Contents

Overview		1
Section 1	Introduction	
Section 2	Visual aids to navigation – definition	
Section 3	Phases of navigation	
Section 4	The users of aids to navigation	5
Section 5	History of aids to navigation	8
Section 6	Current navigational techniques	9
Section 7	Satellite, radio and electronic navigation aids	11
Section 8	The perceived need for visual aids to navigation	18
Section 9	Traditional versus electronic	19
Section 10	Conclusions and recommendations	21
A nnex A	Summary of grounding incidents 1999-2010	24
Annex B	The Nautical Institute MARS reports 2002-2010	31
An nex C	Notes from The Nautical Institute presentations	45
An nex D	Written submissions from mariners	54
Annex E	Presentation to Nautical Institute branches	61