

Appendix 1

Visual Flight Rules

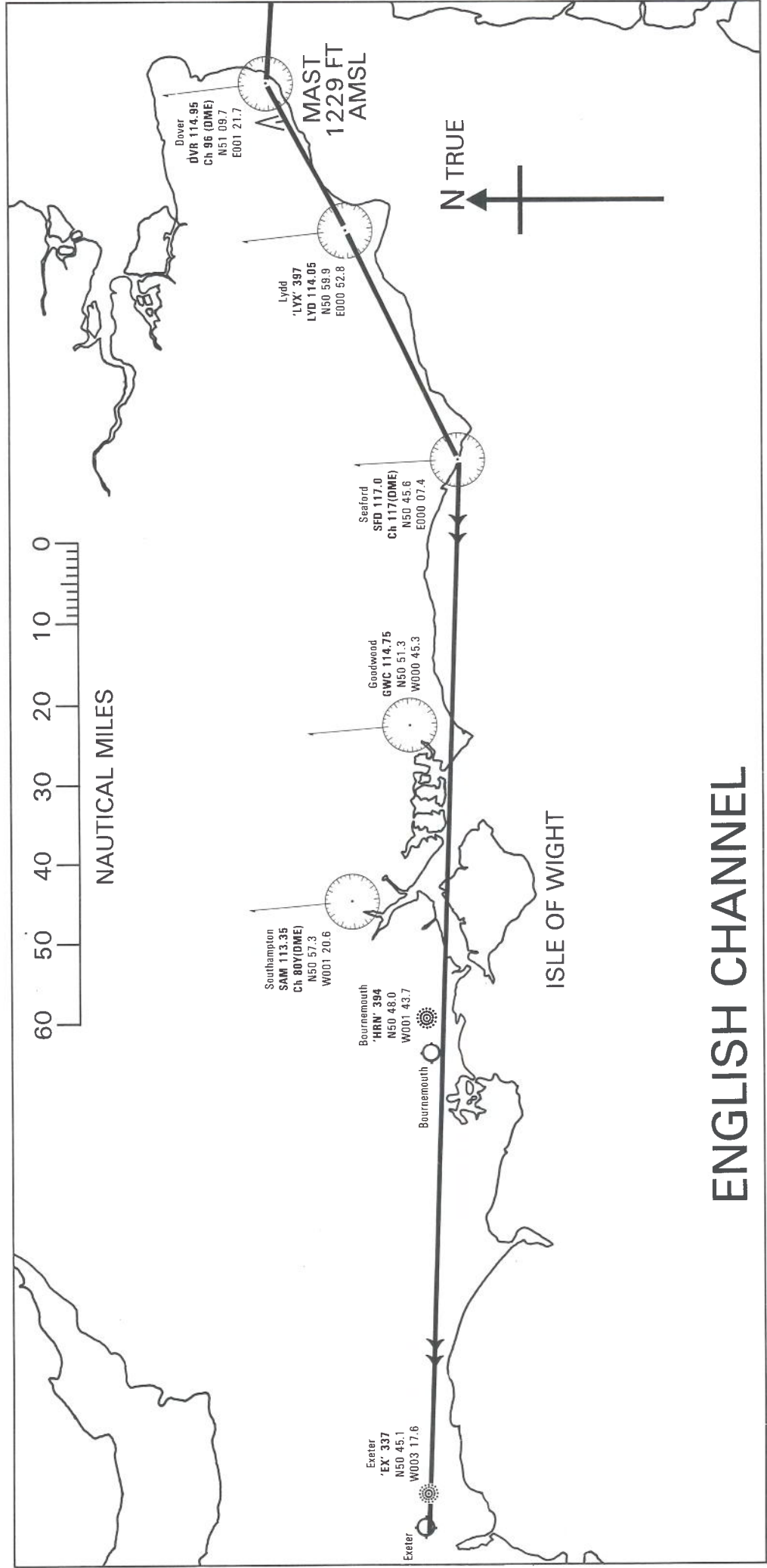
as tabulated in the United Kingdom Aeronautical Information Publication (AIP)

	Class of aircraft	Flight visibility	Distance from Cloud
Within Controlled Airspace	All	5 nm	1 nm horizontally and 1000 ft vertically
Outside Controlled Airspace			
(a) above 3000 ft amsl	All	5 nm	1 nm horizontally and 1000 ft vertically
(b) at or below 3000 ft amsl	All	5 nm	1 nm horizontally and 1000 ft vertically
(c) at or below 3000 ft amsl and airspeed 140 kt or less (alternative to (b))	Other than helicopter	1 nm	Clear of cloud and in sight of the surface
(d) at or below 3000 ft amsl (alternative to (b))	helicopter		Clear of cloud and in sight of the surface

The Belgium and Luxembourg AIP contains the following VFR requirements, and although quoting some units metrically, equates closely to the UK definition of VFR

	Flight visibility	Distance from Cloud
Within Controlled Airspace	8 km	1500 M horizontally 300 M (1000 ft) vertically
Outside Controlled Airspace		
(a) above 900M (3000 ft) amsl or 300M (1000 ft) agl whichever is higher	8 km	1500 M horizontally 300 M (1000 ft) vertically
(c) at or below 900M (3000 ft) amsl or 300M (1000 ft) agl whichever is higher	1500 m	Clear of clouds and in sight of the ground or water

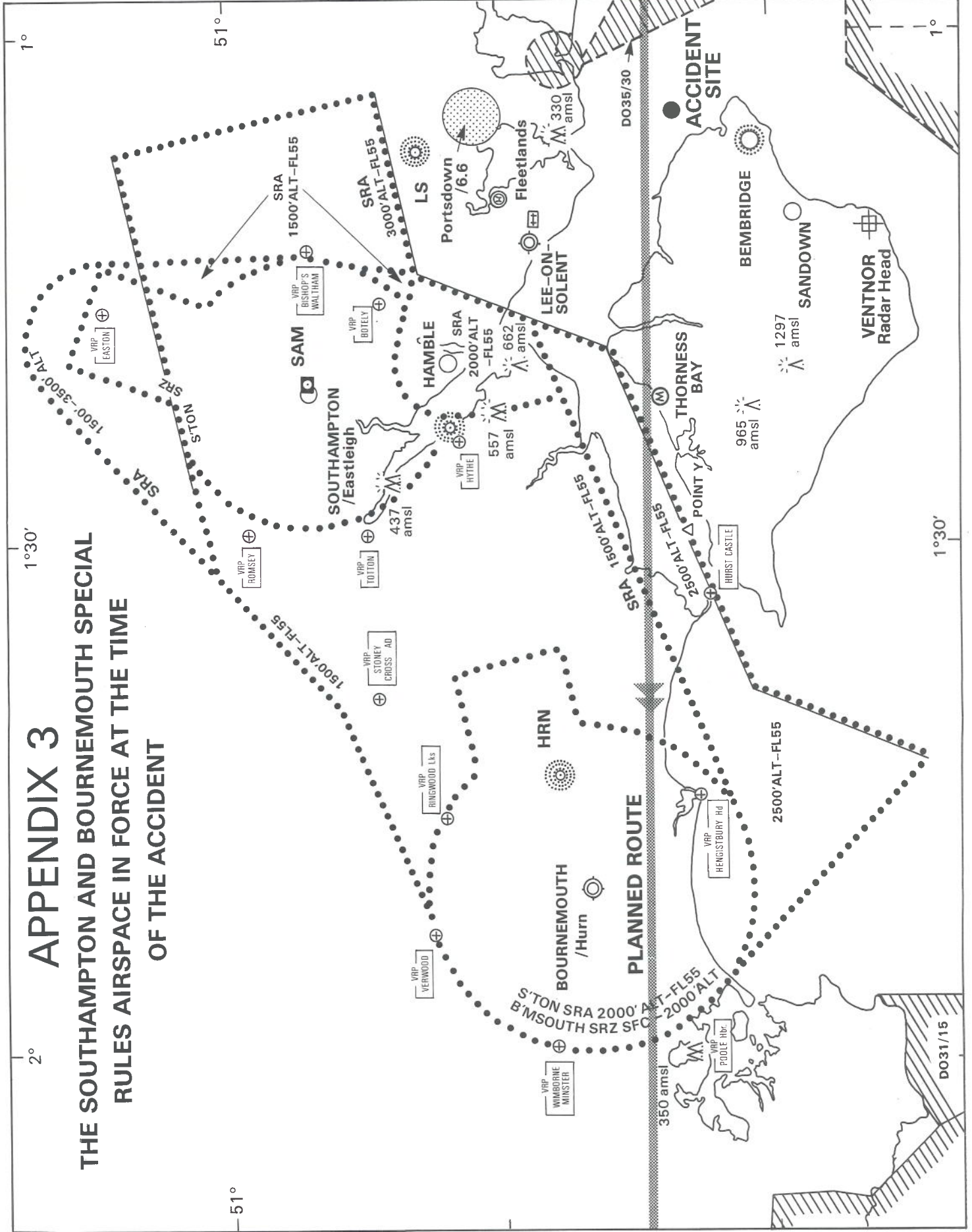
APPENDIX 2 PLANNED VFR ROUTE



ENGLISH CHANNEL

APPENDIX 3

THE SOUTHAMPTON AND BOURNEMOUTH SPECIAL RULES AIRSPACE IN FORCE AT THE TIME OF THE ACCIDENT



TRANSCRIPTION OF SOUTHAMPTON EASTLEIGH AIRPORT ZONE CONTROL TAPE

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
0955½			(**)
	SOUTHAMPTON	OO-JEL	SOUTHAMPTON CONTROL GOOD MORNING THE OSCAR OSCAR JULIET ECHO LIMA
	OO-JEL	SOUTHAMPTON	OSCAR OSCAR ECHO JULIET LIMA WAS THAT
0956	SOUTHAMPTON	OO-JEL	OSCAR OSCAR JULIET ECHO LIMA ON A VFR FLIGHT FROM ANTWERP TO EXETER JUST ER SOUTH OF (*) WHISKEY GOLF WHISKEY CHARLIE AT THREE FIVE ZERO ZERO ER REQUEST ER TRAFFIC INFORMATION.
	OO-JEL	SOUTHAMPTON	ROGER NO KNOWN TRAFFIC TO AFFECT YOUR FLIGHT ER OSCAR ECHO LIMA AND DO YOU INTEND TO ROUTE VIA THE SIERRA ALPHA MIKE
	SOUTHAMPTON	OO-JEL	ER YES SIR COULD YOU GIVE ME ER THE SOUTHAMPTON WEATHER PLEASE AND THE EXETER WEATHER
	OO-JEL	SOUTHAMPTON	ROGER I'LL PASS YOU THE SOUTHAMPTON WEATHER VERY SHORTLY AND I'LL GET THE EXETER WEATHER FOR YOU BUT YOU'RE CLEARED INTO SPECIAL RULES AIRSPACE AT THREE THOUSAND FIVE HUNDRED THEN THE QNH IS ONE ZERO ONE FIVE
0956½	SOUTHAMPTON	OO-JEL	ONE ZERO ONE FIVE OSCAR ECHO LIMA(**)
	?	?	<i>(unintelligible and unidentified transmission)</i>
0957			(*)
	SOUTHAMPTON	BROADWAY 10	SOUTHAMPTON ZONE GOOD MORNING THIS IS BROADWAY ONE ZERO

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	BROADWAY 10	SOUTHAMPTON	BROADWAY ONE ZERO SOUTHAMPTON
0957½	SOUTHAMPTON	BROADWAY 10	SOUTHAMPTON BROADWAY ONE ZERO'S A CANBERRA ER SEVEN MILES SOUTH OF VENTNOR REQUESTING ER CLEARANCE TO TRANSIT YOUR ZONE FROM VENTNOR DIRECT BOSCOMBE DOWN ON A HEADING ON TRACK OF (**) THREE FOUR ZERO FLIGHT LEVEL FOUR ZERO WE'RE CURRENTLY SQUAWKING FOUR THREE TWO ONE
	BROADWAY 10	SOUTHAMPTON	ROGER THEN ER ROUTE VENTNOR TOWARDS SOUTH OF BOSCOMBE DOWN ER YOU'RE NOT SHOWING ON RADAR BUT I KNOW BOURNEMOUTH HAVE ER LET OFF SEVERAL FALCONS TO THE SOUTH OF THE ISLE OF WIGHT ER THEY CLEARED THE SRA AT FLIGHT LEVEL FIVE ZERO BUT NOW WORKING LONDON MILITARY THEY WORKED SOUTH OF THE ISLE OF WIGHT I'M NOT QUITE SURE WHO THEY'RE WORKING WITH OR WHAT THEY'RE DOING
	SOUTHAMPTON	BROADWAY 10	OKAY SAY AGAIN THE LEVEL
0958	BROADWAY 10	SOUTHAMPTON	ROGER THEY WERE ER THEY LEFT THE BOURNEMOUTH OR THE SPECIAL RULES AREA TO THE (*) WEST AT FIVE ZERO BUT I'M NOT QUITE SURE WHAT LEVELS THEY ARE NOW OR WHO THEY'RE WORKING
	SOUTHAMPTON	BROADWAY 10	OKAY WE'LL ER STAY AT FOUR THEN ER IF THAT'S ER LEVEL ACCEPTABLE TO YOU
	BROADWAY 10	SOUTHAMPTON	YES THATS FINE IF YOU ROUTE VENTNOR TOWARDS SAM THAT SHOULD TAKE YOU ROUND TO THE EAST OF THEIR POSSIBLE TRACKS SOUTH OF THE ISLE OF WIGHT AND ER REPORT OVERHEAD SAM AT FOUR ZERO
	SOUTHAMPTON	BROADWAY 10	WILL DO

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	OO-JEL	SOUTHAMPTON	ECHO LIMA SOUTHAMPTON CAN YOU ACCEPT TRANSIT AT THREE THOUSAND FEET PLEASE
	SOUTHAMPTON	OO-JEL	ROGER LEAVING THREE FIVE ZERO ZERO FOR THREE THOUSAND OSCAR ECHO LIMA
0958 ½	OO-JEL	SOUTHAMPTON	THANK YOU MAINTAIN THREE THOUSAND FEET ON REACHING REPORT OVERHEAD SAM OSCAR ECHO LIMA (**)
	SOUTHAMPTON	OO-JEL	CALL YOU AT THREE THOUSAND OSCAR ECHO LIMA
0959			(*)
	SOUTHAMPTON	BROADWAY 10	BROADWAY ONE ZERO CHECKING VENTNOR THIS TIME STEERING THREE FIVE FIVE FOR SAM
	BROADWAY 10	SOUTHAMPTON	THANK YOU I'VE GOT A CONTACT IN THAT POSITION AND ER YOU MAY RESUME OWN NAVIGATION DIRECT BOSCOME DOWN FOR THE POSITION
0959 ½	SOUTHAMPTON	BROADWAY 10	ER ROGER ONE ZERO DIRECT BOSCOMBE THEN STEERING THREE FOUR ZERO ER THANK YOU (**)
	SOUTHAMPTON	OO-JEL	OSCAR ECHO LIMA THREE THOUSAND
	OO-JEL	SOUTHAMPTON	OSCAR ECHO LIMA THANK YOU REPORT OVERHEAD SAM
	SOUTHAMPTON	OO-JEL	WHERE DO I HAVE TO REPORT ? (<i>1 word unintelligible</i>) OSCAR ECHO LIMA
1000	OO-JEL	SOUTHAMPTON	SORRY OSCAR ECHO LIMA SAY AGAIN (*)
	SOUTHAMPTON	OO-JEL	WHERE DO I HAVE TO REPORT OSCAR ECHO LIMA

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	OO-JEL	SOUTHAMPTON	THANK YOU REPORT OVERHEAD THE SIERRA ALPHA MIKE
	OO-JEL	SOUTHAMPTON	ECHO LIMA ARE YOU ROUTEING VIA SOUTHAMPTON
	SOUTHAMPTON	OO-JEL	ER SAY AGAIN PLEASE
	OO-JEL	SOUTHAMPTON	ARE YOU ROUTEING VIA SOUTHAMPTON
	SOUTHAMPTON	OO-JEL	ER NEGATIVE I'M ON ER HEADING TWO SEVEN ZERO FROM ER SEAFORD
	OO-JEL	SOUTHAMPTON	ROGER WHAT IS YOUR INTENDED ROUTEING THEN PLEASE
1000½	SOUTHAMPTON	OO-JEL	ER THE INTENTION IS (***) TO ER GO STRAIGHT UP TO EXETER
	OO-JEL	SOUTHAMPTON	YEAH THAT'S UNDERSTOOD
	OO-JEL	SOUTHAMPTON	CAN YOU SELECT THE SOUTHAMPTON VOR IF YOU HAVE VOR PLEASE
	SOUTHAMPTON	OO-JEL	THE SOUTHAMPTON VOR IS ER ONE ONE FOUR DECIMAL FOUR
	OO-JEL	SOUTHAMPTON	NEGATIVE SOUTHAMPTON VOR ONE ONE THREE DECIMAL THREE FIVE IF YOU SELECT THAT PLEASE THEN GIVE ME YOUR RADIAL AND THE DME RANGE FROM THAT VOR
1001	SOUTHAMPTON	OO-JEL	ROGER THREE (*) (<i>Simultaneous transmission</i>)
	SOUTHAMPTON	BROADWAY 10	BROADWAY ONE ZERO ? ? SAM
	BROADWAY 10	SOUTHAMPTON	BROADWAY ONE ZERO THANKYOU

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	BROADWAY 10	SOUTHAMPTON	AS YOU PASS ABEAM SAM I'LL ER TRANSFER YOU TO BOSCOMBE DOWN UNDERSTAND ER THEY HAVE GIVEN YOU A SQUAWK ALREADY
	SOUTHAMPTON	BROADWAY 10	AFFIRMATIVE SIR AND THAT'S THE HEADING THAT THEY'VE ASKED US TO TAKE UP NOW
	?	?	-(Mic switched)
	SOUTHAMPTON	OO-JEL	ER SOUTHAMPTON COULD YOU GIVE ME AGAIN ER THE VOR ER FREQUENCY
	OO-JEL	SOUTHAMPTON	YES IT'S ONE ONE THREE DECIMAL THREE FIVE
1001 ½	SOUTHAMPTON	OO-JEL	ONE ONE THREE DECIMAL THREE FIVE OSCAR ECHO LIMA (* *)
	BROADWAY 10	SOUTHAMPTON	BROADWAY TEN YOU TURN RIGHT HEADING ER THREE SIX ZERO
	SOUTHAMPTON	BROADWAY 10	ER BROADWAY ONE ZERO AFFIRMATIVE SORRY I THOUGHT YOU CLEARED ME ER BO- ER BOSCOMBE HAD ASKED US TO TAKE UP A HEADING OF THREE FIVE ZERO ACTUALLY (<i>Part word 'BO-'</i>)
1002	BROADWAY 10	SOUTHAMPTON	YEAH THREE SIX ZERO JUST ER FOR THE MOMENT ER BOURNEMOUTH ARE RECOVERING SOME FALCONS (*) SHORT OF FUEL THEY WANT TO EXTEND ER EAST OF THE BUFFER ZONE BETWEEN OURSELVES
	SOUTHAMPTON	BROADWAY 10	OKAY TURNING THREE SIX ZERO
	BROADWAY 10	SOUTHAMPTON	THANKS I'LL TURN YOU LEFT AGAIN SHORTLY
	SOUTHAMPTON	BROADWAY 10	DON'T WORRY
	BROADWAY 10	SOUTHAMPTON	SORRY ABOUT THAT

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	SOUTHAMPTON	OO-JEL	THE OSCAR ECHO LIMA IS ON ER RADIAL THREE TWO FIVE FROM ER SOUTHAMPTON ER VOR
	OO-JEL	SOUTHAMPTON	SORRY IS THAT THREE TWO FIVE RADIAL TO OR FROM THE VOR
	SOUTHAMPTON	OO-JEL	ER THAT'S TO
	OO-JEL	SOUTHAMPTON	THANKYOU WHAT IS YOUR DME
1002½	SOUTHAMPTON	OO-JEL	ER HAVEN'T GOT A DME NOT DME EQUIPPED (**) OSCAR ECHO LIMA
	OO-JEL	SOUTHAMPTON	THANKYOU CAN YOU REPORT CROSSING PLEASE THE ONE SIX ZERO RADIAL FROM THE VOR
	SOUTHAMPTON	OO-JEL	ONE SIX ZERO
	OO-JEL	SOUTHAMPTON	THAT'S IT THE ONE SIXTY RADIAL FROM THE VOR REPORT CROSSING THAT
	BROADWAY 10	SOUTHAMPTON	THANKYOU BROADWAY TEN YOU GO LEFT AGAIN HEADING THREE FIFTY
	SOUTHAMPTON	BROADWAY 10	THANKS SOUTHAMPTON TURNING LEFT NOW
	BROADWAY 10	SOUTHAMPTON	SORRY TO MESS YOU ABOUT LIKE THAT
	SOUTHAMPTON	BROADWAY 10	? ? WORSE (1 or 2 Words unintelligible)
1003	BROADWAY 10	SOUTHAMPTON	(*) YOU'RE ABOUT THREE MILES SOUTHEAST ER CORRECTION SOUTHWEST OF SAM NOW BROADWAY TEN I'VE GOT NO KNOWN TRAFFIC ER REPORT THE HEADING TO ER BOSCOMBE DOWN CHANNEL THREE
	SOUTHAMPTON	BROADWAY 10	ER ROGER TO BOSCOMBE CHANNEL THREE AND IT'LL BE ER HEADING THREE FIVE ZERO THANKS VERY MUCH FOR YOUR ASSISTANCE CHEERIO

<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	BROADWAY 10	SOUTHAMPTON	BYE BYE NOW
1003 ½			(**)
1004			(*)
1004 ½			(**)
1005			(*)
	OO-JEL	SOUTHAMPTON	OSCAR ECHO LIMA SOUTHAMPTON
	SOUTHAMPTON	OO-JEL	OSCAR ECHO LIMA ABOUT ER TO ENTER ER RADIAL ONE SIX ZERO
	OO-JEL	SOUTHAMPTON	THANKYOU BOURNEMOUTH ARE QUITE BUSY WITH FALCONS RECOVERING SHORT OF FUEL CAN YOU ACCEPT A RADAR VECTERING TOWARDS SOUTHAMPTON THEN WESTBOUND TO KEEP YOU CLEAR OF BOURNEMOUTH WHO ARE A BIT BUSY AT THE MOMENT
	SOUTHAMPTON	OO-JEL	ER WILCO OSCAR ECHO LIMA
	OO-JEL	SOUTHAMPTON	THANKYOU REPORT YOUR HEADING
1005 ½	SOUTHAMPTON	OO-JEL	ER HEADING NOW (**) IS TWO FIVE ZERO
	OO-JEL	SOUTHAMPTON	THANKYOU FOR IDENTIFICATION WOULD YOU TURN RIGHT PLEASE ONTO A HEADING OF THREE SIX ZERO
	SOUTHAMPTON	OO-JEL	TURNING THREE SIX ZERO FOR IDENTIFICATION OSCAR ECHO LIMA
	OO-JEL	SOUTHAMPTON	THANK YOU
1006			(*)

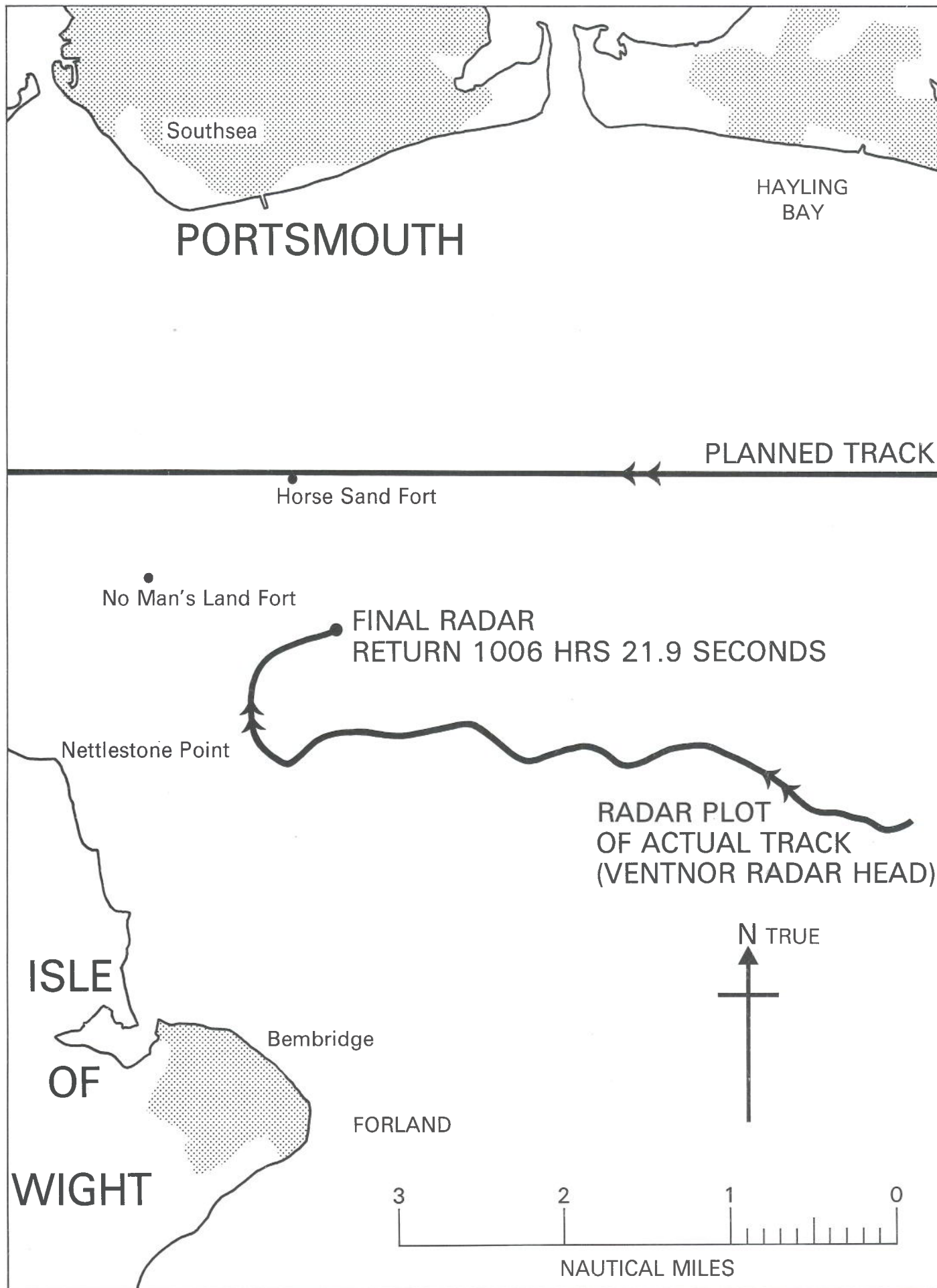
<u>TIME</u>	<u>TO</u>	<u>FROM</u>	<u>MESSAGE</u>
	SOUTHAMPTON	UKA 182	SOUTHAMPTON GOOD MORNING UKAY ER ONE EIGHT TWO'S WITH YOU ON THE TWO ZERO FIVE TWENTYNINE DME LEVEL FIVE ZERO
1006½	UKA 182	SOUTHAMPTON	ONE EIGHT TWO SOUTHAMPTON ZONE ER GOOD MORNING RADAR CONTROL SERVICE PLEASE MAKE YOUR HEADING ZERO FIVE ZERO (**)
	SOUTHAMPTON	UKA 182	HEADING ZERO FIVE ZERO REQUESTING DESCENT
	UKA 182	SOUTHAMPTON	ROGER DESCEND TO FLIGHT LEVEL FOUR ZERO UKAY ONE EIGHT TWO
	SOUTHAMPTON	UKA 182	THANKYOU LEAVING EIGHT ZERO ER FIVE ZERO FOR FOUR ZERO ONE EIGHT TWO
	OO-JEL	SOUTHAMPTON	OSCAR ECHO LIMA ARE YOU HEADING THREE SIX ZERO
	OO-JEL	SOUTHAMPTON	OSCAR ECHO LIMA SOUTHAMPTON
1007	OO-JEL	SOUTHAMPTON SOUTHAMPTON (*)	OSCAR OSCAR JULIETT ECHO LIMA

Twelve calls similar to the last transmission were made by Southampton up to 1015 hrs and one call was made by UK182 at 1009½

NOTE: The asterisks in the 'message' column indicate the time, relative to the recorded speech, at which the digital time quoted in the first column occurs.

Words that were unintelligible are indicated by question marks.

APPENDIX 5



List of abbreviations used in this report.

AAIB	Air Accidents Investigation Branch
ATC	Air Traffic Control
ADF	Automatic Direction Finding
CAA	Civil Aviation Authority
cm	centimetre
C of G	Centre of Gravity
FIR	Flight Information Region
FL	Flight Level
IMC	Instrument Meteorological Conditions
Kg	Kilogram
kts	knots
LATCC	London Air Traffic Control Centre
MHz	Megahertz (frequency)
PPL	Private Pilots Licence
RTF	Radio Telephony
Stn	Station (Distance from aircraft reference datum)
UTC	Universal Time Constant
VFR	Visual Flight Rules
VMC	Visual Meteorological Conditions
VOR	Very High Frequency Omnidirectional Range.