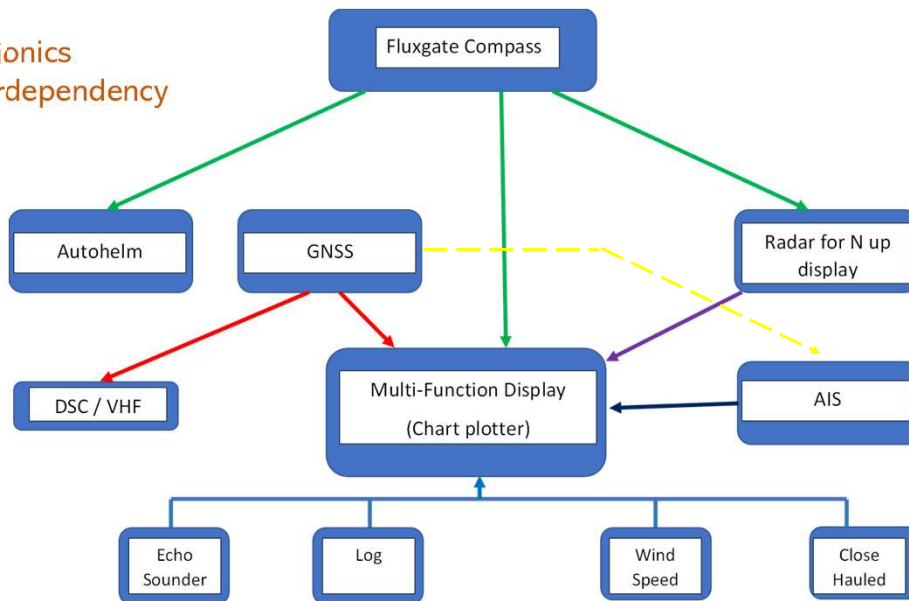


Week 20



1

Navionics Interdependency



2

Safety

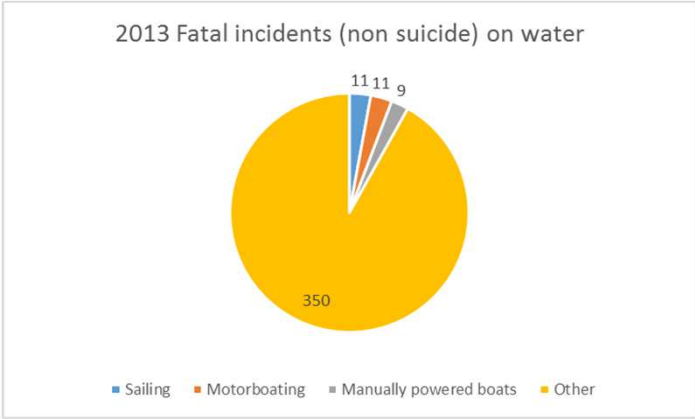
Equipment and Rescue




3

Drowning - Statistics


2013 Fatal incidents (non suicide) on water



Category	Count
Other	350
Sailing	11
Motorboating	11
Manually powered boats	9



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4

Safety – Statistics 2013

Table 2a: All activities and locations by Accidental and Natural Cause Outcome

	At Sea	Bath (includes jacuzzi, hot tubs)	Canal/Aqueduct	Coast/Shore/Beach	Drain/Wall/Pit	Dry Ground	Harbour/Dock/Marina/Port	Lake/Loch/Lough	Marsh	Pond	Pool (Swimming)	Quarry	Reservoir	River	Steam/Ditch/Burn	Total
Walking/running			15	37			5	8	2	5		2		46	6	126
Person/object in water, person of uncertain status			14	5		1	4	4		3		1		25	6	63
Swimming				20	1		2	8			4	7	5	12		59
Jumping/diving in				1	1		3	1					1	11		18
Waterside activity/in water play			1	5			1			1	2			8		18
Angling	2			6				2						4		14
Sub aqua diver	11			1				1				1				14
Commercial	6			5			1							1		13
Sailing	1			4			2	2						2		11
Motorboating	1		1	1			3							5		11
Manually powered boats			1	2				2						4		9
Bath		8														8
Motor vehicle					1					1				5		7
Climbing/cliff				3												3
Cycling				1			1									2
Surfing				2												2
Animal rescue														1		1
Recreational flying	1															1
Person on ice								1								1
Total	22	8	32	93	3	1	22	29	2	10	6	11	6	124	12	381



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5

However.....



- RNLB – 9321 launches in 2022

“The most common cause of a lifeboat launch in Wales in 2022 was to motorboats in trouble.”



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6

SAFETY - THE PERSON



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7

Personal Equipment

- Appropriate clothing
- Lifejackets and Harnesses
- Seasickness



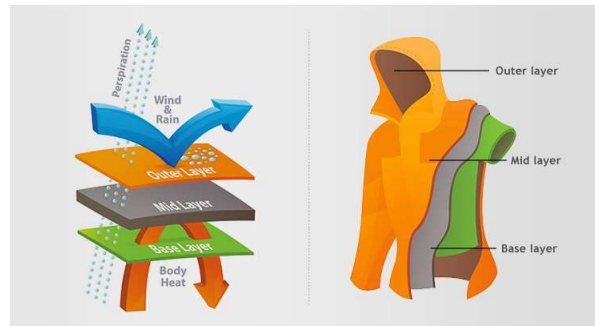
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Clothing

- Appropriate to climate
- Layers
 - Comfortable - weight / breathable
 - Quick to dry
- Extremities
 - Hats / gloves / socks / boots
- Ancillaries:
 - Sunglasses / Suncream / Moisturiser



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Lifejacket

- Worn when:
 - abandoning the boat
 - in fog
 - in the dinghy
 - by children and non-swimmers at all times when on deck



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Harness

- Worn
 - Whenever there is a possibility of falling when on deck
 - Always at night
 - Always if single handed
 - When ordered by the skipper



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11

Servicing

- Check material / webbing / buckles / stitching
- Remove air bottle - check condition - weigh
- Check operating mechanism
- Blow up and leave inflated for 24 hours.
- Follow manufacturers instructions if supplied.



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12

Seasickness

- Suffered by most people
- Avoid
 - Time below especially reading
 - Fatty food / fizzy drinks
 - Diesel
- Take
 - Medication
 - Use Wrist bands
- Cure - Stay ashore!



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13

The Vessel



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Dangers

- Fire / Explosion
- Sinking



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15

Fire - Danger Areas

- Galley - LPG
 - Bottle Stowage
 - Piping
 - Procedures
- Engine - Fuel
- Lockers - Stowage of inflammables
- Electrical systems
- The Crew



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Fire Fighting - Equipment

Extinguisher
at the
entrance to
each cabin



Fire Blanket by Galley



Automatic systems in
engine spaces



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Sinking

- Holing
- Skin Fittings /Seacocks
- Pipework
- Flooding - Hatches / Lockers



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18

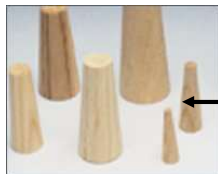
Sinking - Equipment



Seacocks - maintained?



Bilge Pumps and Buckets



Softwood Bungs for skin fittings



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Man Overboard



Lifebuoy and lamp



Danbuoy, drogue and light



Recovery System



Heaving Line



First Aid Kit

PlusSearchlight



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20

Distress



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21

DSC VHF Radio



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22

Mayday Message

Distress Call	Mayday, Mayday, Mayday. This is Yacht Sinker, Yacht Sinker, Yacht Sinker Call sign XXXXX MMSI NNNNNNNNN
Distress message identifier	Mayday Yacht Sinker Call sign XXXXX MMSI NNNNNNNNN
Position	My Position is xxxxxxxxxxx
Nature	Have hit a submerged object and are sinking.
Assistance required	We require immediate assistance
Persons on board	There are three persons on board.
Invitation to reply	Over



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23

Emergency Position Indicating Radio Beacon (EPIRB)



24

AIS PLB



25

Distress Flares

- **Red Parachute**
 - More than 5 miles off
 - Fire 15° down wind
 - Visible for approximately 60s
 - **Do not fire if a helicopter is approaching**



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Distress Flares

- **Red Pinpoint**
 - Up to five miles at night
 - Hold at arm's length down wind
 - Do not touch metal case
 - Throw overboard when extinguished



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27

Distress Flares

- **Orange Smoke**
 - Use in daylight
 - Hold downwind or throw overboard if a smoke float
 - Very visible from the air



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Flares - Disposal

- Illegal to let off a flare if not in distress
- Hand to
 - Coastguard
 - Chandler
 - Marina
- However becoming a problem because of storage limits



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International Distress Signals

- SOS by light or sound
- Continuous sound signal
- Round shape over a square shape (or vice versa)
- Code flags "N" over "C"
- Code flag "V"
- Raising and Lowering Arms
- EPIRB
- (Flames from vessel)



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30

Lifeboat Rescue



- Prepare in advance
 - Rig towing bridle around strong points
 - Make sure that there are no lines in the water
- Communicate on VHF radio
- Take instructions from crew



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31

Helicopter Rescue

- Prepare in advance
- Communicate on VHF radio
- When helicopter arrives
 - Steer course ordered by pilot
 - Pull in "high line" when it has earthed
 - Stow in bucket
 - Do not tie to boat
 - Pull in crewman when directed - do not touch him until he has earthed
 - Follow his instructions



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32

Helicopter Hi-line Rescue



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33

Abandoning to the Liferaft

- Last resort
- Clothing / Lifejacket
- Grab bag
- Do not launch until everyone is ready
- Strongest first
- Try and stay dry
- Cut, stream, maintain
 - close door
 - seasickness tablets
 - post lookout
 - keep as warm and dry as possible



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International Maritime



35

Content 1

- Environmental Considerations
 - Antifoul
 - Fuel Spills
 - Waste Disposal
- Coastal State Regulations
- Marine Radio Regulations
- Compulsory Carriage – applicable to?
- SOLAS V
 - Radar Reflectors
 - Passage Plans (Reg34)
- Documentation
 - Logbook
 - Certificates
 - Insurance
- MAIB
- Flag States and Coastal States



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