



Officer of the Watch

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Year	Month	Q-nos.	Q-code	Answer
2002	July	3	C/E	Mercury & Jupiter, Gyro 0.2° Low
2002	Nov	1 2.a. 2.b. 2.c.	CGC RVa RVa RVa	3479.25 n.m. 27 th . Nov @ 17 53 GMT 36° 49'.4 S 160° 24'.0 E 339° T @ 6.7knots
2003	Mar	2 4.a. 4.b.	Starfix RVg RVg	42° 46'.4 N 039° 38'.2 W 082° T 1h 06m before sunset (same as Mar 97 Q2)
2003	July	1.a. 1.b. 1.c. 2.a. 2.b. 3.d.	GC GC GC MerPass MerPass RVg	7639.6 n.m. 116°.9 T Dec 07d 15h 41m ST 15d 02h 17m GMT 73° 23'.3 i) 007°T ii) 1107 hrs iii) 1122 hrs iv) 1146 hrs
2003	Nov	1.a. 1.b. 2.a. 2.b.	CGC & GC Ra.Plot Ra.Plot	7926.'1 May 2 nd . @ 03:33 Standard Time 'A' 239°T, 7K, 0.'5@1105, 195°T, G51° 'B' 068°T, 6K, 1.'5@1117, 080°T, R92° 'C' 087°T, 8K, 0.'5@1120, 277°T, R76° 'D' 126°T, 6K, CPA has Passed, G4° Either Reduce to 5.2K Or Alter course 40° to stb'd to 175°T
2004	Mar	1.b. 1.c. 2.a. 2.b. 2.c. 5	RL & GC RL & GC RVg RVg RVg Starfix	1164.'3 + 2305.'3 = 3469.'6 Indirect route saves 11h 49m + other benefits Co. 008°T RV @ 22 20 GMT Daylight remaining: 1h 08m 1830hrs fix : 46° 34'.0 N 017° 49'.1 W
2004	July	1.a. 1.b. 1.c. 2.a. 2.b.(i) 2.b.(ii) 3.a&b 5.a&b 5.c.	GC GC GC Ra.Plot Ra.Plot Ra.Plot Sight RVa RVa	6490.'0 (6424.0 + 66) April 11 th .@ 11.00 Standard Time Init. Co. 094°.5 T 083° T @ 4.8 k @ 10.47 003° T P/L 003°.5 T/ 183°.5 T, 10° 42' S 130° 18'.1W 30 th .@ 04.02 GMT, 61° 44'.5 N 022° 09'.2 W 299°.8 T x 12.34 k.
2004	Nov	1.a.b. 1.c.d. 2.a 2.b 2.c 3.ai,aii	GC GC RVa RVa RVa RVg	a) 6518.9' b) 096°.8 T c) 44° 01'.4 S. 177° 21'.7 W. d) 087° 21'.7 W a) 09 47 GMT 13 th . May b) 28° 58'.1 N 069° 26'.9 W c) 204°.6 T @ 12.26 k ai) 050° T aii) 1307 hrs

<u>Paper</u>	<u>Q.</u>	<u>Answer</u>
Mar '05	1	(a) 3204nm, (b) 092.5°T, (c) 26° 55.6'S 158° 46.3'E (d) 19.4'N
	3	(a) 61°33.2'N, 038° 54.3'W
July '05	1	(c) (i) Approx 51° 06'S 095° 00'E (ii) 42°S and approx. 83° E and 119° E. (d) 5452 nm, (e) ETA Jan 1 st 2344 ST.
	4	(a)&(b) PL 002.6°/182.6°T through 41° 23.3'S 132° 28.3'E (c) Deviation 4° W
Nov '05	1	ETA Colombo May 27d 16h 50m ST
	3	(a) 351°T, (b) ETA 1345, (c) Brg 016°T
Mar '06	1	1529.2 + 529.8 + 1762.2 = 3821nm
	2	Latest time 9 th April @ 0844hrs
	5	(b) A/C @ 1028 to 178°T (d) B @ 1040 = CPA 0.3nm, TCPA 1121, BCPA 008°T
July '06	2	(a) 6253, (b) 42° 26'S, 136° 26.6'W, (c) 35.1nm
	3	(a) 21 st March 2122hrs, (b) 3 rd April 1848hrs
	5	(c) Reduce to 4.6 kts to maintain a minimum of 2.0 nm CPA with all targets.
Nov '06	1	(a) 3426.2nm, (b) S 71.5° E, (c) 38° 4.7'S, 49° 26.2'E
Mar '07	1	(b) (i) 4704nm, (ii) 4283 nm, (iii) 19 th June 0956 ST
	2	(a) 10 th June 1933 GMT, (b) 50° 20'S 174° 33.9'W (c) S 63.0° E / 15.1 kts
	4	(c) 6.8°W
July '07	1	(b) (i) 4778, (ii) 270°T, (c) 15.4' North of shoal
	3	10° 18.6'S 057°42.5'E
	4	(b) A/C 320°T
Nov '07	4	(c) Reduce speed to 5 kts
	5	0427 hrs UT
Mar '08	1	(a) 6372.5nm (b) 29 th Sept 05 50 ST
	3	(a) 17 th 1948 UTC (b) 35° 39'.5 N 149° 17.47' E (c) 005°T x 12.65k
	5	(b) 2kts astern
July '08	1	(b) 2138.5nm (c) ETA = 11 th 2115 GMT or 12 th 0015 ST
	2	(a) (i) A = 262°T C = 322°T D = 305°T (ii) A = 9.5k C = 9.5k D = 4.4k (iii) A = R8° C = G86° D = R3° (b) 050° x 2.0k (d) i) A/C to starboard by 29° to 327°T (ii) A = 1.2 B = 1.0 C = 3.7 D = 1.1
	3	(a) Sunrise : 24 th June at 0424 UT (b) 38° 08'.1 N 3° 27.7' E (c) 202.4°T 12.6 knots
Nov '08	1	(a) 1748.8nm (b) 278.8°T (c) 59°7.6' N 015°16.5'W (d) 25 th 1011 ST
	3	(a) 0.9° – 1° W (b) 3.3°E - 3½°E

March 2009

1. 6.2m at 1624
2. GC 3449' RL 3519.7' ETA difference 35mins

July 2009

1. 4026.4' IC 035.6⁰T position of vertex 54-23.4N 088-50.0W 46.9' to the South
2. MPP 03-29.6N 173-56.9W
5. Targets

	A	B	C	D
CPA		0.1	1.8	coll
TCPA		1301	1303	1245
CO	set 324	120	100	010
SP	rate 3kts	12.9	18	9.3
AS		G71	R23	R53

November 2009

1. 5210' ETA 01 Feb 05-15
2. From plot course to steer 121, ETA 1201hrs
4. Position 39-13.7S 095-18.4E

<u>Paper</u>	<u>Q.</u>	<u>Answer</u>																								
Mar '10	2	a) GC Comp 2919.1nm, RL 2911.6, Diff- 7.5nm																								
	3	a) H.O.T – 1.2m b) 0902/ 17 th March c) UKC 2.7m																								
Jul '10	1	a) (i) 2483.6 nm (ii) 3032.6 nm b) 5767.7 nm c) 22 nd Jun 2259 ST																								
	2	a) 13 th Jun 2354 UT c) 3 star solution 28° 34'.6 S 094° 35'.0 W 4 star solution 28° 32'.4 S 094° 33'.7 W																								
	4	a) Target "A" - 003° (T), 3'.6, 0.35nm, 31 min (0346), R 87°, 270°, 8.0 kts Target "B" - 179° (T), 3'.3, Collision, 25 min (0340), G 25°, 334°, 16.8 kts b) Set- 109° (T), Drift – 0.85 nm c) A/C 33° to STBD (348° (T)) d) a) 1.6 nm b) 0326 hrs																								
Nov '10	1	a) i) 4915.7 nm ii) 095° (T) iii) 54° 39'.3 N 138° 38'.4 W b) 24 th Sep 1509																								
	3	a) 21 st 1639 UT b) 53° 54'.9 N 163° 43'.8 W c) 194.8° (T) 9.9 knts																								
	5	a) 2 nd 1648 c) V/L is neaped, 25 th Aug PM Flood Tide																								
Mar '11	1	a) GC Dist = 3504.7 nm b) 32° 51'.5 N 076° 00'.0 W c) 0.5 nm to North																								
	2	a) 31° 53'.0 N 065° 22'.4 W																								
	5	(a) <table border="1"> <thead> <tr> <th></th> <th>Course</th> <th>Speed</th> <th>CPA</th> <th>TCPA</th> <th>Aspect</th> </tr> </thead> <tbody> <tr> <td>Target A</td> <td>322°</td> <td></td> <td>13.5</td> <td>1.0</td> <td>0703 R 72°</td> </tr> <tr> <td>Target B</td> <td>346°</td> <td></td> <td>19.2</td> <td>0.7</td> <td>0645 R 25°</td> </tr> <tr> <td>Target C</td> <td>057°</td> <td></td> <td>9.6</td> <td>0</td> <td>0648 G 68°</td> </tr> </tbody> </table> (c) 2.1 knots (d) Target A = 049° x 4.9 Target C = 318° x 4.8		Course	Speed	CPA	TCPA	Aspect	Target A	322°		13.5	1.0	0703 R 72°	Target B	346°		19.2	0.7	0645 R 25°	Target C	057°		9.6	0	0648 G 68°
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Jul '11	1	a) GC Dist = 9237.1 nm b) Final Course 274.2° (T) c) Vertex 35° 31'.0 N 132° 28'.1 E																								
	2	a) P/L 162.1° to 342.1°, Int 5'.6 (Away) b) 11° 36'.0 S c) 11° 36'.0 S 121° 49'.4 W																								
	3	b) 128° (T), 219.4 nm																								
	4	a) 21 st 1843 UT b) 24° 27'.6 N 166° 32'.3 E c) 265.4° (T), 32.4 knts																								
Nov '11	1	a) (i) 45° 00' S 66° 54'.2 E, 45° 00' S 140° 50'.7 E (ii) Dist = 6781.9 nm (iii) 092.4° (T), 7314.2 nm																								
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	4	(c) (i) Between 0456 to 0524, 31 st Dec (ii) 172° 59'.9																								
	5	(b) 19 th Jan 0251																								

Mar '12	1	a) (i) GC Dist = 4560.1 nm (ii) 294.5° (T) (iii) 40° 15'.9 S 155° 36'.3 E																								
	5	(b) (i) Tgt A: Co 154° (T) Spd 11.5 kts (ii) Tgt B: Co 332° (T) Spd 12.5 kts (iii) Tgt C: CPA 1.8 nm TCPA 34 min (0052) Spd 25.5 kts (c) 106° (T) (e) A/C to 091° (T) A/S to 17.0 kts																								
Jul '12	1	(a) (i) 4.1m (ii) 2044 hrs																								
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Aspect	R 23°	G 40½°	R 34°																							
	3	(a) (i) RL- 3535.5 (ii) GC- 3464.5 (iii) 260.2° (T) (b) RL is economical by 8h 32m																								
	5	(a) 24.2° (T) ~ 204.2° (T) (b) 24° 21'.6 N 61° 48'.6 W (c) 3.2° E																								
Mar '13	1	(a) 7109.4 nm																								
	2	(a) 4.8 kts, 260° (T)																								
	4	(a) Between 0612 to 0639, 23 rd Jun (c) Hamal/Peacock, Canopus/Enif																								
	5	(a) 252.9° (T) (b) 212° (T) (c) 2052 hrs																								
Jul '13	1	(b) (i) 3845.2 nm (ii) 276.4° (T) (iii) 55° 14'.9 S 72° 14'.1 W (iv) 33.1 nm																								
	2	(a) (i) 054° (T) (ii) 11 th 0253 UT (iii) 25° 04'.0 S 137° 40'.4 W , (b) 1h 01m																								
Nov '13	1	(c) (i) GC 3258.6 RL 3315.0 Saved 56.4nm (ii) 15 th 2109																								
	3	(a) (i) 137.9° ~ 317.9° (T) (ii) 7.3 Towards (b) (i) 30° 04'.5 S (ii) 30° 04'.5 S 003° 58'.3 W																								

2014

MARCH

Q1. 3494.8 IC 045.7 (T)

VERTEX 49° 52.5 S LONG 11° 04.9 W

Q4. A C B

C° 090 108

Spd 12.5 4.3 Set 255

CRA 1.4 0.6 DR. 0.6

TCRA 1758 1758

Aspect 138R 336

iii) Speed for 'c' 2.5 kts

JULY.

Q1. Total Dist. 4885' ETA 24th JAN 2019 A/S ST.

Q3 Deviation 13.6 E

NOVEMBER

2015:

MARCH:

Q1. DIST. 980.2 E7A JUNE 9th 0157 HRS. (ITALY S.TIME)

Q4. MPP. 38° 44.5' N 008° 22.2' E

Q5. 113° x 3.9

JULY:

1. G.C. 7902.4, R.L. 8264.4
G.C. Shorter by 13.4 HRS