Ship Observations Team

~ integrating & coordinating international ship-based observing programmes for JCOMM ~

III-2.5.1, VOS Metadata Tools

SOT-V

18 – 22 May, 2009, Geneva, Switzerland

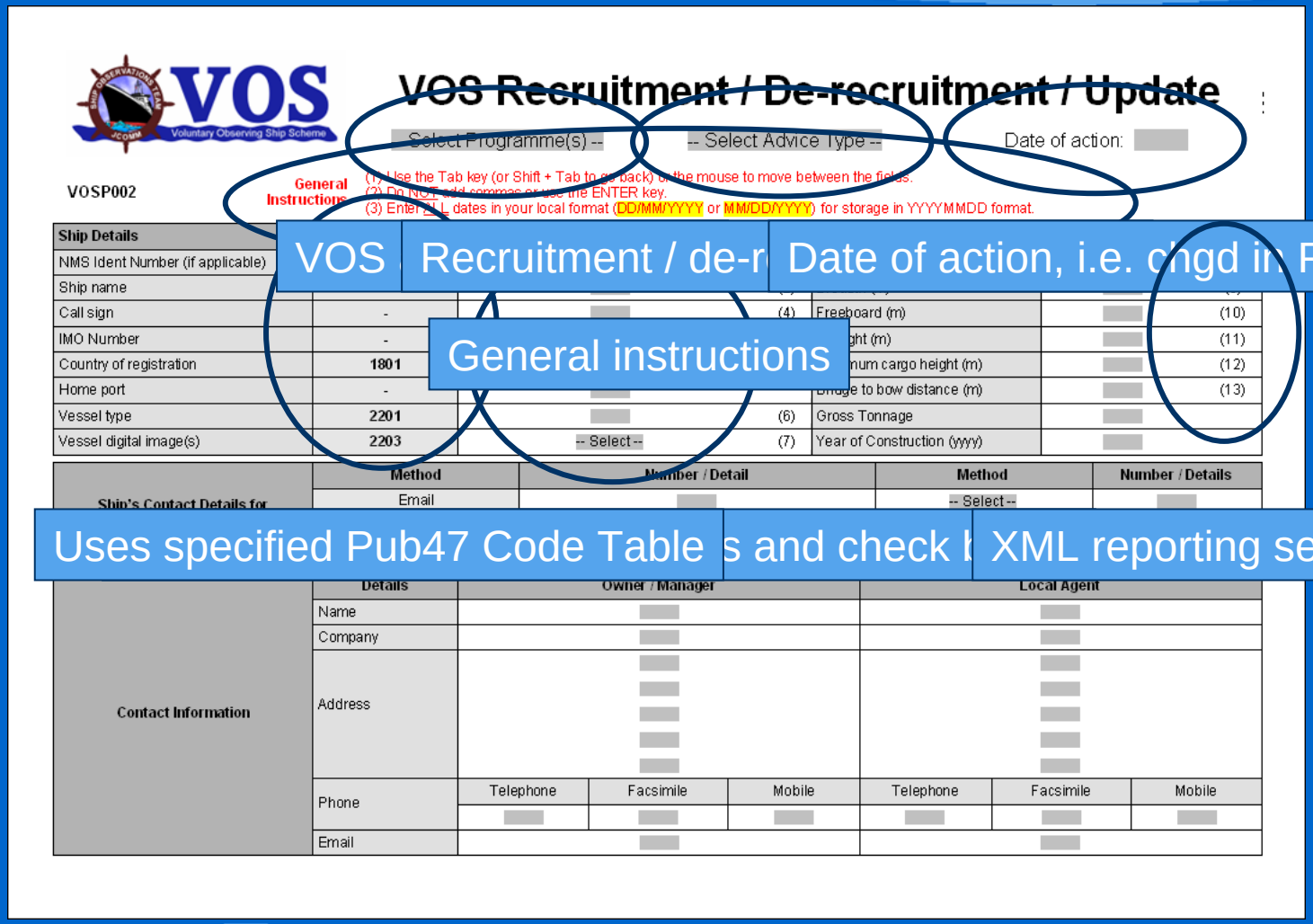
Graeme Ball
Chair SOT

Outline

- VOS Form VOSP002
- VOSP002 Metadata Viewer
- Pub47 XML Generator

VOS Form VOSP002

VOSP002 – Page 1



VOS Voluntary Observing Ship Scheme

VOS Recruitment / De-recruitment / Update

-- Select Programme(s) -- -- Select Advice Type -- Date of action:

VOSP002

General Instructions

(1) Use the Tab key (or Shift + Tab to go back) or the mouse to move between the fields.
(2) Do NOT add commas or use the ENTER key.
(3) Enter all dates in your local format (DD/MM/YYYY or MM/DD/YYYY) for storage in YYYYMMDD format.

Ship Details						
NMS Ident Number (if applicable)						
Ship name						
Call sign	-		(4)	Freeboard (m)		(10)
IMO Number	-			ght (m)		(11)
Country of registration	1801			num cargo height (m)		(12)
Home port	-			Bridge to bow distance (m)		(13)
Vessel type	2201		(6)	Gross Tonnage		
Vessel digital image(s)	2203	-- Select --	(7)	Year of Construction (yyyy)		

Ship's Contact Details for	Method	Number / Detail	Method	Number / Details
	Email		-- Select --	

Contact Information	Details	Owner / Manager			Local Agent		
	Name						
	Company						
	Address						
	Phone	Telephone	Facsimile	Mobile	Telephone	Facsimile	Mobile
	Email						

VOS | Recruitment / de-r | Date of action, i.e. chgd in Pub47

General instructions

Uses specified Pub47 Code Table | s and check l | XML reporting sequence

VOSP002 – Page 2

Routes	Pub47 Code Table									
	1802	(14)	(15)	(16)	(17)	(18)				
		(19)	(20)	(21)	(22)	(23)				

Observing Program	Pub47 Code Table				Pub47 Code Table		
Country of recruitment	1801			Class of reporting ship	2202	-- Select --	(28)
Reporting frequency	0602	-- Select --	(30)	General observing practice	0105	-- Select --	(29)
Wind observing practice	0103	-- Select --	(34)	Visual observing height (m)	-		(33)
Observation transmission method	-	-- Select --	(31)				

Electronic Logbook Software		Computer (for electronic logbook software or AWS data entry)		
Type	Version	Owner	Make and model (NMS-owned only)	Serial number (NMS-owned only)
-- Select -- (32a)	(32b)	-- Select --		

Automatic Weather Station (AWS)			Pub47 Code Table	
AWS make and model	(36)	AWS baseline check	0203	-- Select -- (35)
AWS processing software	(37)	AWS display software		(38)

Barometer	Pub47 Code Table	Instrument 1		Instrument 2 (if applicable)	
Owner	-	-- Select --		-- Select --	
Type	0202	-- Select --	(39)	-- Select --	(45)
Make and model	-		(40)		(46)
Height above SLL (m)	-		(41)		(47)
Location	0204	-- Select --	(42)	-- Select --	(48)
Pressure units	-	-- Select --	(43)	-- Select --	(49)
Date of last performance check	-		(44)		(50)
Serial number (NMS-owned only)	-				

Barograph	Pub47 Code Table	Instrument 1		Instrument 2 (if applicable)	
Owner	-	-- Select --		-- Select --	
Type	0201	-- Select --	(71)	-- Select --	(72)
Make and model	-				
Serial number (NMS-owned only)	-				

VOSP002 – Page 3

Temperature	Pub47 Code Table	Instrument 1			Instrument 2 (if applicable)		
Owner	-	-- Select --			-- Select --		
Dry bulb thermometer type	2002	-- Select --		(51)	-- Select --		(57)
Hygrometer type	0802	-- Select --		(63)	-- Select --		(65)
Dry bulb make and model	-			(52)			(58)
Wet bulb make and model	-						
Dry bulb and wet bulb exposure	0801	-- Select --		(53 & 64)	-- Select --		(59 & 66)
Location of temperature screen	2001	-- Select --		(54)	-- Select --		(60)
Height above SLL (m)	-			(55)			(61)
Temperature reporting practice	2003	-- Select --		(56)	-- Select --		(62)
Serial number (NMS-owned only)	-	Screen	Dry bulb	Wet bulb	Screen	Dry bulb	Wet bulb

Sea Surface Temperature	Pub47 Code Table	Instrument 1		Instrument 2 (if applicable)	
Owner	-	-- Select --		-- Select --	
Method of observation	1901	-- Select --	(67)	-- Select --	(69)
Depth below SLL (m)	-		(68)		(70)
Serial number (NMS-owned only)	-				

Anemometer	Pub47 Code Table	Instrument 1			Instrument 2 (if applicable)		
Owner	-	-- Select --			-- Select --		
Type	0102	-- Select --		(73)	-- Select --		(82)
Make and model	-			(74)			(83)
Location	0101	-- Select --		(75)	-- Select --		(84)
Distance from bow (m)	-			(76)			(85)
Distance from centre line (m)	-			(77)			(86)
Side indicator from centre line	0104	-- Select --		(78)	-- Select --		(87)
Height above SLL (m)	-			(79)			(88)
Height above deck (m)	-			(80)			(89)
Date of last performance check	-			(81)			(90)
Serial number (NMS-owned only)	-	Cups	Vane		Cups	Vane	

VOSP002 – Page 4

Other Instrumentation	Pub47 Code Table				
	1501		(91)	Owner	-- Select --
			(92)	Owner	-- Select --
			(93)	Owner	-- Select --
			(94)	Owner	-- Select --
			(95)	Owner	-- Select --
			(96)	Owner	-- Select --

Footnotes	Pub47 Code Table	Use "Other Comments" if insufficient space		
	0601	-- Select --	Additional detail	
		-- Select --	Additional detail	
		-- Select --	Additional detail	
		-- Select --	Additional detail	
		-- Select --	Additional detail	
		-- Select --	Additional detail	

Digital Image Filenames (Refer to WMO No. 47 Metadata Format Version 03, Annex 6, for the SOT-approved filename convention and recommended suite of digital images)			
1		2	
3		4	
5		6	
7		8	
9		10	
11		12	
13		14	
15		16	

Other Comments	Publications Supplied to Ship	
	☐	☐
	☐	☐
	☐	☐
	☐	☐

Name/location of Port Meteorological Officer		Date of preparation	

Version 1.0, ABOM/GSB for SOT TT-VRPP, 5 May 2008.

Finish the form with a TAB

Extracting Data From VOSP002

"VOS + VOSClim","Update","20090330","","289.0","LOWLANDS PROSPERITY","45.0","ONDB","6.4","9225005","17.7","BE","9.8","ANTWERP","247.0","BC","86201","AV","2000","master.ondb@globeemail.com","Inmarsat C / Mini C","420541810","Mobile Phone","+61 4 2914 4833","-- Select --","","-- Select --","","-- Select --","","JOE BLOW","JACK FROST","ANGLO EASTERN SHIP MANAGEMENT","BARWIL UNITOR SHIP SERVICE","23F 248 QUEENS ROAD EAST","PO BOX 170","WANCHAI","PORT KEMBLA","HONG KONG","NSW 2505","","AUSTRALIA","","","+85 2 2863 611","+85 2 2861 2419","","+61 2 4275 1500","+61 2 4275 1011","","","ptkembla@wilhelmsen.com","R21","R22","R52","R53","R55","R56","","","","","","AU","10","FPD","5","3","22.3","Inmarsat C (SAC 41)","TurboWin","4.0","National Met Service","LENOVO","32221","","3","","","","National Met Service","-- Select --","DA","-- Select --","MECHANISM LTD MK II","","21.7","","CR","-- Select --","Mb","-- Select --","20090330","","CBM B533/84","","National Met Service","-- Select --","OS7","-- Select --","NEGRETTI + ZAMBRA","","CBM 486","","National Met Service","National Met Service","MER","MER","P","P","AMA","WIKA","AMA","WIKA","S","S","1","2","21.7","21.7","1","1","03/C0020","387333/502","9981001/751","03/C0032","137661/916","137697/961","Ship's own","-- Select --","C","-- Select --","16.0","","","","Ship's own","-- Select --","PV","-- Select --","UNKNOWN","","12","-- Select --","253.0","","2.0","","S","-- Select --","33.1","","9.6","","","","","","","","","XBT","National Met Service","","-- Select --","","-- Select --","","-- Select --","","-- Select --","thmE","PLASTIC SCREEN (Port & Stdb)","hgrE","PLASTIC SCREEN (Port & Stbd)","-- Select --","","-- Select --","","-- Select --","","-- Select --","","009225005_port_wing_screen_20050713.jpg","009225005_stbd_wing_screen_20050713.jpg","009225005_port_profile_from_bow_20050713.jpg","009225005_barometer+barograph_20050713.jpg","DA CASE LOCATED ON PORT SIDE WINDOW SILL IN CHART ROOM. PLASTIC SCREENS BOTH SIDES.",1,"MARINE OBSERVERS HANDBOOK",1,"SHIPS CODE CARD",1,"CLOUD CHART",1,"STATE OF SEA BOOKLET",0,"",0,"",0,"",0,"","PMA SYDNEY ","20090331"

VOSP002 Metadata Viewer

Instructions

VOSP002 Metadata Viewer (v1)

General

1 Select Enable Macros when the spreadsheet opens.
2 If an opening message advises that macros are disabled, select Tools >> Macro >> Security >> Medium. Close then reopen the spreadsheet.
3 To keep a record of the VOSP002 metadata for this ship, save this spreadsheet as "9225005 - VOSP002 Viewer.xls

Extract data from Form VOSP002

1 Open the Form VOSP002 containing the data you want to extract.
2 From the Word menu bar, select Tools >> Options >> Save >> Save data only for forms. Do not change any other settings. Press OK.
3 From the Word menu bar, select File >> Save Copy As. Select the destination and name of the TXT file. Press Save.

CSV Data sheet

1 Highlight the entire rows 1 & 2 and press the delete key to remove the existing data. Click in cell A1.
2 Import the new CSV VOSP002 metadata using Data >> Import External Data >> Import Data >> TXT file created above.
Text Import Wizard Step 1 of 3: Original data type = Delimited | Start at Row: 1 | File Origin: Windows (ANSI). Press Next.
Text Import Wizard Step 2 of 3: Delimiters = comma | Text qualifier = ". Press Next.
Text Import Wizard Step 3 of 3: Select each date column in the Data preview window and set Column data format = Text. Press Finish.
Import Data: Existing worksheet: =A1. Press OK.
3 Press CTRL+M to replace any occurrence of the & symbol in the new CSV VOSP002 metadata with the + symbol.
4 Copy (CTRL+C) the entire row 1 to the next blank row under Past VOSP002 returns to maintain a permanent record of the metadata.
5 Copy (CTRL+C) the previous row of CSV VOSP002 metadata then paste (CTRL+V) into row 2 (A2).
6 Add the recruitment and de-recruitment dates for the VOS and VOSClim in cells B4, B5, B7 & B8 as appropriate.

Viewer sheet

1 Select the VIEWER tab to compare the new and previous CSV VOSP002 metadata sets.
2 Any changes between successive metadata sets will be indicated by CHANGED in the cells with a red background.

Pub47 sheet

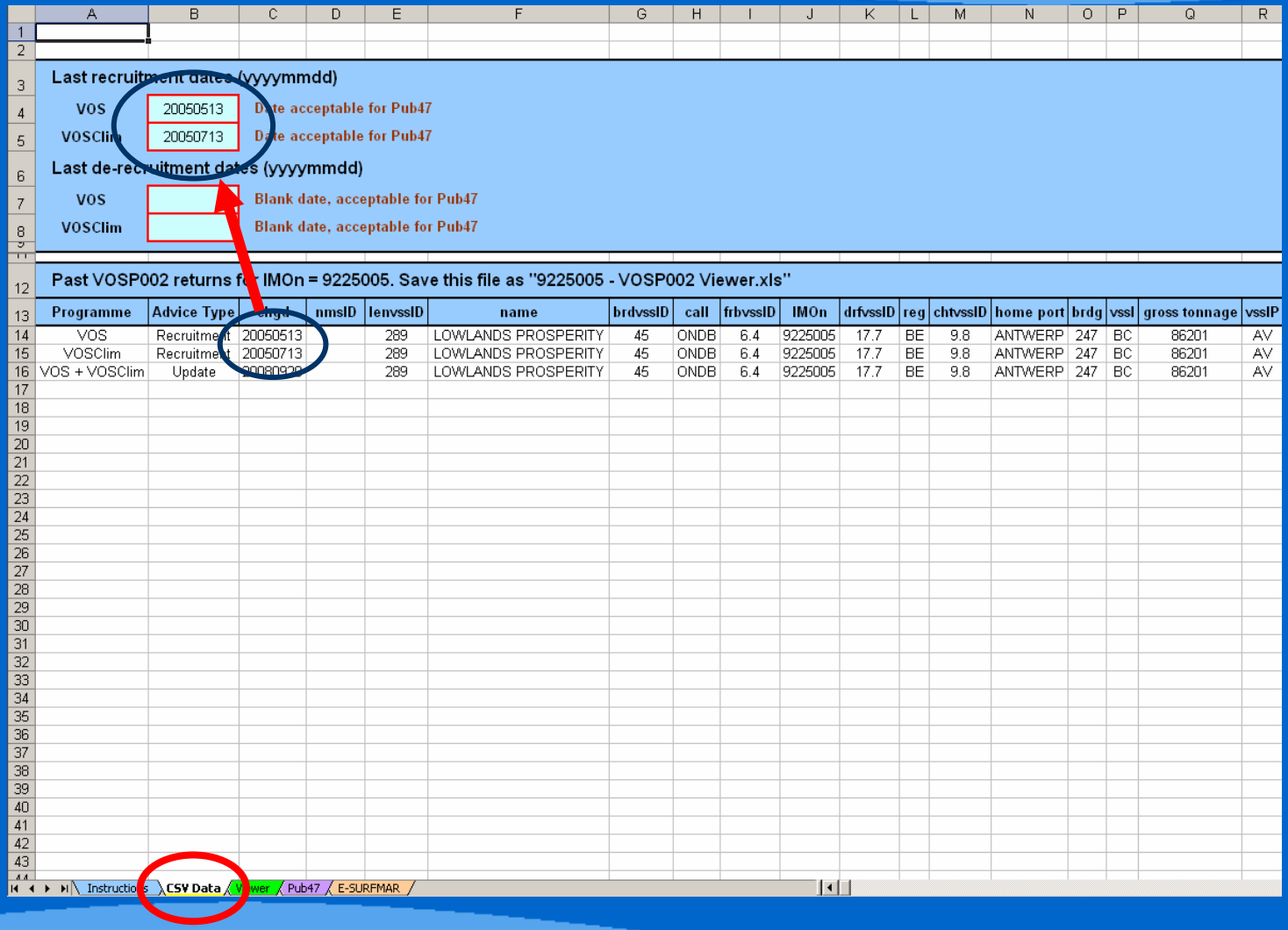
1 Update the footnotes in cells D7-D29 & F7-F29 as appropriate. The footnotes extracted from the Form VOSP002 are listed for reference in cells B7-B12.
2 Select row 3. Press CTRL+C to copy the row.
3 Paste the selection into the first blank row on the Metadata sheet in the Pub47 XML Generator using Edit >> Paste Special >> Values.

E-SURFMAR sheet

1 Copy (CTRL+C) the entire row 2.
2 Paste (CTRL+V) into a text editor and name the file as suggested in row 1.
3 Import into the E-SURFMAR database using the appropriate CSV import facility.

Developed by Graeme Ball, ABOM, 20 May 2008, for the SOT Task Team on VOS Recruitment & Programme Promotion (TT-VRPP).

Metadata Archive & Date Initialisation



Last recruitment dates (yyyymmdd)

VOS	20050513	Date acceptable for Pub47
VOSClim	20050713	Date acceptable for Pub47

Last de-recruitment dates (yyyymmdd)

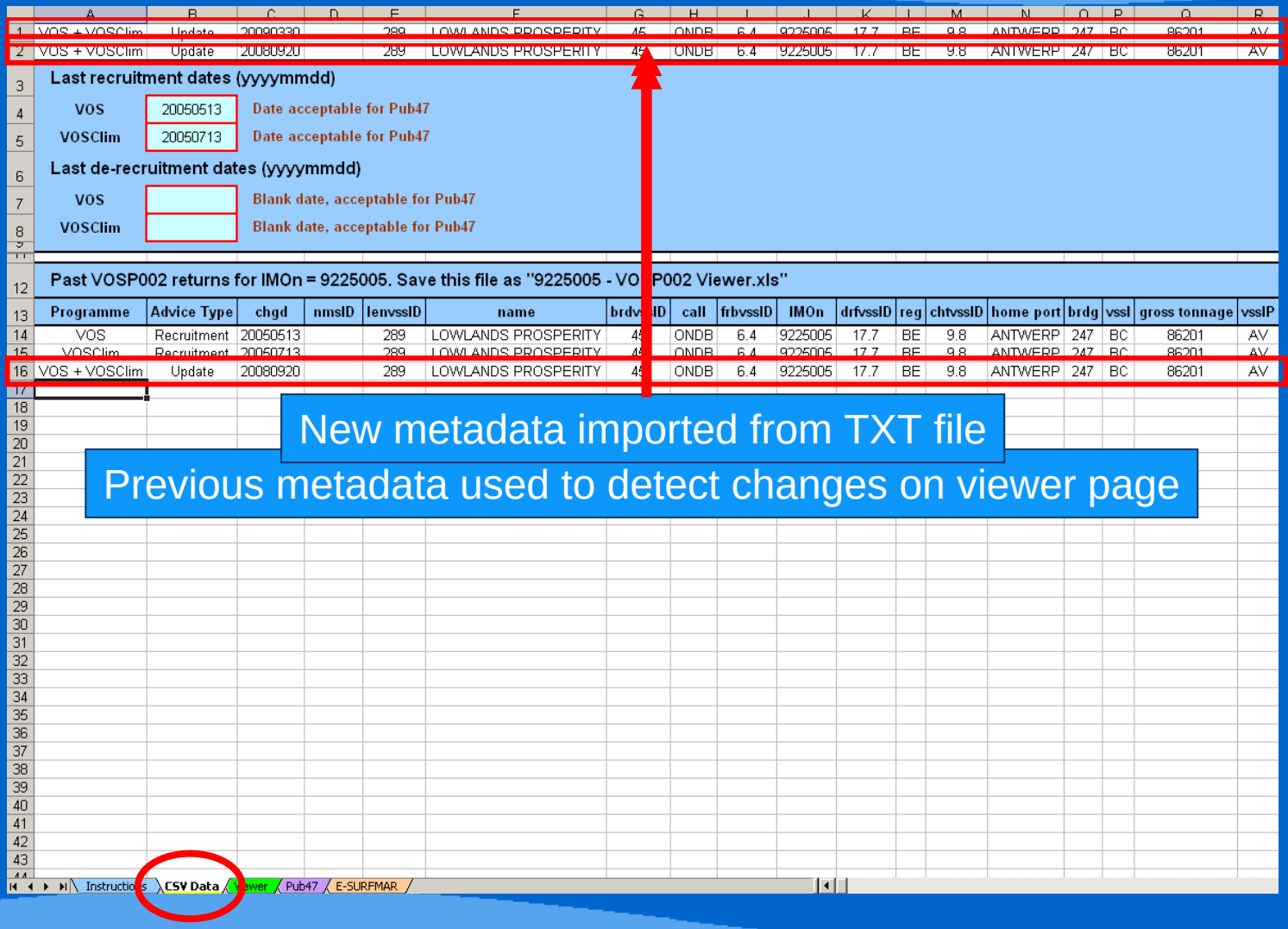
VOS		Blank date, acceptable for Pub47
VOSClim		Blank date, acceptable for Pub47

Past VOSP002 returns for IMOn = 9225005. Save this file as "9225005 - VOSP002 Viewer.xls"

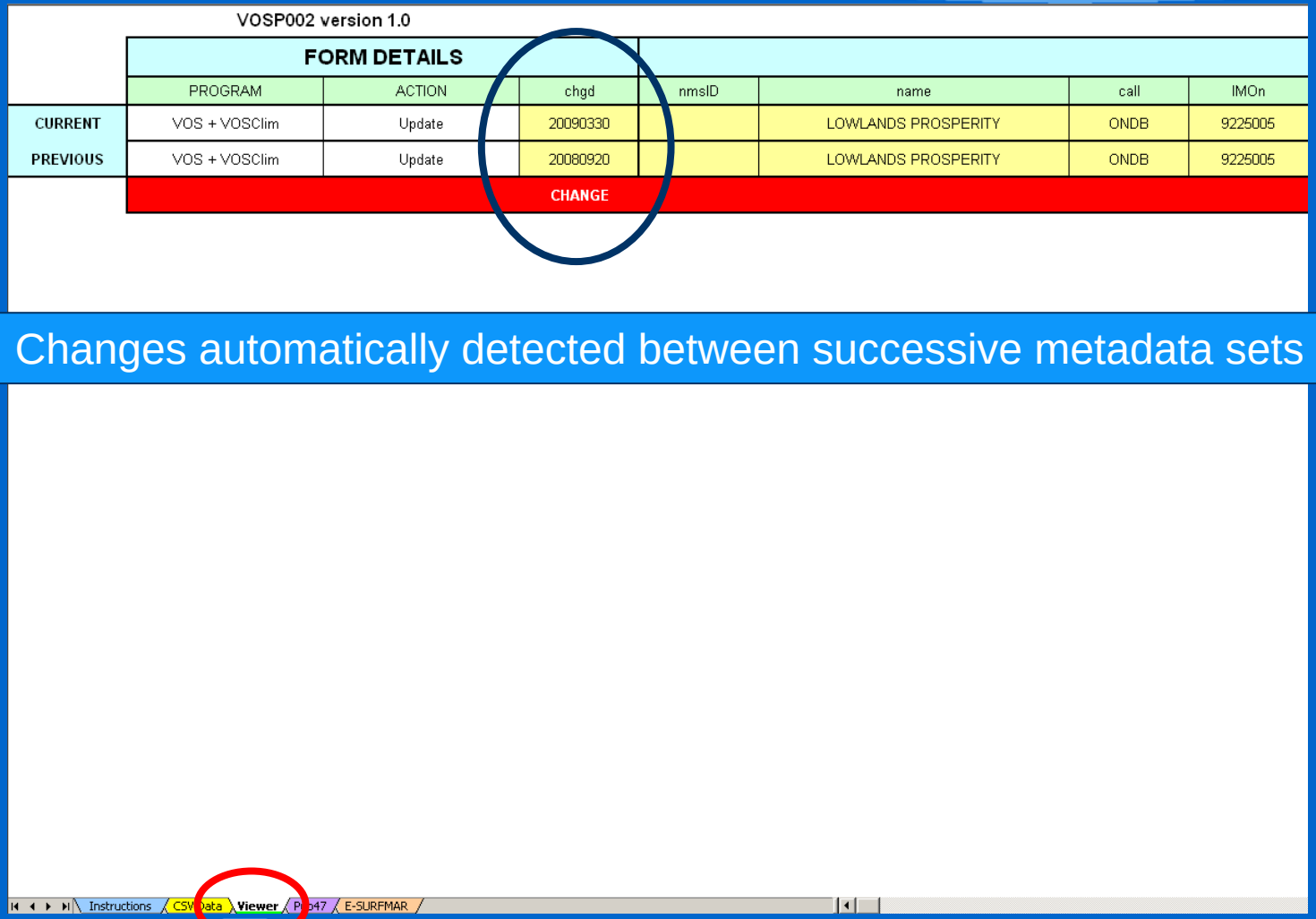
Programme	Advice Type	engd	nmsID	lenvssID	name	brdvssID	call	frbvssID	IMOn	drfvssID	reg	chtvssID	home port	brdg	vssl	gross tonnage	vssIP
VOS	Recruitment	20050513		289	LOWLANDS PROSPERITY	45	ONDB	6.4	9225005	17.7	BE	9.8	ANTWERP	247	BC	86201	AV
VOSClim	Recruitment	20050713		289	LOWLANDS PROSPERITY	45	ONDB	6.4	9225005	17.7	BE	9.8	ANTWERP	247	BC	86201	AV
VOS + VOSClim	Update	20080930		289	LOWLANDS PROSPERITY	45	ONDB	6.4	9225005	17.7	BE	9.8	ANTWERP	247	BC	86201	AV

Instructions | CSV Data | Viewer | Pub47 | E-SURFMAR

Adding Metadata



Detecting Metadata Changes



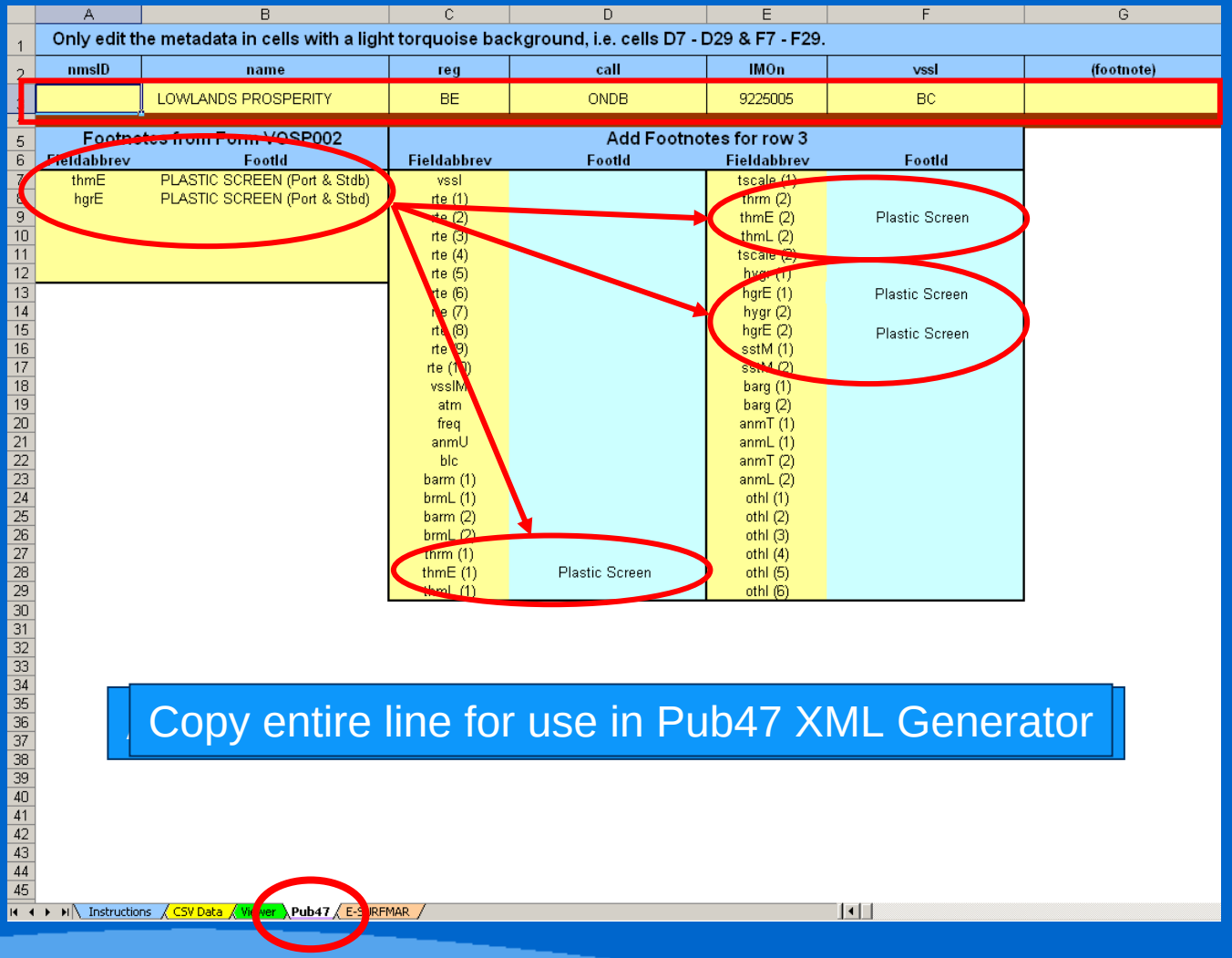
VOSP002 version 1.0

	FORM DETAILS						
	PROGRAM	ACTION	chgd	nmsID	name	call	IMOn
CURRENT	VOS + VOSClim	Update	20090330		LOWLANDS PROSPERITY	ONDB	9225005
PREVIOUS	VOS + VOSClim	Update	20080920		LOWLANDS PROSPERITY	ONDB	9225005
	CHANGE						

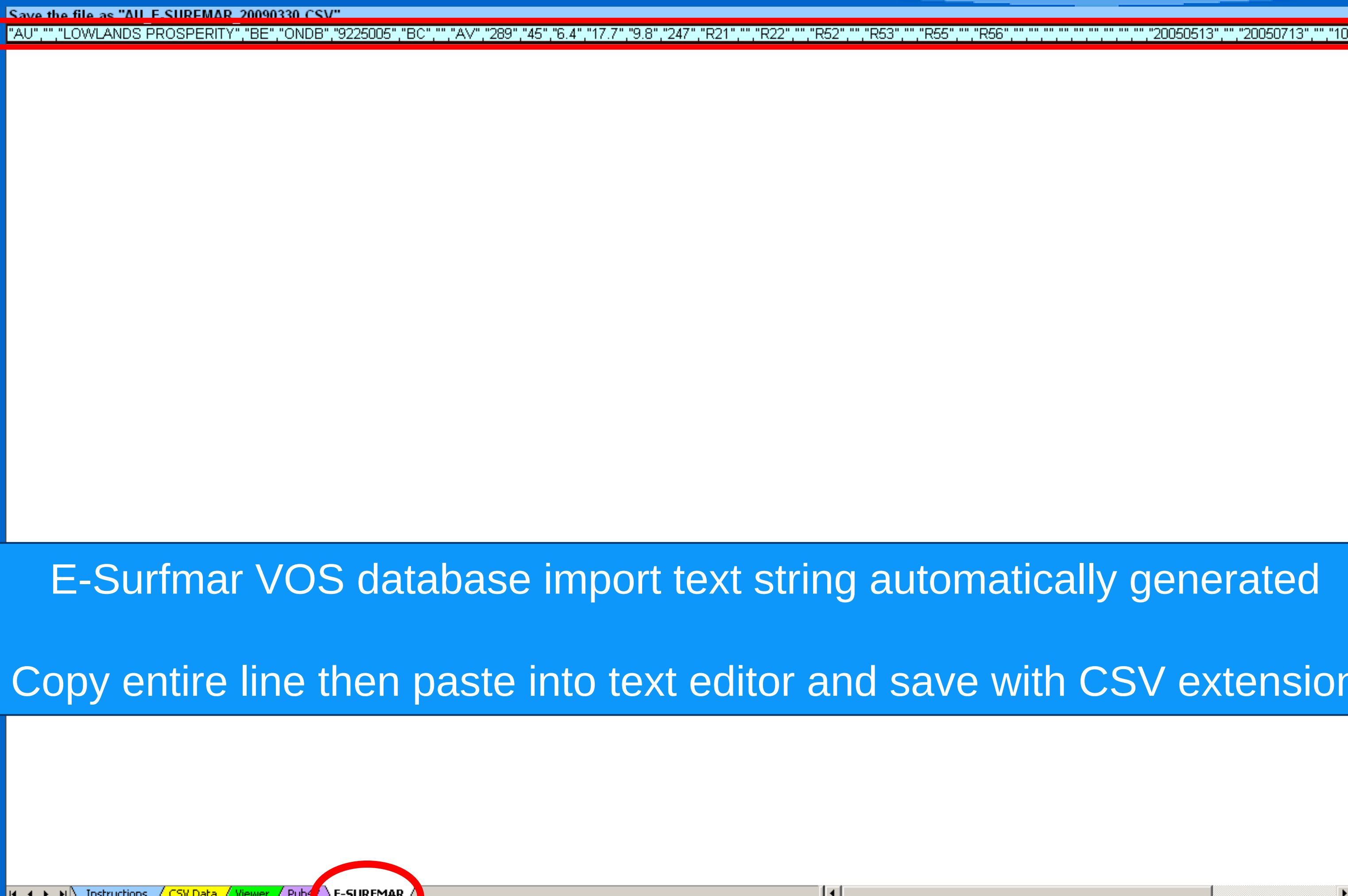
Changes automatically detected between successive metadata sets

Instructions | CSV Data | Viewer | P1047 | E-SURFMAR

Metadata For Pub47 XML Generator



Metadata For E-Surfmar VOS Database



E-Surfmar VOS database import text string automatically generated

Copy entire line then paste into text editor and save with CSV extension

Pub47 XML Generator

Instructions

WMO No. 47 Metadata Version 3 XML Generator (v2)

This spreadsheet can be used as a "stand-alone" product or used in conjunction with form VOSP002 and the VOSP002 CSV Viewer (v1) spreadsheet.

General

1 Select Enable Macros when the spreadsheet opens.
2 If an opening message advises that macros are disabled, select Tools >> Macro >> Security >> Medium. Close then reopen the spreadsheet.

Metadata sheet

1 Set the RCNTY (recruiting country) in cell F1. Use the 2 character code from WMO No. 47 Metadata Version 3 Table 1801.
2 Only add or edit metadata in cells with a light torquoise background. Note: Do not use the & symbol, if necessary use the + symbol.
3 Add a new record in the first blank row.
4 Delete a record by clicking the row number (this selects the entire row) and pressing the DELETE key.
5 When finished adding or deleting a ship, press CTRL+S to automatically sort the ships alphabetically by name.

XML Report sheet

1 Press CTRL+X to simultaneously select and copy the formatted metadata.
2 Paste into a text editor then delete all blank rows. Note: the last line is not blank.
3 Save the file using the filename proposed in the first row.
4 Send the XML file as an email attachment to pub47@wmo.int .
5 Submit the XML file to WMO by 15 January, 15 April, 15 July, 15 October and valid at the end of month prior to the due date.

Developed by Graeme Ball, ABOM, 17 May 2008, for the SOT Task Team on Metadata for WMO No. 47 (TT-Pub47).

Tabulated Metadata for Pub47

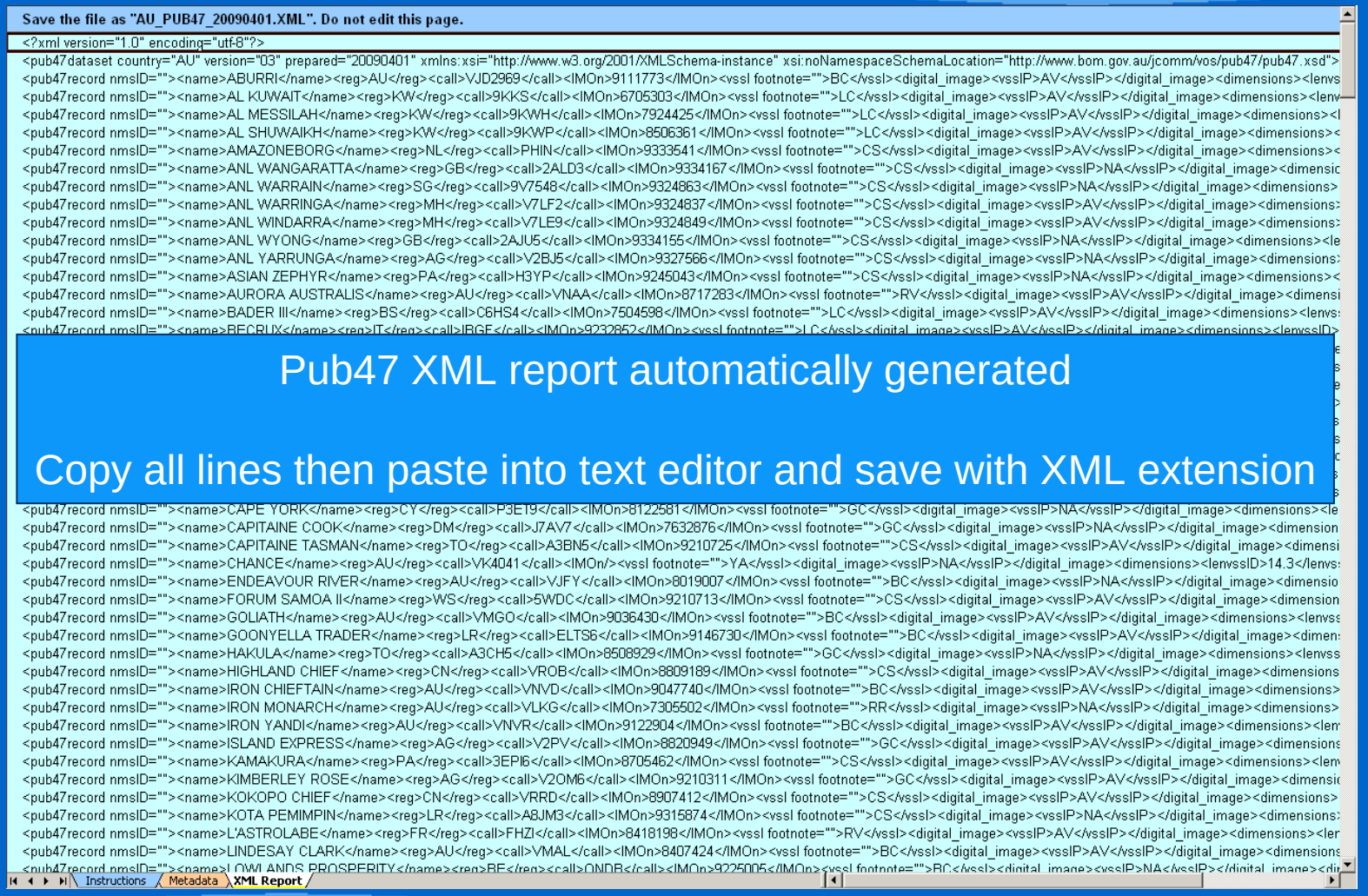
Manually add metadata or paste special>>values
the Pub47 output from the VOSP002 Metadata Viewer

Current date automatically inserted for use as report date

nmsID	name	reg	call	IMOn	vssl	(footnote)	vssIP	lenvssID	brdvssID	frbvssID	drfvssID	chtvssID	brdg	rte(1)	(footnote)	rte(2)	(footnote)
	ABURRI	AU	VJD2969	9111773	BC		AV							R52			
	AL KUWAIT	KW	9KKS	6706303	LC		AV	196.0	37.1	17.8	9.0	19.0	32.0	R11		R14	
	AL MESSILAH																
	AL SHUWAIKH																
	AMAZONEBORG																
	ANL WANGARATTA	GB	2ALD3	9334167	CS		NA	260.0	32.2	4.5	12.6	25.0	192.1	R21		R22	
	ANL WARRAIN	SG	9V7548	9324863	CS		NA	260.6	32.2	6.7	12.6	28.0	190.0	R21		R22	
	ANL WARRINGA	MH	V7LF2	9324837	CS		AV	246.8	32.3	5.0	12.6	26.0	191.5	R52		R53	
	ANL WINDARRA	MH	V7LE9	9324849	CS		AV	260.0	32.3	5.0	12.6	26.0	191.5	R52		R53	
	ANL WYONG	GB	2AJU5	9334155	CS		NA	260.0	33.2	4.5	12.6	25.0	192.1	R21		R22	
	ANL YARRUNGA	AG	V2BJ5	9327566	CS		NA	147.9	23.3	3.4	8.5	21.6	135.5	R55			
	ASIAN ZEPHYR	PA	H3YP	9245043	CS		NA	161.9	25.6	3.8	9.1	20.0	132.1	R53		R56	
	AURORA AUSTRALIS	AU	VNAA	8717283	RV		AV	94.9	20.3	2.5	7.9		36.6	R16		R55	
	BADER III	BS	C6HS4	7504598	LC		AV	204.1	26.5	2.2	10.5	17.0	162.1	R11		R12	
	BECRUX	IT	IBGF	9232852	LC		AV	176.8	31.1	5.8	8.7	20.0	15.1	R11		R23	
	CAP BIANCO	LR	A8OK5	9341110	CS		NA	222.1	30.0	4.8	12.0	18.0	175.0	R13		R32	
	CAP BON	CY	C4PN2	9302956	CS		AV	210.0	30.1	5.3	11.5	20.0		R21		R22	
	CAP SARAY	GB	DCGL2	9299032	CS		NA	207.4	29.8	5.0	11.4	28.0	190.0	R43		R46	
	CAPE CONWAY	CY	P3FN9	8130253	CS		AV	169.5	27.0	4.5	10.0	16.0	141.0	R22		R52	
	CAPE DELFARO	MH	V7FN7	9235361	GC		NA	192.9	27.8	4.3	11.2	18.5	141.0	R21		R22	
	CAPE DELGADO	MH	V7CZ6	9235359	GC		NA	192.9	27.8	4.3	11.2	18.5	177.1	R21		R22	
	CAPE DONINGTON	MH	V7EC7	9231133	GC		NA	193.0	28.0	4.3	11.2	18.0	177.0	R21		R22	
	CAPE MORETON	MH	V7IA5	8012695	GC		NA	151.5	24.9	3.9	10.4	12.7	127.0	R22		R52	
	CAPE PRESTON	CY	P3BP9	8122579	GC		NA	169.5	27.0	4.5	10.0	16.0	141.0	R22		R52	
	CAPE YORK	CY	P3ET9	8122581	GC		NA	169.5	27.0	4.5	10.0	6.0	141.0	R22		R52	
	CAPITAINE COOK	DM	J7AV7	7632876	GC		NA	134.5	20.5	2.7	8.7	14.2	106.5	R52		R55	
	CAPITAINE TASMAN	TO	A3BN5	9210725	CS		AV	126.4	19.4	2.3	7.2	8.5	111.7	R54		R55	
	CHANCE	AU	VK4041		YA		NA	14.3	4.3	1.5	2.1			R92			
	ENDEAVOUR RIVER	AU	VJFY	8019007	BC		NA							R52		R55	
	FORUM SAMOA II	WS	5WDC	9210713	CS		AV	126.4	19.7	2.3	7.2	12.3	112.0	R52		R55	
	GOLIATH	AU	VMGO	9036430	BC		AV	143.0	23.5	3.6	8.3	3.6	109.8	R55			
	GOONYELLA TRADER	LR	ELTS6	9146730	BC		AV	288.0	45.0	6.0				R11		R12	
	HAKULA	TO	A3CH5	8508929	GC		NA	100.0	16.5	1.7	6.8	1.4	73.4	R55			
	HIGHLAND CHIEF	CN	VROB	8809189	CS		AV	158.0	22.0	3.0	7.9	18.0	137.0	R52		R53	
	IRON CHIEFTAIN	AU	VNVD	9047740	BC		AV	202.0	32.0	7.2	12.0		162.0	R55			
	IRON MONARCH	AU	VLKG	7305602	BB		NA	179.3	25.0	1.0	9.0	8.0	87.5	R55			

Instructions | Metadata | XML Report

Pub47 XML Report



SHIP OBSERVATIONS TEAM
JCOMM