Joint Tactical Exercise Planning Staff



JTEPS JW112

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7 September 2011

JOINT WARRIOR 112 - SUBMARINE, MINEWARFARE AND LIVE FIRING ACTIVITY

- 1. Joint Warrior (JW) 112, will take place from 3 until 13 October 2011 and will comprise of a programme of exercises conducted by land forces, warships, submarines and aircraft across the UK with the maritime element focussed in the offshore and coastal waters to the north east, north and north west of Scotland. This booklet provides outline information on their scheduled operations as well as details of intended gunnery and aircraft bombing activity at Cape Wrath and in some open ocean areas.
- 2. The information is correct at the time of going to print but the routine **SUBFACTS** and **GUNFACTS** broadcasts, made during the exercise, will provide updated information.
- 3. The information provided in this booklet will also be published in Fleet Ops Notice to Fishermen, Defence Training Estate Scotland Notice to Fishermen and Cape Wrath Range Notices. This document is also on the internet at http://www.ghm.mod.uk/clyde
- 4. This booklet contains the following sections:
 - a. Submarine Activity.
 - b. Warship Activity.
 - c. Minewarfare Activity.
 - d. Live Firing and Gunnery Activity.
 - e. Denial GPS Services.
 - f. Unexploded Ordnance Advice.
- 5. The warships taking part have been instructed to offer fishing vessels every assistance in their dealings with exercise activity, especially when in the vicinity of submarines or participants conducting live firing. You are invited to contact them as required to ensure that our two activities do not come into conflict.

6. Throughout JW 112 the following points of contact are available to attend to any immediate problems or questions:

Duty Submarine Controller

01923 956366

Joint Warrior Duty Controller

01436 674321 ext. 4372

HM Coastguard at Clyde, Stornoway and Aberdeen can also contact my staff directly and will relay information if necessary.

7. If you have any queries, problems, or suggestions as to how JTEPS can improve this booklet, please do not hesitate to contact my Staff Officer Submarines at the above address.

P J Titterton OBE Captain Royal Navy Director JTEPS

Submarine Activity

- 1. The Submarine Activity Grid on the following page shows the areas and time periods where submarine activity associated with Joint Warrior is forecast. Please note that other submarines that are not part of the exercise may transit the areas north west of Scotland; their activity is not covered in this brief. The daily SUBFACTS broadcast by the Coastguard will provide notification of the actual areas where <u>all</u> submarine activity is taking place. During Joint Warrior, in order to keep the SUBFACTS broadcast short, a number Scottish Exercise Areas are grouped together. The groupings are shown in the chartlet and table in this section.
- 2. Communications can be established with submarines during JW, when they are surfaced or at periscope depth, on VHF Ch 16 (working Ch 73). In the event that they are operating with warships, one of the warships will have been detailed to act as the Fishing Vessel Safety Ship (FVSS) in accordance with the Code of Practice. The FVSS has two overarching duties:
 - a. To make fishing vessels aware of submarine activity in their vicinity and to provide information and advice to minimise the risk of interaction.
 - b. To provide assistance to the participating submarine in compiling a comprehensive surface picture in order to minimise the risk of interaction with non-exercise vessels.
- 3. It is usually easier to establish communications with the FVSS than with a submarine. However, any warship in the vicinity may be contacted and asked for a report on any exercises involving submarines which are being conducted in the local area. Alternatively, the ship may be used to relay messages or instructions to the submarine if required.

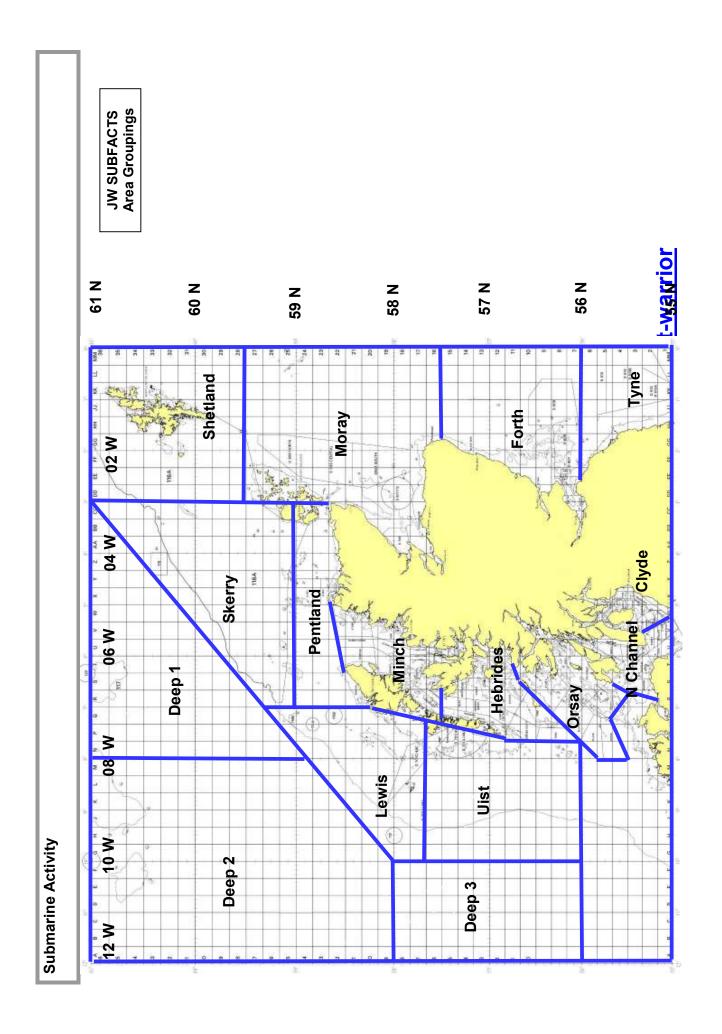
Submarine Activity

Exercise Joint Warrior 112
SUBFACTS AREAS ACTIVATION GRID

13 OCT	THR	080 - 1000 0080 - 1000 080 - 1000	۷ ۷	۷ ۷	۷ ۷	۷ ۷	∀		A A						۷ ۷		
12 OCT	WED	0080 - 1000	۷ ۷	∢	۷ ۷	۷ ۷	۷ ۷		⋖						∢		
11 OCT	TUE	0001 - 0000	⋖		4 4	۷ ۷	4	⋖	A A	4							
10 OCT	MON	0080 - 1000 0080 - 0080 0080 - 0080			4 4 4	۷ ۷ ۷		4 4 4	A A A	4 4 4	4	4					
9 OCT	SUN	0091 - 0000 0090 - 1000			۷ ۷ ۷	4 4 4		4 4 4	A A	4 4 4	4 4 4	4 4 4					
8 OCT	SAT	0001 - 0000			۷ ۷ ۷	4 4		4 4	A A	4 4	4 4	A A					
7 OCT	FRI	0001 - 0000 0800 - 1600 1600 - 2359			4 4	۷ ۷ ۷		4 4	A A A	4 4	4 4	A A					
6 OCT	THR	0001 - 0000 0000 - 1000			В	۷ ۷ ۷	۷ ۷	4	A A A	4	4	4					
5 OCT	WED	0001 - 0000 0000 - 1600			4 4 4	4 4 4	۷ ۷ ۷		4								
4 OCT	TUE	0001 - 0000 0000 - 1000	۷ ۷	4	4 4	4 4 4	۷ ۷										
3 OCT	MON	0001 - 0000 0000 - 1000	۷ ۷ ۷	۷ ۷	4												
2 OCT	SUN	0080 - 1000 0080 - 1000 080 - 3559	4	4													
		Active Time Period BST	ORSAY	N.CHANNEL	HEBRIDES	MINCH	UIST	LEWIS	PENTLAND	SKERRY	DEEP 1	DEEP 2	DEEP 3	SHETLAND	MORAY	FORTH	

The planned activity in the JW SUBFACTS AREAS is indicated by the letter **A** in the grid above. There may be changes to this planned activity. Daily SUBFACTS Broadcasts will contain the most up to date information regarding the activation of the areas.

Submarine Activity



SCOTTISH EXERCISE AREAS - JW SUBFACTS GROUPING

CLYDE

BALLANTRAE	AYR	TARBERT
AILSA	BRODICK	MINARD
STAFNISH	IRVINE	FYNE
PLADDA	LAGGAN	WEST KYLE
TURNBERRY	GARROCH	EAST KYLE
DAVAAR	LOCHRANZA	CUMBRAE
LAMLASH	SKIPNESS	STRIVEN
GOIL	ROSNEATH	GARELOCH

ORSAY

COVE

STAFFA	EIGG	COLONSAY
MULL	JURA SOUND	LINNHE
BLACKSTONE	PLACE	BOYLE
MACKENZIE	ORSAY	

NORTH CHANNEL

ISLAY	OTTER	GIGHA
EARADALE	KINTYRE	SKERRIES
RATHLIN	MAIDEN	CORSEWALL
MAGEE	BEAUFORT	ARDGLASS
PEEL	MERMAID	SANDA
TORR		

HEBRIDES

USHENISH	NEIST	BRACADALE
CANNA	RHUM	SLEAT
HEBRIDES NORTH	HEBRIDES CENTRAL	HEBRIDES SOUTH
TIREE	HAWES	EIGG

MINCH

BARRA

RONA NORTH	RONA SOUTH	RONA WEST
RAASAY	TIUMPAN	STOER
SHIANT	EWE	MINCH NORTH
MINCH SOUTH	PORTREE	TRODDAY
LOCHMADDY	DUNVEGAN	CROWLIN

FORD

Warship Activity

VHF Challenges

1. In light of ever changing threats to our Armed Forces, military ships maintain a detailed plot of maritime activity in their vicinity, which includes establishing the identity of small fishing vessels. This can be achieved visually from helicopters or by challenges on IMM VHF radio by ships. Mariners are advised that warships from various Allied Nations will be conducting such reconnaissance and challenges. Areas likely to be affected are the Clyde, North Channel, South of the Sea of Hebrides, the Sea of Hebrides, the Little Minch, North Minch, the area near Cape Wrath, Loch Eriboll and the Outer Hebrides. Mariner's co-operation during this time would be much appreciated. A small number of contracted civilian vessels including high speed craft will be operating in the vicinity of the Minches in support of this training task. Every effort will be made to avoid interference to fishing vessels.

Smoke Screens

2. Exercise smoke screens will be operated in Clyde exercise areas Laggan, Garroch, Brodick, Irvine, Lamlash and Ayr on Tuesday 4 October between 0700 and 1900. These smoke screens are non-toxic and will not be persistent in nature. The smoke screens will extend to a height of approximately 1000ft with a length of approximately 1000yds and will dissipate approximately 5 minutes after production.

- 1. Mine Counter Measures (MCM) vessels will conduct minehunting exercises using sonar and towed sweeps to look for potential mines both on the seabed and moored to the seabed that are subsequently investigated by remote controlled submersible vehicles and divers.
- 2. Towed sweeps for minesweeping will be used during JW 112.
- 3. All participating MCM vessels will be thoroughly briefed on local fishing operations in advance of the exercise and are instructed to make early liaison calls to fishing vessels on VHF. Skippers of fishing vessels operating in the vicinity of these ships are encouraged to talk to them and discuss intentions.
- 4. If any difficulty is experienced a call should be made to the Duty Submarine Controller at CTF 311 OPS ROOM on the "Fishermen's Hotline" number, 01923 956366. This line is permanently manned.
- 5. The following MCM vessels will participate in Ex JW 112:

<u>Name</u>	<u>Nationality</u>	Pennant No.
HMS PENZANCE	British	M106
HMS CATTISTOCK	British	M31
HMS LEDBURY	British	M30
HMS BLYTH	British	M111
HMS HURWORTH	British	M39
ENS TASUJA	Estonian	A432
FGS UEBERRHERN	German	M1095
ORP FLAMING	Polish	621
HNOMS MAALOEY	Norwegian	M342

- 6. Inert mines have been laid for the exercise, in the following areas:
 - a. **LOCH EWE** (see chartlet 1)

All areas within Loch Ewe between latitudes 57 52.28N and 57 49.20N

b. **LOCH EWE APPROACH** (see chartlet 1)

1000 yards either side of a line: A. 58 00.00N 005 46.00W B. 57 55.00N 005 43.80W

c. **CARN SKERRIES/HORSE ISLAND** (see chartlet 1)

A. 57 57.94N 005 20.08W
B. 57 57.55N 005 20.57W
C. 57 58.44N 005 23.08W
D. 57 58.84N 005 22.58 W

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d. EILEAN DUBH (see chartlet 1)
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- A. 57 59.23N 005 25.60W
- B. 57 58.85N 005 25.50W
- C. 57 58.75N 005 26.84W
- D. 57 59.60N 005 26.90W

e. **PRIEST ISLAND (SOUTH)** (see chartlet 1)

- A. 57 56.91N 005 31.48W
- B. 57 56.50N 005 31.82W
- C. 57 56.83N 005 33.32W
- D. 57 57.27N 005 33.00W

f. **GRUINARD BAY APPROACH** (see chartlet 1)

- A. 57 56.24N 005 28.57W
- B. 57 55.80N 005 28.91W
- C. 57 56.25N 005 30.70W
- D. 57 56.68N 005 30.46W

g. **GRUINARD BAY** (see chartlet 1)

- A. 57 54.00N 005 29.61W
- B. 57 52.80N 005 29.61W
- C. 57 52.80N 005 30.80W
- D. 57 53.02N 005 30.80W
- E. 67 53.02N 005 30.00W
- F. 57 54.00N 005 30.00W

h. **BROAD BAY** (see chartlet 3)

- A. 58 16.60N 006 14.60W
- B. 58 16.60N 006 12.20W
- C. 58 15.40N 006 12.20W
- D. 58 15.40N 006 12.20W

i. LOCH ERIBOLL APPROACH (see chartlet 4)

- A. 58 42.97N 004 42.00W
- B. 58 34.00N 004 36.72W
- C. 58 31.96N 004 38.16W
- D. 58 29.70N 004 41.30W

j. LOCH ERIBOLL ANCHORAGE (NORTH) (see chartlet 4)

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A. 58 33.30N 004 38.00W
B. 58 33.30N 004 36.40W
C. 58 32.00N 004 36.40W
D. 58 32.00N 004 38.00W
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- 7. The planned minelay and recovery programme:
 - a. **Minelay**. Has been completed.
 - b. **Mine recovery**. Mines will be recovered throughout JW 112.
- 8. Minehunters will conduct live firings of mine disposal charges in the following area:
 - a. MINE DISPOSAL CHARGE FIRING AREA (see chartlet 1)

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A. 57 57.58N 005 33.93W
B. 57 57.85N 005 33.93W
C. 57 58.25N 005 31.97W
D. 57 57.02N 005 31.97W
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- b. **DIVER PLACED CHARGES FIRING AREA** in Loch EWE will take place within a circle, with a radius of 200m, centred on 57 48.200N 005 38.900W.
- 9. Minesweeping will take place during JW 112 and will be restricted to the following corridors:
 - a. **EAST SHIANT BANK** (see chartlet 2)

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1000 yds either side of a line: A. 57 56.38N 006 08.40W B. 58 02.80N 005 59.60W
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b. **LOCH EWE APPROACH** (see chartlet 1/2)

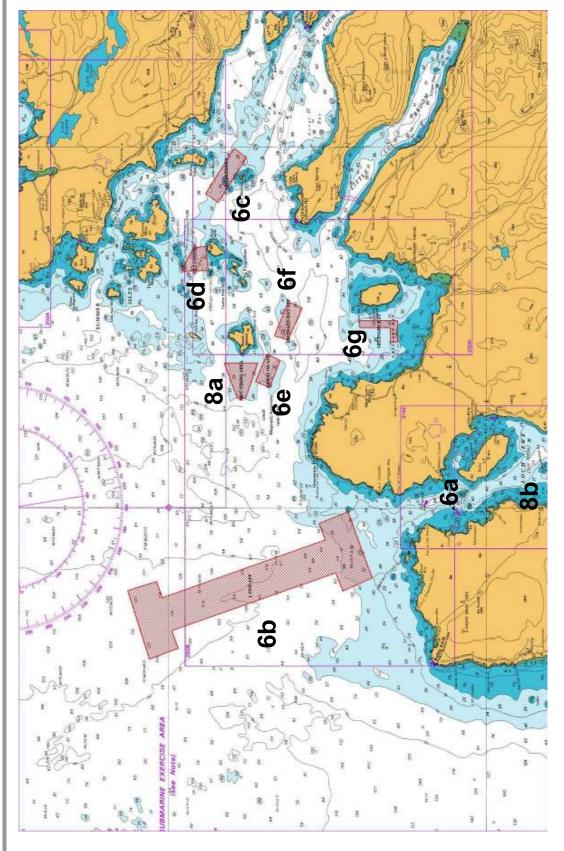
1000 yds either side of a line:	Α.	58 00.00N	005 46.00W
	R	57 55 00N	005 43 80W

To enable ships to turn at the end of the corridor, turning areas have been added. The sweeping corridor will therefore be within the following co-ordinates:

A.	57 53.60N	005 44.00W	B.	57 54.30N	005 40.40W
C.	57 55.10N	005 41.00W	D.	57 55.10N	005 41.80W
E.	58 00.20N	005 45.00W	F.	58 00.38N	005 44.10W
G.	58 01.28N	005 44.60W	H.	58 00.60N	005 48.40W
I.	57 59.70N	005 47.80W	J.	57 59.90N	005 46.82W
K.	57 54.75N	005 43.62W	L.	57 54.55N	005 44.60W

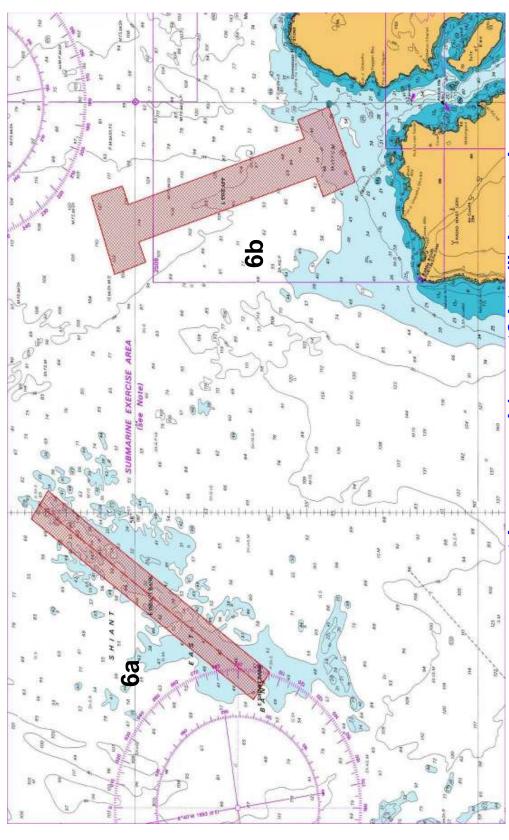
10. Liaison between the MoD and appropriate fishermen's associations/organisations, in some cases with individual owners/skippers, HM Coastguard and Marine Scotland have

been made to use the above areas. Should anyone consider that their organisation/association should be included in this process in future please contact Lieutenant Commander Matt Offord (FOSNNI SMCDO) on 01436 674321 extn 6510.



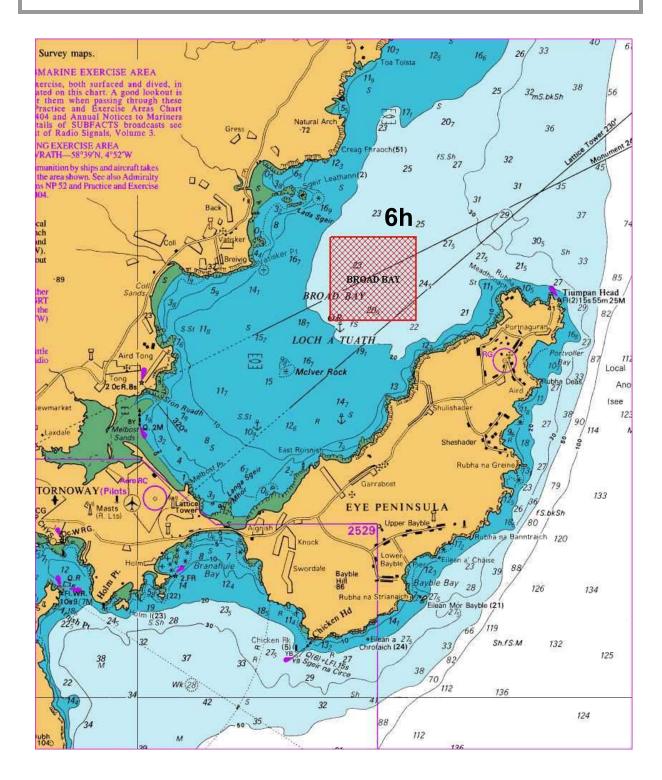
www.secret-bases.co.uk/secret3.htm#joint-warrior

Chartlet 1

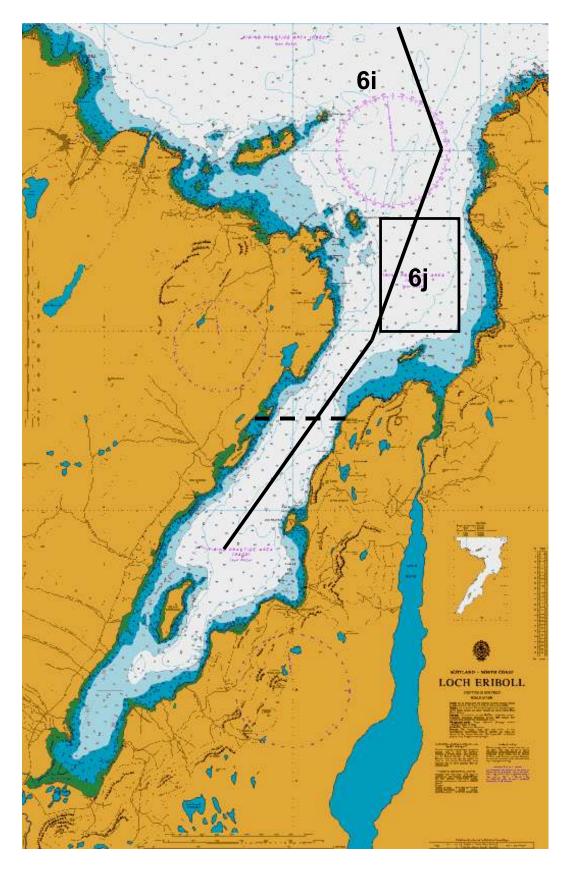


www.secret-bases.co.uk/secret3.htm#joint-warrior

Chartlet 2



Chartlet 3



www.secret-bases.co.uk/secret3.htm#joint-warrior

Minewarfare Activity		
Chartlet 4		

Live Firing and Gunnery

- 1. During Joint Warrior, Cape Wrath Range, including Garvie Island (An Garbh-eilean) will be active with various combinations of air bombardment, naval gunfire support and helicopter operations. In addition a Joint Warrior Firing and Danger Area will be activated for offshore gunnery. The Gunfacts and JW Offshore Firing Areas Activation Grid on the following page shows the areas and time periods where gunnery associated with Joint Warrior is forecast to take place. The daily GUNFACTS Broadcast by the Coastguard and Cape Wrath Range will provide notification of the actual areas where all the gunnery activity is taking place.
- 2. Joint Warrior Firing and Danger Area coordinates are in the accompanying chartlet.
- 3. It is mandatory that vessels in the vicinity of the Cape Wrath Range keep a listening watch on VHF Channel 16. Further information regarding firing at can be obtained by telephoning:

Cape Wrath Information Line on FREEPHONE 0800 833300.

or 01862 892185

The number will provide specific information about active/non-active periods and when the Range road (U70) will be open/closed for public access.

Live Firing and Gunnery

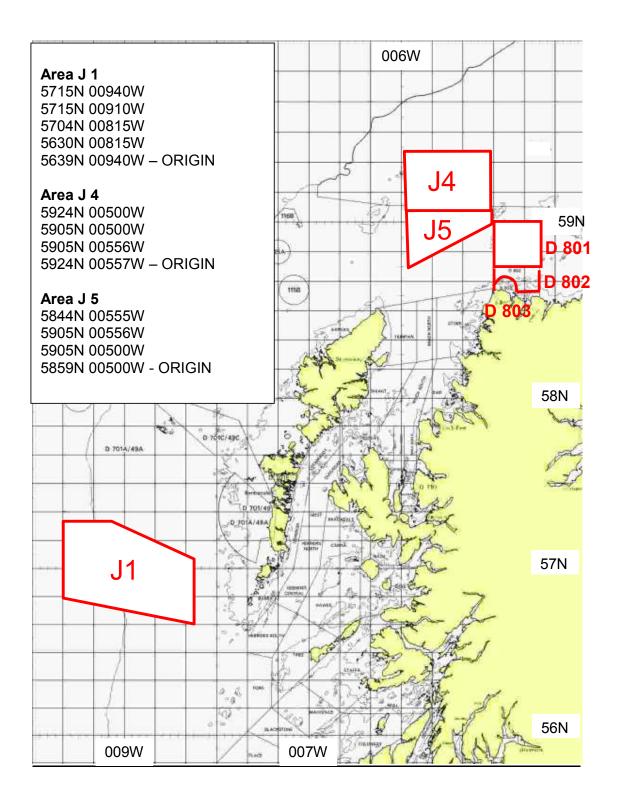
Exercise Joint Warrior 112
GUNFACTS AND JW OFFSHORE FIRING AREAS ACTIVATION GRID

	3 OCT	4 OCT	5 OCT	6 OCT	7 OCT	8 OCT	9 OCT	10 OCT	11 OCT	12 OCT	13 OCT
	MON	TUE	WED	THR	FRI	SAT	SUN	MON	TUE	WED	THR
Cape Wrath Range (Ashore)	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359	0100-2359
Cape Wrath D801		1400-1800									
Cape Wrath D802	0930-2330	0730-1830	1130-1900	1030-2000				0730-2359	0730-2359		
Garvie Island D803	0930-2330	0730-1830	1130-1900	1030-2000				0730-2359	0730-2359		
JW Danger Area J1		0930-1600									
JW Danger Area J4			1300-1430								
JW Danger Area J5			1300-1430								
Clyde Areas D 509	0900-2000										

Live Firing and Gunnery

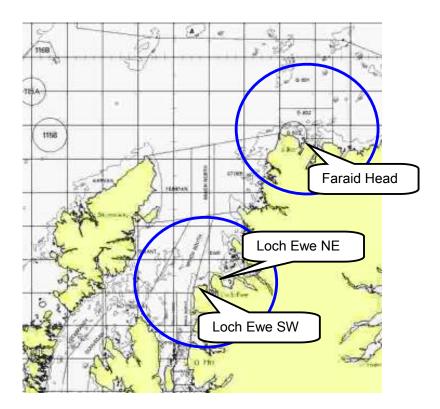
The planned times of firings at Cape Wrath Range and JW Firing areas is indicated in the grid above. There may be changes to this planned activity. Daily GUNFACTS Broadcasts and Cape Wrath Range Broadcasts will contain the most up to date information regarding the activation of the areas. Times are Local.

JOINT WARRIOR FIRING AND DANGER AREAS



Denial of GPS Service

- 1. Denial of GPS services through the jamming of the GPS signal is a real and present danger to both military and civilian maritime and air users. The ability to conduct jamming is spread throughout the modern world. Naval Forces are required to train under such conditions in order to demonstrate the effects it has systems and to train personnel in other modes of operating.
- 2. Jamming of GPS signals will affect equipment using GPS within 20 nautical mile line of sight of the jamming sites. These are located at:
 - a. Faraid Head 58 36.2N 004 46.4W
 - b. Loch Ewe NE 57 51.9N 005 41.1W
 - c. Loch Ewe SW 57 47.2N 005 47.5W



3. The planned times GPS Denial are shown in the table below. These timings are also promulgated in; Notice to Airmen, Notice to Mariners, WZ Navigation Warnings. The Coastguard will make a Securité broadcasts before and after each jamming event in the local area. During the exercise users may also contact the Joint Warrior Controller on: 01436 674321 ext. 4372.

Denial of GPS Service	

Denial of GPS Service

Exercise Joint Warrior 112 GPS DENIAL TIME TABLE

	3 OCT	4 OCT	5 OCT	6 OCT	7 OCT	8 OCT	9 OCT	10 OCT	11 OCT	12 OCT	13 OCT
	MON	TUE	WED	THR	FRI	SAT	SUN	MON	TUE	WED	THR
Faraid Head		1200-1300 1830-1930	1700-1800	1300-1400 1800-1900		0900-1000 1100-1200 1300-1430	1200-1300	1200-1300 1700-1800	1200-1300 1200-1300 1700-1800 1700-1800		
Loch Ewe SW Site			0930-1130	1030-1230 1700-1900	0600-0800	0700-0800 1000-1100 1300-1400 1600-1700	1200-1400	1430-1730 2100-2300	0700-0800 1000-1100 1600-1700	0700-0800 1000-1100 1000-1100 1500-1600 1600-1700 2100-2200	0630-0730
Loch Ewe NE Site			0930-1130 1500-1700	1030-1230 1700-1900	0600-0800	0700-0800 1000-1100 1300-1400 1600-1700	1200-1400	1430-1730 2100-2300	0700-0800 1000-1100 1600-1700	0700-0800 1000-1100 1000-1100 1500-1600 1600-1700 2100-2200	0630-0730

Times are Local.

Unexploded Ordanance Advice

1. The following general advice is offered to anyone discovering anything believed to be unexploded ordnance:

DIVERS DO NOT TOUCH

FISHERMEN Contact the coastguard. If this is not possible, lay the item

in about 60ft of water, away from shipping routes and mark

the position with a float.

EVERYONE DO NOT TOUCH – dial 999 for coastguard or Police.

Contact Telephone Numbers

UNEXPLODED ORDINANCE (FLEET DUTY CONTROLLER)

01923 956366

FISHERMAN'S HOTLINE (FLEET DUTY CONTROLLER)

01923 956366

JOINT WARRIOR CONTROLLER

01436 674321 Extn 4372

CAPE WRATH INFORMATION LINE

FREEPHONE 0800 833300

If future versions of this brief are not required please contact:

Joint Tactical Exercise Planning Staff, JHQ Room 301, Northwood Headquarters, Sandy Lane, NORTHWOOD, Middlesex HA6 3HP

Telephone: 01923 958788.

E-Mail: JTEPS-SM-SO2@mod.uk