

Marine Rescue Team Activity

01/04/2008 - 31/01/2011 VERSION 1.3

Knowledge & Information Management

Please note that the data in this document is based on the live Incident Recording System (IRS). As this is a live system, the data contained within this document is subject to review, and can be changed without announcement.

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Findings

Table 1: Attendances to Incidents ¹by the Marine Rescue Team (call sign M81B1 for the 10m jet boat and M81B2 for the 9m relief boat) between 01/04/2008 and 31/01/2011, by Month and Year

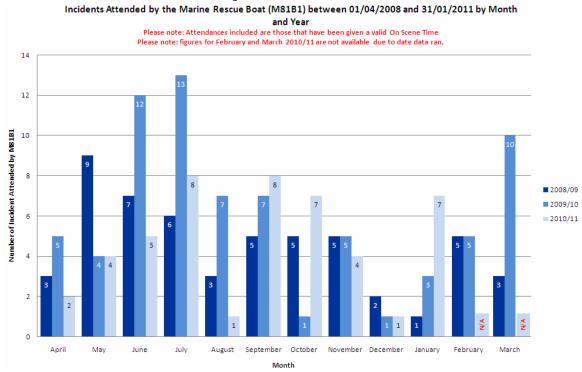
Month	2008/09 Attendances	Which were M81B1	2009/10 Attendances	Which were M81B1	2010/11 Attendances	Which were M81B1	Total Attendances	Which were M81B1
April	3	3	5	5	3	2	11	10
May	9	9	4	4	5	4	18	17
June	7	7	12	12	8	5	27	24
July	6	6	13	13	8	8	27	27
August	3	3	7	7	12	1	22	11
September	5	5	7	7	9	8	21	20
October	5	5	1	1	9	7	15	13
November	5	5	5	5	4	4	14	14
December	2	2	1	1	1	1	4	4
January	1	1	3	3	7	7	11	11
February	5	5	5	5	N/A	N/A	10	10
March	3	3	12	10	N/A	N/A	15	13
Total	54	54 (100.0%)	75	73 (97.3%)	66	47 (71.2%)	195	174 (89.2%)

Table 1 indicates that in total, of the 195 Marine Rescue attendances between 1st April 2008 and 31st January 2011, 174 (89.2%) were by M81B1, with the remaining 21 (10.8%) by M81B2.

It is also evident that the summer months witnessed the greatest proportion of all the attendances by the Marine Rescue Team, with: June, July and August across the three years accounting for 76 (39.0%) of the total 195 attendances to incidents by the Team.

¹ Please note: Attendances include those incidents in which same asset has attended the same incident more than once; as such there are more than one attendance to some incidents included in the tables/charts. \\Mfrssan1\Departments\Central Admin\COMMON\Committee\2011\CFO 073 APPENDIX B new.doc

Chart 1: Attendances to Incidents by Marine Rescue Team between 01/04/2008 and 31/01/2011, by Month and Year



It can be noted from Chart 1 that the peak months for Attendances by the Marine Rescue Team occurred during the summer, with: July 2009/10 accounting for 13 attendances and June 2009/10 for 12 incidents.



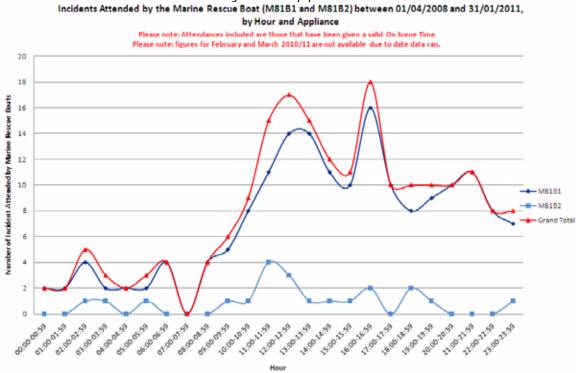


Chart 2 indicates that the majority of Marine Rescue Team attendances occurred at incidents during the late morning and afternoon, with 88 (45.1%) of the total 195 attendances falling between 11:00 and 16:59.

The peak hour for attendances by the Marine Rescue Team was between 16:00 and 16:59, with 18 attendances during this hour. Once the peak is reached, incidents start to fall, with 00:00 to 08:59 accounting for very few incidents in relation to the rest of the day.

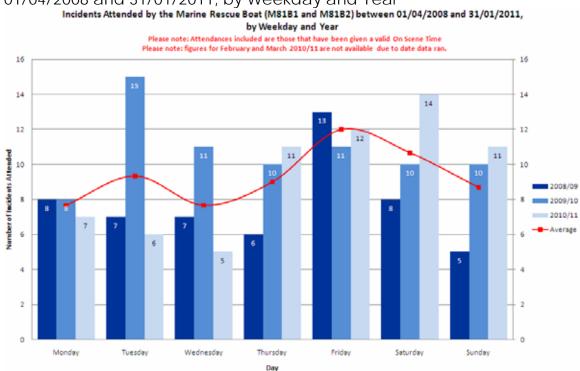


Chart 3: Attendances to Incidents by Marine Rescue Team between 01/04/2008 and 31/01/2011, by Weekday and Year

Chart 3 demonstrates that from year-to-year the days of the week account for varying numbers of Marine Rescue Team attendances. This point is emphasised by the fact that Tuesdays accounted for 15 incidents during 2009/10, more than any day during this year, whereas Tuesdays during 2008/09 and 2010/11 accounted for 7 and 6 attendances respectively.

The variance in the peak day during each year further emphasises the difference across the three years, with: Fridays accounting for the peak during 2008/09 with 13 attendances, Tuesdays accounting for the peak during 2009/10 with 15 attendances and Saturdays accounting for the peak during 2010/11 with 14 attendances.

Chart 4: Attendances to Incidents by Marine Rescue Team between 01/04/2008 and 31/01/2011, by Weekday and Nomenclature

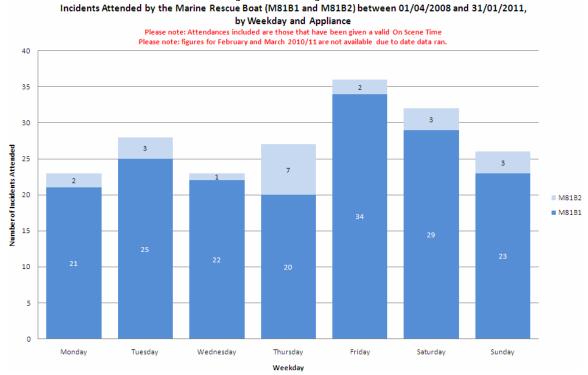


Chart 4 indicates that over the 34 month period analysed, Fridays accounted for the greatest proportion of attendances by the Marine Rescue Team, with a total of 36 (34 by M81B1 and 2 by M81B2). Combined, the weekend days of Friday, Saturday and Sunday accounted for 94 (48.2%) of all attendances by the Marine Rescue Team between March 2008 and January 2011.

Table 2: Attendances to Incidents and Incidents Assigned to (Not Attended) by Marine Rescue Team between 01/04/2008 and 31/01/2011, by Month

	Incidents Attended ²			Incidents Assigned to (not Attended) ³			
Month	M81B1	M81B2	Total	M81B1	M81B2	Total	
April	10	1	11	11	0	11	
May	17	1	18	7	0	7	
June	24	3	27	6	4	10	
July	27	0	27	22	0	22	
August	11	11	22	8	5	13	
September	20	1	21	3	0	3	
October	13	2	15	7	1	8	
November	14	0	14	9	0	9	
December	4	0	4	3	0	3	
January	11	0	11	11	1	12	
February	10	0	10	6	0	6	
March	13	2	15	5	1	6	
Grand Total	174	21	195	98	12	110	

Table 2 indicates that there were 195 attendances to incidents by the Marine Rescue Team during the period analysed, with 110 instances in which the 10m jet boat or the 9m relief boat were assigned to incidents, but did not have a valid on scene time to in relation to the incident. It can also be noted that, both attendances to incidents and incidents assigned to (not attended) peak during the summer months, with June, July and August in particular accounting for the greatest proportion of both.

Of the 110 instances in which Marine Rescue Team were assigned to an incident, 22 did not receive a valid "Mobile Time", meaning therefore that they were not mobilised to the incident in question in that particular instance.

² Please note: Incidents attended include those which had a valid on scene time.

³ Please note: Incident assigned to (not attended) are based on those with a valid assigned time, but no valid on scene time

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Table 3: Attendances to Incidents by Marine Rescue Team between 01/04/2008 and 31/01/2011, by Incident Type and Year

Incident	M81B1	M81B2	Grand Total	Proportion
30 02 Hazards to Shipping Removed	23	6	29	14.9%
30 01 Vessels Assisted	25	3	28	14.4%
30 03 Searches / Persons Reported / Missing	21	3	24	12.3%
30 20 Other	22	1	23	11.8%
30 06 Attempted Immersions	17	3	20	10.3%
30 08 Persons Reported	14	2	16	8.2%
14 01 Special Service (Life Risk)	12	0	12	6.2%
14 02 Special Service (No Life Risk)	11	0	11	5.6%
30 15 Investigation Missions	8	2	10	5.1%
30 19 General Assistance to Vessels	8	0	8	4.1%
30 09 Bodies Recovered	3	0	3	1.5%
30 16 Jet Skiers Assisted	3	0	3	1.5%
30 05 Pollution Incidents	1	0	1	0.5%
30 10 Firearms Recovered	1	0	1	0.5%
30 11 Animals recovered	1	0	1	0.5%
30 14 Immersed Vehicles	1	0	1	0.5%
30 17 Problem Pleasure Craft	1	0	1	0.5%
30 18 Flare Sightings	1	0	1	0.5%
False Alarm	1	0	1	0.5%
Other with Mobilisation	0	1	1	0.5%
Grand Total	174	21	195	100.0%

Table 3 illustrates that the most common incident type attended by the Marine Rescue Team during the period analysed was "30 02 Hazards to Shipping Removed", of which there were 29 attendances to; this equates to 14.9% of all attendances by Marine Rescue appliances.

Other incident types to account for a high proportion of the total attendances made by Marine Rescue Team were: "30 01" Vessels Assisted with 28 (14.4%), "30 03 Searches / Persons Reported / Missing" with 24 (12.3%), "30 20 Other" with 23 (11.8%) and "30 06 Attempted Immersions" with 20 (10.3%).

Table 4: Total Number of Attendances made by Marine Rescue Team by shift, between 01/04/2008 and 31/01/2011

Count	Total Attendances between 08:00 and 19:59	Total Attendances between 20:00 and 07:59
Total Number of Attendances	137	58

Table 4 provides a breakdown of incidents attended by the Marine Rescue Team over the 34 month period, split by two shifts. What the table clearly shows is that between "08:00 and 19:59" (day shift) there have been a total of 137 attendances, whilst by comparison the "20:00 and 07:59" time period there were only 58 incidents attended. What this shows is that there are well over double the number of incidents during the "08:00 and 19:59" shift (2.36 times more incidents) than the later "20:00 and 07:59" shift.

Table 54: Breakdown of the incidents attended, broken down by average

incidents per: day, week and month.

Period	Total Attendances between 08:00 and 19:59	Total Attendances between 20:00 and 07:59
Per Day	0.13	0.06
Per Week	0.93	0.39
Per Month	4.03	1.71

Table 5 identifies that regardless of shift pattern the Marine Rescue Team do not attend incidents day in and day out. However between the hours of 08:00 and 19:59 the Marine Rescue Team will on average be turned out and attend an incident approximately once a week (0.93) and 4 times a month (4.03). Between the hours of 20:00 and 07:59 the Marine Rescue Team will on average be turned out and attend an incident less than once a week (0.39) and less than 2 times a month (1.71).

⁴ The data in table 5 reflects the incident numbers used in table 5

Please note: Calculations are based on the total number of attendances by both call signs (combined) during the specific time periods (00:00-07:59 = 21 attendances and 08:00-19:59 = 137 attendances and 20:00-07:59 = 58) divided by the total number of days (1036), weeks (148) or months (34).

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Appendices

Appendix A: Measure of spread based only on incidents attended by the Marine Rescue Team.

Measure	Calculation	
Mean (Average)	5.24	
Median	3	
Mode	1	
Range	35	
Minimum	0	
Maximum	35	
Count	195	

Appendix A provides an analysis of time between incidents attended by the Marine Rescue Team. Based on the data it shows that the Mean (Average) is 5.24 which means that on average the Marine Rescue Team attend an incident every five days.

The Range (and Maximum) provides the details that the longest period (in days) where the Marine Rescue Team did NOT attend any incidents, which in the data is 35 days between incidents. Appendix C elaborates on these findings further.

Appendix B: Total Incidents attended between 00:00 and 07:59

Period	Total Attendances between 00:00 and 07:59
Total Number of Attendances	21
Per Day	0.02
Per Week	0.14
Per Month	0.62

Appendix B provides analysis of the period between 00:00 and 07:59 over the 34 month period analysed. What the table shows is that there were only 21 incidents attended during this interval with the chance of attending an incident during this time interval being less than once a month (0.62).

Appendix C: Time-lapse (in days) between incidents attended by Marine Rescue Team, by shift and overall (based only on incident data)

	Research Tearn, by shift and overall (based only of includent data)							
Days between attendances	08:00 - 19:59	20:00-07:59	Overall					
Same Day	17	9	26					
1 Day	24	14	38					
2 days	13	8	21					
3 days	18	5	23					
4 days	8	1	9					
5 days	14	4	18					
6 days	9	3	12					
7 days	7	1	8					
8 days	3	1	4					
9 days	2	2	4					
10 days	3		3					
11 days	2	3	5					
12 days	2	1	3					
13 days	1		1					
14 days	5		5					
15 days	1		1					
16 days	1		1					
17 days	2		2					
18 days	2		2					
23 days		2	2					
24 days	1	1	2					
25 days	1	1	2					
29 days		2	2					
31 days			0					
35 days	1		1					
Total	137	58	195					
Average Incidents per shift per day	0.13	0.06	0.19					

Appendix C provides a breakdown of the gaps between incident occurrences over the 34 month under analysis. The table details that overall there were 26 occurrences where the Marine Rescue Team attended more than one incident on a single day, whilst also showing that there was one time period where there were 35 days between attending incidents.