

Safety Audit 2016 Report
Report by Head of Safety Management

Summary: This report gives details of the incidents reported from April 2016 to end of March 2017.

There have been 8 deaths in 2016, three resulting from Cardiac Arrest, two from CO Poisoning and three not thought to be suspicious.

Given the large numbers of visitors and users of the Broads these figures demonstrate that the most serious incidents are a rare occurrence.

1 Introduction

- 1.1 The reporting period is from 1 April 2016 to the end of March 2017. The report is limited to the Broads Authority's area of marine responsibility. Notable incidents are listed below.

2 Summary of Incidents Reported

2016	Incident Details	Hazard Log Category
06/04	Hire vessel attempted to navigate low bridge without the aid of the pilot. Damage to boat. No injuries to crew.	Bridges
07/04	Male collapsed on remote mooring due to injured leg.	Injury
08/04	Female fell in from rear of a hire cruiser, River Bure, Potter Heigham.	Fallen in
14/04	Male entered water to rescue his dog that had gone overboard. Sustained injuries to head and hip. Dog drowned.	Fallen in
28/04	Male suffers cardiac arrest on a dayboat, Horning. Fatality.	Fatality
11/05	Female slipped inside hire boat and broke hip at How Hill. Coastguard/Ambulance attended.	Injury
12/05	Male crew on trip boat falls in river whilst underway. North Cove.	Fallen in
16/05	2 people fell into water at NYS while mooring up.	Embarkation/ Disembarkation
21/05	Man fell from roof of hire boat into cabin head first. Injuries. Air lifted to hospital.	Injury
21/05	Woman fell between 2 boats while	Embarkation/

	mooring. Crush injuries. Ambulance to hospital.	Disembarkation
23/05	Collision between 2 vessels at Hardley. Man injured when hitting the windscreen.	Collision
24/05	Hire vessel collision with Somerleyton Bridge.	Bridge
29/05	Fire in rear cabin of hire vessel on Breydon. No injuries, motor in Webasto heater caught fire.	Fire
09/06	2 Fatalities on a private vessel moored at Wroxham Island. CO poisoning.	Fatality
11/06	Male fell in at GYYS while mooring.	Embarkation/ Disembarkation
14/06	Hemsby Broads Lifeboat Callout: Casualty on board cruiser with broken ankle recovered from isolated mooring, Malthouse broad.	Injury
14/06	Hemsby Broads Lifeboat Callout: Male with suspected broken leg at Wroxham Bridge.	Injury
22/06	Hemsby Broads Lifeboat Callout: Casualty had suspected broken wrist, assisted from hire boat at Reedham Ferry.	Injury
22/06	Ambulance attends to a female with serious arm injuries after a fall from a boat nr. Acle.	Fallen in
23/06	Male fell from day boat whilst mooring, hitting head on post. Ambulance attended.	Embarkation/ Disembarkation
27/06	Male found in river after falling from a moving hire vessel late at night.	Fallen in
03/07	Male fell overboard at Reedham Quay. No Injuries.	Embarkation/ Disembarkation
23/07	Female cuts leg open while disembarking vessel. Attended hospital for stiches.	Embarkation/ Disembarkation
24/07	Young male fell from a vessel whilst mooring at GYYS. No injuries. No life jacket	Embarkation/ Disembarkation
24/07	Child falls from vessel into R. Bure, Decoy Staithe. Very shaken, advised hospital.	Embarkation/ Disembarkation
31/07	Male overboard while mooring at St Benets, R. Bure. No Injuries.	Embarkation/ Disembarkation
01/08	Male fell when disembarking hire boat. First aid to grazes.	Embarkation/ Disembarkation
02/08	Female fell into River Bure at GY, when vessel was leaving mooring.	Embarkation/ Disembarkation

	Ambulance attended. Bruises and shock.	
04/08	Pan fire on private vessel moored at Somerleyton. Fire Service attend. All persons OK.	Fire
04/08	Male injured leg when disembarking from dayboat, Horning. Ambulance attend.	Embarkation/ Disembarkation
20/08	Female breaks leg when disembarking vessel at Potter Heigham	Embarkation/ Disembarkation
21/08	Hire cruiser collision with Vauxhall Bridge. No injuries sustained.	Bridges
25/08	Collision between RIB at speed and moored vessel. 4 PoB in water, Female and child seriously injured. CPR administered. All persons taken to hospital.	Collision
31/08	Hire vessel stuck under Potter Heigham Bridge.	Bridges
07/09	Fatality – 69yr old male suffered cardiac arrest whilst moored on private vessel at Hoveton.	Fatality
09/09	Male suffers injury to leg from a moving prop, after jumping from a dayboat naked.	Injury
20/09	Female fell in river Bure whilst attempting to board a canoe.	Embarkation/ Disembarkation
22/09	Female injured shoulder after a fall in hire cruiser. Declined medical attention.	Injury
28/09	Male fell in River Bure from moving hire boat at GYYS. Assisted out and given first aid.	Fallen in
29/09	2 Fatalities discovered near Breydon Water. Not thought to be suspicious.	Fatality
29/09	Female suffered bleed to brain after falling and hitting her head in a moving hire vessel.	Injury
30/09	Male evacuated from hire vessel at Potter Heigham due to suspected heart attack. Broadsbeat on scene.	Medical Evac
30/09	Male collapsed on small boat at Wayford Bridge. Air Ambulance and Mundesley/Winterton Coastguard attend.	Medical Evac
02/10	Hire vessel attempted to pass Vauxhall Bridge without enough clearance. Vessel got stuck. BA crew assisted out. No injury/damage.	Bridges
02/10	Female sustained head injury when	Embarkation/

	disembarking hire vessel, Stokesby Ferry.	Disembarkation
12/10	Fatality – Male suffers cardiac arrest whilst on board hire vessel, moored at Womack.	Fatality
17/10	Female knocked unconscious and sustained back injury in collision	Collision
01/11	Person overboard and rescued at Pulls Ferry No further info.	Fallen in
02/03/2017	Fatality – Male body found in River Wensum, Fye Bridge area. Incident unexplained but not thought to be suspicious.	Fatality

3 Conclusion

- 3.1 The incidents to date do not appear to be dissimilar to those in presented in previous years. Although incidents requiring medical treatment seem to have increased on the last few years.
- 3.2 As with previous years evidence suggests that disembarkation and falling in remains to be the main area of activity which results in injury and potential for drowning.
- 3.3 There have been two boating related deaths from Carbon Monoxide poisoning this year. The Marine Accident Investigation Branch are investigating the incident and their report is due in April/May which will likely stimulate interest in the issue of Carbon Monoxide. Rangers have received additional training regarding Safety messages surrounding CO so that they can actively engage with the public on this issue.

4 Looking Forward

- 4.1 The National Water Safety Forum's UK Drowning Prevention Strategy was launched last year at Westminster which calls for organisations to work together to deliver safety messages and encourage participation. The strategy aims to reduce accidental drowning in the UK by 50% by 2026.
- 4.2 The Broads Authority will work with stakeholder groups to assist in the delivery of the strategy initially to continue to promote the "Wear it" campaign and to raise awareness of everyday risk in, on and around water by sharing information.

Background papers: Previous Annual reports
 Author: Steve Birtles/ Maxine Willoughby
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Broads Plan Objectives: NA4.2

TABLE 1
Analysis of Death/Injuries Since 1993

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Death																								
No of deaths on or from boats	2	2	3	1	1	3	2	1	3	2	6	0	0	2	0	0	0	2	4	2	0	2	1	5
Reported deaths not related to boating	1	3	4	-	2	1	4	4	2	3	1	0	7	2	1	1	3	3	3	8	2	5	4	3
Cause of death																								
Severe injury	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Heart Attack	0	2	0	0	0	0	1	1	0	1	0	0	0	1	0	1	2	2	1	5	0	1	1	3
Drowning	0	1	2	1	0	4	5	1	3	3	5	0	4	3	0	0	0	1	3	2	0	5	3	0
Asphyxiation/CO poisoning	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Terminal Illness																			1	0	0	0	0	0
Not Known	0	2	4	0	2	0	0	1	0	0	2	0	3	0	1	0	1	2	2	0	0	1	0	3
Reports of people inadvertently entering in the water See footnote.	0	0	3	2	4	8	2	5	1	4	15	16	12	23	29	17	34	20	17	18	12	22	19	21
No of persons reported as requiring hospital treatment	0	0	0	9	8	7	9	8	7	7	18	2	4	13	12	11	22	30	17	15	19	14	13	30
Nature of injuries																								
Head	0	0	2	0	4	1	3	2	1	1	1	1	3	1	1	5	3	3	1	3	3		2	7
Arm/hand	0	0	2	1	6	0	0	1	3	1	1	1	0	1	6	4	1	4	4	2	4	1	0	3
Leg/foot	0	0	3	5	4	2	4	1	2	2	2	2	1	3	7	5	7	8	3	6	4	3	4	9
Torso, ribs, chest, back	0	0	1	0	2	0	1	4	1	1	2	0	1	4	3	0	2	4	2	0	2	2	2	1
Not described	0	0	1	1	0	0	0	0	0	0	10	2	1	4	0	0	8	10	2	2	5	1	4	6
Asphyxiated/CO poisoning	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
Burns/Scalds	0	0	0	1	1	4	1	1	0	2	1	0	0	1	1	0	1	2	1		1	2	0	0
Heart attack																			3	5	1	2	1	5

Footnote: Reports where someone inadvertently found themselves in the water. It does not include capsizes of sailing dinghies etc, or from any other contact water sports where entry into the water is predictable.

TABLE 2**Analysis of Fire and Explosions Since 1993**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Number of incidents	2	4	7	2	5	4	6	3	4	2	2	0	2	22	8	4	4	3	3	1	1	1	0	2
Vessels involved (Private)	2	3	5	1	3	4	3	2	2	2	1	0	1	18	10	4	2	2	2	1	1	3	0	1
Vessels involved (Hire)	0	0	3	1	2	0	3	1	2	0	1	0	1	4	1	0	2	1	1	0	0	0	0	1
Prime cause LPG	0	0	2	0	0	2	0	1	1	0	2	0	0	0	1	0	0	1	0	0	1	0	0	0
Prime cause Petrol	0	2	2	0	1	1	1	0	0	1	0	0	0	1	2	0	0	0	2	1	0	1	0	0
Prime cause Electrical	1	0	0	0	2	0	0	1	1	1	0	0	1	0	1	2	2	1	1	0	0	0	0	1
Prime cause Other	1	1	3	2	2	1	5	1	2	0	0	0	1	21	4	2	2	1	0	0	0	2	0	1
No of vessels total loss	0	1	3	1	2	0	1	2	2	2	0	0	0	20	6	2	1	0	2	1	0	0	0	0
No of injuries from fires requiring hospital treatment	0	1	2	0	1	3	1	0	0	2	2	0	0	1	1	0	0	2	1	0	1	0	0	0
No of fatalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0