



Mapping the *Mary Rose* 2003-2005

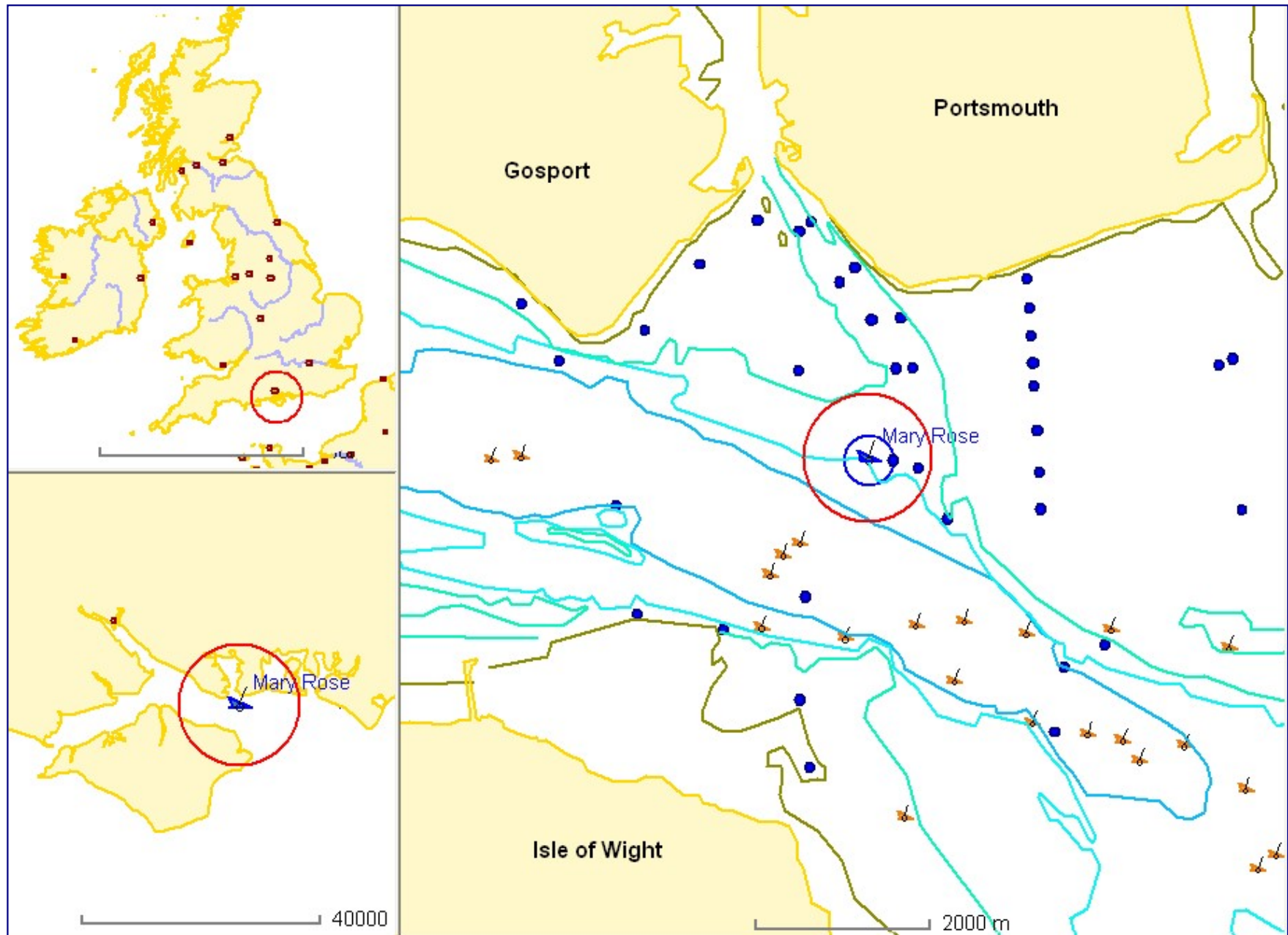
Peter Holt

Director, 3H Consulting Ltd

The *Mary Rose* Project - Artists impression



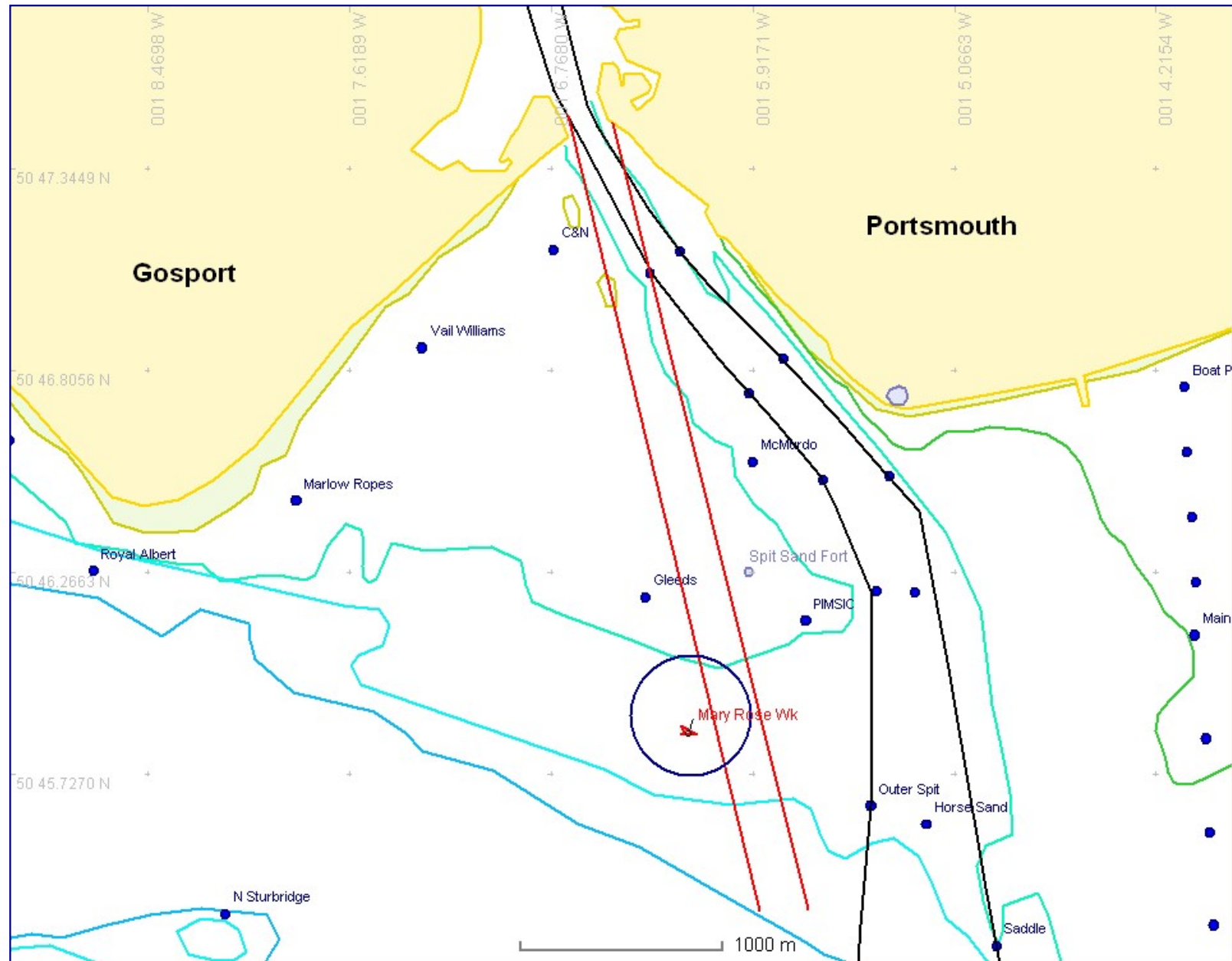
The *Mary Rose* Project - Portsmouth, UK



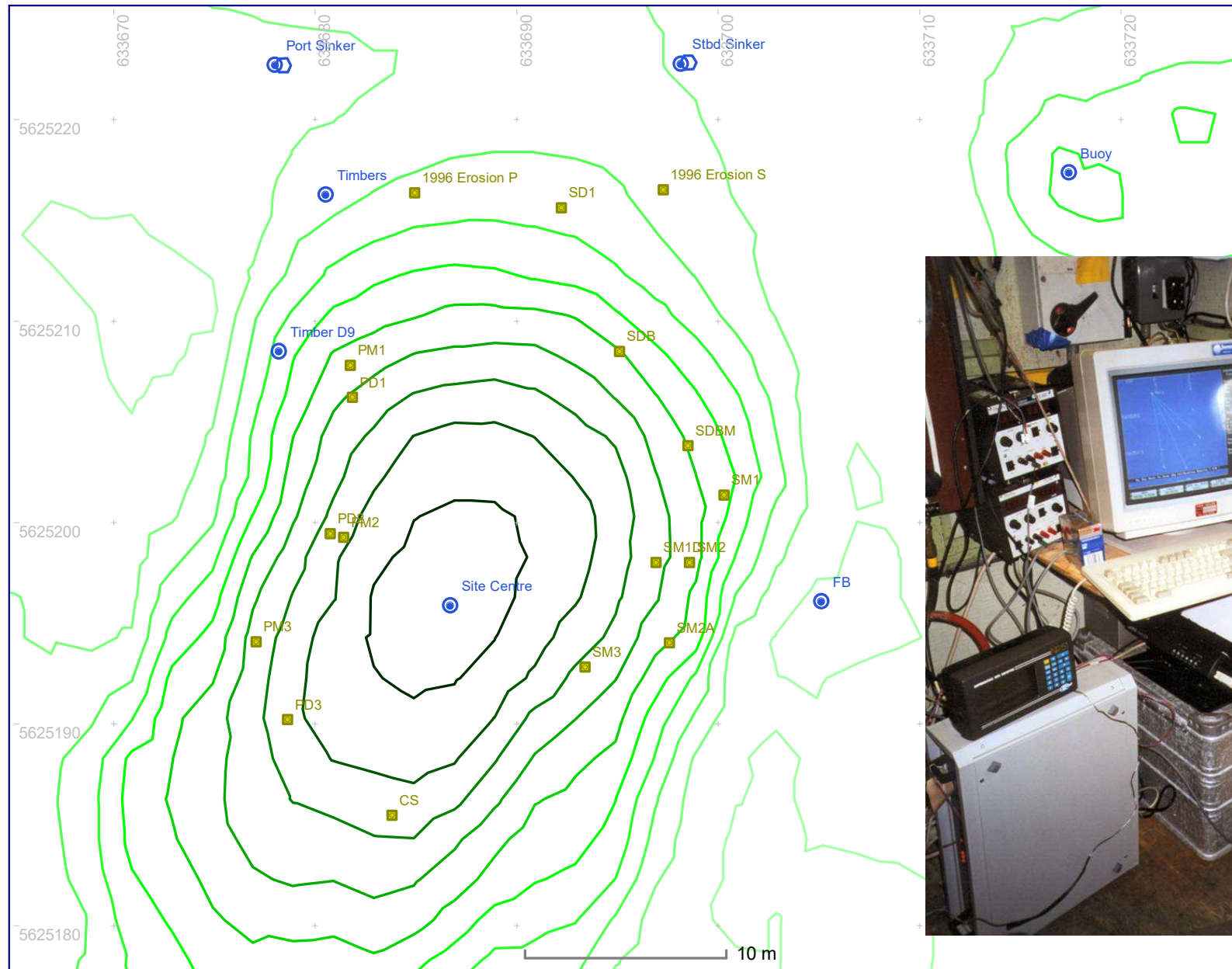
The *Mary Rose* Project - CVF Carrier on Middle Slip Jetty, Portsmouth



The *Mary Rose* Project - Portsmouth, UK



The *Mary Rose* Project – 1996 Erosion Monitoring



The *Mary Rose* Project - 2003 Season



The *Mary Rose* site is under threat from planned dredging work for the Royal Navy

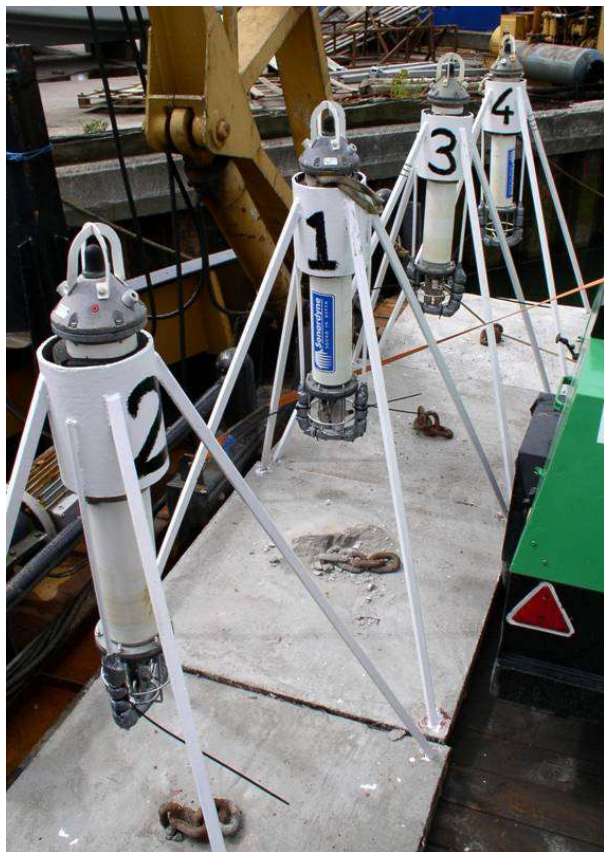
2003 Excavation

- Re-sieve spoil heaps from original excavation
- Remove items left on the seabed
- Investigate bow area

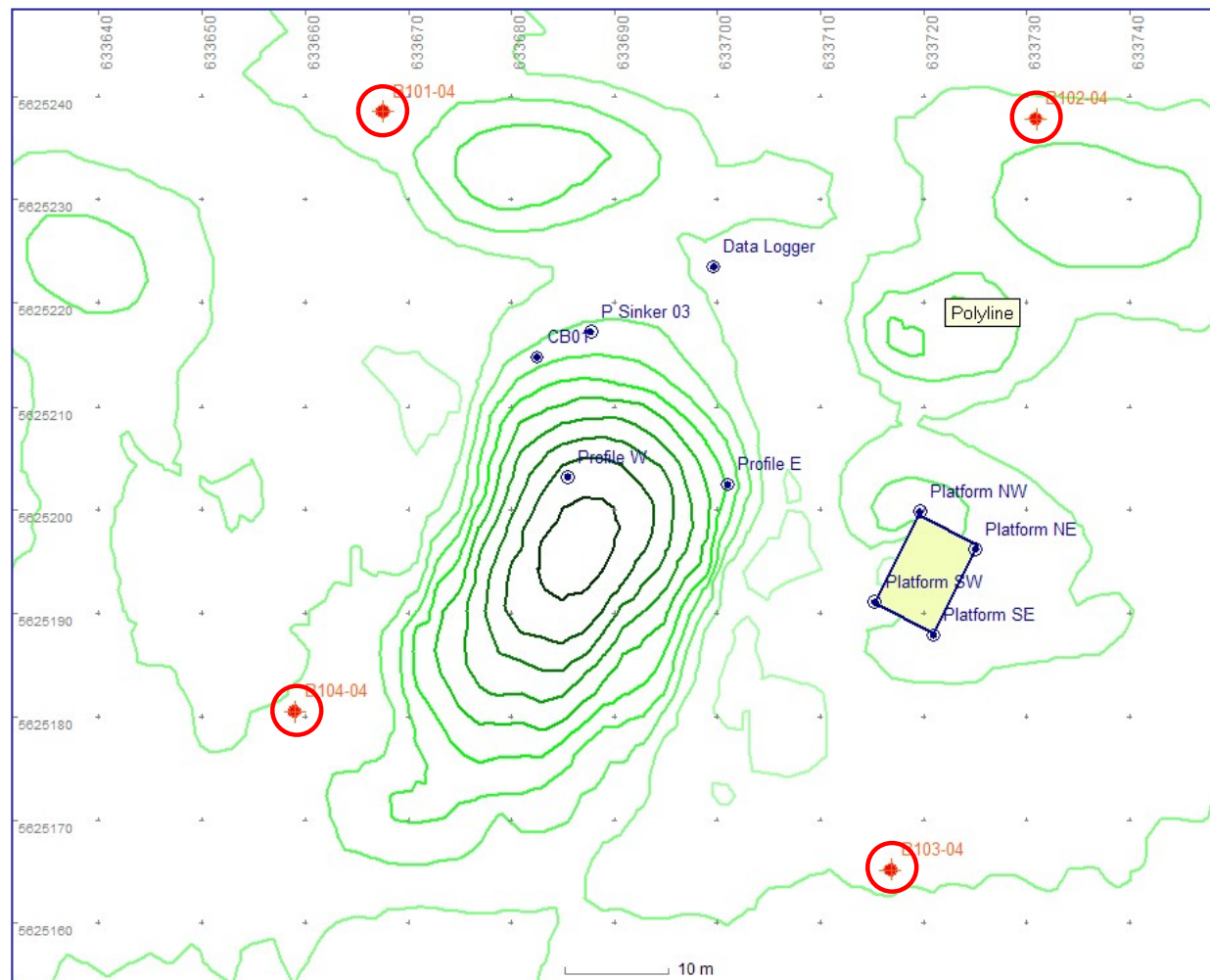
Short working period of 3 weeks

Recent deposition 0.5m – 1m over the whole site

The *Mary Rose* Project - *Fusion* Long Baseline (LBL) Beacon array



4 EHF COMPATT beacons
deployed in frames
80m x 80m (260ft) array
Box-in & baseline calibration

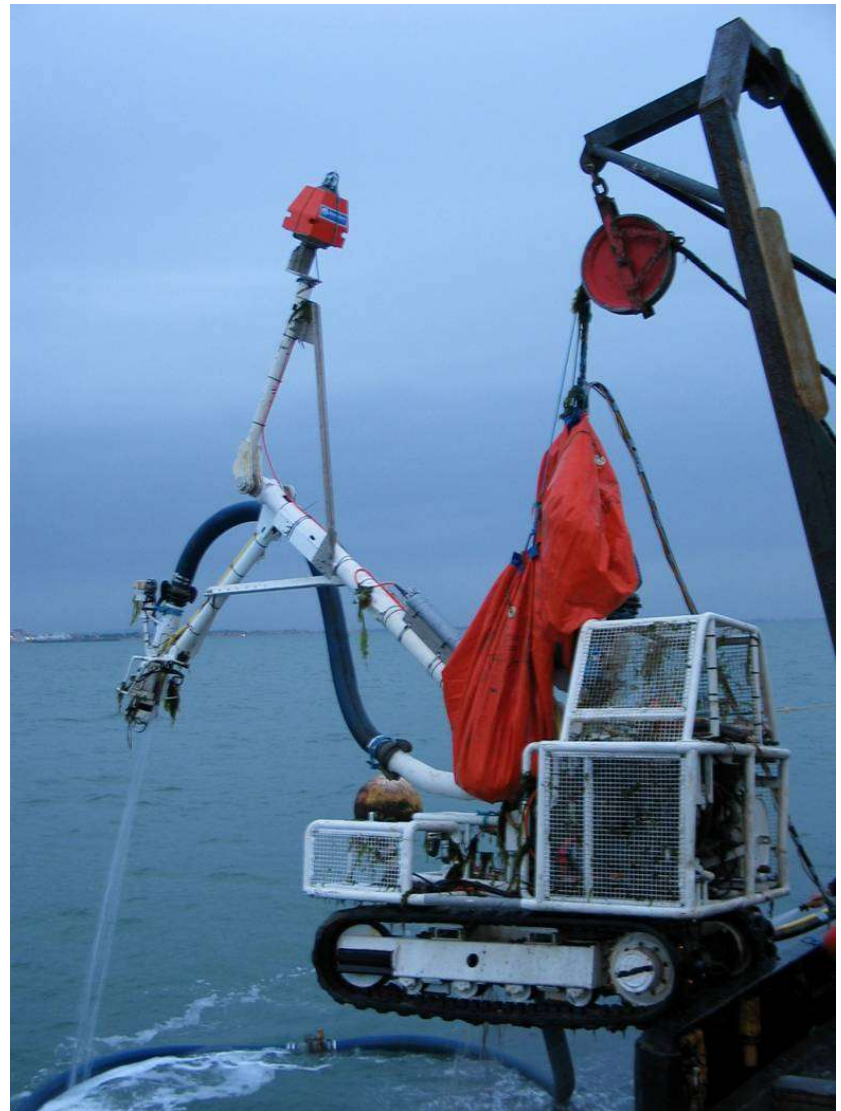


The *Mary Rose* Project - ROVs and Divers

Diver with Survey Staff



Swan 2000 Crawler Excavator

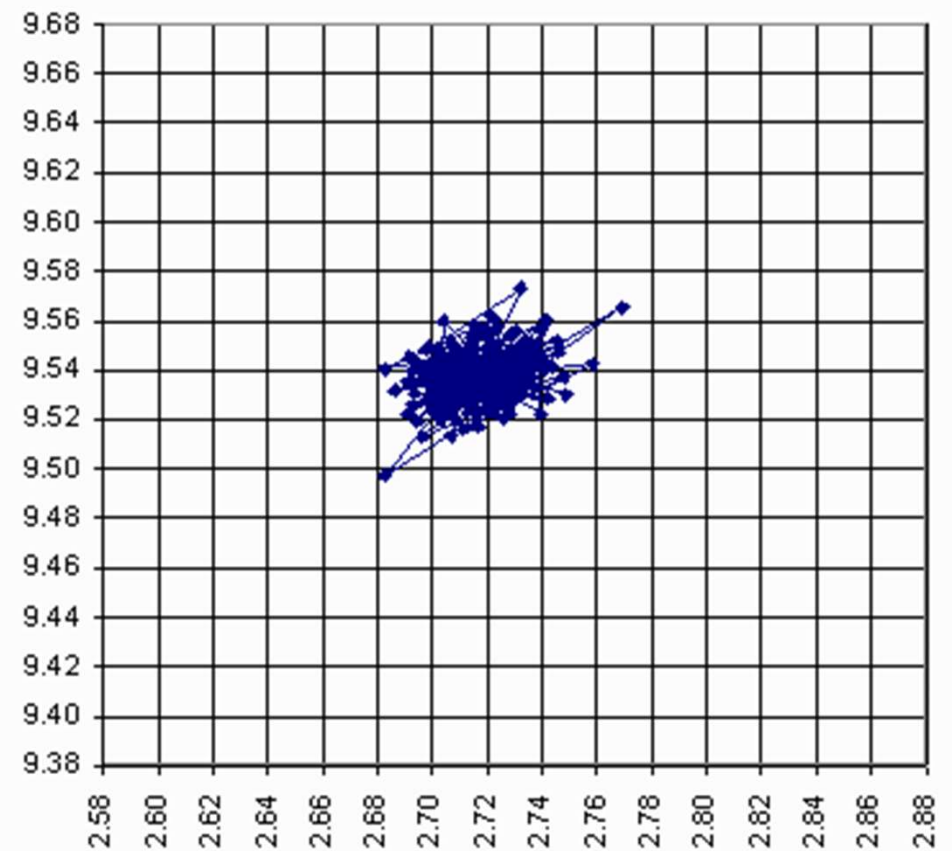


The *Mary Rose* Project - Static tracking test results

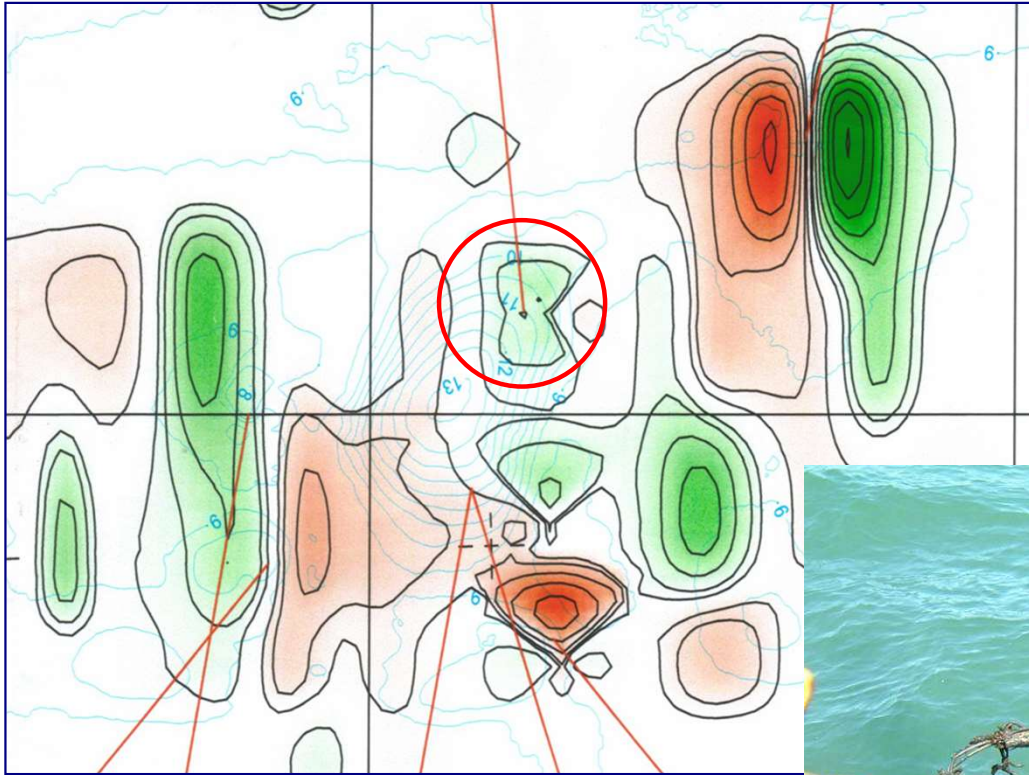


Survey staff pushed into the seabed

235 fixes in 30mm (1in) diameter



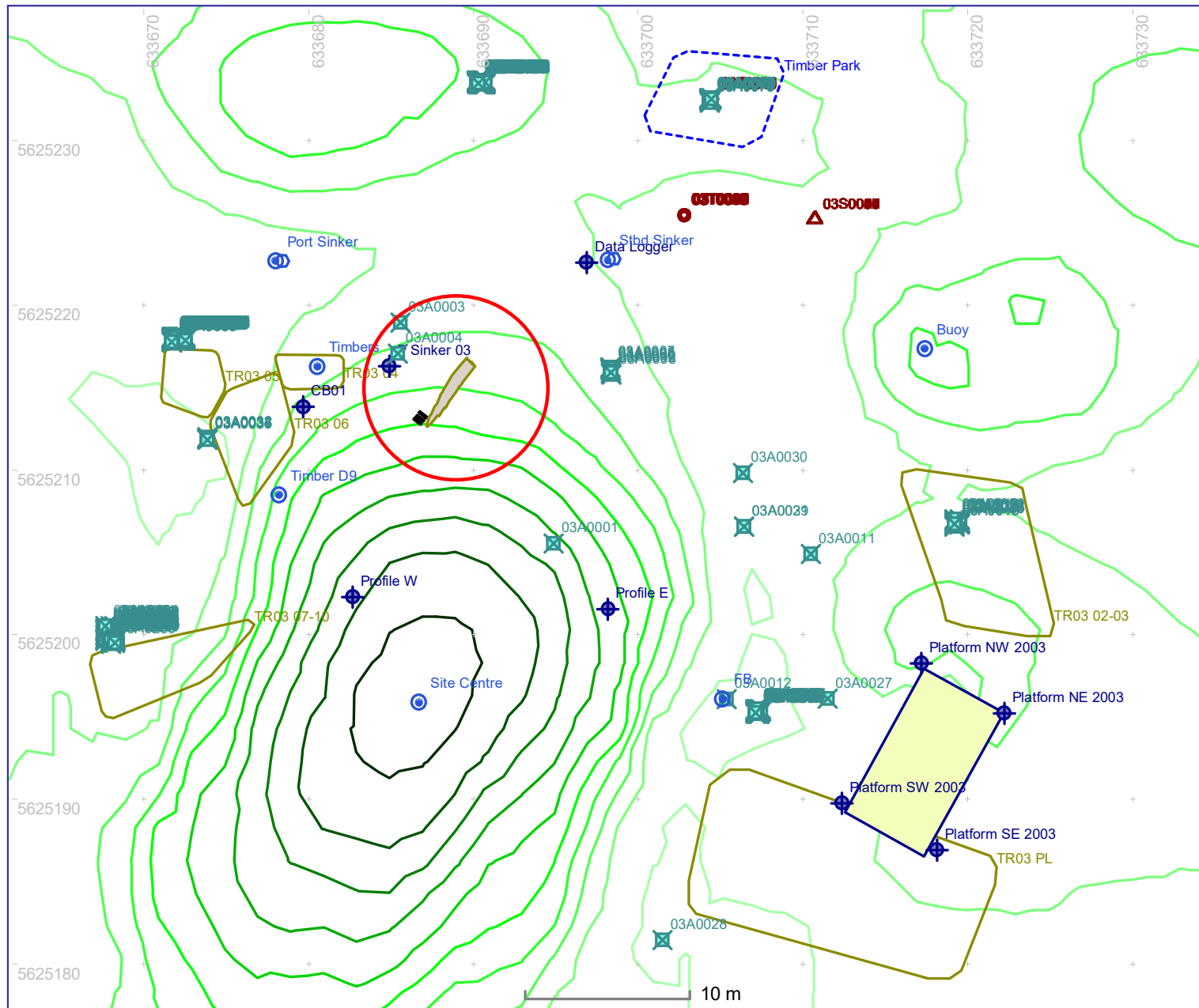
The *Mary Rose* Project – 2003 Magnetometer Survey



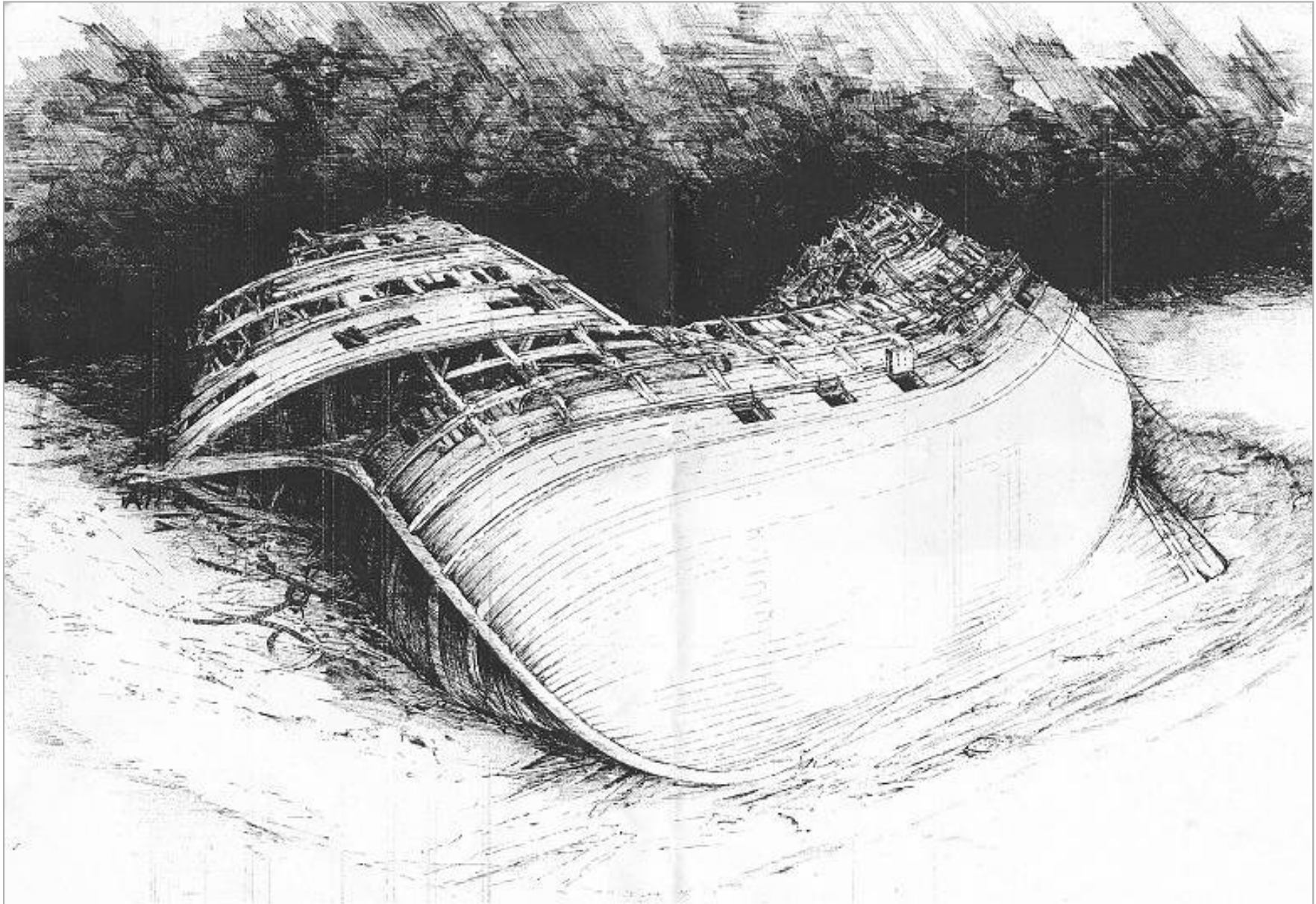
Modern chain debris



The *Mary Rose* Project – 2003 Trenches



The *Mary Rose* Project - Artists impression



3H Site Recorder

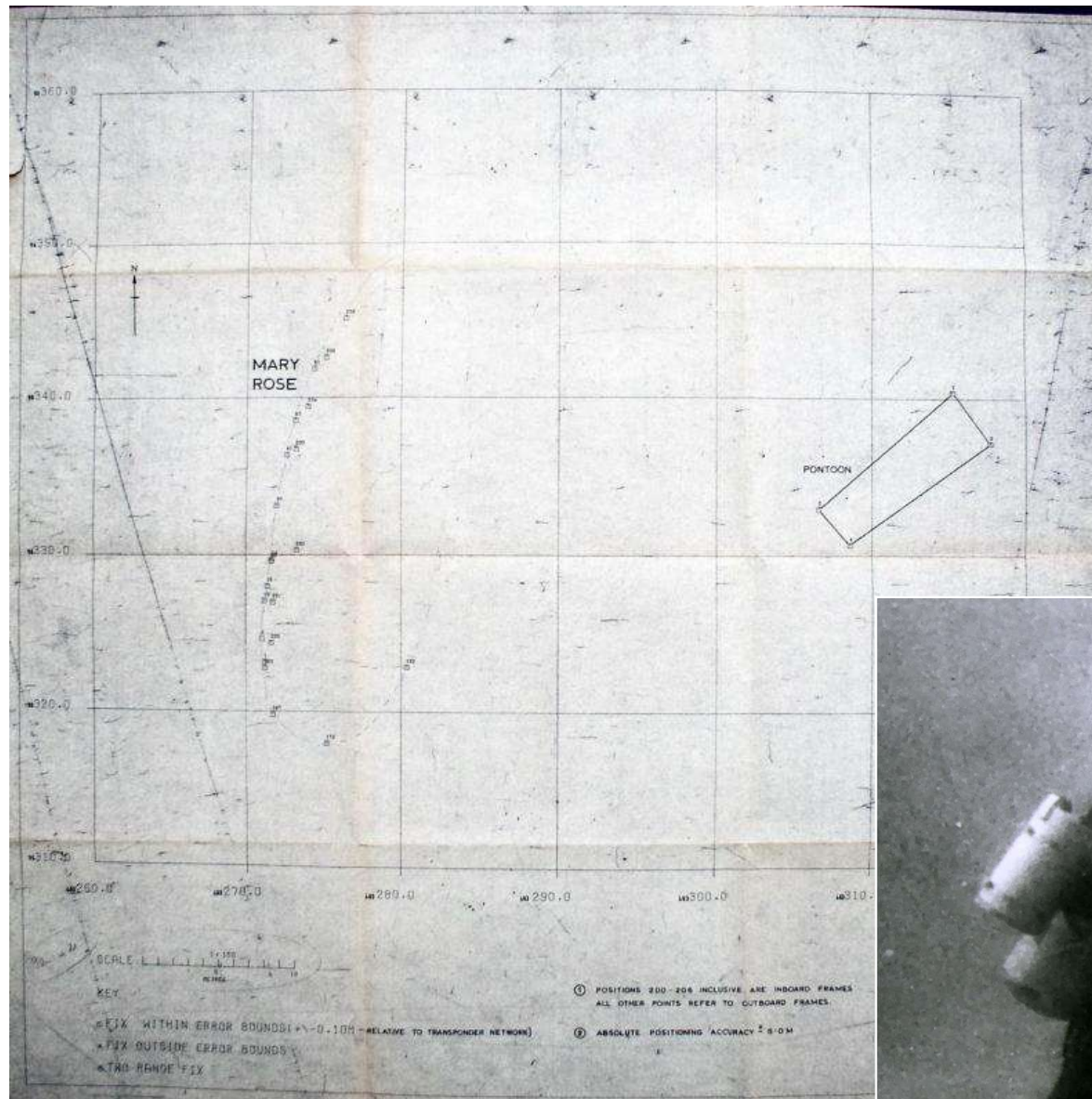
Geographic Information System for Marine Archaeology

- Finds
- Drawings
- Survey data
- Images
- Geophysics
- Tracking data
- Samples
- Contexts
- Dive logs
- Documents
- Time

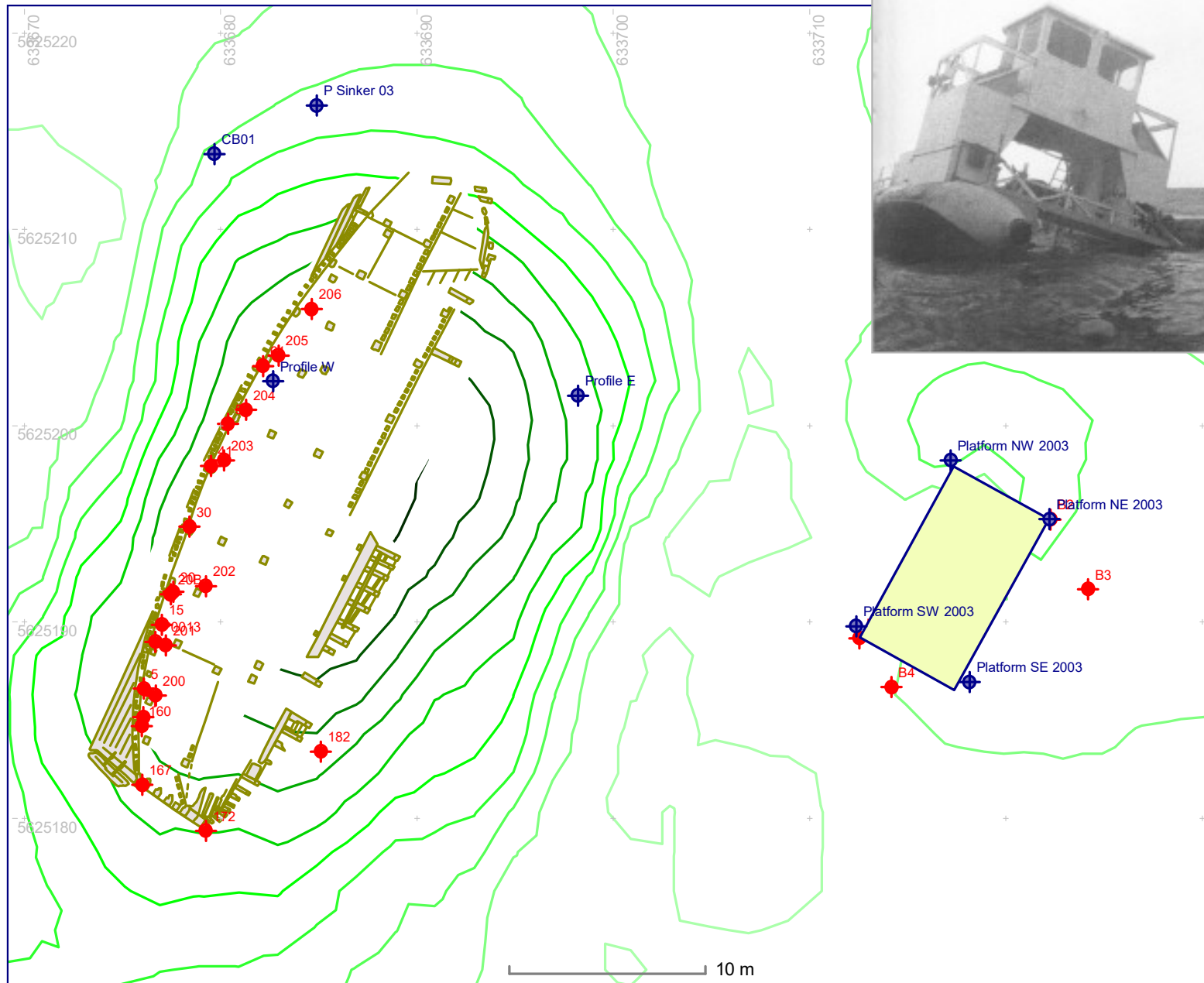
The screenshot displays the 3H Site Recorder software interface. The main window shows a map with various artefact locations marked. A central window titled 'Artefact - MRT-05A0006' is open, showing details for a specific artefact. The 'Recording' tab is active, displaying fields for Name, Previous name(s), Object Class, Object Type, Material, Description, Dive Found, Date Found, Dive Recovered, Date Recovered, and Collect Method. The 'Collect Method' dropdown is set to 'Excavated'. A 'Print' button is visible. To the right, a 'Layers' panel lists various data layers, including 'Mary Rose', '1976 BP Rangemeter', 'Mary Rose General', '2005 Season', '2005 Artefacts', '2005 Samples', '2005 Timbers', '2005 Human', '2005 Timbers Dwg', '2005 Control', '2005 Features', '2005 Dives', '2005 Anchor', '2005 Datalogger L', '2005 Moorings', '2005 Cradle', '2005 Trenches', '2005 Sandbags', 'Dive 37 Fixes', '2004 Season', '2003 Season', '1996 Erosion Monitoring', '1979 Season', '1978 Season', '1977 Season', '1976 Season', '1973 Season', '1971 Season', 'Hull Outline 60', 'Trenches 75-79', '2003 Remus AUV Survey', '1997 Dix Sub-Bottom', '2004 Triton SBP', '2004 Wessex Archaeology', '2005 MLD MBES Bathymetry', '2002 MLD MBES Bathymetry', '2003 GeoAcoustics MBES', '2003 Andrews Survey', 'Base Maps', and 'Solent [Shared]'. At the bottom, an 'Artefacts [825]' table lists artefacts with columns for Ty, Name, Visible, Layer, Easting (m), Northing (m), Latitude, Longitude, Depth (m), Previous name(s), Object Class, Object Type, Material, and De. The status bar at the bottom shows 'GPS Tracking OFF Logging OFF'.

Ty	Name	Visible	Layer	Easting (m)	Northing (m)	Latitude	Longitude	Depth (m)	Previous name(s)	Object Class	Object Type	Material	De
05A0004	N	2005 Artefacts	633691.012	5625216.913	50 45.7981 N	001 6.2583 W	10.000	A0004	Ship Stores	Bottle	Glass: Bottle	pai	
05A0005	N	2005 Artefacts	633691.007	5625217.027	50 45.7981 N	001 6.2583 W	10.000	A0005	Ship Fittings	Brick	Ceramic: Brick	2x	
05A0006	N	2005 Artefacts	633691.114	5625218.065	50 45.7987 N	001 6.2581 W	10.000	A0006	Personal Posse...	fiddle bow	Organic: Wood	bow	
05A0007	N	2005 Artefacts	633691.120	5625218.002	50 45.7987 N	001 6.2581 W	10.000	A0007	Miscellaneous	Concretion	Other	Co	

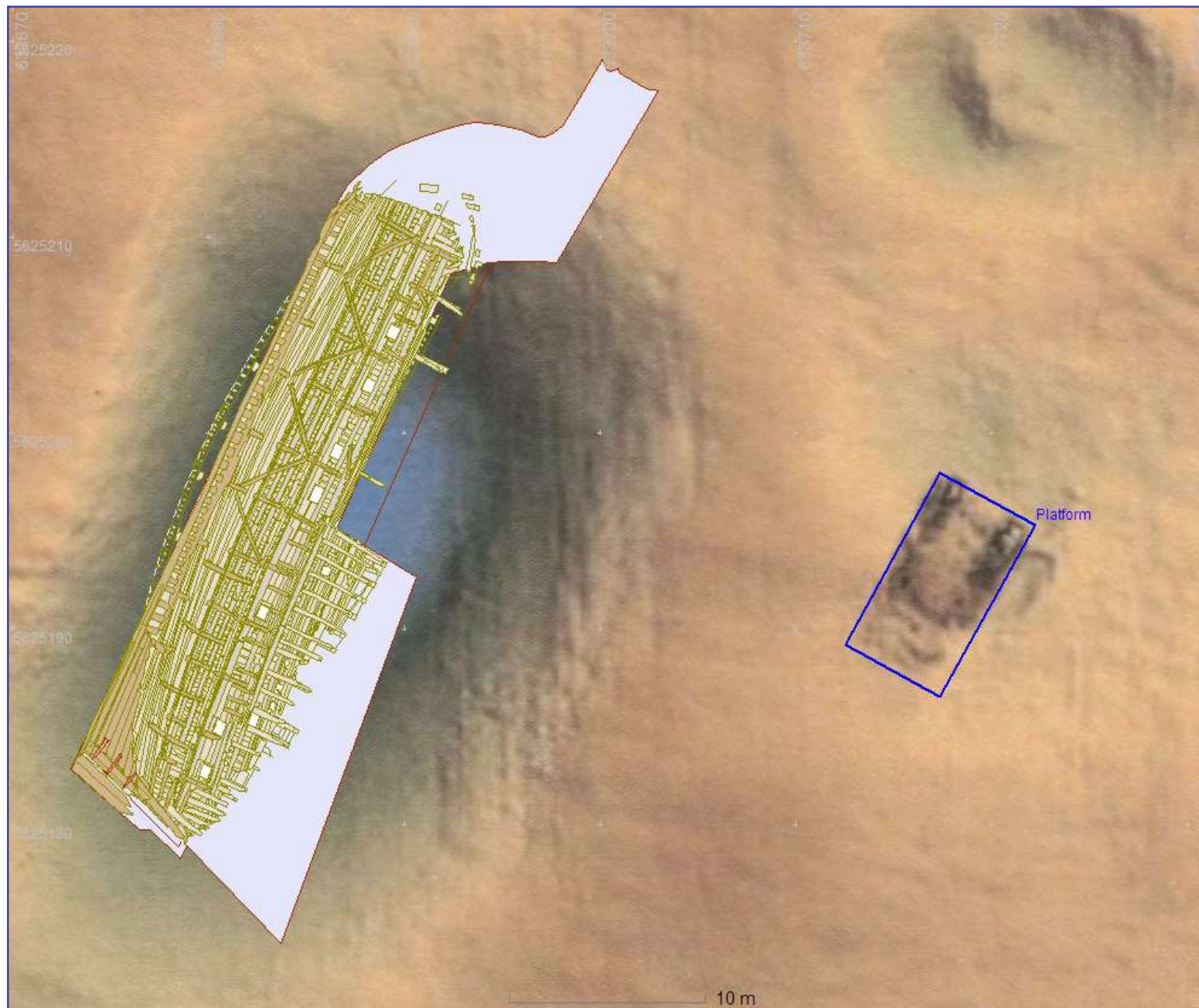
The *Mary Rose* Project - 1975 BP Rangemeter Survey



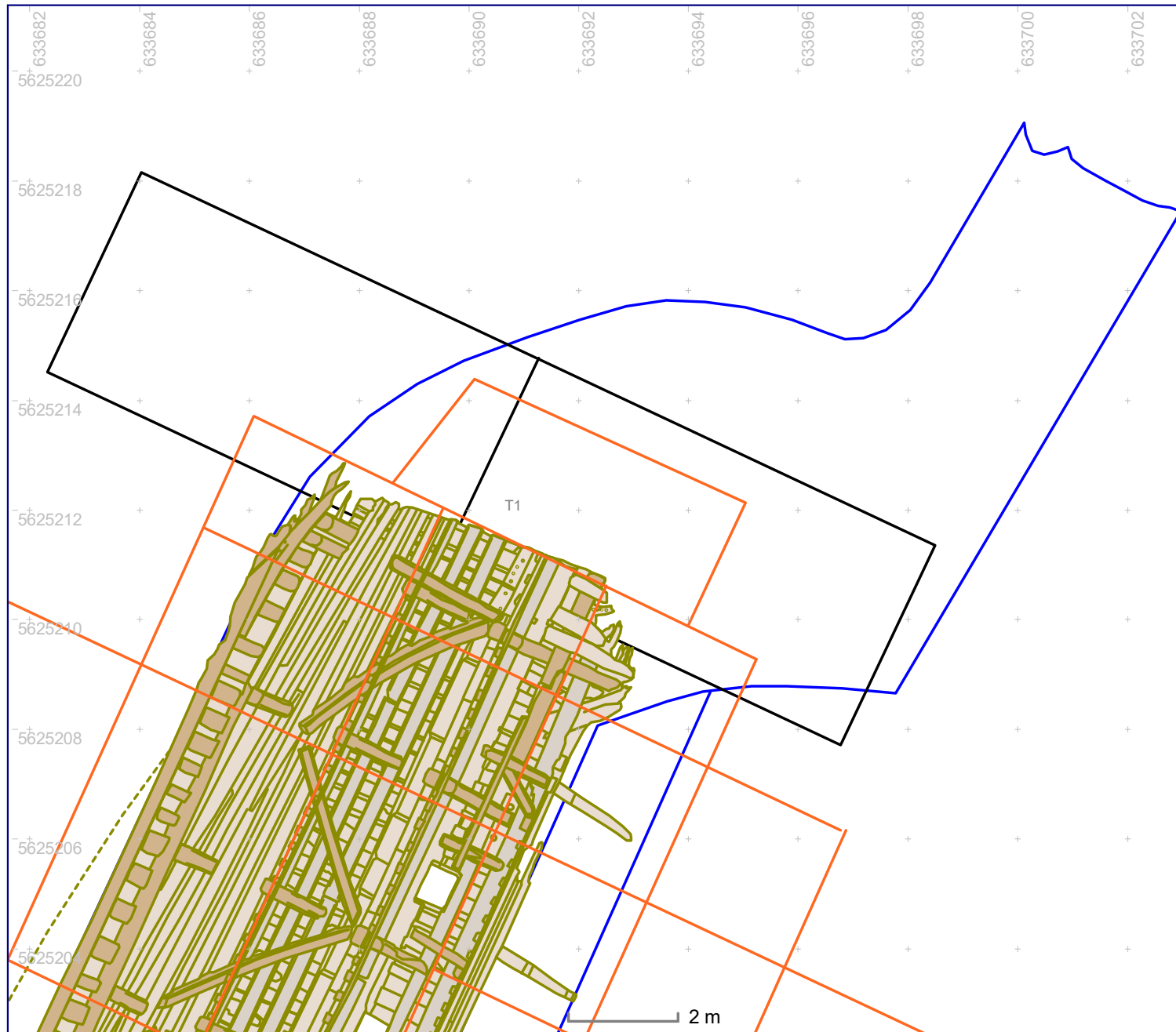
The *Mary Rose* Project - Re-positioning the Hull



The *Mary Rose* Project - Re-positioning the Hull



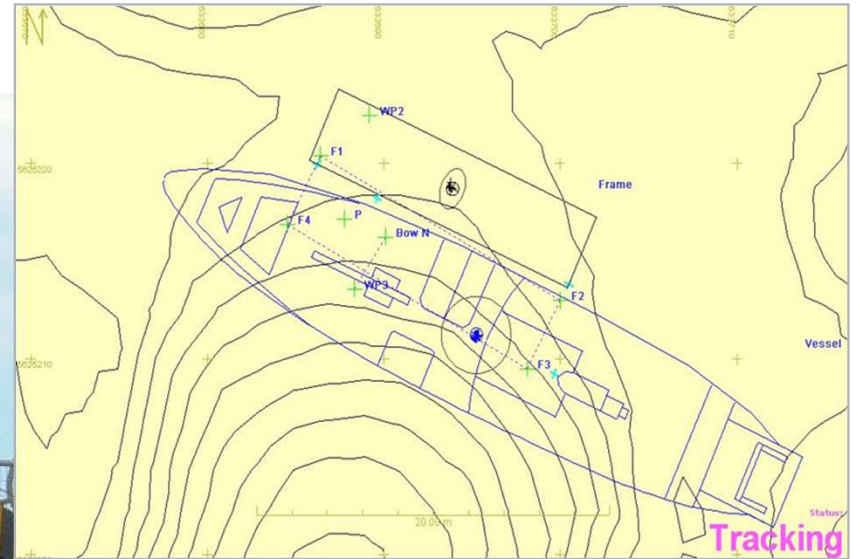
The *Mary Rose* Project - 2004 Season trenches



The *Mary Rose* Project - 2004 USBL positioning system



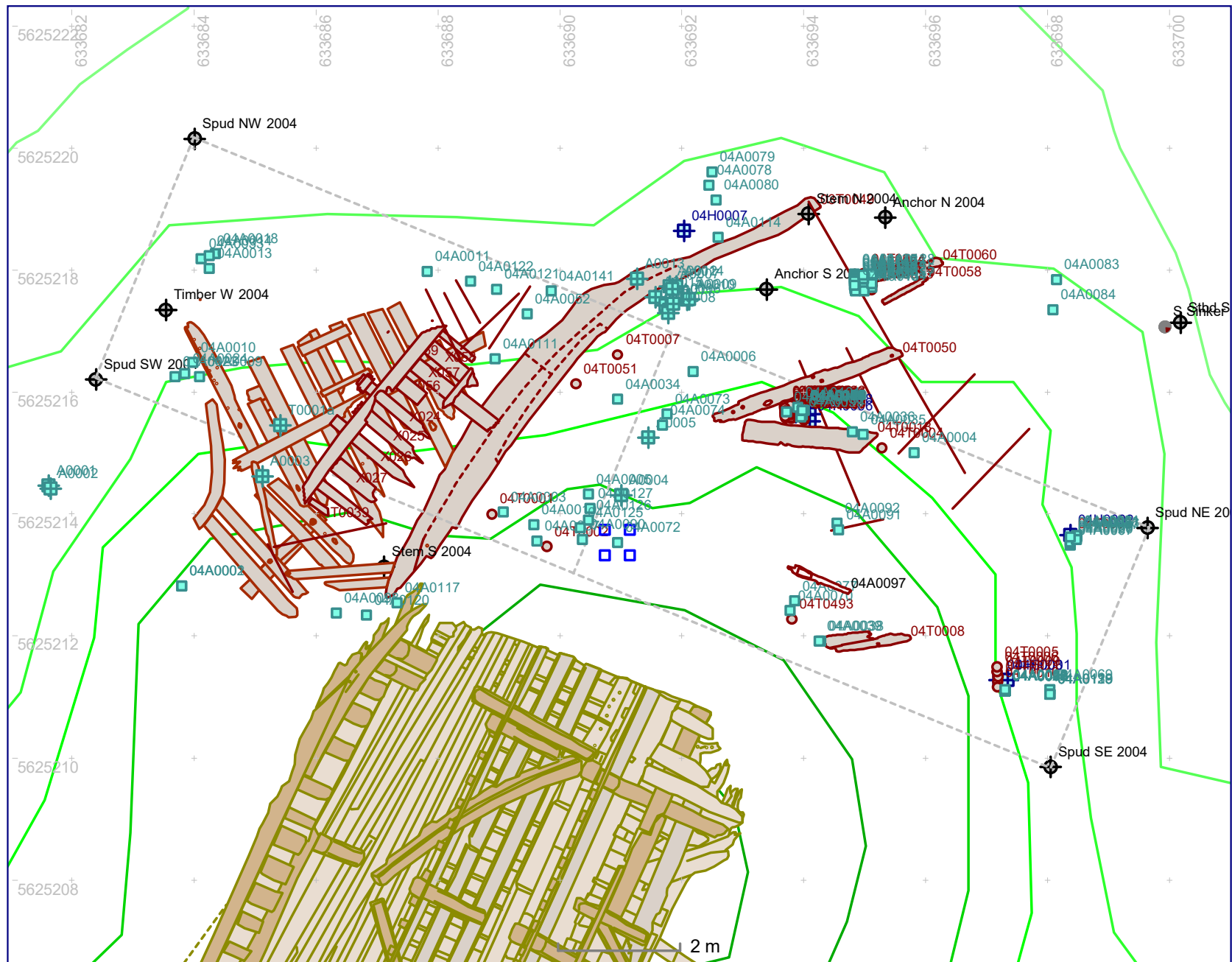
The *Mary Rose* Project - 2004 Deploying the grid frame



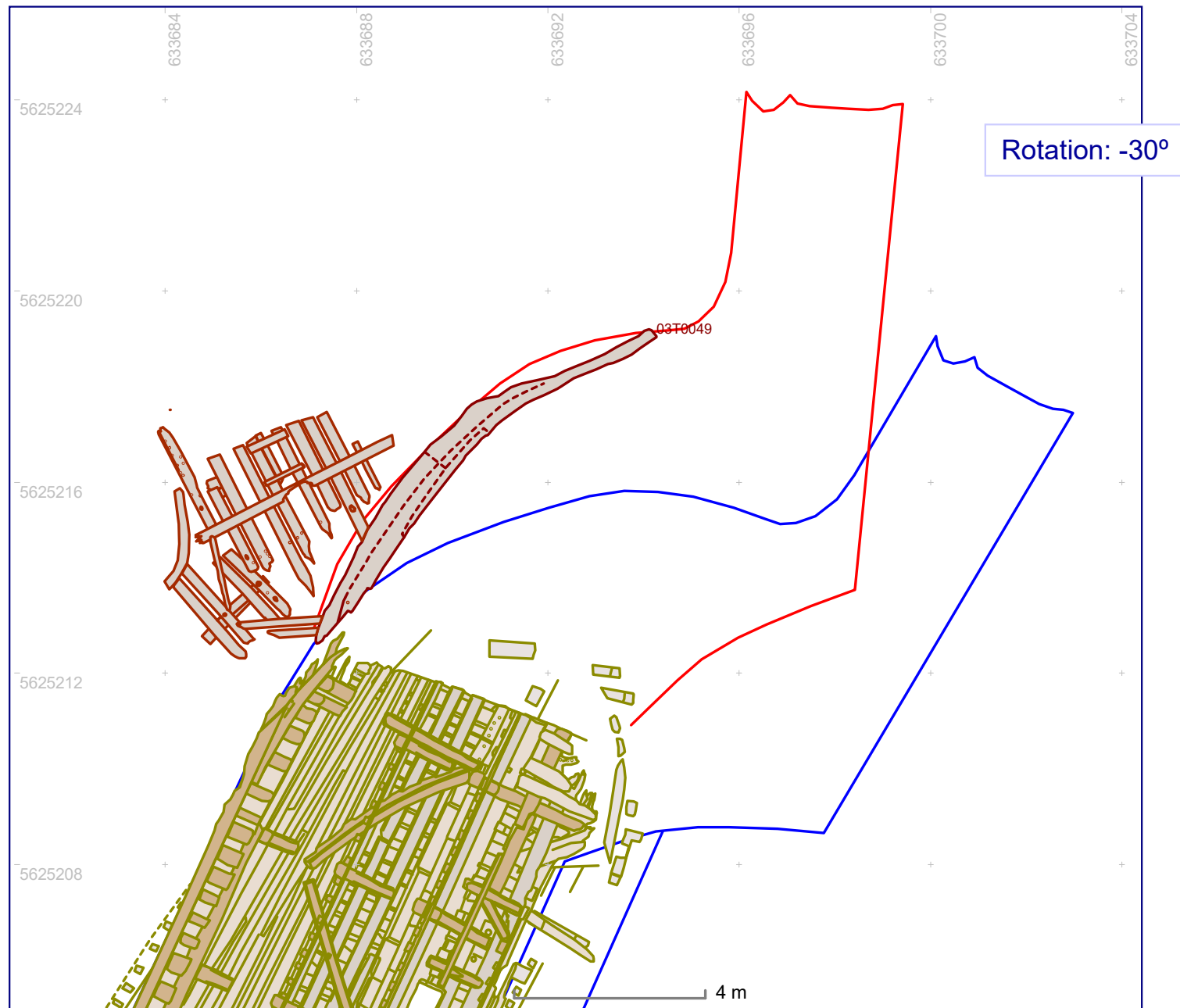
The Mary Rose Project - 2004 *Fusion and Site Recorder*



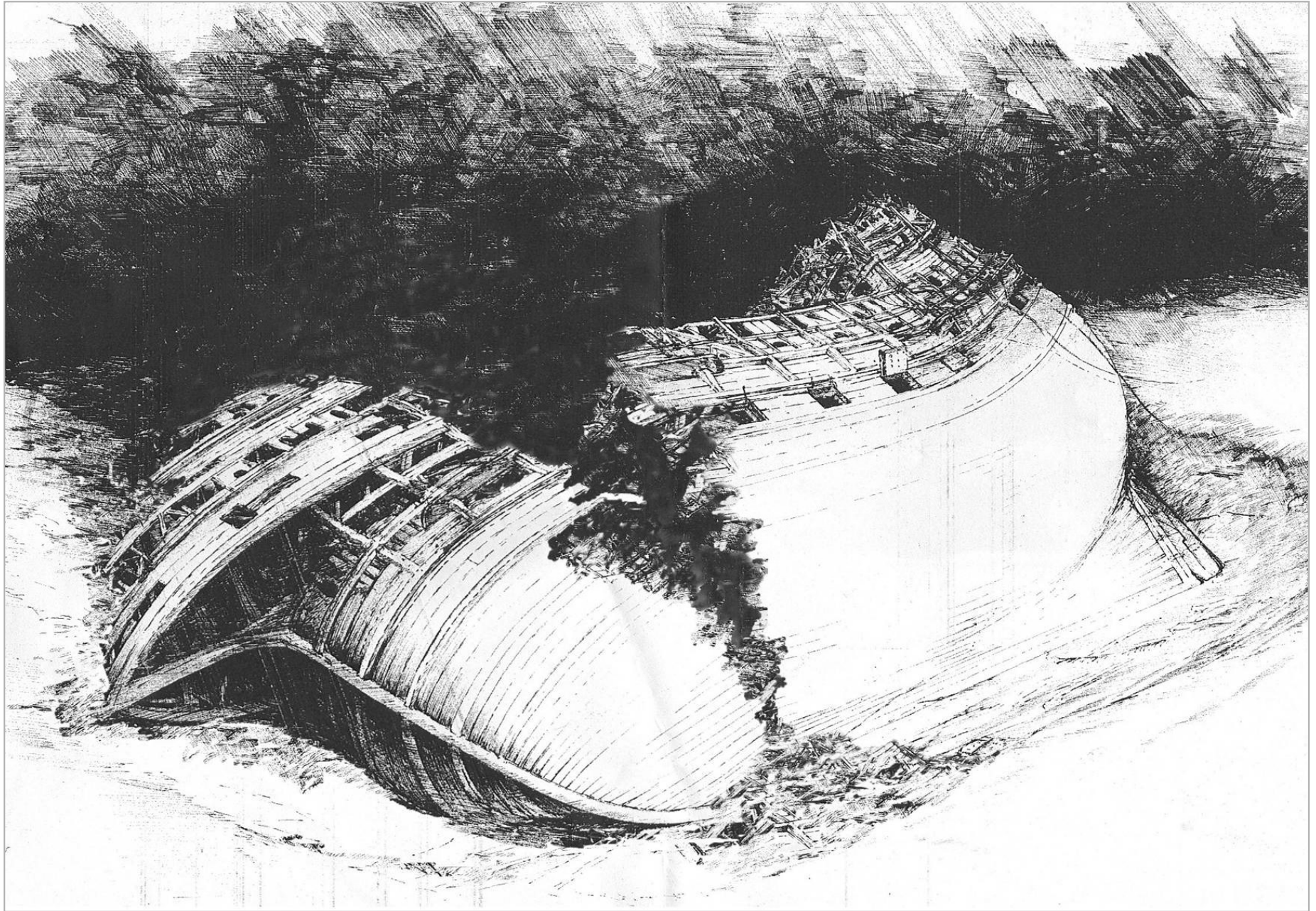
The *Mary Rose* Project – 2004 Site Plan



The *Mary Rose* Project - 2004 Bow alignment



The *Mary Rose* Project - Artists impression revised

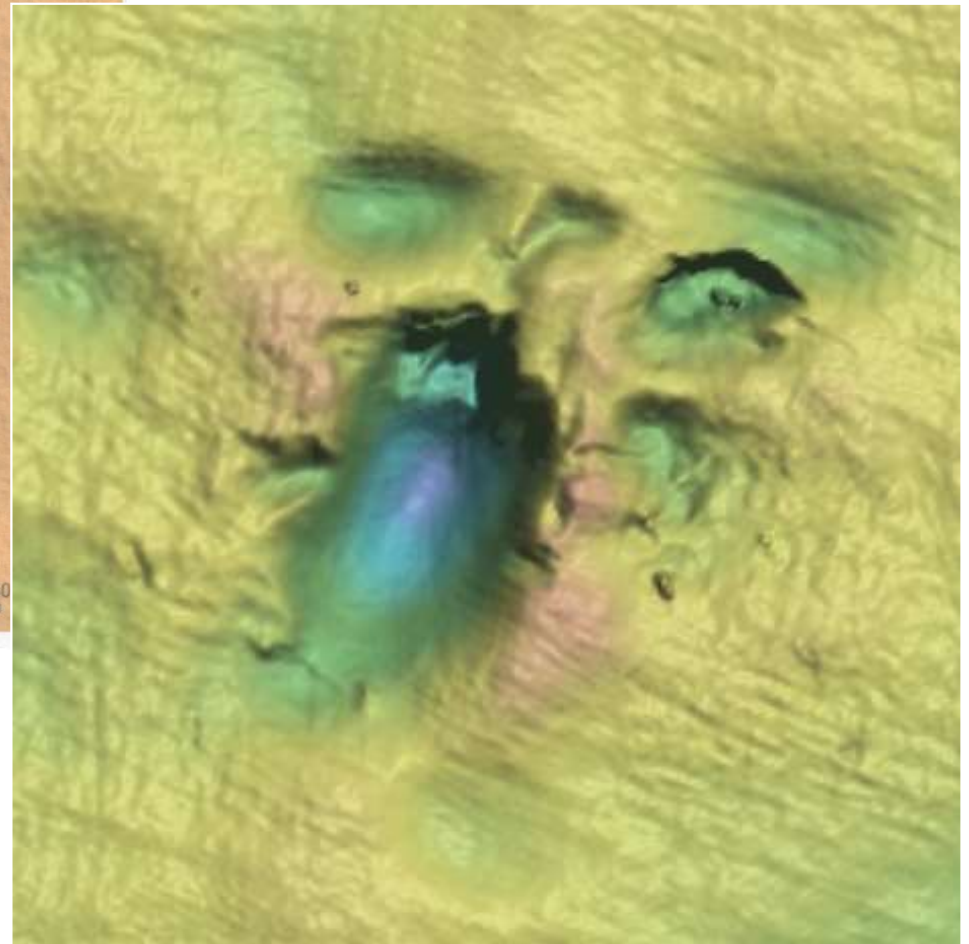


The *Mary Rose* Project – 2003 to 2005 Seabed Topography

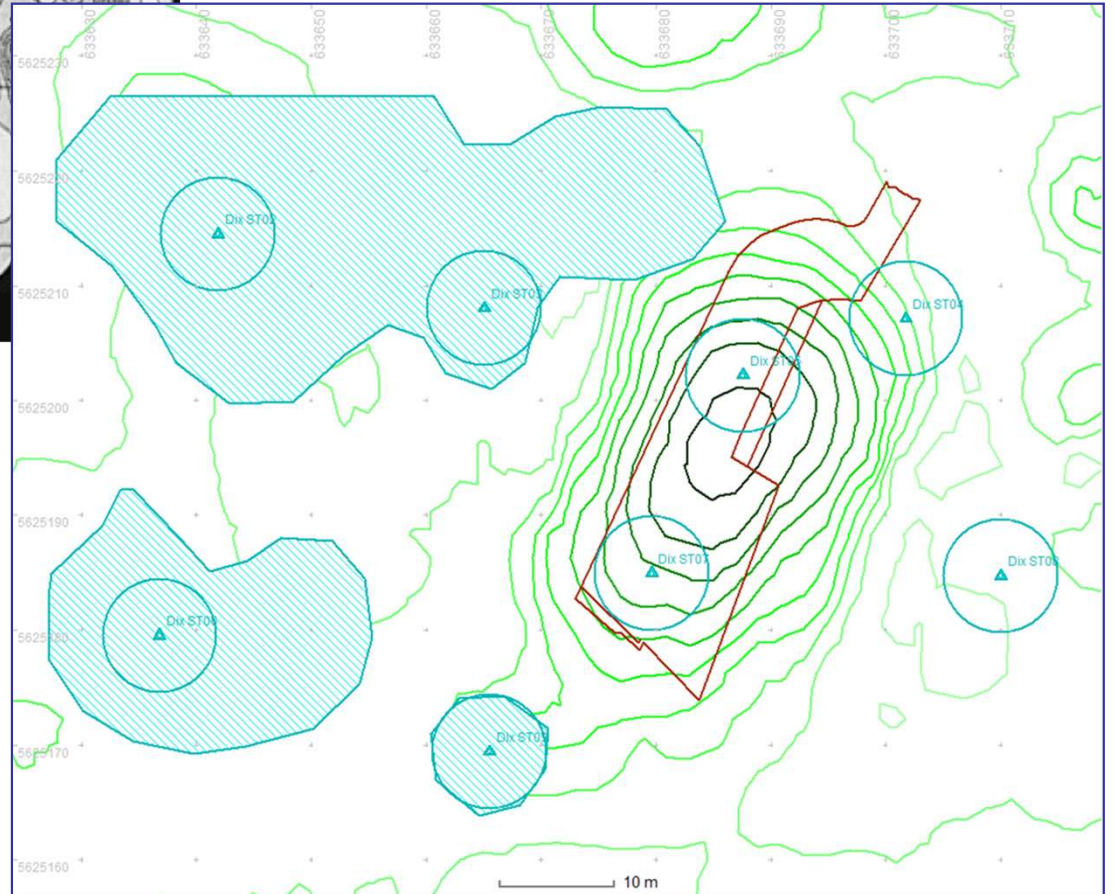
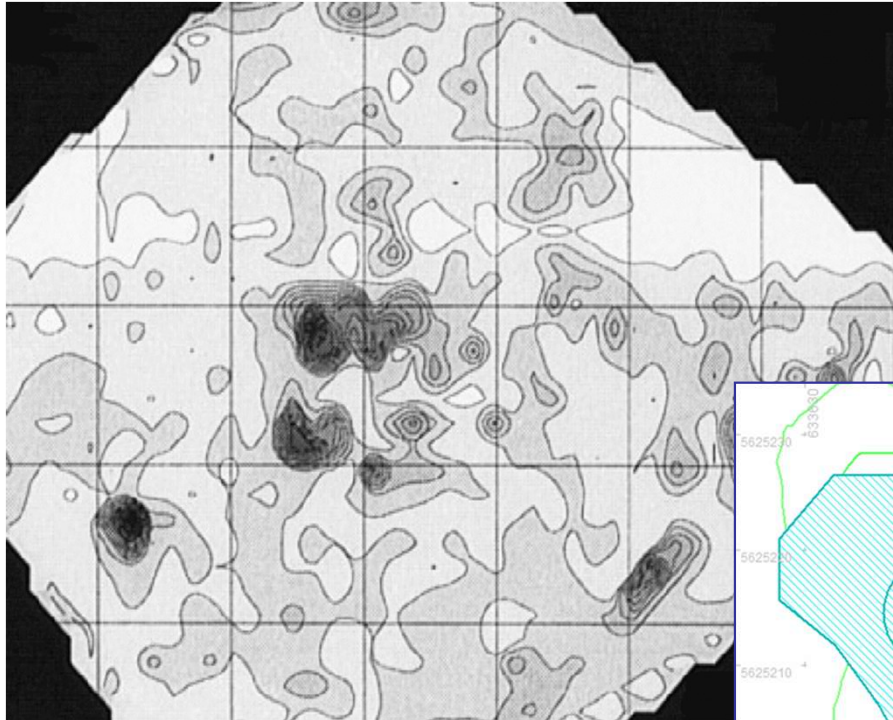


2002 Reson/ADU

2005 University of St Andrews

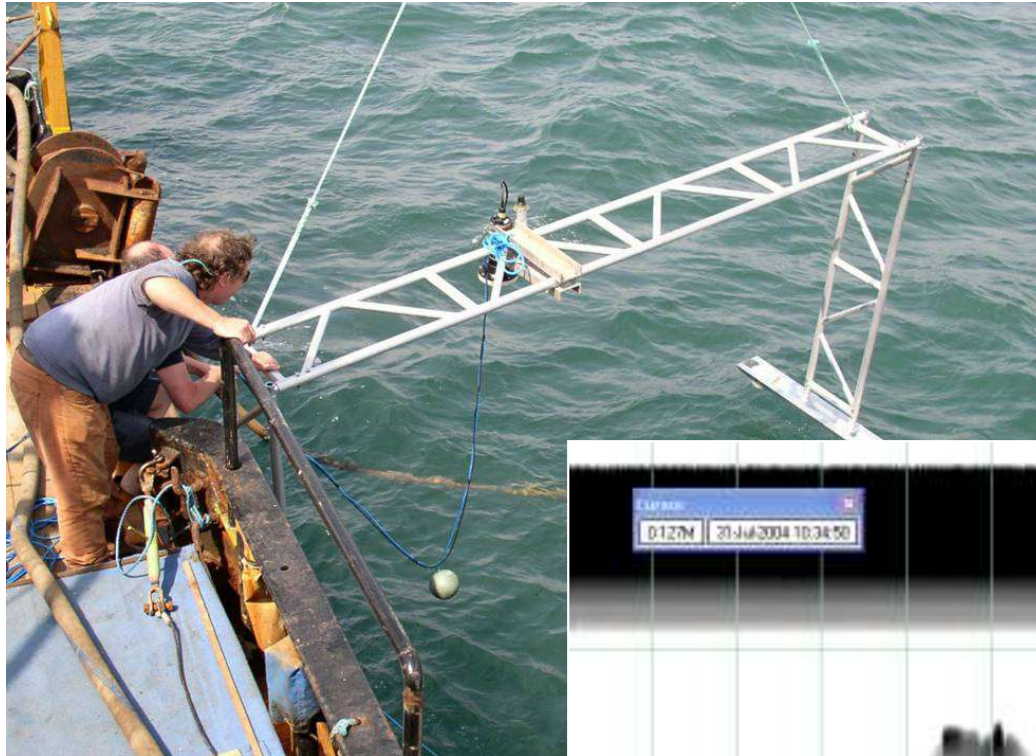


The *Mary Rose* Project - 1996 Sub-Bottom profiler survey

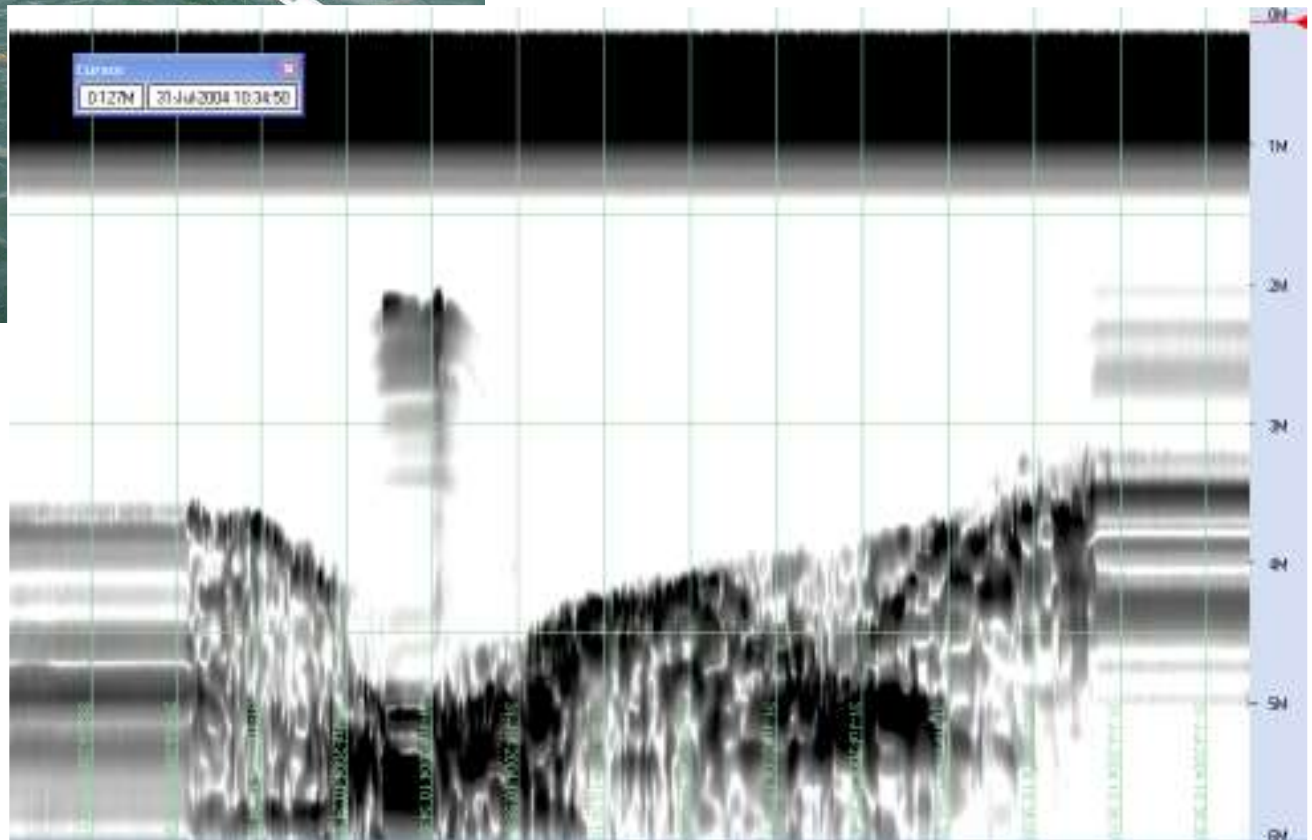


The *Mary Rose* Site - Geophysical evidence for
palaeo-scour marks
R. Quinn, J. Bull, J. Dix, J. Adams, University of
Southampton IJNA (1997) 26.13-16

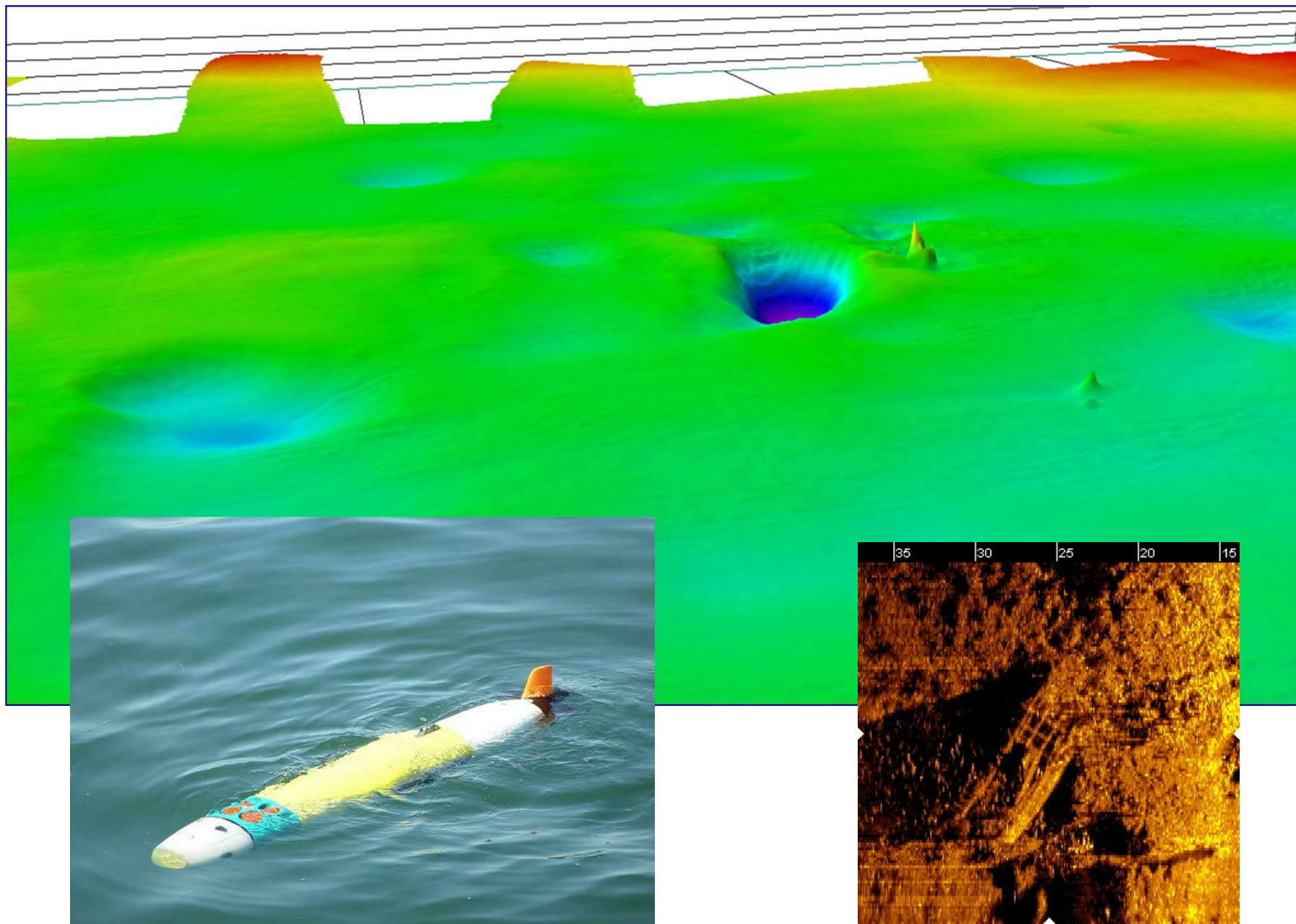
The *Mary Rose* Project - 2004 Sub-Bottom profiler



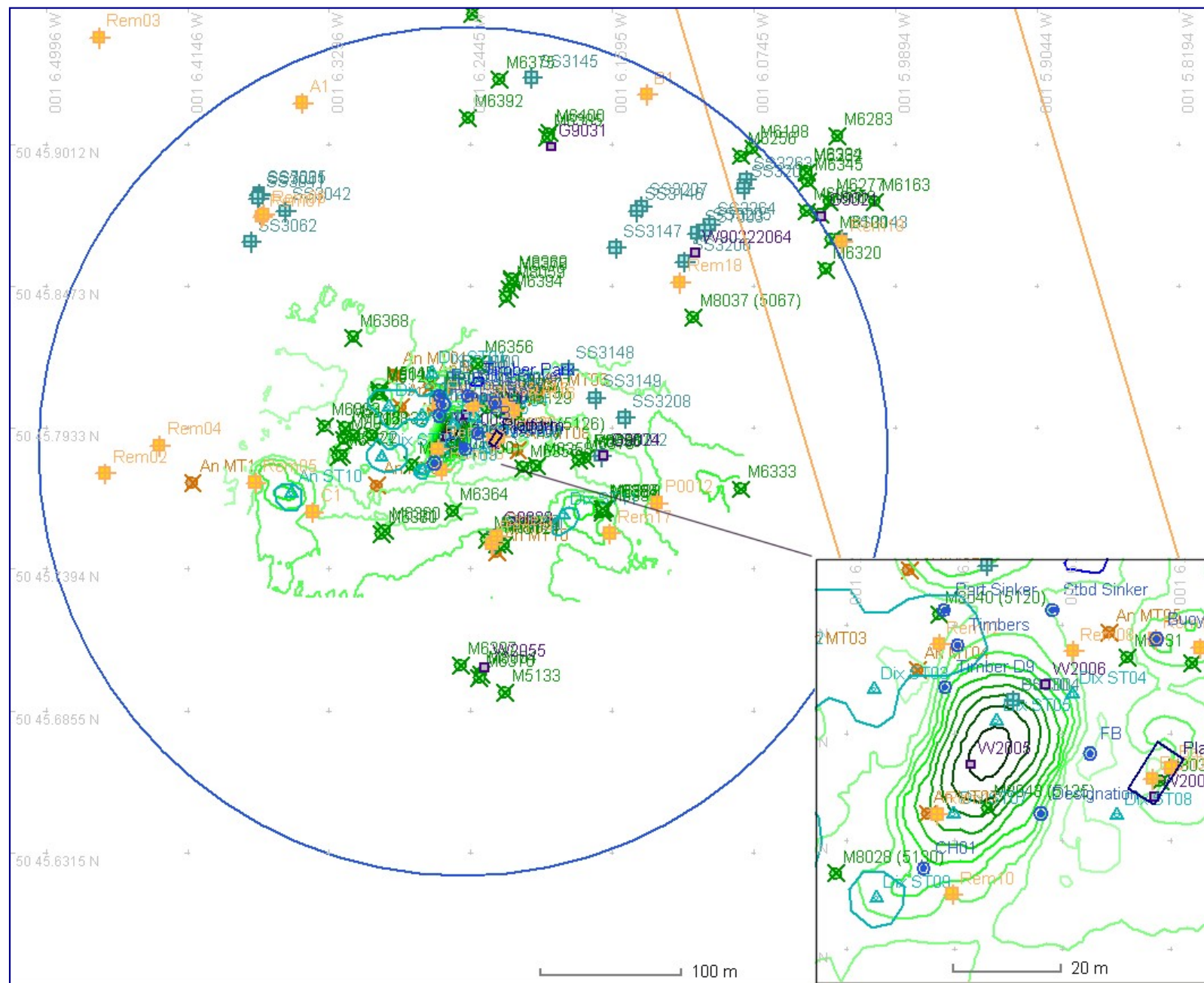
Sea King Parametric
Sub Bottom Profiler



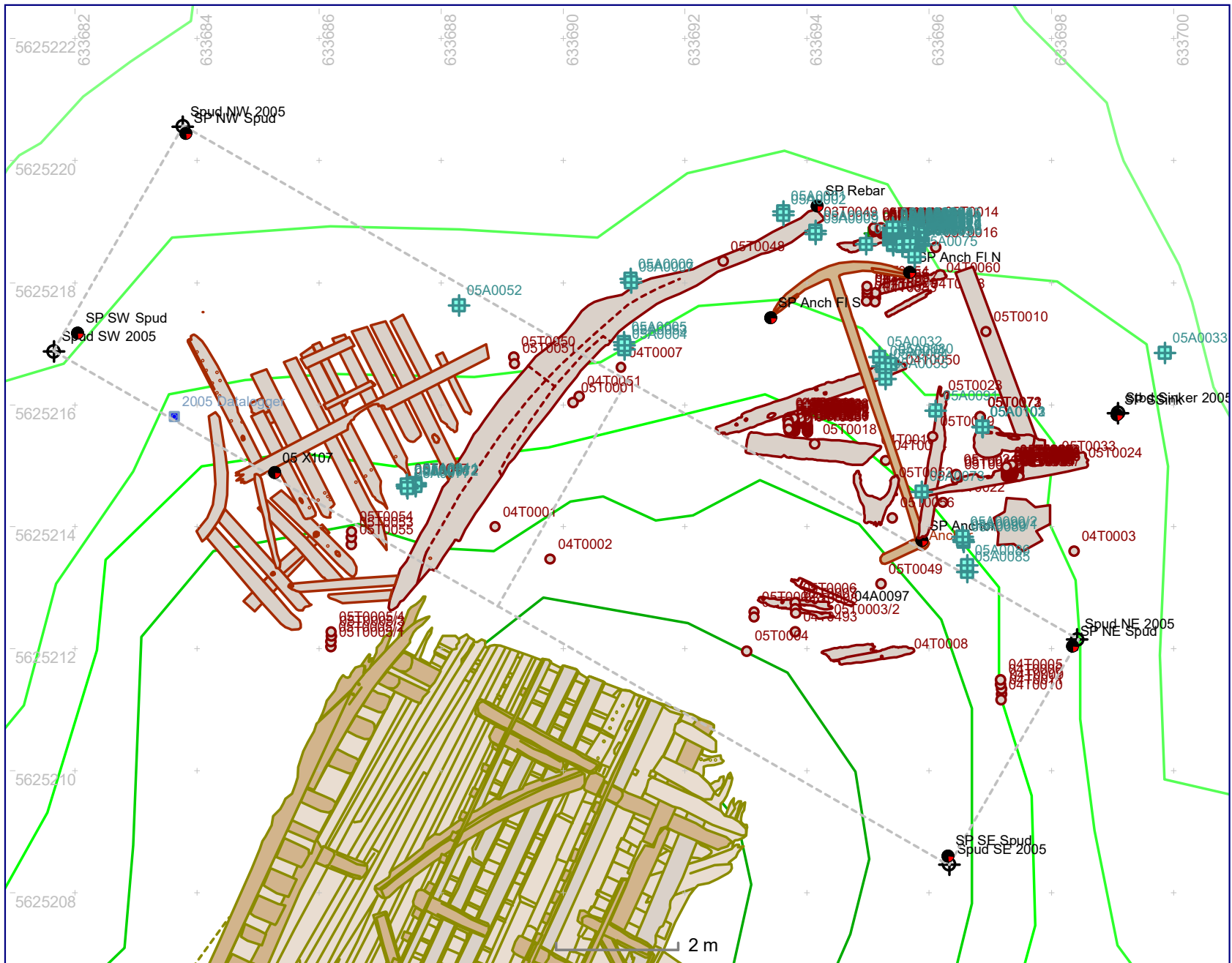
The *Mary Rose* Project - 2004 Route survey



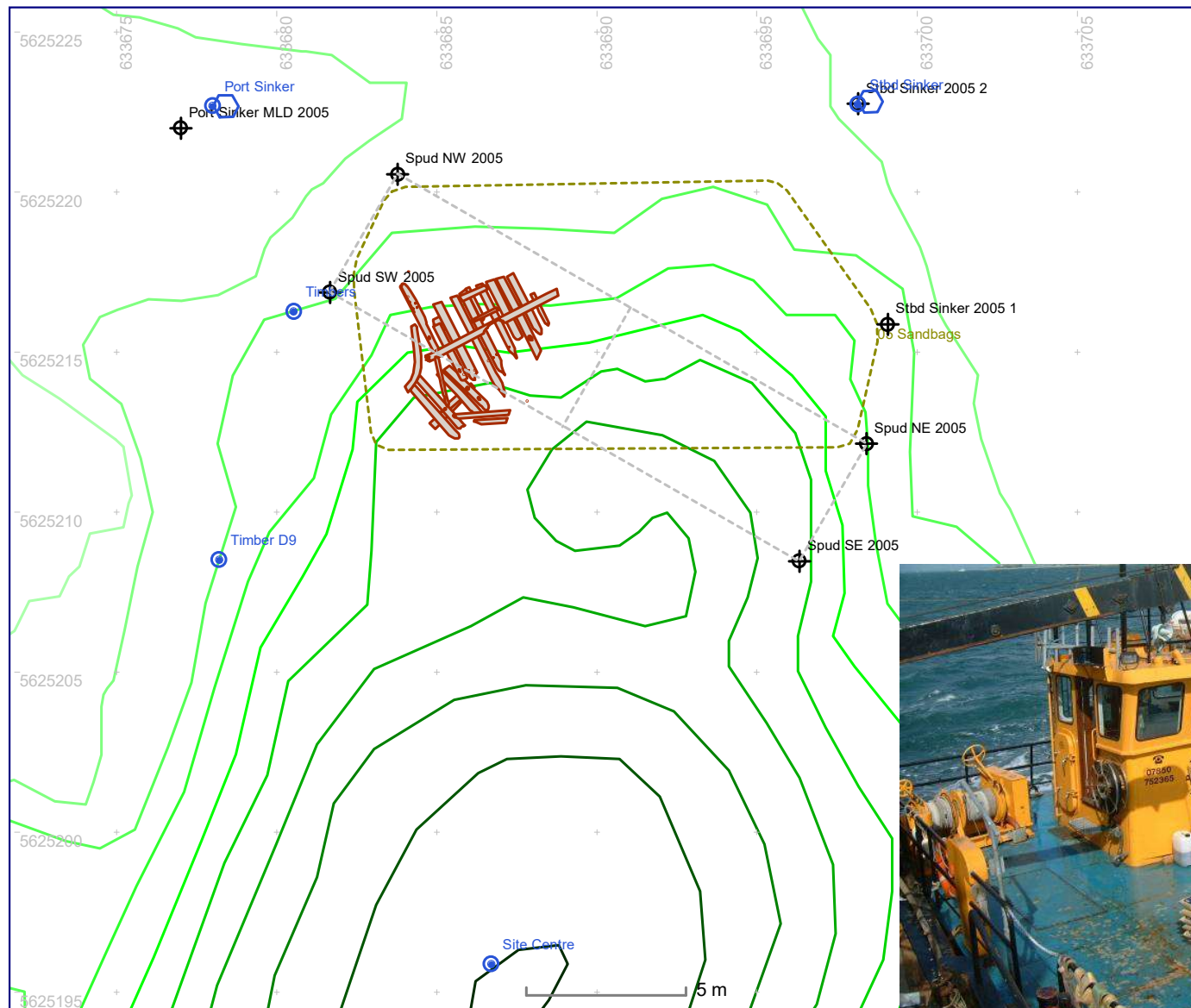
The *Mary Rose* Project - 2004 Targets in Designated area



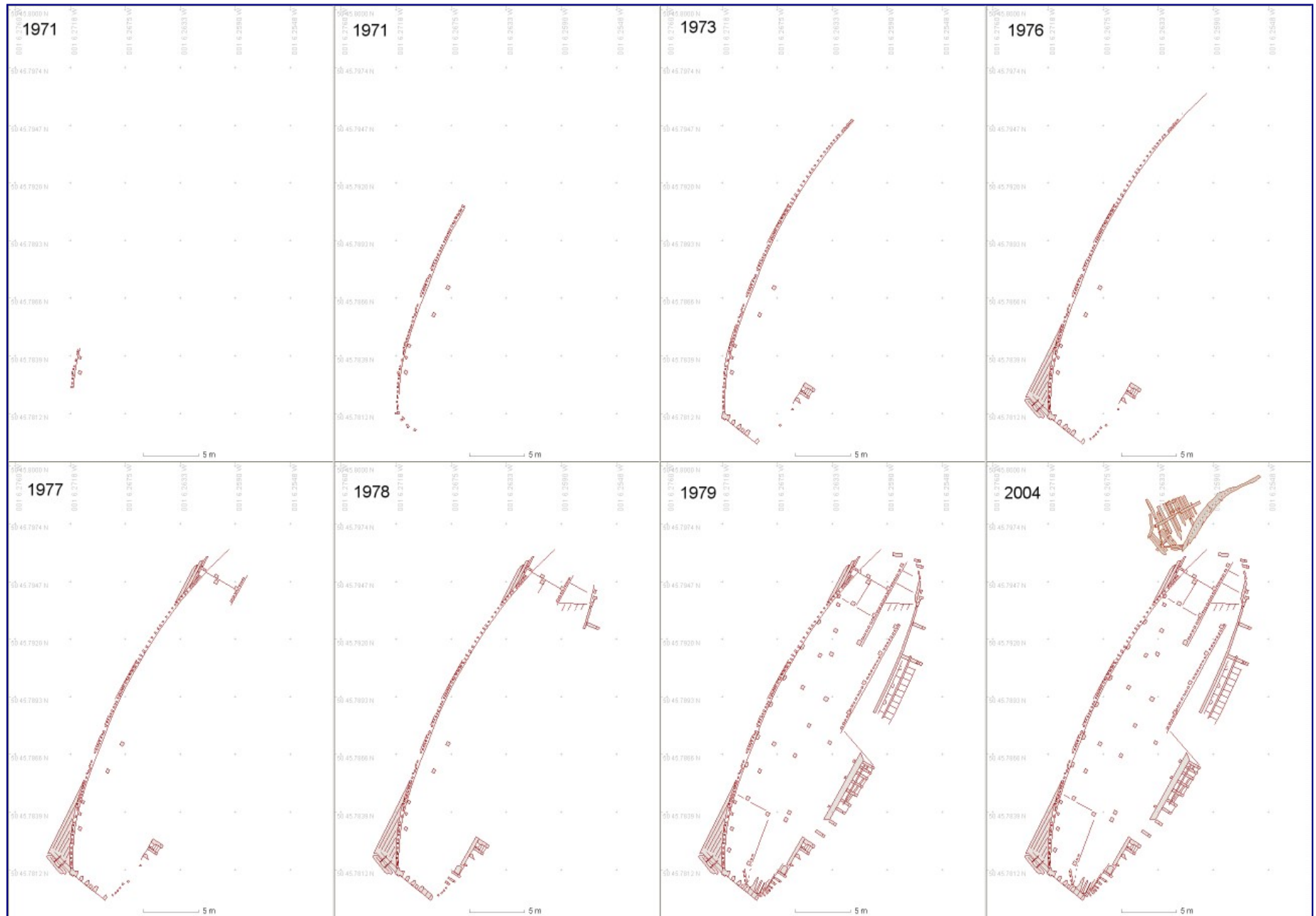
The Mary Rose Project – 2005 Site Plan



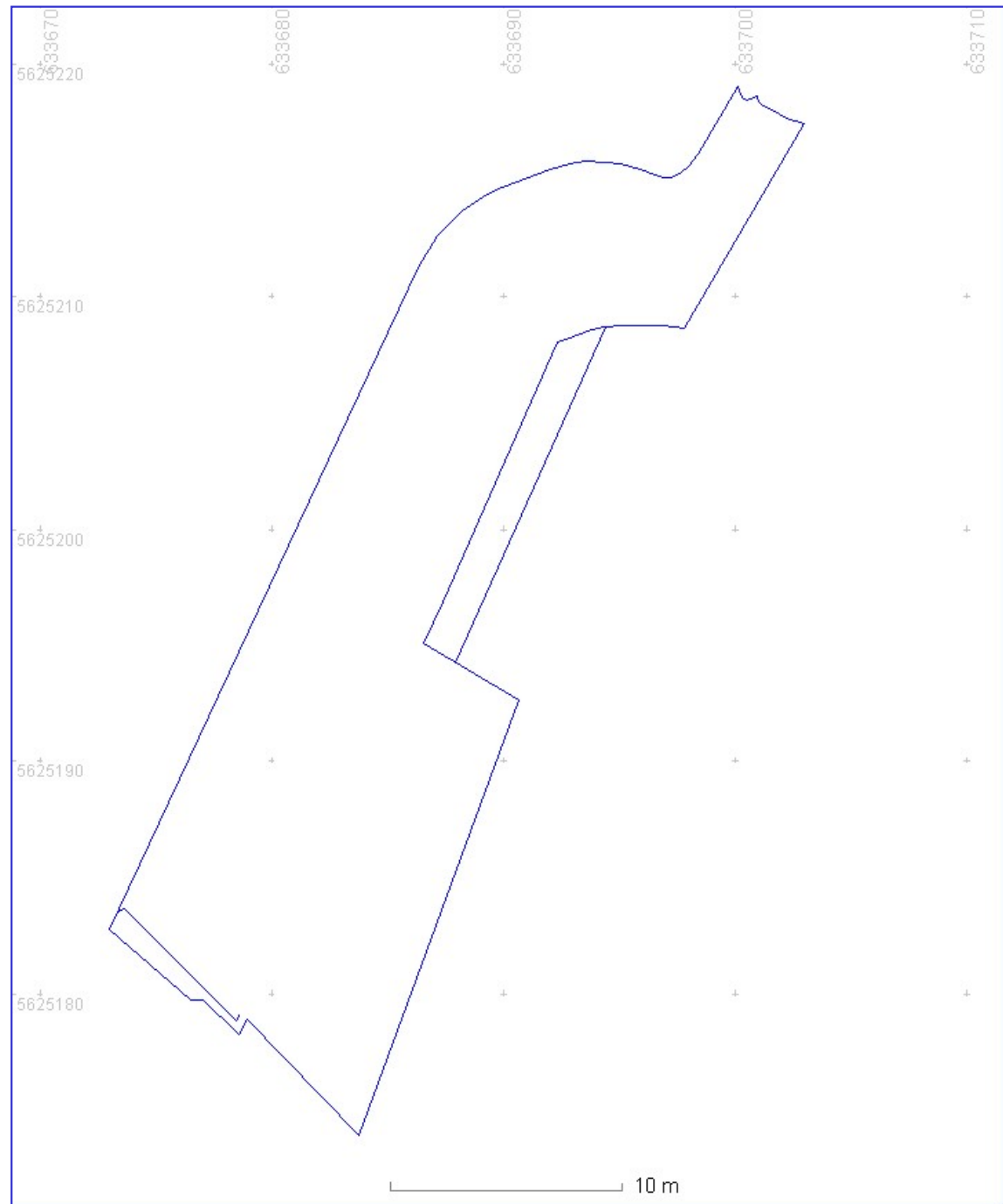
The *Mary Rose* Project – 2006 Site Plan



The *Mary Rose* Project – Further Work: Timeline



The *Mary Rose* Project Timeline



The *Mary Rose* Project GIS CD



Data from 2003-2005
excavation in a PC
computer program

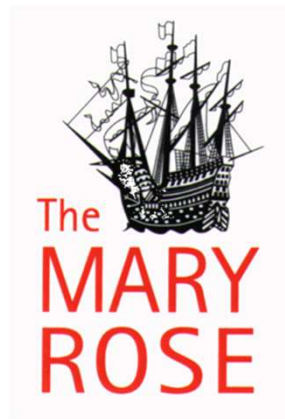
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The *Mary Rose* Project



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