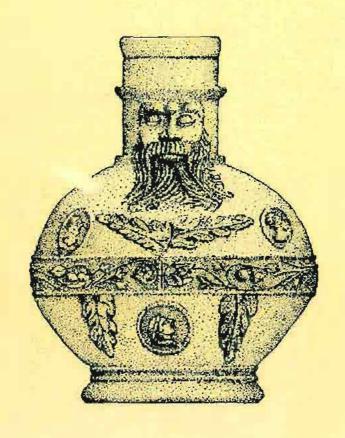
# ANCODS Catalogue



1982

# **ANCODS 1982**

**Catalogue** 

### **Myra Stanbury**

Special Publication—Department of Maritime Archaeology, Western Australian Maritime Museum, No. 4



### CONTENTS MA MENS 1 Compiler's note Maritime Archaeological Report on V.O.C. Wrecksites 2 3 Conservation Report 5 Publications BATAVIA Batavia Reconstruction: Progress Report Abrolhos Expeditions 1980-81 7 Survey of Morning Reef, Wallabi Group, Houtman Abrolhos, by: W.f. Jeffery 7 Beacon Island Excavation (Extract from report by Lea Kirkham, 1980) 10 Artefacts Recovered from the Batavia, 1980-81 13 Material previously deferred pending conservation 17 treatment VERGULDE DRAECK Vergilde Draeck excavation 1981, by Jeremy Green 19 Material raised from inspection trip, February 1981 20 Material raised from April-May 1981 expedition 21 Material previously deferred pending conservation treatment 39 ZEEWIJK Material raised from 1979 expedition 41 Material previously deferred pending conservation treatment 42 Artefacts assigned to the Netherlands, September 1979 (ANCODS N4) 43 Artefacts assigned to the Commonwealth, September 1979 (ANCODS A4) 44

46

Ammendments to 1979 Catalogue

### Compiler's Note:

This catalogue has been prepared for the meeting of the Australia/Netherlands Committee on Old Dutch Shipwrecks (ANCODS) to be held at the Naritime Museum, Cliff Street, Premantle, Western Australia, in March 1982.

It is a working document and includes new material, raised from the various Dutch wrocks since the Committe last met in September 1979, together with material previously deferred pending the completion of conservation treatment. Also includes are brief reports concerning work carried out on the wrecksites and ongoing research projects.

I would like to thank Fairlie Sawday for her work in organizing the collection of artefacts; Ian Field, for assistance in collating the catalogue; Patrick Baker and Brian Richards for photographin the drawings; and Sue Cox for typing the manuscript.

Myra Stanbury
Assistant Curator,
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FREMANTLE

February, 1982

### 1. BATAVIA

No major excavation work has been carried out on the site during the past two years, although visits have been made to the site for inspection purposes and in anticipation of being able to explore the areas around the wrecksite. In March 1980, Mr. Green dived on the site and noted that one cannon had been stripped of concretion, thereby subjecting it to corrosive deterioration. This was evidence that in the long term, cannons should not be left on the site. No other damage was reported and no further signs of interference noted when the site was visited in December 1980. A four week expedition was in progress at this time but prevailing weather conditions limited work to collections on the inside reef area.

The acquisition, by means of Commonwealth funds, of additional 'Floppy discs' for the department computer has enabled work to commence on the computerization of the Dutch wreck collection. Data relating to the Batavia photographic collection and part of the Vergulde Draeck artefact collection has already been filed and preparations are in progress for filing the Batavia coinage.

Progress continues with the reconstruction of the vessel (see later report) and further funding for the project has been supplied by the A.R.G.C.

#### VERGULDE DRAECK

In Pebruary 1981, it became apparent that the wrecksite was being actively interfered with. An inspection dive confirmed this, revealing newly excavated areas and broken artefacts. After consideration of a number of possible options, it was decided to launch an immediate excavation, to secure material still on the site. The re-allocation of a Commonwealth grant made this possible and will assist in future work to be carried out in 1982. It is probable, however, that another season's work in 1983 will be needed to completely excavate the site (see later report).

#### ZEEWIJK

The fourth and final season of work on this site funded by the A.R.G.C. was carried out in December 1979. No further work on this site is presently planned as there is a considerable backlog of recording and research to be carried out on the collection in hand.

### ZUYTDORP

Active work on this site continues to be restricted by difficult conditions, both of an operational and climatic nature. In October 1980, the watchkeeper's campsite was vandalized and destroyed by fire, resulting in a considerable loss of equipment. In view of the salvage nature of the work and the high costs involved in maintaining a permanent watchkeeper, an alternative program of surveillance was devised and approved by the Department of Home Affairs. Surveillance is now jointly maintained by Museum staff and an homorary parttime warden who is an abalone diver in the area.

#### CONSERVACION REPORT

### Current Treatment Methods being used on Dutch Wreck Material:

### 1. Iron:

All remaining iron from these wrecks is in the form of either cast iron cannons or cast iron cannonballs.

All cannons are currently undergoing electrolysis in 2% sodium hydroxide solution. Based on previous experience with other cannons from these wrecks, it is expected to be another 2 to 3 years before treatment is completed.

The cannonballs are being treated in hydrogen atmosphere at 400°C followed by washing in 25 sodium hydroxide to remove the residual chlomides. A new and larger hydrogen furnace has just been constructed and it is hoped to have cannonball treatment completed within 12 months.

### 2. Silver:

The remaining solver coins were being treated by the following method:

- (i) deconcretion in dilute HCl followed by mechanical deconcretion where necessary;
- (iii) consolidation and reduction of corrosion products to metallic silver using alkaline sodium dthionite solution;
- (iii) mechanical polishing using a modified tumbling machine.

Cood progress is being made to treat the backlog of accumulated coins but it will still be some time before this is completed.

### Wood:

All wooden artefacts were soaked in polyethylene glycol 1500 solutions with concentration gradually raised to 60% over a period of not less than 2 years. One of the problems associated with PEG impregration is that it imparts a dark waxy appearance of the treated wood. This problem has been overcome by dipping the PEG - soaked wood into a solution of warm water, followed by warm water, followed by warm EDTA (4%) + Oxalic acid (5%) mixture and finally 10 volume hydrogen peroxide, prior to drying.

The treated wooden artefacts were dried in a specially designed freezedryer.

### 4. Ropes:

All rope or related material were carefully cleaned using regulated vacuum suction water pump.

Ropes were impregnated with 6% polyvinylpyrro-lidone with 0.005% panacide. They were freeze-dried.

The freeze-dried ropes may be re-arranged by placing them in an environment with a relative humidity greater than 75%.

### Leather:

These are in storage at the moment. Cleaning of leather artefacts has been

initiated a few months ago. Chemical treatment and drying will be taking place shortly.

### Neil North & James Panq

### PUBLICATIONS:

GREEN, J.N.	1980	'The armament from the Batavia.  1. Two composite guns'.  Intermational Journal of Hautical Archaeology, 9.1:43-51
GREEN, J.N.	1980	'Gateway from the past' The London Illustrated News, No. 6985, Vol.268
GREEN, J.N.	1981	'De poort van Batavia', Spiegel Historiael, 16.3:163-171
GREEN, J.N.	1981	'The lost Gatoway', Hemisphere, 26.1
PANG, J.T.T.	1982	'The design of a freeze-drying system used in the conservation of waterlogged materials', International Journal of Mautical Archaeology,
		11.1:

### BATAVIA RECONSTRUCTION : PROGRESS REPORT

In December 1980, Paul Hundley was appointed as a Research Officer to assist with the reconstruction of the <u>Batavia</u> timbers. Mr. Hundley was formerly a Research Assistant at Texas A & M University, Texas, U.S.A. where the gained experience in ship reconstruction under the direction of Richard Staffy.

During 1981, one of the main tasks was to produce accurate photographs and full size tracings of each piece of timber as it came out of the conservation laboratory. A 5m steel gibbet was constructed to act as a vertical camera mount, enabling perfectly horizontal photographs to be taken of treated timbers. Another steel tripod wall mount, extending from the Batavia Gallery wall, allowed timber tracings up to 5m long to be photographed with a 5" x 4" format Toya View Camera with FS. 6-150mm lens. The tracings were produced by placing each piece of timber underneath a specially designed glass light box. Cutlines and details of the timbers could then be transferred to clear acetate drafting film.

The information gathered from the timbers was then transferred to a 1:10 scale model which will be assembled to produce an exact replica of the Batavia hull section. This model will be essential in predicting the final size and shape of the Batavia timber display.

In consultation with Museum staff, engineers of the Public Works Department are in the process of designing the steel supporting structure, but as yet, plans have not been finalized. An overhead gantry, however, has been constructed in the Batavia Gallery to facilitate the lifting and movement of timbers.

The most important timber from the <u>Batavia</u> to be conserved thus far, is the fashion piece. This I ton timber, hewn from a single tree trunk is the keystone around which the remaining planking and frames will be positioned. To facilitate safe storage and mobility, the fashion piece has been sandwiched between steel templates. In addition to this timber, a number of transom beams and stern knees have completed the conservation process.

The timbers from the 1973 excavation which constitute the foremost section of hull remains has been reassembled in the Batavia Gallery. This portion of the Batavia will be used to test various methods of supporting and fastening the timbers.

Timbers from the 1975 excavation are in the final stages of dehumidification but cannot be removed from the chamber yet awhile owing to problems with the airconditioning units in the Gallery. As soon as they can safely be transferred, the remaining frames and planking will start the dehumidification process, leaving one final batch of timber to be conserved. This should be completed sometime in 1983.

### ABROTHOS EXPEDITIONS 1980-81

During November-December 1980, staff of the Maritime Archaeology Department accompanied the students of the Postgraduate Diploma Course, on a field expedition to the Wallabi Group of the Houtman Abrolhos.

Based on Beacon Island, the students undertook a number of different projects under staff supervision. Those relevant to the Batavia were a survey of Morning Reef (W.F. Jeffery, 1981 - see attached); a swimline search of the inside reef area; a small trench excavation on Beacon Island (L. Kirkman, 1980 - see attached extract) and, a re-examination of the stone structures on West Wallabi.

Due to unfavourable weather conditions, diving on the main <u>Batavia</u> site was virtually impossible. Thus, no substantial work could be attempted. Most of the artefacts from this expedition, therefore, were recovered from the inside reef area and the land site at Beacon Island.

A few artefacts were raised from the main site in September 1981 by a team from the Maritime Archaeological Association of W.A. these being loose surface finds. A small quantity of material was also recovered at this time from the inside reef.

### Survey of Morning Reef, Wallabi Group, Houtman Abrolhos

by: W.F. Jeffery

### Introduction:

Morning Reef is part of the Wallabi Group of the Houtman Abrolhos, situated off the coast of Western Australia, 85 kilometres north-west of Geraldton. "The reefs and islands are in fact the southern rost coral islands of the Indian Ocean" (Drake-Brockman and Drok, 1963). Morning Reef covers an area approximately 5km and consists of dead and live coral and limestone shallows of 1-2 metres with a honey combed arrangement of deep water holes to 20 metres.

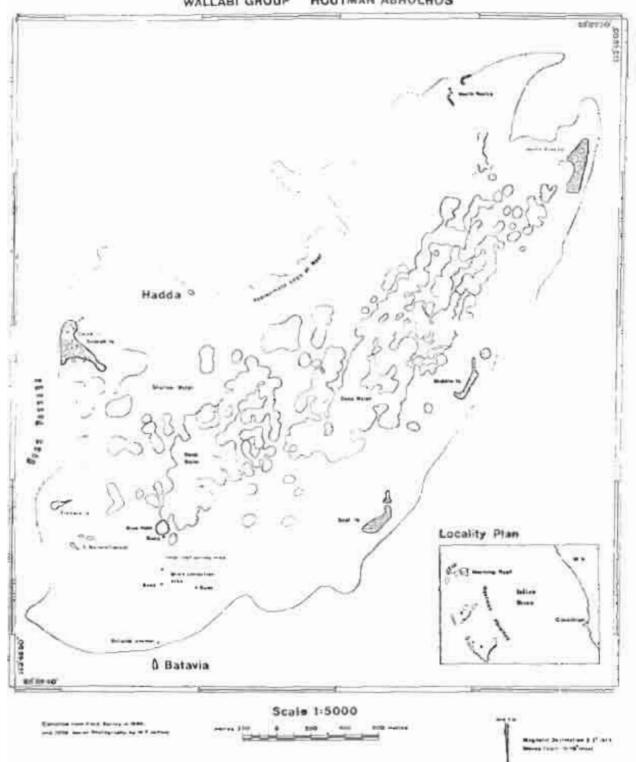
The reef is the location for two wrecks; the Batavia (1629) (Green, 1975) and the Hadda (1877) (Spooner & Vickery, 1981), which provided the work for the projects associated with the Maritime Archaeology Graduate Diploma Course. Associated with these projects were a number of service type projects, such as a survey of the reef area; the accurate positioning of the wrecks and associated work and the production of a large scale map showing this information. Small scale maps of the Wallabi Group and large scale plans of the wrecks existed but there did not exist an accurate large scale map of the Morning Reef area. The whole area is significant in the events that occurred at the time of the Batavia wrecking and to a lesser degree during the wrecking of the Hadda.

### Survey of Morning Reaf

In December 1980 the survey of Morning Reef was carried out so as to produce an accurate map at a scale large enough to enable wrecksites and any other work to be marked onto it. The majority of the reef is always under 1-2 metres of water but 6 islands and a few large rocks rise to approximately 5-6 metres above low water (Beacon Island). "The tidal range is negligible, being diurnal with a mean range of about lm" (Green, 1975).

The surveying equipment consisted of a 20 second direct reading theodolite, staff, compass, sextants and tapes. A small scale chart of the area helped to plan the

# MORNING REEF WALLABI GROUP HOUTMAN ABBOLHOS



survey and later on a large scale a photomosaid helped even more. We started the survey work by mirking 3 stations on the extremities of Beacon Island and placing coirns on all of the islands we wished to map together with cone poles, topped with flags. From the 3 stations on Beacon Island, horizontal angles were taken to the other islands, using the Cairn (Monument) on Beacon Island as the datum.

The small base lines used to triangulate to the other islands seant errors were insultable in their positions. One of the islands (Seal) checked reasonably well and this was used to triangulate to the other islands and fix their positions more accurately. As other islands became more accurately positioned they were used to set up a network of triangulation. We, therefore, started from small base line triangles moring to the larger base lines (Island to island) as their positions became accurate. The larger base line triangulation positioned the island to an accuracy of 1:200.

Once we obtained this relative accurate positioning of the islands, a detailed stadia survey commenced on each island so as to give the low water shape of each island. Other projects were well underway and their marker buoys were fixed. Some difficulties were encountered in fixing these buoys especially on the Batawia site where the marker buoys were difficult to distinguish in the white water. A further check on these positions was made using sextants.

The information from the survey was plotted and checked for accuracy and consistency

During the compilation of the map from the theodolite and sextant angles, the reef information that could not be surveyed by these methods, was transferred from the small scale chart to the compilation map. The compilation map was drawn up at 1-500 scale and the reef information was very approximate but more detail was taken from an aerial mosaic which was at much the same scale as the map.

The final map is shown in Fig.4., the accuracy of the method used during the expedition was around 1:200.

#### References:

DRAKE-BROCKMAN, H AND DROK, E.D.	1963	Voyage to Disaster, Syaney
GREEN, J.N.	1975	'The V.O.C. ship Batavia wrecked in 1629 on the Houtman Abrolhos, Western Australia'. International Journal Hautical Archaeology. 4.::43-63
SPOONER, I., AND VICKERY, L.,	1981	'A report on the 1980 excavation of the Hadda site in the Houtman Abrolhos' Bulletin, Australian Institute Maritime Arahasology Bulletin

### DEACON ISLAND EXCAVATION (Extract from report by Lea Kirkham, 1980)

### TRENCH NO. 2

On December 14, 15 and 16 of 1980 an area designated Trench No.2, was excavated in the centre of Beacon Island. This trench consisted of six im square grids (numbered 7 - 12). This area was selected in order to extend the area excavated in 1974. The area to be excavated was under a dense growth of shrubs, in soil approximately 30cms deep. The natural stratigraphy of the area consisted of a layer of loose white sand and humus, a layer of brown, compact sand mixed with guano, and a sterile underlying layer of coral debris and sandfill. These natural layers are constantly disturbed by burrowing mutton birds (Puffinus pacificus). These layers were additionally disrupted during the clearing of the covering shrubs. For these reasons the site was not excavated according to the natural stratigraphy but in arbitrary levels. Almost all artefacts were to be found in the layer of brown, compact sand, several centimetres above the coral rubble.

#### ARTEFACTS

Below is a discussion of the sections of artefacts excavated from the Beacon Island site. Excluded from this discussion are severely corroded fragments from which little relevant information can be divulged. Also excluded are those arimal finds that cannot be conclusively assessed as remains left by Batavia survivors.

#### FERROUS

Most of the iron artefacts consisted of handmade nails and tacks or fragments of these, several of the large nails were complete and were bent so that they resembled a 'J' in shape. Other iron objects consisted of barrel hoop fragments and a fitting possibly from a chest. One fragment was unusual in that it had a rim along one side, the fragment was possibly part of a dish or bowl.

### WON-PERROUS

A variety of non-ferrous artefacts were excavated, these consisted almost entirely of copper or copper alloy objects, examples of these are, an ornate fitting cast from brass, there is a broken pin at the back, which would have fastened it to the hinge of a book, possibly a bible. A small brass hall, 2cm long, was found to be in almost perfect condition still retaining the marks obtained during it's manufacture. A small fragmented box was formed out of copper sheeting, probably by one of the survivors.

A lead square measuring 16 x 17mm was found, this thin, flat square of lead was probably used as a weight in measuring small quantities on a balancing scale.

Another brass object was a shoulder strap hook, used on the shoulder straps of sword scabbards. It was cast in two sections, the separate back piece joined at the neck of the object and at the bottom by a brass pin. Possibly worn by one of the soldiers.

### CERANICS

All ceramic artefacts consisted of shards from majolica drug jars or albarellos. Wheelmade, white glazed with the blue and yellow brushed design that was common of the time, one fragment was part of the neck of such a jar and shows the shape of the unglazed rim. Originally the jar would have had a parchment cover fastened with string.

### GLASS

Two types of glass fragments were found, these consisted of a clear, uncoloured glass and several fragments of thin dark green glass from a case bottle. All fragments are very heavily patinated.

### BONE

Although many fish and mammal bones were excavated from the site, few can be related to the Dutch survivors, these are bones that have been charred or exhibit butchering marks, such as a large mammal bone that has been almost cut through and then broken. Another type of bone artefact was a small round bead.

### TITHIC

The only lithic artefact found was a small piece of black flint or chart. Probably a gun flint.

### PAPER

A very small, thin, fragile fragment of white paper.

### APPENDIX

Reg.No.	Description	Locai	tion
1149	gun flint	grid	7
20427	2 majolica shards	grid	7
00323	chest fitting?	grid	7
80326	8 iron fragments	grid	7.
3852	brass nail	grid	7
3848	book clasp?	grid	В
3849	copper box	grid	8
3850	non-ferrous fragment	grid	B
3847	square buckle	grid	8
4589	paper fragment	grid	8
4590	bone bead	grid	8
4594	2 case bottle fragments	griđ	8
HG321	3 barrel hoop fragments	grid	8
3846	patch box fragment	grid	8
3845	bronze object	grid	8
20426	3 majolica shards	grid	8
3851	non-Ferrous fragments	grid	8
4595	glass fragment	grid	8
80325	7 iron fragments	grid	8
20445	2 majolica shards	grid	9
3853	lead square	grid	9
4597	2 case bottle fragments	grid	9
80331	5 iron fragments	grid	9
20428	1 majolica shard	grid	10
4596	2 glass fragments	grīd	1.0
80327	5 iron fragments	grid	10
80328	6 nail fragments	grid	10
20389	14 majolica shards	dump	lat
80322	11 nail and tack fragments	dunp	lot
4591	fish bones	dump	Int
4592	manunal bones	dump	lot
4593	oyster shell	dump	Lot
4593	sea urchin spine	dump	tot

### ARTEPACTS RECOVERED FROM THE SATAVIA, 1930-81

#### 1. STONE

### 1.0 Suilding blocks

BAT 1146 Building block, small piece of

### i.1 Slate

BAT 1150 Slate, fragment of BAT 1153 Slate, piece of

### 1.2 Com1

BAT 1147 Coal, pieces of (2) BAT 1152 Coal, pieces of

### 1.5 Flint

BAT 1149 \* Gunflint

### 1.7 Unspecified

BAT 1151 Stone, unidentified

### CERAMICS

#### 2.1 Stoneware

A variety of Rheinish stoneware sherds including Seighurg ware, Westerwald ware, Frechen and Cologne ware, were raised from the inside reef area. Many of these sherds fit with partially restored vessels in the collection. A few fragments of Their ceramic ware were also recovered and several black glaze stoneware sherds.

### 2.2 Earthenware

Approximately 61 sherds were recovered from the inside reel area.

### 2.3 Majolica

Approximately 36 sherds were recovered from the inside ree; area comprising of eintment jar bases, plate fragments and other miscellaneous sherds.

### 2.5 Bricks

BAT 1148 Brick, piece of BAT 20496 Ballast bricks (25)

### 2.9 Porcelain

BAT 20367 Chinese, blue/white sherd

## NON PERROUS

### 3.1 Bronze

BAT	3859	Bronze	door	pintle
BAT	3860	Bronze	door	pintle
BAT	3861	Bronze	door	pintle

### 3.2 BRASS

BAT 3843	Belt slide
BAT 3845*	Shoulder belt pendant
BAT 3346 *	Patch box, fragment of
BAT 3847 *	Buckle, square, 24mm x 24mm
BAT 3848 *	Ornate fitting (probably from belt or book)
BAT 3863	Wire - 2 strand, twisted, circling 3 pieces
	of rope (BAT 4424)
BAT 3864	Candlestick

### 3.2 Copper

BAT 3849 *	Pragmented object, possibly dish made
	from copper sheet.
BAT 3851 *	Copper fragments
BAT 3852 *	Handmade nail - 2cm
BAT 3866	Copper fragments
BAT 3867	Copper fragments and 3 bullet shells.

### 3.3. Pewter

BAT	3841	Jar or vase, part of
BAT	3850 *	Bottle cap(?), fragment of
BAT	3865	Pragments (3)

### 3,4 Lead

BAT	3842)	Pragments
BAT	3854)	raquenta
BAT	3844	Nusket ball (1)
BAT	3855	Musket balls (2)
BAT	3856	Musket balls (2) and 1 fragment
BAT	3857	Musket balls (7)
BAT	3858	Wired musket balls (11)
BAT	3853*	Lead square 16mm x 17mm
BAT	3862	Lead tubing 57cm x 9cm

### 4. MISCELLANEOUS

### 4.1 Animal

BAT	4590*	Bone bead
BAT	4591*	Fish bones (2)
BAT	4592*	Mammal bones (39) + small fragment (possibly engraved with letters WM)
BAT	4600	Base of seal skull (1)
BAT	4601	Animal bones
BAT	4603	Seal bones
BAT	4605	Animal bones

```
4.1
       Animal cont.
                          Animal bones
       BAT 4606 *
                           Vertebrae
       BAT 4611
                          Bone frags.
       BAT 4612
4.2
       Fruits, seeds etc.
                          Date seed (1)
       BAT 4514
4.4.
       Class
       BAT 4588
                          Bead
       BAT 4587 )
       BAT 4594 ) *
       BAT 4595 ) *
       BAT 4596 ) *
                          Case bottle fragments
       BAT 4597 ) "
       BAT 4507 )
       BAT 4608 )
       BAT 4609 )
       BAT 4610
                          Dark bottle fragments
4.6
       Rope/Leather
       BAT 4586
                          Rope samples (3)
       BAT 4598
                          Leather breast plate fragments
4.8
       Marine
       BAT 4593 *
                          Oyster shell (1) and sea urchin spine (1)
       BAT 4502 *
                          Mixed shells
       BAT 4504 *
                          Shells (3)
       BAT 4613
                          Shells
4.9
       Miscellaneous
       BAT 4589 *
                          Paper, fragment of
5.
       COINS
5.1
       Silver
       BAT 50502
                          Thaler
       BAT 50603
                          Thaler - Brunswick
       BAT 50604
                          Thaler - Danish
       BAT 50605
                          Unidentified fragments (6)
       BAT 50606
                          Unidentified fragments (2)
       BAT 50697
                          Thaler (Perdinand) fragment (1)
       BAT 50608
                          Rijks Dollar (1625?) West Friesland
       BAT 50509
                          Rijks Dollar - West Friesland
       BAT 50610
                          Rijks Dollar (1624) Zeeland
       BAT 50611
                          Imperial Thaler (Ferdinand II)
       BAT 50612
                          Imperial Thaler
       BAT 50613
                          Imperial Thaler
```

Unidentified

BAT 50514

### 5.1 Silver continued BAT 50616 Unidentified fragments (4) BAT 50617 BAT 50518 Unidentified coins (2) Eroded - unidentified 6. TIMBER 6.7 Miscellaneous BAT 4599 Charcoal BAT 6466 Wood fragment FERROUS 8. 8.1 Armament BAT 80312 Cannon ball (1) BAT 80330 Cannon ball fragments BAT 80332 Cannon ball fragments B. 2 Ship's Fittings Bolts (2) BAT 80313 Bolts, concreted (2) BAT 80314 Nail (1) BAT 80319 Nail (1) Nails and tacks, fragments of (11) BAT 80322 + BAT 80324 BAT 80325 + Fragments (7) BAT 80326 \* Nails, large (2), fragments Nails (2) fragments BAT 80328 \* BAT 80331 Nails, large (1) small (1) and fragments BAT 80335 Mail and fragments 8.4 Cargo

BAT 80318 Concretion of barrel hoop (?)
BAT 80320 Concretion of barrel hoop
BAT 80321 Fragments of barrel hoop
BAT 80323 Fitting, possibly from chest

BAT 80315; 80313; 80317; 80327; 80329; 80333; 80334.

<sup>\*</sup> Beacon Island Landsite

### BATAVIA

### Material previously deferred pending conservation treatment

The following items are now available for consideration:

```
    NON-FERROUS
```

### 3.1 Bronze

BAT 3826 ) Door pintles

BAT 3834 )

BAT 3794 )

### 3.2 Brass

BAT 3840 Dividers

### 4. MISCELLANEOUS

### 4.2 Fruit seeds

BAT 4076

### 4.6 Rope, leather etc.

BAT 4039	Rope with loop and slicing
BAT 4047	Fragments of rope
BAT 4072	Fragments of rope
BAT 4087	Rope/string (with reed)
BAT 4168	Fragments of rope
BAT 4244	Fragments of rope
BAT 4399	Large quantity of rope
BAT 4424	Rope - 3 types, 1.5cm diam, D.3cm diam & massed
BAT 4451	Pragments of rope
BAT 4458	Fragments of rope
BAT 4466	Fragments of rope
BAT 4569	Fragments of rope
BAT 4579	Fragments of rope
BAT 4574	Wadding from behind charge in bore of cannon No.2 (BAT 8721)
BAT 4575	Wadding from before charge in bore of cannon No.2.
BAT 4123	Horse hair from between timbers

### 4.7 FABRIC

BAT 4027	Wick from brass oil lamp (BAT 3079)
BAT 4460	Coarse canvas
BAT 1131A	Fabric from patch box (BAT 3131)
BAT 8410	Knitted fabric
BAT 4447	Knitted Eabric
BAT 4572	Cloth from around wooden plug found inside cannon 2

### 6. TIMBER

### 5.2 Armament

Tarana wasaay	
BAT 6384	Mooden canister - approx. one quarter in 12 fragments
BAT 4571	Wooden plug from cannon No. 2. (BAT 8721)
BAT 6465	Wooden plug from cannon ball
BAT 8534	Wooden cup from grenade
BAT 6383	Wooden handle, rod-shaped, possibly part of ramrod.

```
6.3 Cargo
     BAT 6383 )
     BAT 6385 )
                 Barrel Staves
     BAT 6443 1
     BAY 4399 1
5.4 Pittings
    BAT 4088
                  Single pulley block
                  Pulley block
     HAT 4361
                  Pulley block
     BAT 4404
     BAT 3593
                  Unidentified object
     BAT 4113
                 Piece of wood peg, 11cm long
     BAT 4167
                  Wooden wedge
     BAT 6464
                  Dowels (used for experiments)
6.5 Tools
     BAT 4040
                 Wooden handle with square bore
     BAT 4082
                  Piece of wooden handle
     BAT 4083
                  Wooden handle
                  Wooden handle (part of)
     BAT 4224
    BAT 4425
                  Wooden handle with graduation marks
5.6 Bark, cork
     BAT 6282
                  Small piece of back
     BAT 6467A & B Corks
5.7 Miscellaneous
     BAT 6281
                  Drum stick
     BAT 6446
                  Wooden bowl
     BAT 6463
                  Cotton reel
     BAT 4032
                  Button
     BAT 4005
                  Good fragment
8.
    FERROUS
8.1 Armament
     BAT 8404 )
     BAT 8475 )
     BAT 8484 )
     BAT 8495 )
                  Bomb shot
     BAT 8497 )
     BAT 8501
     BAT 8513 }
     BAT 8524 )
     BAT 8570 ]
    BAT 8585 1
    Cannon Balls x 48
```

### Vergulde Drasck excavation 1981

### by: Jeremy Green

During early 1981, a brief excavation of the Varguide Drosck wrecksite was carried out. This excavation was intended to investigate areas not looked at during the 1971-72 excavation (see Green, 1973 and 1977). The department's 13m steel workboat Hauristia was used as a work plaiform, together with a fast 6m aluminium craft. Overnight accommodation was in a rented expedition house at Ledge Point.

Once the facilities were established, a watchkeeper was based at Ledge Point. He phoned through at first light if the weather conditions were suitable for diving. If this was the case, a Toyota hand Cruiser was used to collect each team member early in the marning and the team then drove to Ledge Point. There, the 6m craft was collected from base and launched, with food, cameras, fuel and excavation equipment. This equipment was then off loaded onto \*Menrietta\* which was anchored on a mooring (there being no jetty at Ledge Point). The team proceeded to the site towing the aluminium boat. Usually, we could be diving on the site by 0900 hours.

A permanent mooring was set up on the site and the work boat was moored about 60m out from the site. The fast aluminium boat was taken for emergencies, or for ferrying staff or working on the inside of the reef. Two 100m airlifts were set up on the site, one to work the old excavation area, the other to work the new northern area. Excavation proceeded usually till about 1600 hours when work was terminated, and the boats returned to Lodge Point. The aluminium boat was beached, put on a trailer and returned to base camp. Provided the weather conditions looked reasonable, the team would stay on overnight and work the next day, otherwise they returned to Parth and awaited a weather change.

This sytem worked reasonably well, particularly as it did not require members of staff to remain long periods of time in the field during periods of undiveable weather. During the period list March to 2nd July, a total of 93 days diving took place on 12 days.

During the 1972 season, excavation concentrated in the southwestern part of the site. At the end of the season, a large area of concretion was left unexcavated. This area and the northern end of the site were the main objectives of the 1981 season. The southwestern lump was uncovered using an airlift and the concretion broken up using geological hammers and a short handled sledge-hammer. In the northern area, a number of large boulders were noted, these seemed to have been broken away from the surrounding reef, possibly by explosives, and in one case, had clearly broken the chase of an iron gun. In this area, the large limestons boulders were broken into manageal pieces, raised with lifting bags and floated over the reef and dumped.

During the excavation period, it was not possible to totally excavate either area. However, in the southwest, the concretion lump was significantly reduced in size. A number of fine stoneware jugs and a pipe bowl were found together with many other of the more typical items. In the northern area, a new iron gun was found, together with a small hoard of reals of eight and a set of white tinglazed albarelli.

Some investigations were carried out on the inside reef but these were incompletive. It is hoped to continue this excavation work next year.

### VERGULDE DRAECK

### Material raised from inspection trip, February 1981

2.	Ceramics	
2,1	Stoneware	
	GT 1520 GT 1521 GT 1522 GT 1523	Mask Fragments - Type Medallion sherd Stoneware sherds Stoneware neck sherd
2.2	Earthenware	
	GT 1518 GT 1519	Terracotta sherd Earthenware cup, part of
2.7	Clay pipes	
	GT 1524	Clay pipe fragment
3.	Non-Perrous	
3.2	Brass/Copper	
	GT 1530 GT 1531 GT 1532 GT 1533	Brass tapered object 11.5cm (possibly instrument pointer) Brass instrument pointer? Brass wire Copper fragments
3,3	Powter	
	GT 1527 GT 1528 GT 1529	Base of pewter vessel, Diam:13.5cms & fracments Lid Vessel lip
4.	Miscellaneous	
4.4	Glass	
	GT 1525 GT 1526	Case bottle, base of Flat glass fragments
5.	Coins	
	GT 1534	Coins - 1 piece of eight and 1 fragment

### VERGULDE DRAECK

### Material raised from April-May 1931 expedition

1.	BECOME		9
1.5 1.1 1.7	GT 1535 GT 1536 GT 1538	Flint fragment Siste pencil Smooth stone	GT 1536
2.1	Stoneware jugs		Saale 1:2
	CT 2016	small medallions and lower body. Remains of pewts Ht. 133mm; Base	complete  tral band with floral scrolls; and acanthus leaves on upper  r hinge attached to handle. diam: 65mm; Neck diam: 33.5mm; m; Volume: 320ml.

GT 2109

Stoneware jug - restored from fragments
Origin: Westerwald, Grenzau. Whitish Grey
saltglazed, cobalt blue splashes.
3 medallions - Amsterdam Coat of Arms: cordon
neck. Remains of pewter hinge from 11d attached
to handle. Ht. 203mm; Base diam: 57.7mm;
Neck diam: 33mm; Belly diam: 109mm.



GT 2016

Scale 1:3



Scale 1:2

```
Stoneware jug - in fragments.
OT 2110
                   Mask Type E; I medallion fragment
                   rose/heart/crown design.
Mask fragments
GT 2027
                  Lower part of beard only
GT 2014
GT 2047
                  Middle section only
GF 2049
GT 2000
                  Part only - Type E
GT 2091
                  Type B
                  Type A
GT 2101
Medallion fragmusts
GT 2004
                   5 fragments - Floral (cf GT 870 & 871)
GT 201a
                  1 fragment - Cross/Stars/Heart (cf GT218)
                  1 fragment - Floral (cf GT 870)
GT 2031
GT 2021
                  3 fragments - Floral (of GT 870)
                              - Rose/Crown/Heart (cf GT 87)
                  1 fragment
GT 2033
                  1 fragment - Floral (of GT 370)
1 fragment - Part of Rose/Crown/Reart
GT 2040
GT 2042
GT 2061
                 1 fragment - Floral (cf GT 870)
GT 2068
                 I fragment - Edge only
SECS T2
                 2 fragments - Floral (cf GT 870) & edge
GT 2090
                  3 fragments - Floral (of GT 872 & 757A)
GT 2104
                 1 fragment - Edge only
GT 2107
                  1 fragment
WESTERWALD WARE
GT 2067 )
                   10 Shards, including part of medallion.
GT 2073 )
                  Whitish-grey, saltglazed, cobalt blue
GT 2074 )
                   decoration. Heart design on most shards
                   Medallion marked 47 on one side.
BASE, NECK, MANDLE & WALL SHERDS
Bases:
GT 2002; 2011; 2019; 2026; 2032; 2038; 2041;
  2045; 2051; 2080; 2103; 2108;
                   Total No. of Sherds = 19
Neck:
GT 2003; 2031; 2059; 2092;
                   Total No. of Sheeds = 10
Handle:
GT 2001; 2022; 2093; 2094; 2100; 2115
                    Total No. of Sherds = 8
Wall:
GT 2005; 2012; 2018; 2020; 2028; 2033; 2039; 2043; 2044;
  2046; 2048; 2052; 2069; 2075; 2079; 2089; 2095; 2097;
   2099: 2105; 2109; 2110; 2111.
                   Total No. of Sherds = 165
```

### 2.2 EARTHENMARS

### Vessels:

GT 2010 Plate or dish - complete; restored. Undersurface is convex, implazed and has 4 crescent shaped feet.

Top surface is concave with wide rim and glazed. Colour of glaze varies from clear through to yellow

and dark green. Diam: 30cm.

GT 2054 Jug - incomplate: in concretion 3 feet, handle

and pouring lip. Light brown glaze on inside and

partially on outside.

GT 2055 Cup - incomplete: in concretion.

Rimmed base as DT 2062 Light brown inner glaze.

GT 2062 Cup - incomplete.

Rimmed base, vertical pinched handle.

Light brown glaze on inside.

of GT 818.

### Sherds

GT 2013; 2017; 2029; 2053; 2054; 2055; 2062; 2063; 2064; 2065; 2066; 2070; 2071; 2073; 2076; 2077; 2078; 2083; 2084; 2098; 2102; 2106; 2112;

Total No. = 84

### 2.3 MAJOGICA

### Drug jars (Albarello)

GT 2007 Drug jar - complete

White tin-glazed

Ht. 57.5mm; Base diam: 47mm; Top diam: 49mm

GT 2008 Drug jar - rim eroded

White tin-glazed

Ht. 56mm; Base diam: 48mm; Top diam: 49mm

GT 2009 Drug jar - almost complete

White tin-glazed

Ht. 55.5mm; Base diam 48mm

### Sherds

GT 2006; 2023; 2036; 2088;

Total No. = 12

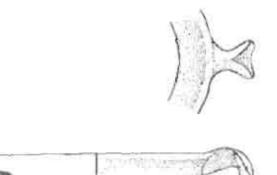
### 2.5 BRICKS

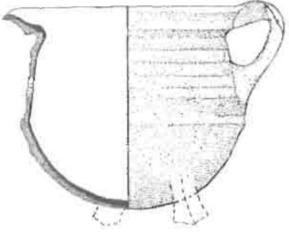
GT 3015 Whole bricks - 410

Half and broken bricks - 284

Some bricks found cemented together -

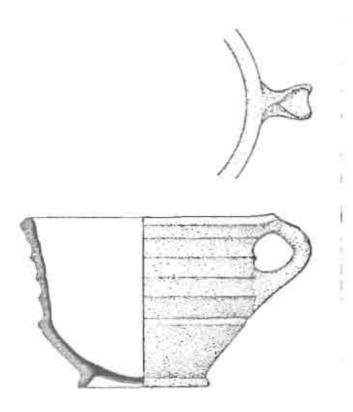
possibly from stove.





GT 2054

Scale 1:2



GT 2062

Scale 1:2



GT 2007

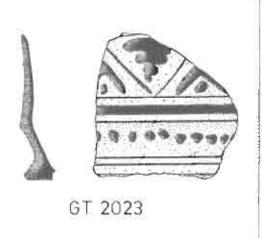


GT 2008



GT 2009

Scale 1:2

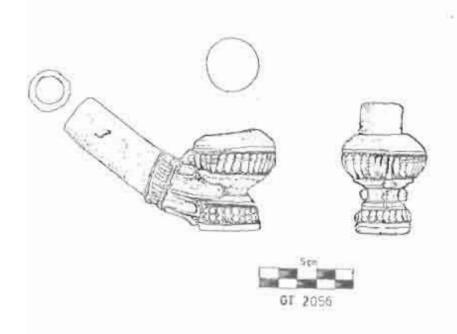


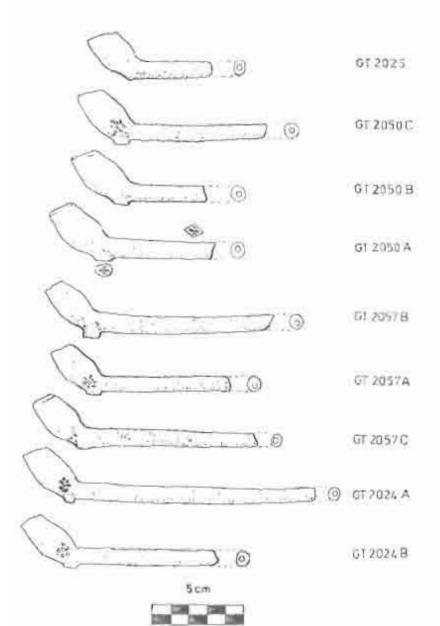
Scale 1:2



GT 2006

2.7	CLAY PIPES					
	GT 2000 GT 2014	Fragment Bowl (broken) - Plain 6 stem fragment				
	GT 2024A	Bowl and stem (broken) - Tudor Rose with sepals in relief on either side of bowl.				
	GT 2024B	Bowl and stem (broken) - stylised Tudor Pose with no sepals in relief on either side of bowl.				
	GT 2025	Bowl - Plain - dark coloured clay.				
	GT 2030	1 plain bowl and 1 part bowl and stem:				
	GT 2050A	Bowl - Plain with rouletting around rim. Fleur de Lis on base of spur.				
	GT 2050B	Bowl - Plain with rouletting around rim,				
	GT 2050C	Bowl - Tudor Rose with sepals on either side of bowl.				
	GT 2056	Large, ornace pipe. Dark grey clay				
	OT 2057A	Bowl and stem (broken) - Tudor Rose with sepals in relief on either side of bowl				
	GT 2057B	Bowl and stem (broken) - Plain				
	GT 2057C	Bowl and stem (broken) - Plain, with roulette around rim and 4 stem fragments.				
	GT 2081	Thick stem fragments (3), one with maker's initials on base of spur (2R)				
	GT 2085	Fragments of stems and bowls				
	GT 2086	Part of bowl - Plain with rouletting around ris				
	GT 2087	Bowls and stem (broken) - Tudor Pose with sepals on either side of bowl. Brownish clay.				
	GT 2096	Bowl - Plain				
	GT 2113	Thick stem fragment				
	GT 2114	Thick stem fragment				
	Unidentified					
	GT 2037 GT 4000 GT 4009	Small round marble. (1) Small round marble. (1) Diam: 1.5cm Small round marbles. (2)				





#### 3. NON-FERROUS

### 3.2 Brass/Copper

GT 3035	Brass button with shank
Gr 3042	Brass buckle - fragment of
GT 3052	Brass fish hook
GT 3053	Brass barber's bowl
GT 3057	Brass and copper container with
	hinge inside. No lid. of GT 891
GT 3006	Copper powder canister
GT 3016	Copper powder canister fragments
GT 3039A	Copper cowder canister, parts of
CT 3020	Copper nail
GT 3007 )	
GT 3008 )	
GT 3018 )	
GT 3024 1	200 0 2 2 2
GT 3027 )	Copper fragments
GT 3030 )	
GT 3041 )	
GT 3051 )	
GT 3055 )	
CT J033	
GT 3039	Copper sheeting
GT 3054	A CONTROL OF THE CONT
369 50019	

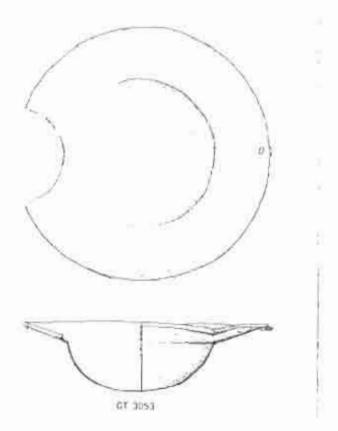
#### 3.3. PEWTER

### Bottle tops

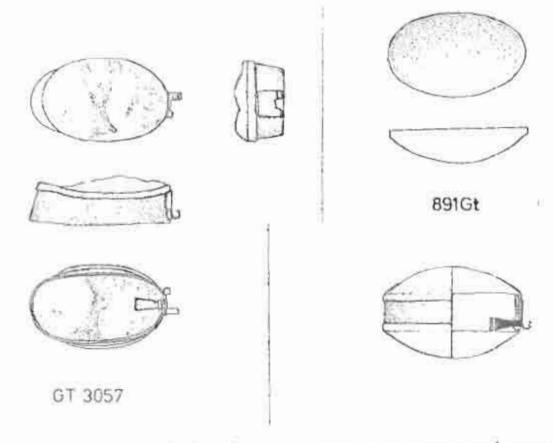
GT 3000	Bottle top with glass
GT 3001	Bottle top, rim squashed
GT 3002	Half bottle top rim
GT 3009	Bottle top
GT 3011	Bottle top
GT 3012	Bottle top, fragments of
GT 3013	Bottle top, part of
GT 3014	Bottle top, fragments of
GT 3022	Bottle tops (2), fragments of rims and
	top section (1)
GT 3044	Bottle top with glass
GT 3045	Bottle top
CT 3046	Bottle top
GT 3047	Bottle top
GT 3048	Bottle tops (2) Fragments of
A	
Spoons.	

GT 3019	Spoon	with	twi	sted han	dle. M	ker's	mark:	
				Crown, X				

GT 3038 Spoon bowl, part of



Scale 1:4



Scale 1:2

Possible reconstructed appearance

### Vessels/Handles

GT 3033 Vessel, fragments of GT 3037 Small drinking vessel with etched decoration Ht. 57.5mm; Base diam; 35mm; Top diam; 45mm

GT 3049 Handle from stein 1id

### Pragments

GT 3015: 3021: 3022

Total = 8 fragments

### 3.4 LEAD

### Musket Balls

GT 3005(1): 3026(6): 3031(1): 3043(2): Total = 10

#### Scrap

GT 3004; 3010; 3017; 3025; 3036;

### 4. MISCELLAMEOUS

### 4.1 Animal Bones

GT 4005(24): 4011(2): 4014(9): 4026(20): 4027(20): 4033(27): 4041(1): 4045(12): 4046(2): 4059(1):

GT 4030 Bird skull

### Ivory

GT 4021 Fragment (1)

GT 4022 Elephant tusk, eroded

GT 4052 Elephant tusk

### 4.2 FRUITS, SEEDS

GT 4032; 4036; 4047; 4062

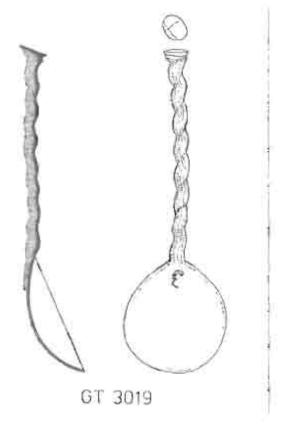
### 4.3 RESIM

GT 4025(13): 4038(1); 4034(5): 4038(4): 4043(1); 4043(1): 4044(2): 4048(3): 4049(6): 4058(1):

### 4.4 GLASS

Green glass fragments - mainly case bottles

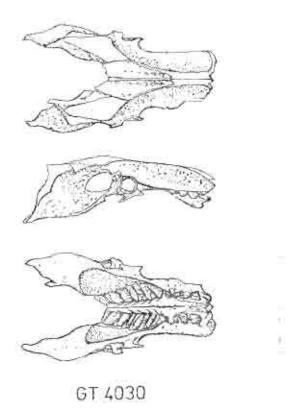
GT 4002(10); 4006(1); 4007(34); 4016(37); 4017(2); 4019(1); 4020(2); 4023(1); 4024(5); 4029(2); 4035(1); 4050(7); 4051(22); 4054(1); 4055(2); 4056(9);



Scale 1:2



Scale 1:2



Scale 1:2

### Clear Glass

GT 4003 Clear glass tumbler base, Diam 5cm. GT 4008  $P_{\rm T}$  clear glass bases.

# 4.5 PITCH, TAR

GT 4039(1); 4040(1); 4057 (with timber attached); 4061 (on curved piece of timber).

# 4.6 ROPE, LEATHER ETC.

CT 4031	Sole of leather shoe with wood nails in heel
GT 4037	Leather shoe upper
GT 4060	Leather heel of shoe
GT 4053	Rope, piece of in concretion
GF 4063	Rope, fragments of

#### 5. COINS

GT 5000 to 5016 -

Total 873 silver coins

#### TIMBER

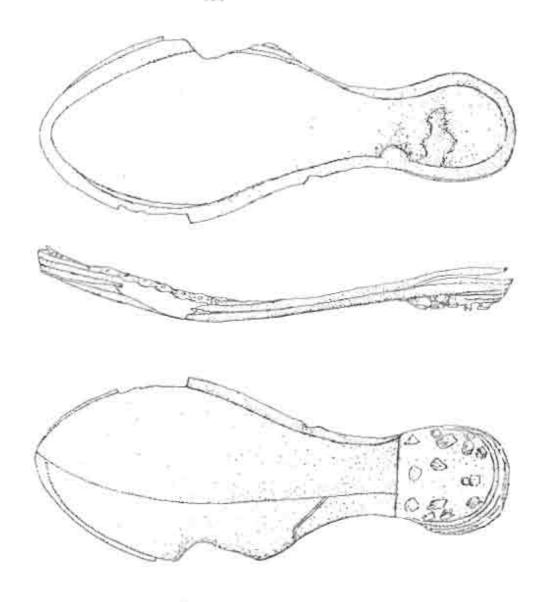
### 6.1 SHIP'S MAIN TIMBERS

GT 6004	Small pieces of wood (3)
GT 6006	Timber with nail holes, possibly outer
_560000000	sheathing with diamond positioned nail
	holes. (Nail: Smm square, head diam: 15mm)
	Cow hair attached to inside.
GT 6008	Rib, piece of, with tresnail
GT 6009	Rib, piece of, with treenails
GT 6010	Timber, with treenall (unidentified)
GT 6011	Timber (unidentified)
GT 6012	Shaped timber with treenail - possibly
	part of rib.
GT 6013	Shaped timber with treenall
GT 5016	Rib, piece of, with treenall
GT 6017	Rib, (1 treenail, 2 holes, 1 square nail hole)
GT 6018	Timber (unidentified)
GT 6019	Timber, pieces of, broken from one piece
	with treenail between
GT 6020	Timber with diagonal lining of tack holes.
GT 6023	Rib, piece of, with treenalls
G# 6024	Rib, piece of, with treenails
GT 6025	Chock of timber with treenail holes
GT 6026	Timber with nail holes, possibly outer sheathing
N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	There with that notes, pository outer sheathting

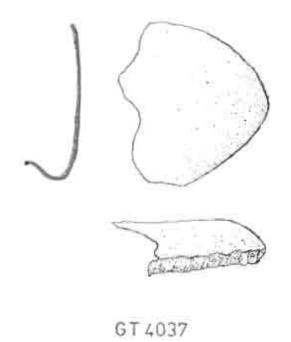
# 6.3 CARGO

#### Barrel

GT 6000	Section of wooden barrel top (not retained)
GT 6003	Bamboo and cane from barrel
GT 6014	Base of barrel, pieces of (3)

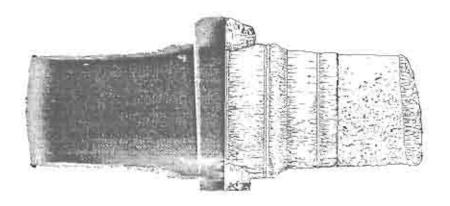


GT 4031



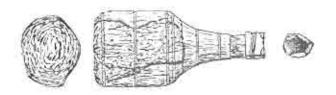
Scale 1:2

	Bacrel (cont)	
	GT 6015 GT 6021 GT 6007	Barrel, staves, pieces of (11) Barrel staves indented at end, pieces of (2) Piece of timber (corresponds w/GT6000)
6.4	FITTINGS	
	GT 6003 GT 6030	Treenail (3)
6.5	TOOLS	
	GT 6001 GT 6027 GT 6029 GT 6033	Caulking mallet Awl, wood with brass ferrule Handle, parts of Caulking mallet
6.6	HARK	
	GT 6022 GT 6031	Birch bark, piece of (7) Birch bark, piece of (1)
6.7	HISCELLANEOUS	
	GT 6028 GT 6005 GT 6032	Wooden button, hole in centre Wooden bung, pieces of Knot out of timber and seeds



GT 6001

Scale 1:2



GT 6027

Scale 1:2

GT 8014

#### 8. FERROUS 8.1 ARMAMENT GT 8000 Cannon ball (1) GT 8001 Cannon ball (1) de-mineralized GT 8003 Cannon ball (3) de-mineralized GT 8007 Cannon ball (1) Diam: 59mm GT 8008 Bar shot - 2 halves, broken, with bar. Diam: 88mm 8.5 CONCRETIONS GT 8002 Iron concretion GT 8005 Iron concretion with impression of barrel hoop (6014 & 6015) and impression of copper (3033) GT 8006 Iron concretion with impression of knife or tool GT 8009 Concretion with nat1 hole, 5mm square GT 8010 Iron conretion containing possible iron rods, square section or billet CT 8011 Iron conretion with holes, 50mm, 40mm & 30mm GT 8012 Iron concretion GT 8013 Iron concretion around wood

Iron concretion

#### VERGULDE DRAECK

#### Malerial previously deferred pending conservation treatment

The following items are now available for consideration:

#### NON-FERROUS

# 3.1 Bronze

GT 6 Bronze mortar

#### 4. MISCELLANEOUS

## 4.2 Fruit seeds etc

GT 1058 2 Fruit seeds

### 1.6 Rope, Leather etc

ĠТ	686	Rope fragments
GT	1.062	Rope Fragmants
GT	1086	Rope fragments
GT	1109	Rope Fragments
GT	1111	Rope fragments
GT	1119	Rope fragments
GT	1294	Tuiks head knot
GT	1355	Large quantity of rope
GT		Matting

# 4.7 Fabric

GT 1076 3 pieces of fabric

#### 6. TIMBER

#### 6.1 Ship's timber

GT	804	Fragments of	wood
GT	1055	Small pieces	of wood

# 6.2 Armament

GT 1036	Powder flask
GT 1037	Powder flask
GT 1040	Powder flask
GT 1051	Powder flask
GT 1088	Powder flask cap
GT 1089	Powder flask cap
GT 1091	Powder flask cap
GT 1126	Wood from scabbard

# 6.3 Cargo

GT 1140 Barrel stove fragments

## 6.4 Fittings

GT 1054A	Wooden dowel
GT 1054B	Wooden wedge
GT 1068	Wooden wedge
GT 6035	Treenail

```
40.
6.5 Tools
    GT 1041
                Wooden handle
    GT 1044
                 Wooden handle with wire whipping
    GT 1069
                  Wooden handle
    GT 1072
                 Wooden handle
    GT 1287
                  Large wooden handle
    GT 1288
                  Wooden handle, finely patterned ) From tool box
    GT 1289
                  Wooden handle
    GT 1291
                  Wooden handle, eroded
    GT 1292
                  Wooden handle, small, eroded
6.6 Bark
    GT 1050 )
    GT 1060 )
                 Wood bark
    GT 1097 )
    GT 1135 )
    GT 6034 )
6.7 Miscellaneous
                 Wooden comb
    GT 1131
    GT 1038
                 Wooden bobbin
    GT 1137
                 Wooden bung
    GT 1121
                 Stick fragments
8.
   FERROUS
8.1 Armament
    GT 1486
                  Cannon ball
```

#### ZEEWIJK

2W 5570

ZW 5571

TIMBER

ZW 5547

5.4 Fittings

6.

```
Material raised from 1979 expedition
L. STONE
1.2 Conl
     W 5560
                  Coal (2)
2. CERAMICS
2.1 Stoneware
     ZW 5545
                   Stoneware jug sherd (1) (Middle Island)
     ZW 5548
                   Stoneware sherds
     ZW: 5552
                   Stoneware sherds (2)
     ZW 5554
                   Stoneware sherd (Gun Island Jatty)
     ZW 5557
                   Stoneware shards (6)
     274 5562
                   Stoneware sherds (1) (Middle Island)
     ZW 5564
                   Stoneware sherds (3)
2.7 Clay Pipes
     ZW 5556
                   Clay pape fragments (5)
     ZW 5563
                  (Clay pipe stem fragments (34)
                  (Pipe bowl frags (one with SVS heelmark) (6)
2.7 Porcelain
     221 5550
                   Base sherd from cup - blue/white oriental
3.
    NON-FERROUS
3.2 Copper
     2W 5553
                   Copper sheeting (3)
    2W 5567
                   Copper eye boit
3.4 Lead
    ZW 5558
                   Musket ball (1)
¥..
    MISCELLANEOUS
4.4 Glass
     ZW 5549
                   Mauve bases (16), Green glass frag (1), Wine glass stems (2)
     ZW 5551
                   Mauve base of tumbler
     ZW 5555
                   Fragments (9)
     ZN 5559
                   Onion bottle fragments (2)
     ZW 5565
                   Case bottle base fragments (3)
     22N 5566
```

Onion bottle Eragments including one neck

Case bottle bases (1) & wall fragment (1)

Onion bottle Fragments (18)

Pulley sheave

```
42.
8.
     FERROUS
8.1 Armament
                  Iron cannon, fair condition
     ZW 5572
     ZW 5573
                 Eroded cannon
     ZW 5574
                  Eroded cannon
     Z₩ 5575
                  Eroded cannon
8.2 Fittings
     ZW 5546
                  Pintle
     ZW 5561
                  Nail concretion
8.6 Concretions
     ZW 5563
                  Concretions (5)
     ZW 5569
                  Iron fragment (1)
ZEEWIJK
Material previously deferred pending conservation treatment
The following items are now available for consideration:
     NON-PERROUS
3.
3.2 Copper
     ZW 1954
                  Copper Lid
6.
     TIMBER
6.4 Fittings
     ZW 829 )
                   Pulley sheaves from Gun Island
     ZW 837
     2W 4742 )
                                                   Excellent Condition
     ZW 5344 )
                                                   Fair condition
     ZW 5345 )
                                                   Poor condition
     ZW 2009A
                   Pulley sheave
     ZW 20098
                   Pulley sheave
     ZW 3029
                   Pulley sheave with bearing
     ZW 3051A
                   Pulley sheave
     274 305 LB
                   Pulley sheave
                                                   From underwater sites
     ZW 3051C
                   Fulley sheave
     ZW 3065A
                   Pulley sheave
     2W 3065B
                   Pulley sheave
     ZW 3065C
                   Pulley sheave
```

ZW 5547

Pulley sheave

# ARTEFACTS ASSIGNED TO THE METHERLANDS, SEPTEMBER 1979

# RATAVIA

Sharpening stone	BAT 4001
Half a piece of stone (quartzite)	= 5-1 action
with coal	BAT 4182
Brass three wick oil lamp	BAT 372
Copper powder canister	BAT 406
Powder manistar lid	BAT 370
Ivory handle inlaid with amber	BAT 4121
Resinous beads	BAT 4046 (1)
Leather gorgetto	BAT 4495 (1) BAT 4586
3 Rope test samples Cannon ball	BAT 40300
Brass pins	BAT 3690
Brass wire coil	BAT 36833
Gilded cherub replicas Black glass button	BAT 3603 BAT 4552
Coral beads	BAT 4505 (4)
Lace bobbin	BAT 6461
cace bobbin	But 640T
VERGULDE DRAECK	
Ivory handle	GT 1034
Fruit seeds	QT 1042
Pieces of wood	GT 803B
Drum stick replica	GE 1143
Pump valve	GT 1397
Elephant tusk	GT 1334
Nails from barrel (340)	GT 1471B
Buckwheat sample	GT 1033
ZEEWIJK	
Plint stones	2W 4451
Breech block	20 280
Coake (pulley bearing)	ZW 836A
Brass buckle	ZW 4559
Brass Scissor handles	ZW 202A
Musket back plate marked	211
'CAMER ZEELAND'	ZW 4634
Bone beads	ZW 4244
Green glass base, decorated	ZW 2030
Assorted iron	Selection 1
Iron nails of assorted sizes	ZW 4439; ZW 4386; ZW 5226;
	ZW 5226; ZW 4939; ZW 4918;
	ZW 5236; ZW 2545; ZW 4903;
	ZW 4527; ZW 5237
Iron knife fragment	ZW 4652
Iron barrel hoop fragments	ZW 4446; ZW 4687; ZW 4989;
(samples)	2W 4919; ZW 4982
Part of iron ring	ZW 4906
ZUYTDORP	
Brass upholstery tacks (10)	ZT 2313 (6)
arms abnotacery recys (IN)	ZT 1823 (4)
	56 47 0.00 635 CM I

44.

# BATAVIA

Sharpaning stone	BAT 4001
Copper powder canister	BAT 510
Powder canister lid	BAT 572
Sone handle	BAT 4051
Resinous beads	BAT 4046 (2)
Leather gorgette	BAT 4495 (1)
Wooden handle with metal thread	BAT 4028
Nail concretion	BAT 4114 (1)
Brass scopp strainer	BAT 3816
Brass button	BAT 3597
Brass pins	BAT 3690
Brass wire	BAT 3683A
Copper handle from Iid	BAT 3731
Copper sheeting from cauldron	BAT 3805
Lead seal	BAT 3824
Gilded cherub replica	RAT 3603
Ivory knife handle	BAT 4559
Amber beads	BAT 4523 (1)
Black glass button	BAT 4542
Rope - 2 pieces	BAT 4513
Coral beads	BAT 4505 (4)
Lace bobbin	BAT 6363

### VERGULDE DRAECK

Ivory handle	GT	1039
Part of bone comb	GT	1129
Rat skull	CT	1101
Pruit seeds	GT	1043*
Pleces of wood	GT	803A
Wood nail	GT	1061
Graduated wooden rod	GT	1133
Wooden handle	GT	1052
Drumstick replica	GT	11438
Pump valve replica	GT	1397R
Nails from barrel (340)	GT	1471B

#### ZEEWIJK

 Flint stones	ZW 2171	
Breech block	ZW 3082	
Fish hook	2W 4251	
Scissor handles	ZW 4436 & ZW 4470	
Copper nail	ZE 5490	
Musket back plate marked	ZW 251B	
CAMER ZEELAND		
Bone beads	ZW 2964 (2)	
Wine glass stems	ZA 3113	
Onion bottle	234 3017	
Bases of purple tumblers	2W 3009 (1) 2W 3087 (1)	
Assorted from	Selection 2	
Iron nails of assorted sizes	ZW 4906; ZW 4939; ZW 5236	17
	ZW 4932; ZW 5236; ZW 4933	1
	ZW 4911; ZW 5226; ZW 5215	2:
	ZW 4445	
Parts of iron ring	ZW 5228	
Tron knife fragment	ZW 4514	

45.

ZW 4687: ZW 4919; ZW 4641; ZW 5042; ZW 4712 Barrel hoop fragments

ZUYTOORP

Clay pipe fragments 2T 558 [5]

Brass upholstery tacks (10) ZT 2313 6 ZT 1623 Bone knife handle ZT 547

\* Denotes armendment

### AMMENDMENTS

Page No.	
12	Add BAT 373A - Base and stem of pawter goblet
13	Add BAT 4159 - Bone handle
16	Add BAY 4070 - Bone handle
98	ZW 4633 becomes ZW 4634 - musket backplate
100	Add ZW B37 - Pulley sheave
100	ZW 4872 becomes ZW 4742 - Pulley sheave
120	Add ZT 556 Flintstone
121	ZT 2313 Brass pin becomes ZT 2312 Brass Pin ZT 2312 Brass upholstery tacks becomes ZT 2313
142	ANCOD AZ: L
	Buttons BAT 3692A becomes BAT 3629A BAT 3589 becomes BAT 3589A
	Load seals BAT 3073A becomes BAT 3037A
	Add: Copper hinge plate BAT 3134
144	ANCOD A3
	Wine glass stem ZW 1806 becomes ZW 1860 Pulley bearing ZW 1469 becomes ZW 1469A ZW 1469R becomes ZW 1469B(R) Lead sinkers ZW 190 becomes ZW 190C 6 ZW 190D
	Add: Clear glass tumbler with etched design (part of) 2N 1071
146	ANCOD N2:1
	Lead seals Add: BAT 3037B (Note: this may have been omitted from gazetted list)
148	ANCOD N3
	Wine glass stems Add ZW 2147 (5 stem fragments) Mauve glass bases delete ZW 2147 Pulley bearing ZW 1469R becomes ZW 1469A(R) ZW 1469 becomes ZW 1469B ZW 836R becomes ZW 836A
	Onion bottle ZW 104 becomes ZW 111
	Case bottle Add: ZW 130 (formerly 2W 109 Field No.)

Add: 205B small round button

ZW 98 (field No.) becomes ZW 105

Case & Onion

bottles