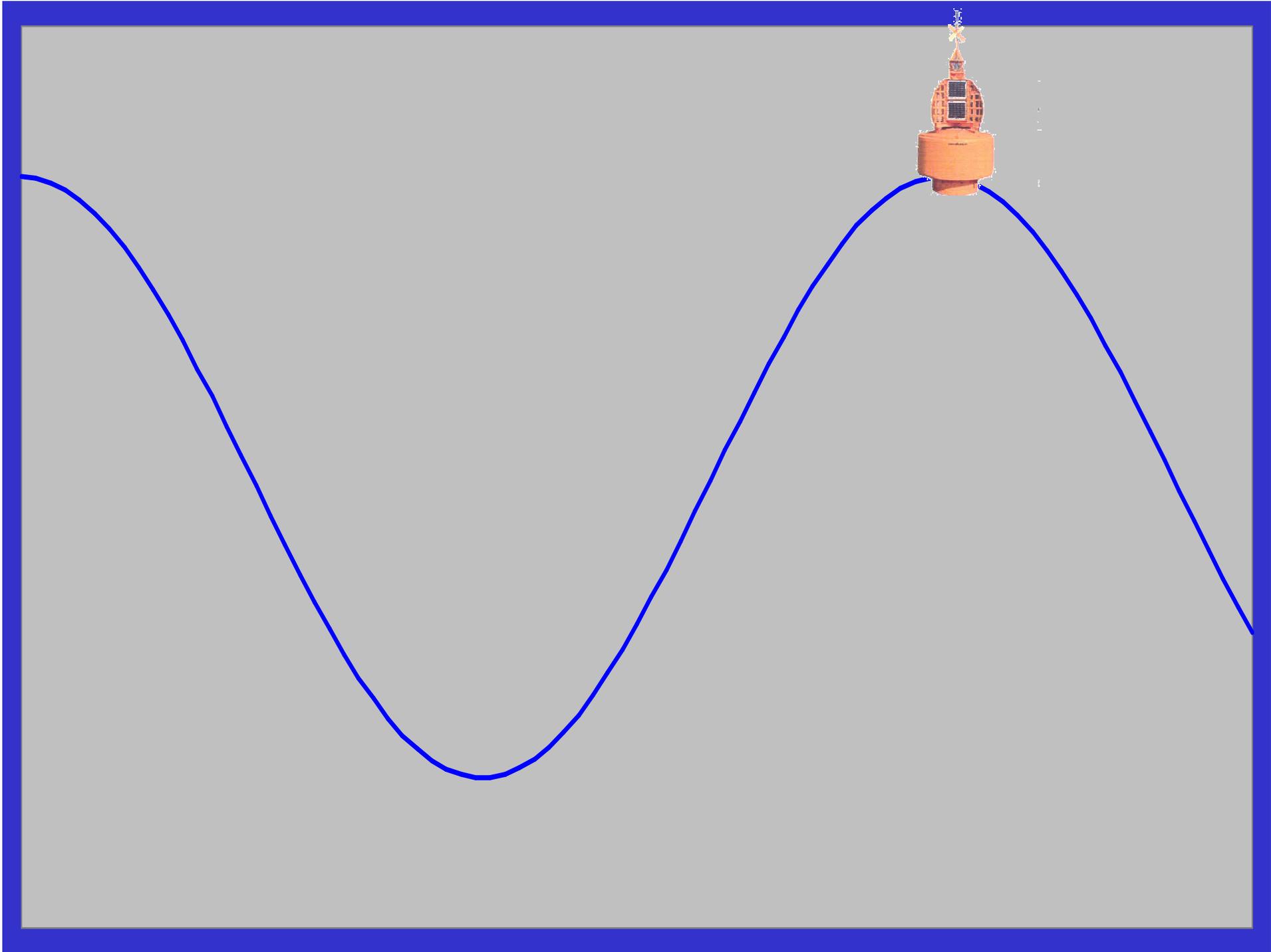


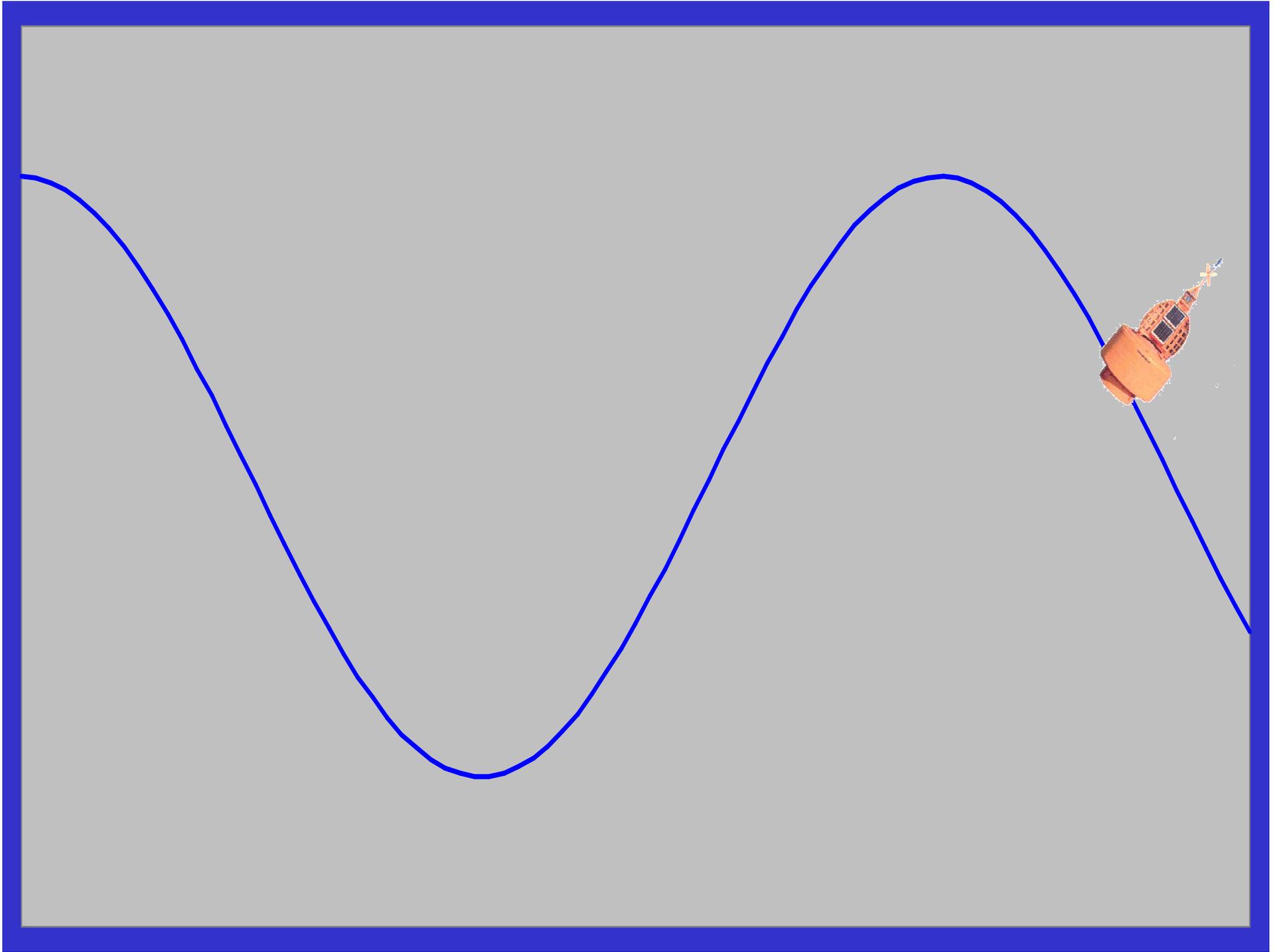


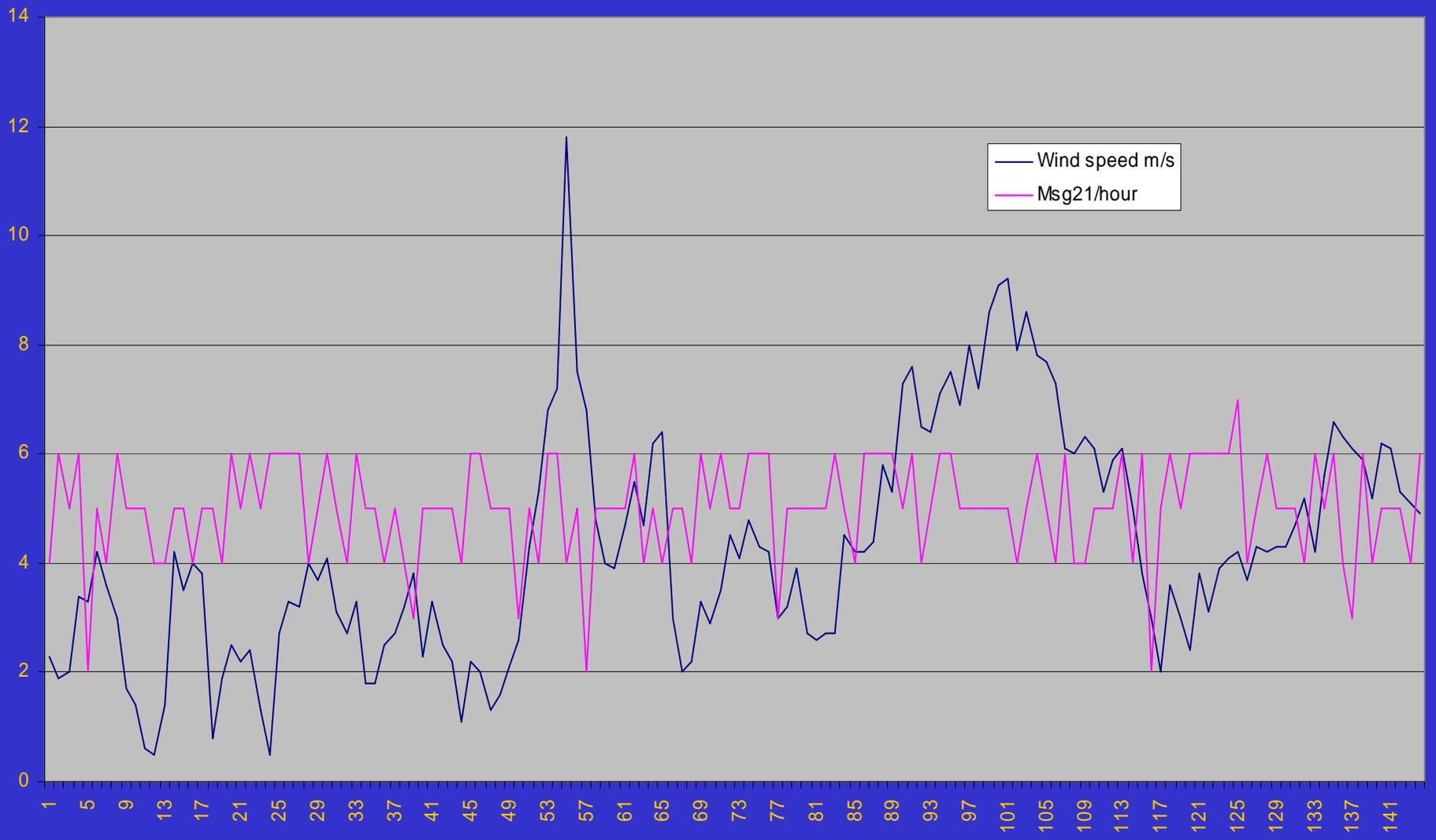












## Oban Sea Trials



- Hosted by Northern Lighthouse Board (NLB)
- 11<sup>th</sup> to 9<sup>th</sup> November 2006
- 9<sup>th</sup> to 13<sup>th</sup> June 2008
- 21<sup>st</sup> to 24<sup>th</sup> July 2008
- 25<sup>th</sup> to 29<sup>th</sup> August 2008
- NLB Oban Depot, Gallanach Rd, Oban, Argyll, Scotland. PA34 4LS.



AI SART  
TRIALS  
SEPTEMBER 2008



RMA Configuration & Monitoring Tool - Connected with COM5 at 57600 bps

File Connect Help

Transponder Configuration | Transponder Monitor

Alarm | Status | Position reports | Data log | Messages

MMSI	Latitude	Longitude	Range	SOG	COG	Alt	Name
233185000	56N16.3200	5W42.2000	4.0	11.8	37.9	NA	PHARC
234585000	55N42.7920	5W6.4511	42.6	8.1	289.8	NA	DARIN
235000500	56N24.7103	5W28.8700	6.8	0.0	0.0	NA	POLE S
235007195	54N36.7591	5W54.8549	104.1	0.0	NA	NA	
235007390	56N15.5087	7W4.3966	42.8	7.0	273.8	NA	
235012119	54N37.7141	5W53.1514	103.5	0.0	NA	NA	
235104000	55N50.6798	6W6.1105	33.6	10.6	346.0	NA	ISLE OI
245180000	54N40.6400	5W42.1350	99.3	0.0	NA	NA	
245555000	54N40.6599	5W42.2195	97.9	0.0	NA	NA	
257759000	56N25.0727	5W29.8016	5.5	0.0	290.3	NA	
258109000	56N49.1597	6W7.9472	32.3	11.6	34.6	NA	
273139400	55N49.5435	7W4.4885	54.8	11.5	160.4	NA	MDHA
304447000	54N37.2454	5W53.9428	105.3	0.0	NA	NA	
305286000	54N37.1620	5W54.0720	103.2	0.0	NA	NA	
308826000	54N50.6901	5W47.8637	88.7	0.0	NA	NA	
308919000	54N34.1243	5W31.8625	12.9	0.0	247.0	NA	YECMA
310116000	54N51.0200	5W47.7050	90.6	0.0	NA	NA	
353750000	54N37.0200	5W54.1500	105.1	0.0	NA	NA	
970990002	56N22.0300	5W36.1300	3.2	0.8	33.3	NA	
970990003	56N22.0700	5W36.0900	3.2	0.4	65.1	NA	
970990007	56N23.7900	5W31.1200	6.5	25.4	215.2	NA	
970990008	56N21.9700	5W36.3200	3.0	1.4	63.3	NA	
992351000	55N18.0519	6W16.0150	65.3	0.0	NA	NA	BASE 5
992351003	54N41.7233	5W46.2407	98.7	0.0	NA	NA	ATON
992351004	54N24.5823	5W22.0048	116.2	0.0	NA	NA	ATON
992351007	54N52.6787	5W45.3461	88.7	0.0	NA	NA	ATON



Number of targets: 52

Clear

Transponder Position

Lat 56N20.0871

Manual

Long 5W40.8646

Plot radius:  
39.8 fan



# Display of AIS SART targets in helicopter.

970990002	56N22.0300	5W36.1300	3.2	0.8	33.3	NA
970990003	56N22.0700	5W36.0900	3.2	0.4	65.1	NA
970990007	56N23.7900	5W31.1200	6.5	25.4	215.2	NA
970990008	56N21.9700	5W36.3200	3.0	1.4	63.3	NA

# Aircrew comment

“far better than the D/F or radar data currently used to locate SART and EPIRB targets at the moment.”

<b>HEIGHT</b>	<b>970990002</b>	<b>970990003</b>	<b>970990007</b>	<b>970990008</b>
	<b>FLOAT SEA LEVEL</b>	<b>0.5 METRE POLE</b>	<b>1 METRE POLE</b>	<b>DUMMY</b>
<b>2500FT</b>	36 Nm	Error only received no other information	39.8 Nm	26.4 Nm
<b>750FT</b>	9.2 Nm	6.0 Nm	26.5 Nm	6.0 Nm
<b>300FT</b>	25.4Nm	19.4 Nm	32.5 Nm	19.6 Nm
<b>1000FT</b>	35 Nm	Nothing Detected	40 Nm	Nothing Detected
<b>2000FT</b>	Error only received no other information	21.9 Nm	Nothing Detected	Nothing Detected

# TEST TRANSMISSION

- AIS 1, Msg 14 “SART UNDER TEST”
- AIS 2, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 1, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 2, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 1, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 2, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 1, Msg 1, Nav Status = 15 undefined, comm-state (time-out=0, sub-message=0)
- AIS 2, Msg 14 “SART TEST OVER”

# 1<sup>st</sup> and 5<sup>th</sup> Burst Active

- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)
- AIS 1, Msg 14 “SART ACTIVE”
- AIS 2, Msg 14 “SART ACTIVE”
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out={7,3}, sub-message=0)”

## 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup> Burst Active

- AIS 1, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 2, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 1, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 2, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 1, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 2, Msg 1, Nav Status=14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 1, Msg 1, Nav Status =14 distress, comm-state (time-out={6,4,2}, sub-message=slot)
- AIS 2, Msg 1, Nav Status =14 distress, comm-state (time-out={6,4,2}, sub-message=slot)

## 3<sup>rd</sup> Burst Active

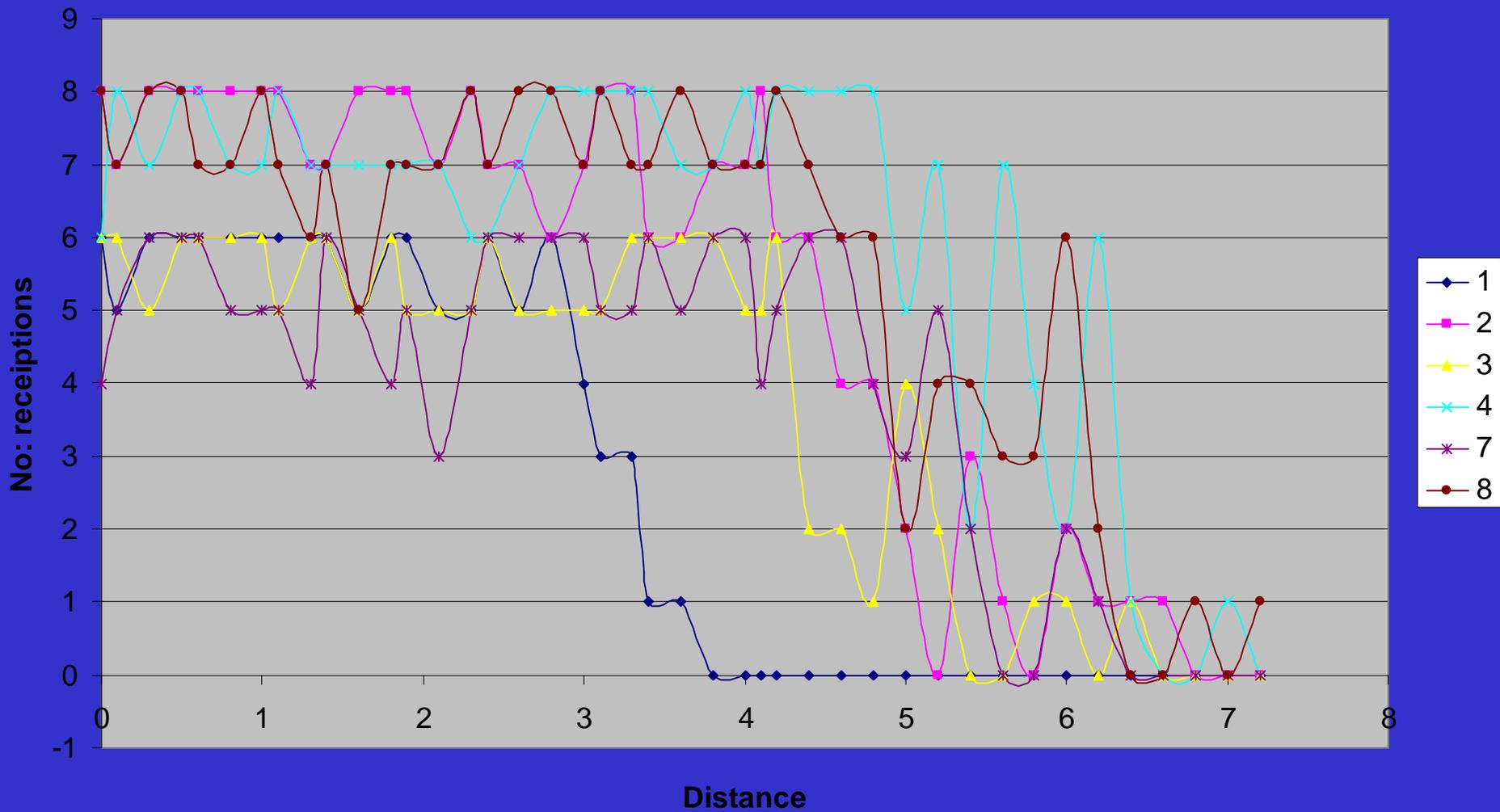
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=5, sub-message=0)

# 7<sup>th</sup> Burst Active

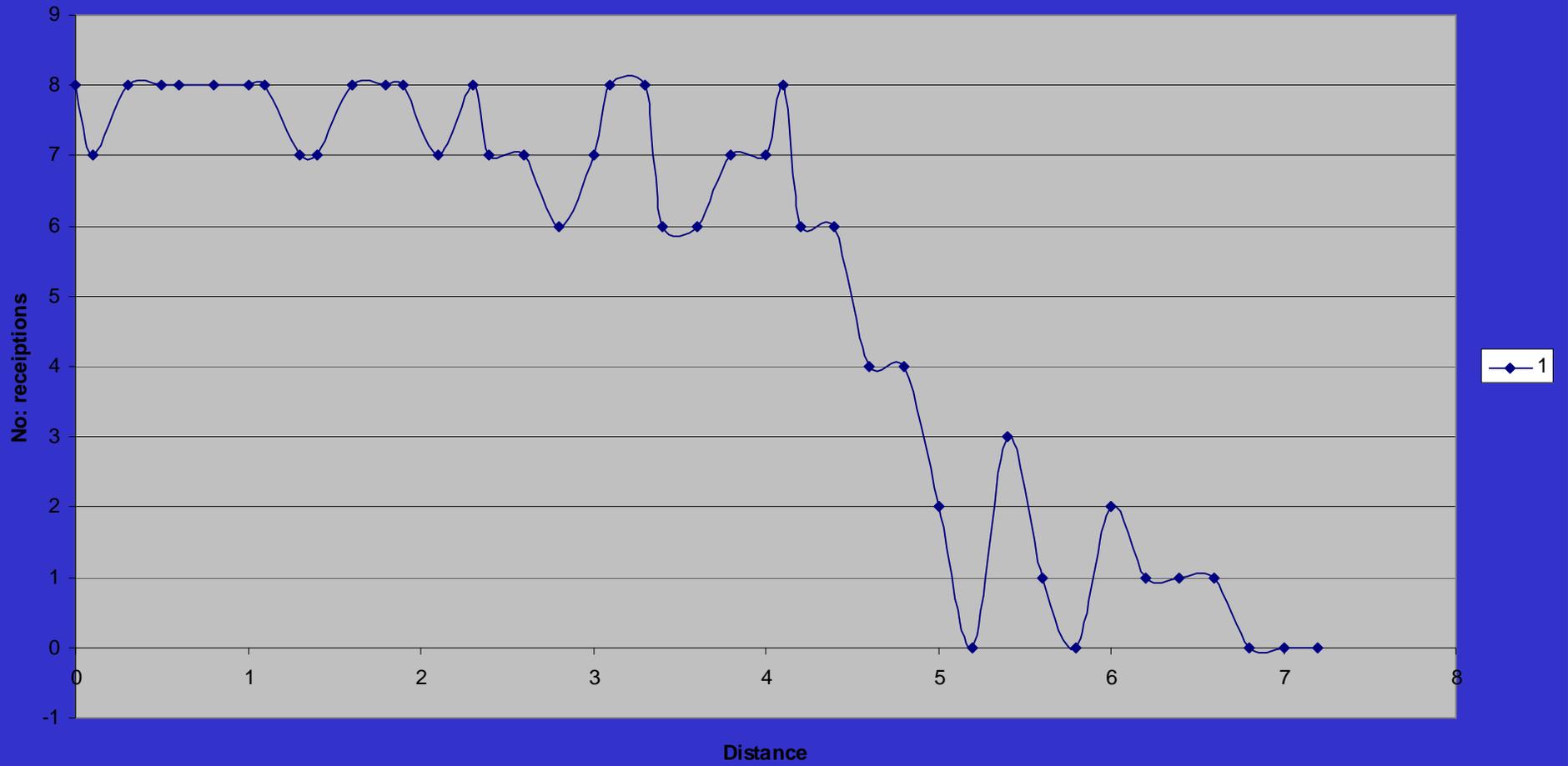
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=1, sub-message=utc)

# 8<sup>th</sup> Burst Active

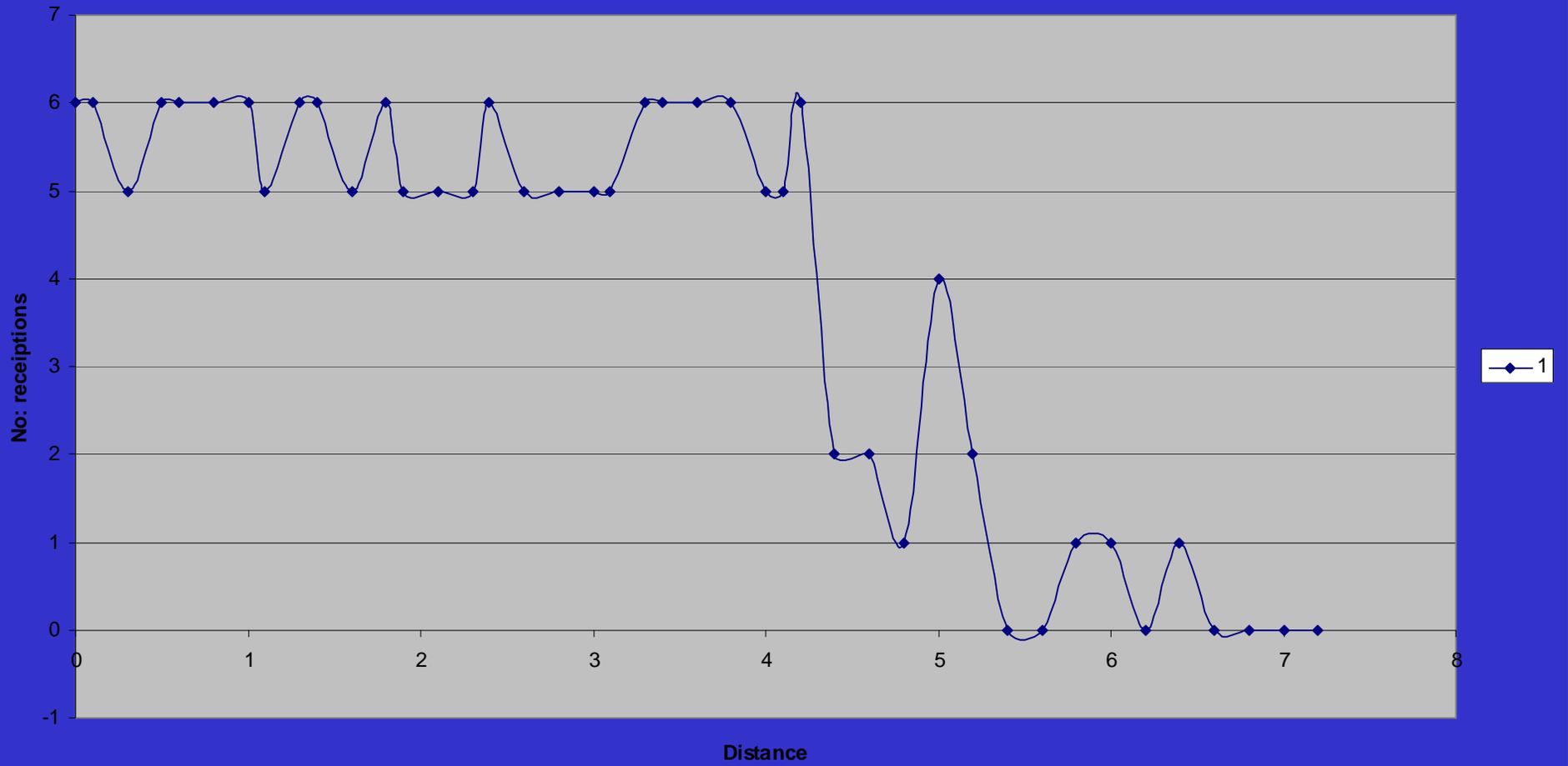
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 1, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)
- AIS 2, Msg 1, Nav Status = 14 distress, comm-state (time-out=0, sub-message=incr)



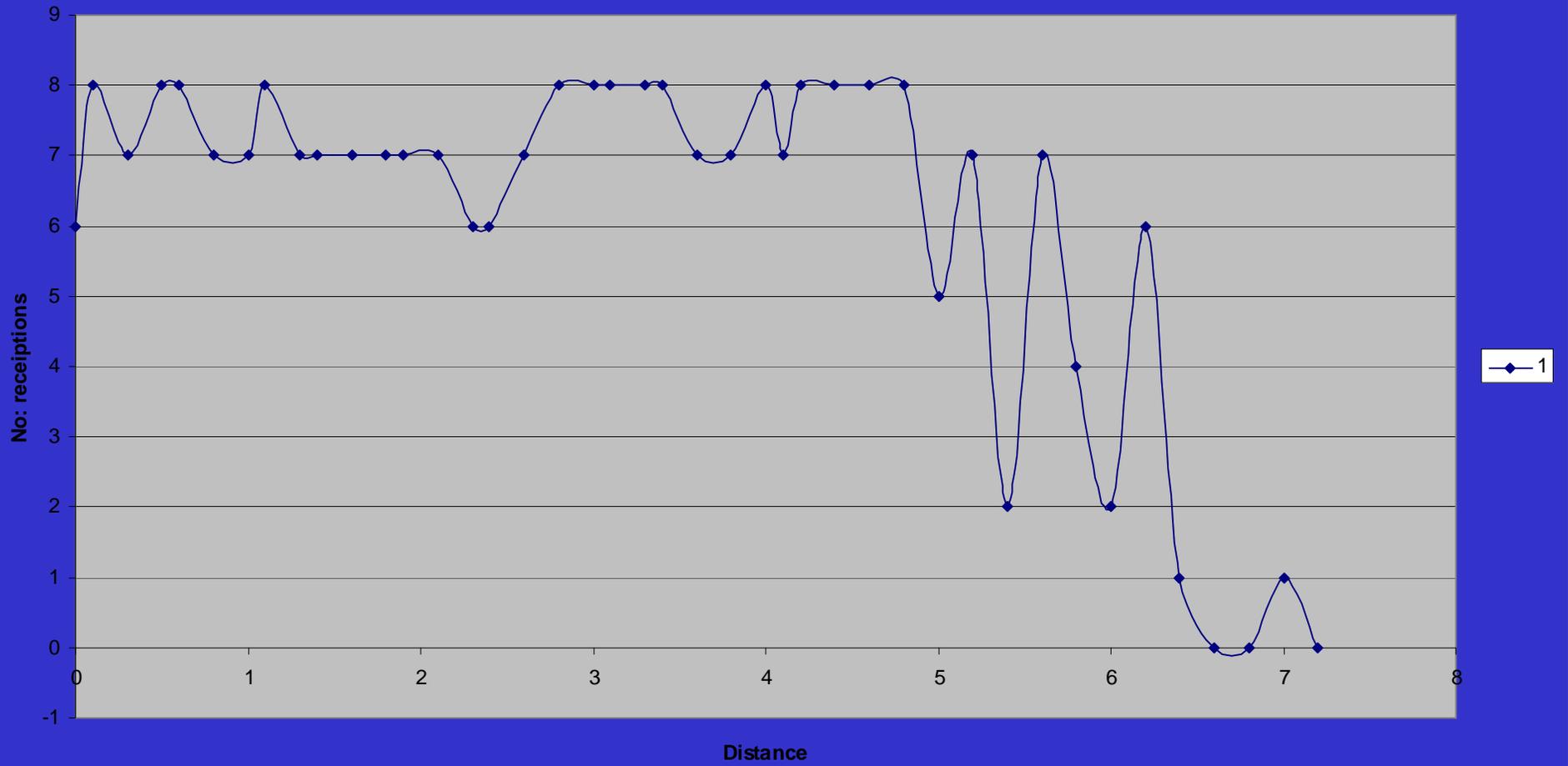
### SART 2



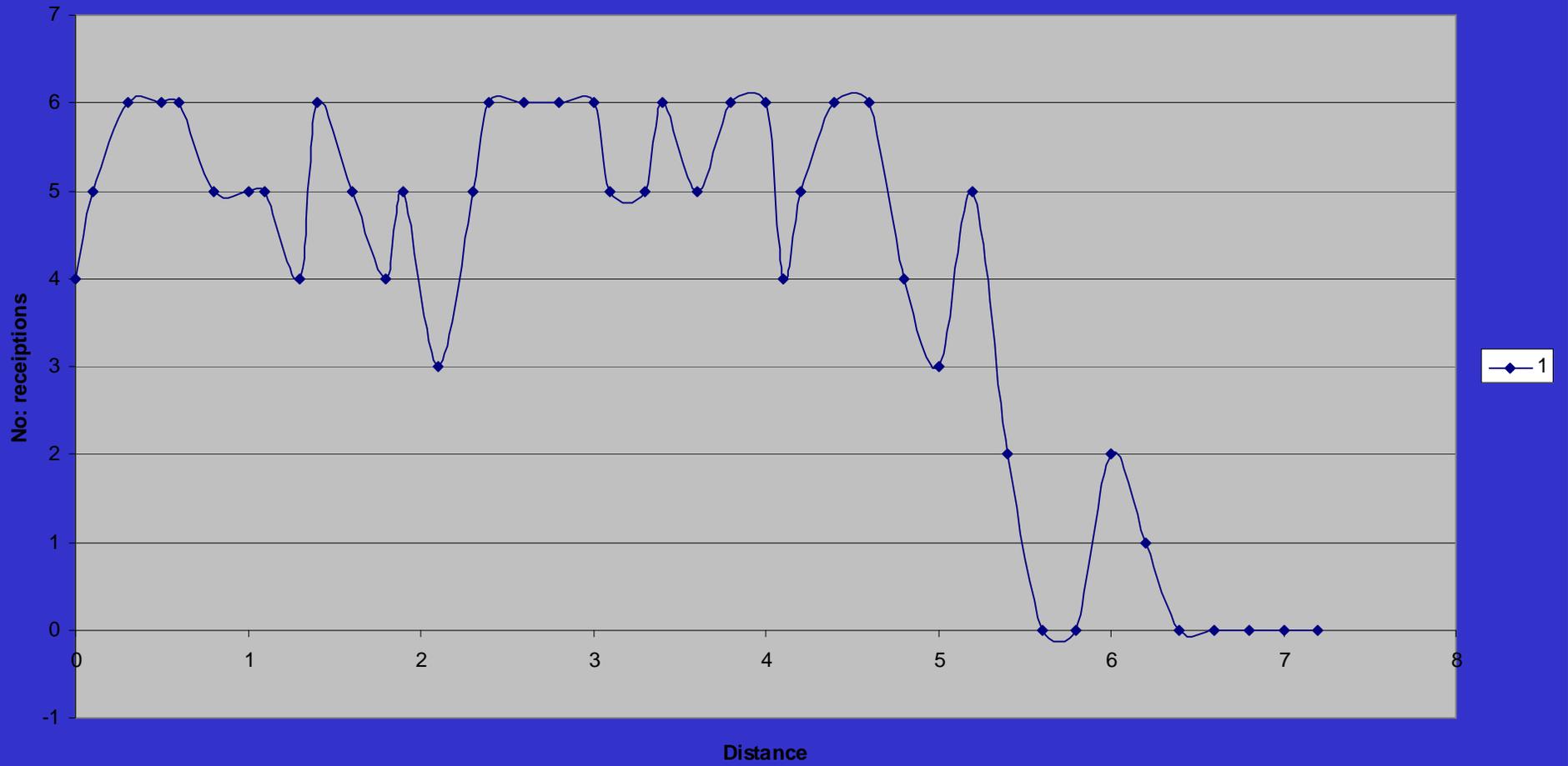
### SART 3



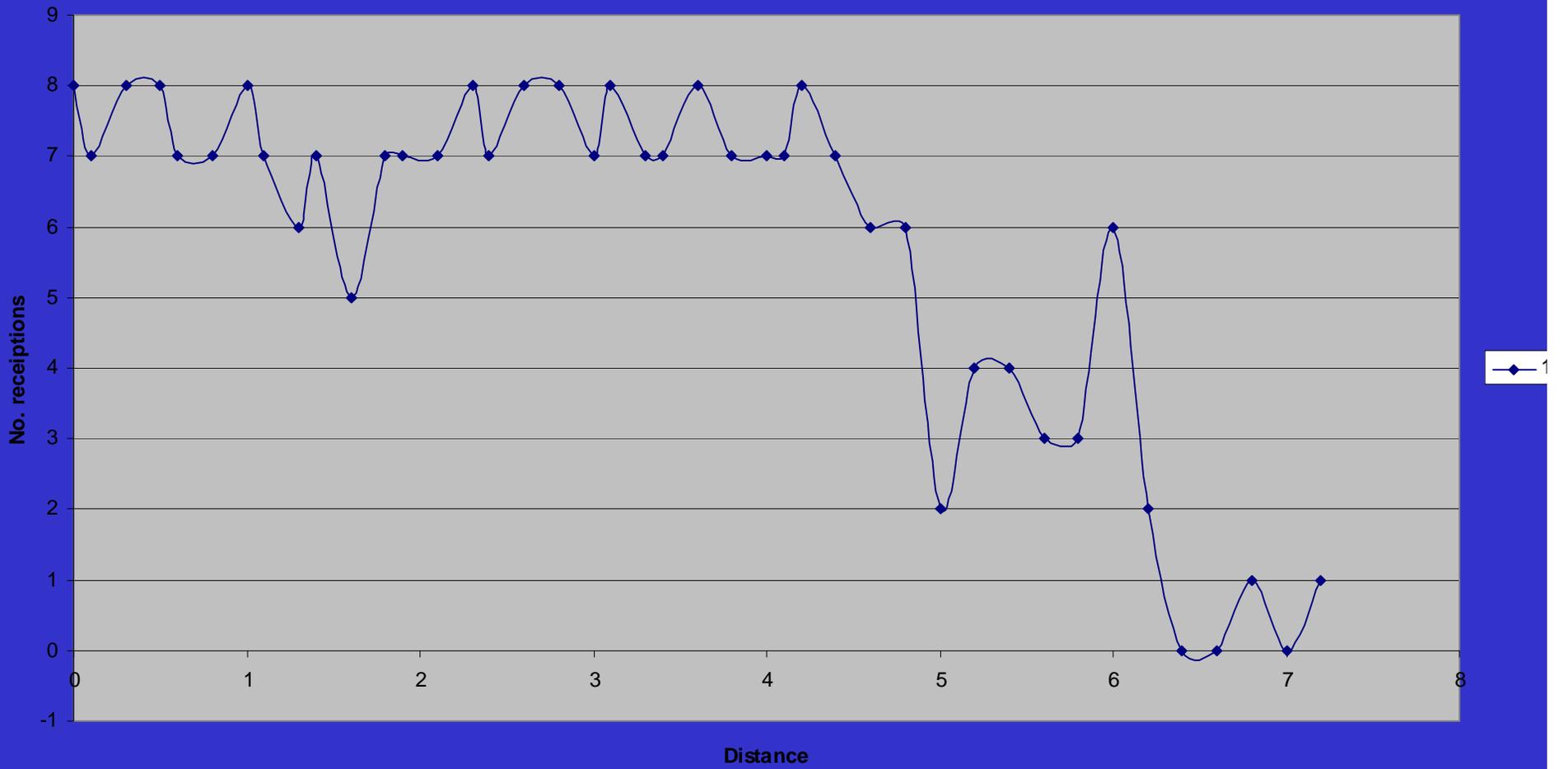
### SART 4



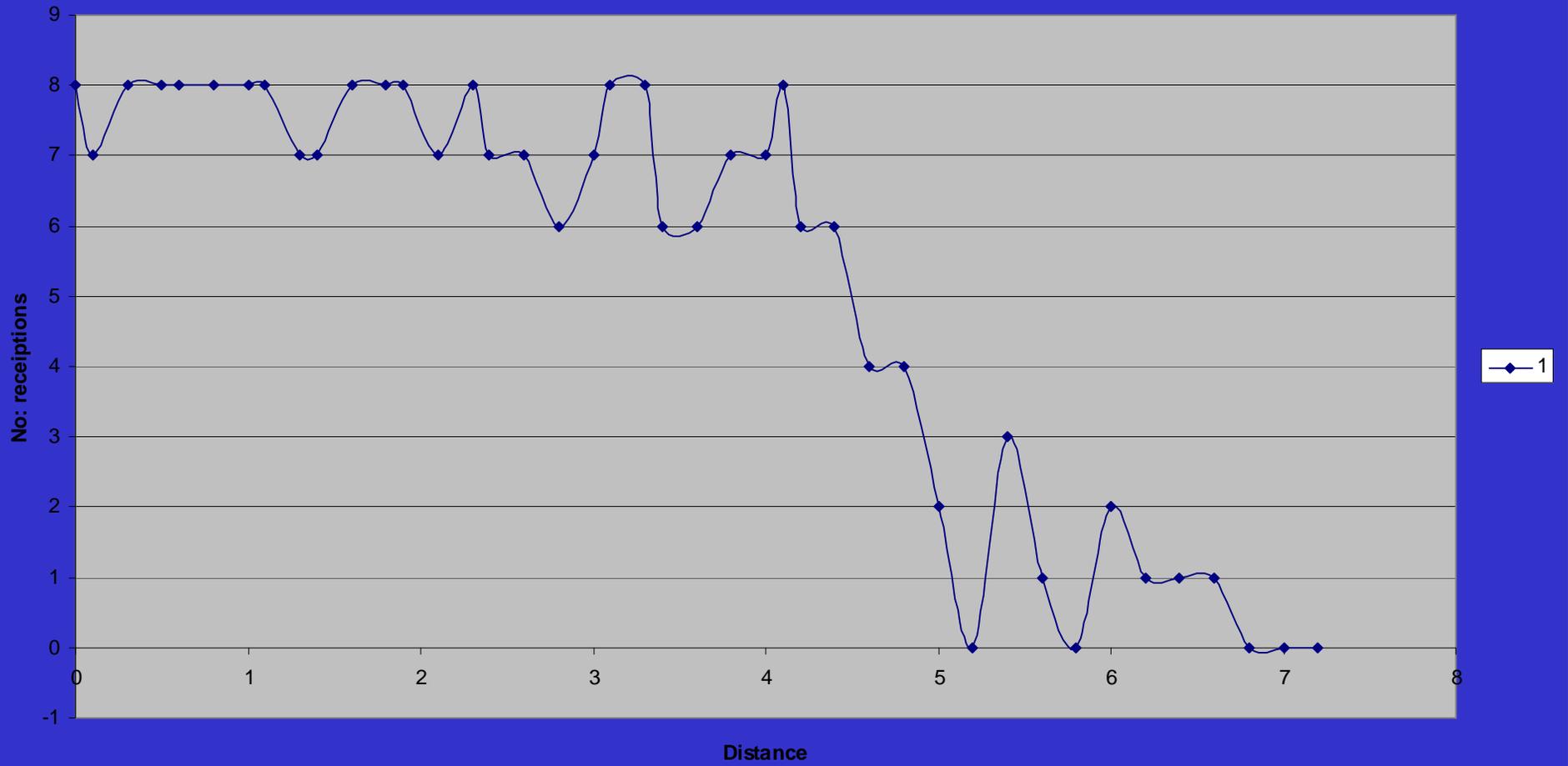
### SART 7



### SART 8



### SART 2



AIS SART Sea Trials.  
Northern Lighthouse Board, Oban, Scotland.

