NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A. GENERAL

1. NAME OF RESEARCH SHIP: FRV "Walther Herwig III" — CRUISE NO.: 372

2. DATE OF CRUISE: FROM 23.01.2014 — TO 24.02.2014

3. OPERATING AUTHORITY: Bundesanstalt für Landwirtschaft und Ernährung, Referat 524
Haubachstr. 86, 22765 Hamburg

Telephone: +49 40 306860534 / Telefax: +49 40 306860555

4. OWNER (if different from para. 3): Bundesrepublik Deutschland

5. PARTICULARS OF SHIP

NAME	FRV "Walther Herwig III"
NATIONALITY	German
OVERALL LENGTH (METRES)	63.18 metres
MAXIMUM DRAUGHT (METRES)	6.20 metres
NETT TONNAGE	2131 BRZ
PROPULSION	Steam Turbine / Diesel / Diesel Electric
CALL SIGN	DBFR

REGISTERED PORT & NUMBER (if registered fishing vessel)

6. CREW

NAME OF MASTER	J. Vandrei or H.-O. Janssen
NUMBER OF CREW	22

7. SCIENTIFIC PERSONNEL

NAME AND ADDRESS OF SCIENTIST - IN - CHARGE	Dr. Matthias Kloppmann Thünen - Institut für Seefischerei Palmaille 9 22767 Hamburg
e-mail:	matthias.kloppmann@ti.bund.de
Tel./FAX No.	+49 40 38905-196 / +49 40 38905-263
NUMBER OF SCIENTISTS	12

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference in latitude and longitude):

Entire North Sea between 54° N to 62° N, particularly in those rectangles assigned to Germany by ICES (see attached map)

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE: International Bottom Trawl Survey 2014 Q1

10. DATES AND NAMES OF INTENDED PORTS OF CALL: Aberdeen or Lerwick (Shetlands); 36 h in the time interval between 06. and 10.02.2014, depending on cruise schedule

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL: None (cruise mid-term break)

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B. GENERAL

1. NAME OF RESEARCH SHIP FFS Walther Herwig III CRUISE NO: WH 372

2. DATES OF CRUISE FROM 23.01.2014 TO 24.02.2014

3. a) PURPOSE OF RESEARCH

Participation in the ICES coordinated International Bottom Trawl Survey (IBTS) 2014 Q1 in the North Sea, and participation in a Norwegian research program on saithe biology.

b) GENERAL OPERATIONAL METHODS (including full description of any fishing gear-trawl type, mesh size, etc.)

1. Bottom trawling (net: Grande Overture Vertical (GOV), standard net approved by ICES, codend 20 mm)
2. Biochemical investigations
3. Plankton investigations
4. Hydrographic Investigations
5. Echo registration

4. ATTACH CHART showing, at the appropriate scale, the geographical area of the intended work, positions of the intended stations, tracks of survey lines, positions of moored equipment, areas to be fished

Entire North Sea between 54° N to 62° N, particularly in those rectangles assigned to Germany by ICES (see attached map)

5 a) TYPES OF SAMPLES REQUIRED e.g. Geological / Water / Plankton /Fish/Radionuclides.

Fish-, plankton-, water samples

b) METHODS OF OBTAINING SAMPLES (e.g. dredging / coring / drilling / fishing etc.). (When using fishing gear indicate fish stocks being worked, quantity of each species required, quantity of fish being retained on board)

- Plankton Net Tows
- CTD casts
- Water bottle samples
- Fishing:

All North Sea fish stocks are being worked on according to the ICES manual. No fish is retained on board except for scientific samples.
Small amounts of fish are kept for direct consumption on board and limited amounts (max 4 kg/person) for crew's home consumption.

6. DETAILS OF MOORED EQUIPMENT: none

Dates: Laying	Recovery	Description	Depth	Latitude	Longitude
None					

7. ANY HAZARDOUS MATERIALS: (Chemicals, Explosives, Gases, Isotopes, etc.)
(Use separate sheet if necessary)

(a) TYPE AND TRADE NAME Formaldehyde

(b) CHEMICAL CONTENT (& formula) 37 % Formaldhyde

(c) IMO IMDG CODE Reference & UN No. FORMALEHYDE SOLUTION 2209

(d) QUANTITY & METHOD OF STOWAGE ON BOARD 30 L stored in appropriate plastic containers

(e) IF EXPLOSIVES give date (s) of detonation None

- Method of detonation

- Position of detonation

- Frequency of detonation

- Depth of detonation

- Size of explosive charge in Kgs

8. DETAIL & REFERENCE OF:
a) ANY RELEVANT PREVIOUS / FUTURE CRUISES:

Cruise is part of a standard series coordinated by ICES since mid-1960's

b) ANY PREVIOUSLY PUBLISHED RESEARCH DATA RELATING TO THE PROPOSED CRUISE.
(Attach separate sheet if necessary)

All data are stored at ICES DATRAS and published in the framework of reports of the respective ICES working group: e.g. ICES 2011: Report of the International Bottom Trawl Survey Working Group (IBTSWG), ICES CM 2011/SSGESST:06

9. *NAMES AND ADDRESSES OF SCIENTISTS IN COASTAL STATE (S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE.*
UK-England: Brian Harley, CEFAS, Lowestoft, England
UK-Scotland: Craig Russell, Finlay Burns, Marine Scotland, Aberdeen

10. STATE:

(a) *WHETHER VISITS TO THE SHIP IN PORT BY COASTAL STATE SCIENTISTS WILL BE ACCEPTABLE YES*
Please contact chief scientist well ahead of time

(b) *PARTICIPATION OF AN OBSERVER FROM THE COASTAL STATE FOR ANY PART OF THE CRUISE TOGETHER WITH THE DATES AND THE PORTS FOR EMBARKATION/DISEMBARCATION*
Bremerhaven, 23.01.2014; port of mid-term break (Aberdeen, Bergen or Lerwick), 06.-10.02.2014; Bremerhaven, 24.02.2014.
c) WHEN RESEARCH DATA FROM THE INTENDED CRUISE IS LIKELY TO BE MADE AVAILABLE TO THE COASTAL STATE AND BY WHAT MEANS
Generally, all data will be uploaded to ICES DATRAS for further treatment about 4 weeks after the cruise.
Furthermore:
1. Cruise summary report through official channels; English summary will be available about 4 weeks after the trip
2. Short report latest by end of March 2014
3. ICES IBTS Working Group Report, end of May 2014

PART-C: SCIENTIFIC EQUIPMENT ***COASTAL STATE United Kingdom***

COMPLETE THE FOLLOWING TABLE *PORT CALL Aberdeen or Lerwick*
SEPARATE COPY FOR EACH COASTAL STATE

DATE: between 06. and 10.02.2014

INDICATE „YES“ OR „NO“

LIST OF SCIENTIFIC WORK BY FUNCTION				*Distance from coast*		
e.g. Magnetometry Gravity,Diving Seismics Bathymetry Seabed sampling Trawling Echo sounding Water sampling U / W TV Moored instruments Towed instruments	*Water Column including Sediment Sampling of the Seabed*	*Fisheries Research within Fishing Limits*	*Research concerning the natural resources of the continental shelf or its physical characteristics*	*Within 12 NM*	*Between 12-200 NM*	*(Continental shelf work only) Beyond 200 NM but within the continental margin*
Echo sounding	*yes*	*yes*	*no*	*yes*	*yes*	*no*
Trawling	*yes*	*yes*	*no*	*yes*	*yes*	*no*
Ichthyoplankton	*yes*	*yes*	*no*	*yes*	*yes*	*no*
CTD profiling	*yes*	*yes*	*no*	*yes*	*yes*	*no*
Water sampling	*yes*	*yes*	*no*	*yes*	*yes*	*no*

Matthias Rhyppmann

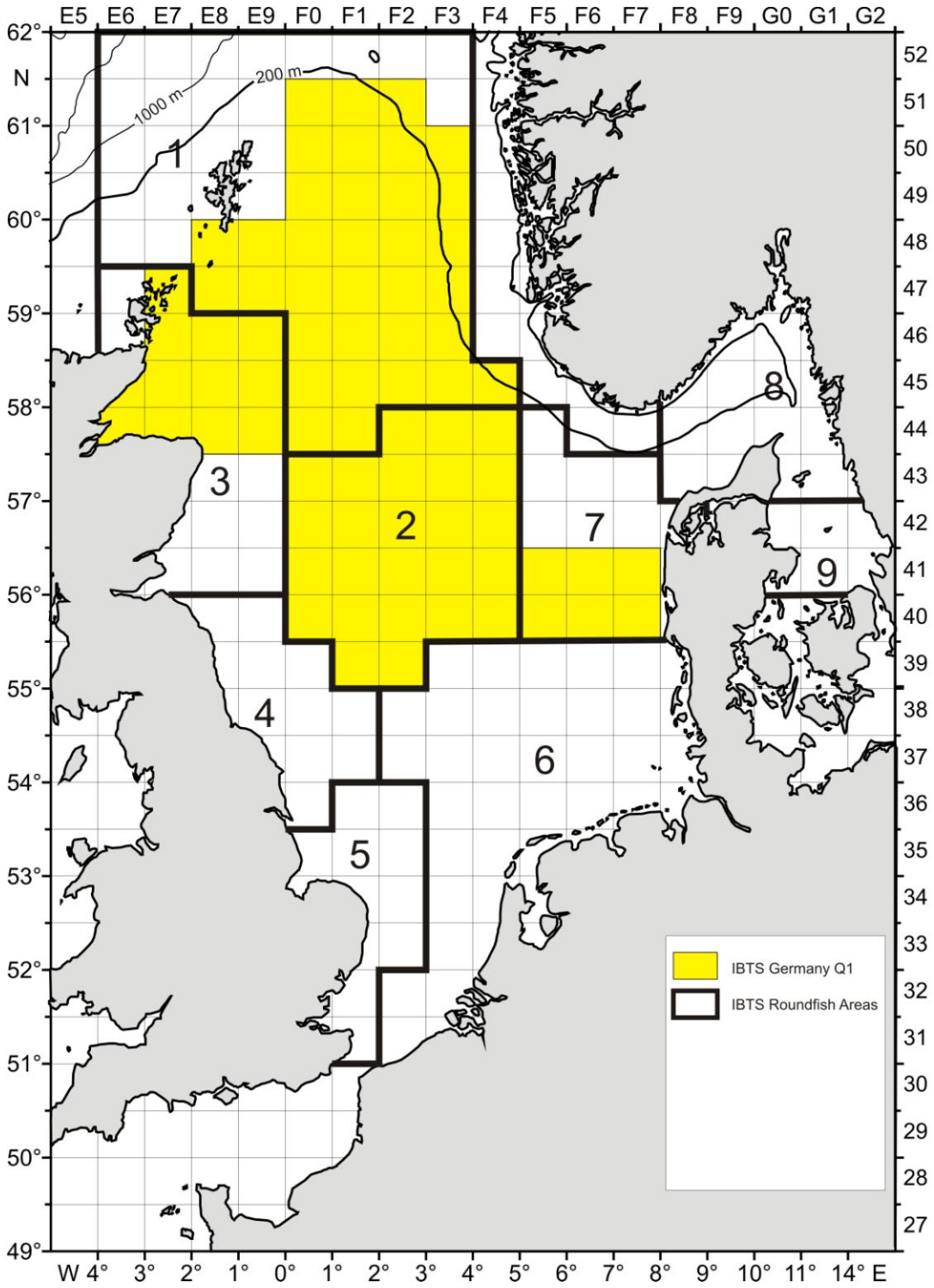
_____ _____ *Dated 14.06.2013*

(On behalf of the Principal Scientist)

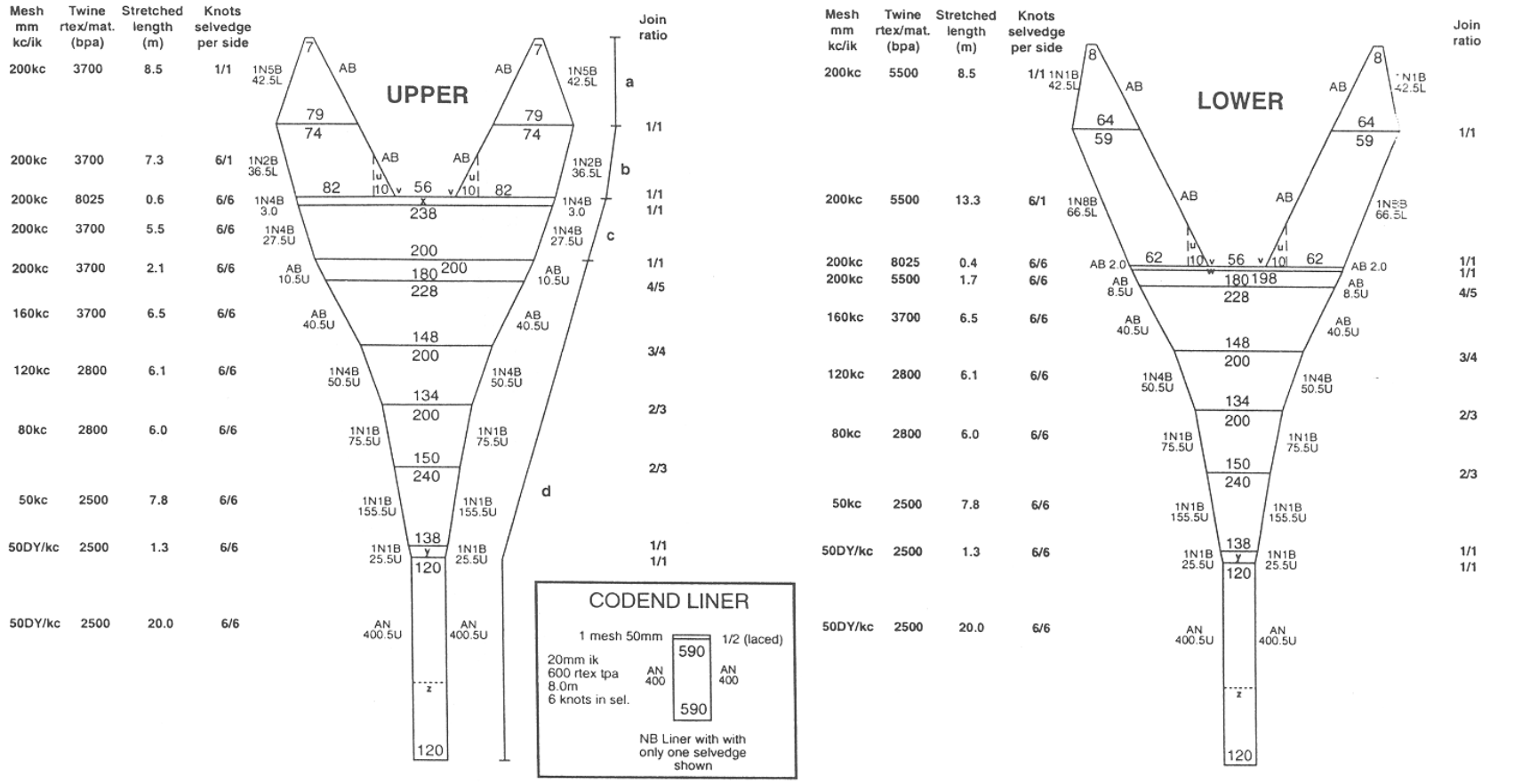
N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES / AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY

IBTS 2014(I)

ICES rectangles assigned to WALTHER HERWIG III



Construction of the 36/47 GOV trawl (adapted from drawings of the Institute des Peches Maritimes, Boulogne/Mer)



Headline : 36m (15.50 + 5.00 + 15.50) x 14mm ϕ wire (f/c) served (6/19 - 12/6/1 65.8kg/100m).
Fishingline : 47.20m (21.10 + 5.00 + 21.10) x 22mm ϕ combination wire 6 strand/steel core 54.6kg/100m).
Winglines : Upper 8.2m, Lower 8.2m x 20mm ϕ combination wire (6 strand/steel core 54.6kg /100m)

a - 7.1m x 14mm ϕ wire (6/19 - 12/6/1 - 65.8kg/100m)
b - 6.7m x 20mm ϕ combination wire (6 strand/steel core - 54.4kg/100m)
c - 5.55m x 20mm ϕ combination wire (6 strand/steel core - 54.4kg/100m)
d - length for length x 22mm ϕ nylon (3 strand - 26kg/100m)

u - Gussets 8025rtex
v - 4 meshes gathered at quarters

w - 200 198
x - 240 238
y - 138 120

z - Joining position for Liner

kc = knot centre to knot centre
ik = inside knot measurement
tpa = polyamide twine/twisted
bpa = polyamide twine/braided
dy = double yarn

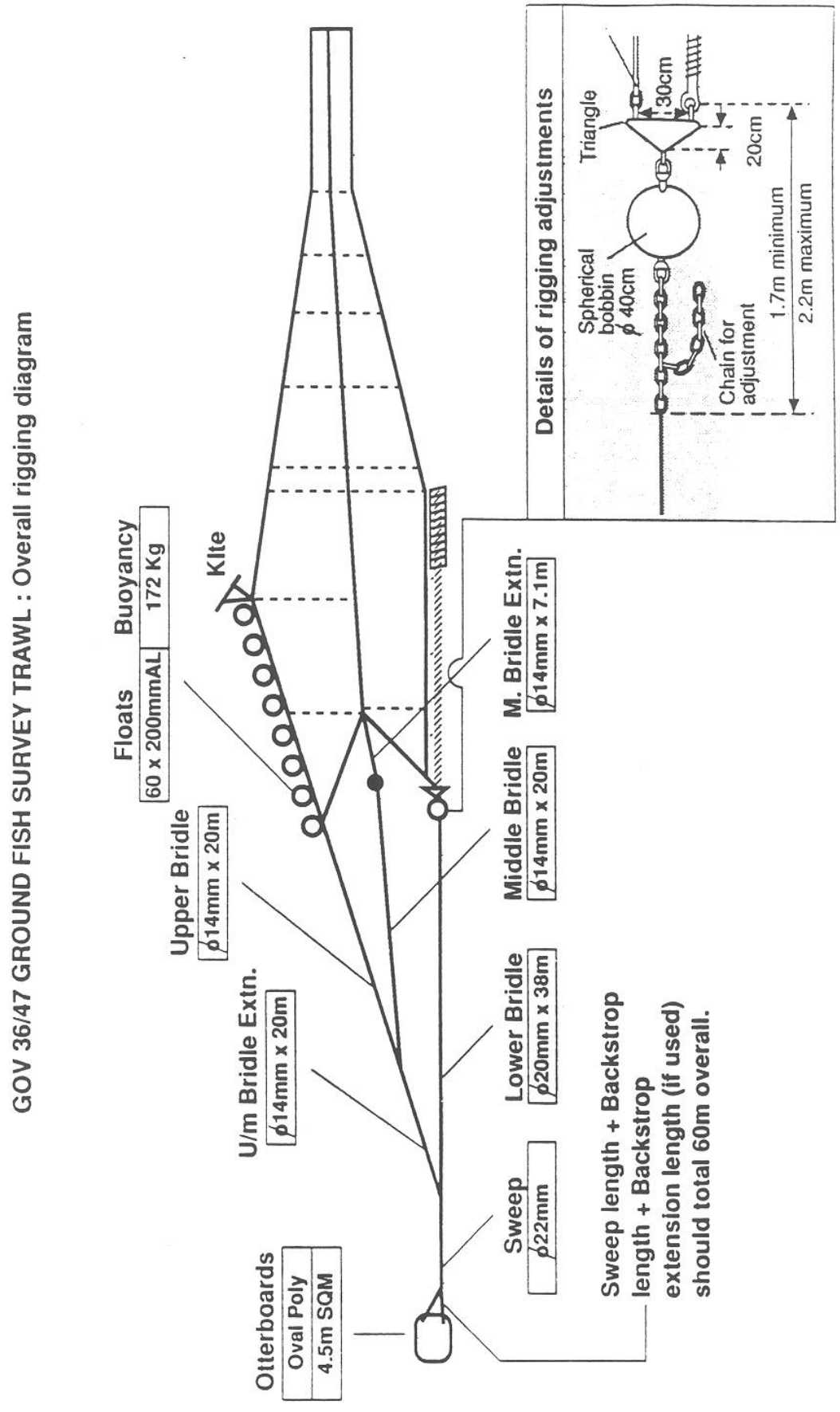
Method of join used, sewing.
Type of knot, weavers knot.

NOTE TO NETMAKERS

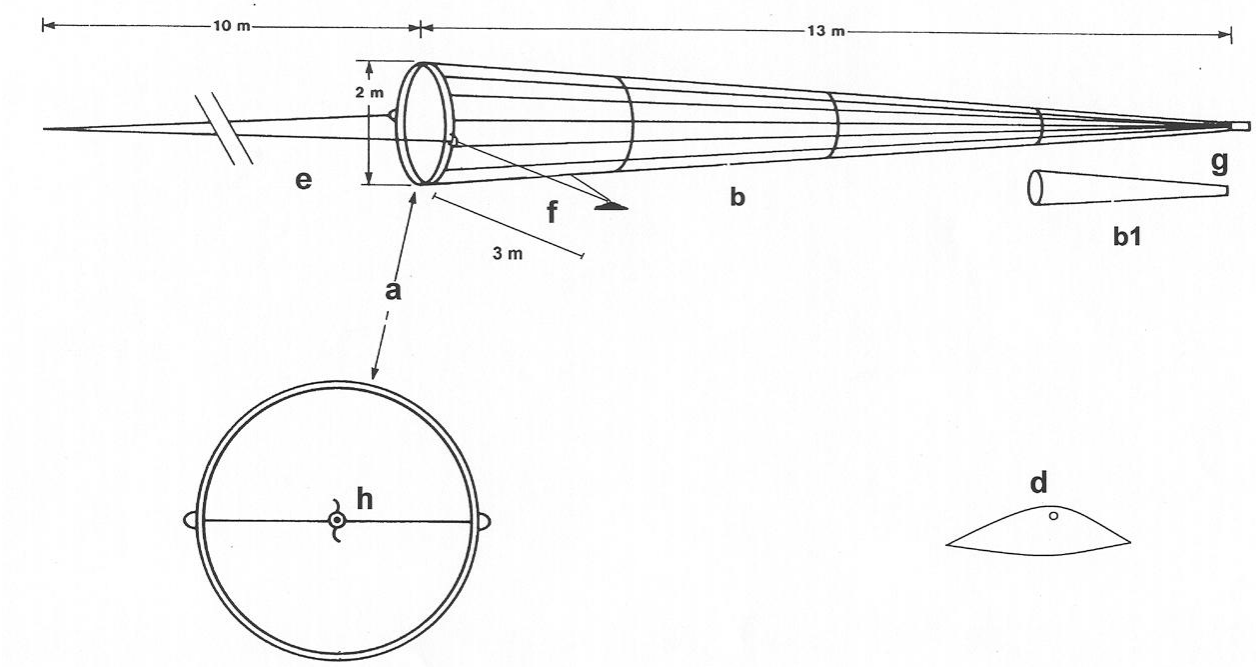
The numbers of meshes shown for netting panel widths do NOT include selvedge meshes. Five meshes (six knots) per selvedge must be added where indicated. Conversely to obtain panel depths one row (1/2 mesh) must be subtracted from each panel as the joining row is included in the number of meshes deep. The total numbers of meshes (width and depth) for each individual panel are set out in GOV 36/47 Groundfish Survey Trawl Checklist (Page 2 of 5)

GOV, standard fishing gear (trawl construction)

GOV standard fishing gear (rigging)



Construction of the MIK plankton net



a) Ring of 2 meter diameter.

b) Black net of 1.6 mm pore, 13 meter long, strengthened by nylon or canvas straps. In the last metre of the net a 500 µm net is inserted (b1)

d) Saddle shaped weight or depressor.

e) Pair of 10 meter long bridles to the gear.

f) Pair of 3.0 meter long bridles to the weight or depressor.

g) Cod-end bucket (Ø 11 cm), netting of 500 µm

h) Flow meter mounted on a string crossing the ring, positioned in the center of the ring.