

	8.60	+100	863	+95	2.180	01:00	95	11/17/81
	8.44	+76	845	+165	2.179	00:50	105	11/17/81
V 500	8.79	+209	944	-161	2.152	01:00	125	11/17/81
500 (2)	8.61	+98	867	+61	2.186	00:20	150	11/17/81
742	+0.556	05:20	17	July 81	7.75			
7.99	+0.579	04:45	17	July 81	7.81			
8.13	+0.612	03:20	19	July 81				
8.27	+0.615	03:45	20	July 81				
8.17	+0.544	00:10	23	July 81				
	8.76	+193	921	-88	2.178	03:15	24	Aug 81
	8.82	+149	981	-72	2.120	07:25	15	June 81
	8.60	+93	855	+105	—	06:45	16	June 81
	8.91	+248	966	-181	2.147	07:15	30	June 81
	8.42	+90	837	+154	2.182	05:15	26	July 81 (60)
	8.44	+95	926	+134	2.193	03:55	22	Aug 81 (40)
	8.65	+152	990	-837	2.180	03:45	23	Aug 81 (40)
	8.76	+193	921	-88	2.178	03:15	24	Aug 81 (40)

White Sea (2)

30 Aug 31 Aug 5 Sept 16 Sept 27 Sept

~~1 Aug 83~~

6.94 -41 1007 28 - 2.153 05:10 21 July

6.42 -202 927 +6 2.185 05:05 24 July

June

6.62 -119 (1003) -179 (2.167) 03:15 22 Aug 81

6.37 -208 924 +6 2.196 01:30 27 Aug 81

6.45 -194 939 -8 2.176 00:30 10 Sept 81

6.70 -93 1006 -204 2.161 09:00 2/May 82

6.83 -65 1036 -263 2.163 09:10 22 May 82

6.60 -150 995 -124 2.184 05:10 30 June 82

6.67 -113 1007 -180 2.175 04:55 1 July 82

6.65 -116 996 -173 2.166 00:55 2 July 82

83
~~28 May~~
~~1 June~~
~~1 June~~
~~1 June~~
~~1 June~~

23 July 24 25 26 20 Aug, 21 Aug
 V636 Sec ✓ 17 21 20 -45 36 63-69 65

→ ~~5430~~ 1481

92st 97

March 5
 March 20, 4

14 June
 15 June
 16 June
 17 June
 18 June
 20 June
 21 June
 22 June
 23 June
 24 June
 25 June
 26 June
 27 June
 28 June
 29 June
 30 June
 1 July
 2 July
 3 July
 4 July
 5 July
 6 July
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 21 July
 22 July
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 24 July
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 26 July
 27 July
 28 July
 29 July
 30 July

8.9

2.00 -48 1042 -267
 6.68 -143 948 -146
 6.41 -208 927 +14
 6.42 -201 923 +11
 6.57 -148 966 -114
 6.69 -55 992 -207
 6.66 -105 987 -180
~~6.37 -208 929 +6~~

2.143 07:00 29 June
 2.152 01:50 24 July
 2.180 03:20 25 July
 2.164 04:35 22 July 80
 2.165 04:00 23 July 80
 2.144 04:45 31 July 80
 2.151 01:40 3 Sept 80
~~2.196 01:50 2~~

May 4 1984 →
V636500

~~8, 9 July 83~~ ~~15 Aug~~ ~~15 Aug~~ ~~24 Aug~~
~~25 Aug, 7 Sept~~

~~30 Sept 83~~
~~4 Oct 84~~
~~5 Oct 84~~

6.57 -140	957 -103	2.172	05:30	29 May 83
6.64 -106	995 -153	2.172	05:40	31 July 83
6.61 -130	996 -154	2.161	02:20	19 Aug 83
6.40 -208	928 +49	2.189	03:20	24 July 84
6.50 -156	953 -83	2.175	02:30	30 July 84

28 July
29 July
30 July

11/11/82

~~205508~~

2.9 Aug 84 / 18 Sept 84

SSSut(2) 8.06-121 886-15 2.175 0205

8.22	-068	908	-127	2.163	01:35	9 Sept 83
8.30	-36	926	-189	2.153	03:10	8 Sept 83
8.05	-111	885	-36	2.176	00:15	3 Oct 83
8.11	-103	896	-46	2.176	04:00	30 July 84

~~11/11/82~~
~~3 Sept 83~~
~~6 Sept 83~~
~~10 Sept 83~~
 11/11
 10 Sept 83
 11/11

17 Aug 2014

July 23, 25, 26, 30

55 Set

18 42 40 -7

45

2.97-
8.43 ✓
3.5

17 Aug
18 Aug
19 Aug
20 Aug
21 Aug
22 Aug
23 Aug
24 Aug
25 Aug
26 Aug
27 Aug
28 Aug
29 Aug
30 Aug

7.55	-125	836	+64	2.173	04:35	24 Aug 80
8.47	-28	943	-207	2.154	02:20	17 Oct 80
8.08	-155	985	+39	2.181	03:10	22 Sept 80
8.07	-154	985	-13	2.180	04:30	22 Aug 81
8.48	-48	970	-234	2.150	03:35	5 Sept 81
7.95	-175	992	+45	2.192	03:35	6 Sept 81
8.18	-79	909	-98	2.163	01:45	7 Sept 81
8.15	-105	906	-74	2.186	05:15	1 Jan 82
8.25	-55	925	-131	2.164	01:30	2 Sept 82

April - 9

3.39

RWA

15 17 55 -66 26 6:35 - 7:05 v

6.86 -198 974 -203 2.141 04:10 2 July 80

6.59 -292 920 -51 2.179 01:00 23 July 80

6.81 -202 978 -192 2.149 00:55 25 July 80

6.66 -239 936 -125 2.140 23:25 6 Sept 80

6.82 -200 969 -175 2.149 01:55 22 July 80

6.88 -216 959 -183 2.155 03:00 23 July 80

6.78 -305 926 +9 2.170 02:50 31 July 80

6.78 -304 923 +6 2.186 23:55 25 Sept 80

6.79 -198 966 -157 2.150 00:10 4 Sept 80

6.41 -353 917 +53 2.202 23:40 15 Sept 80

~~22 March~~

25 Mar

26 Mar

26 Mar

82
P.T.A. 6.37-3.51 917 +87 2.202 07:35 24 Min
6.58-2.31 952-128 2.104 09:00 30 Min P2
6.54-2.20 923-64 2.179 05:00 90 Min P2
6.85-1.98 974-191 2.154 05:15 10 Min P2

STNA

6.78 -147 1040 -3012 2.148 01:10 18 Aug 80

6.56 -173 1037 -252 2.144 02:05 23 Aug 80

6.49 -214 1019 -196 2.138 04:00 22 July 80

6.69 -163 1062 -274 2.137 04:30 23 July 80

6.53 -237 987 -196 2.150 03:05 31 July 80

6.26 -264 984 -104 2.164 00:50 35 Aug 80

6.37 -260 1011 -133 2.157 23:50 15 Aug 80

(6.28 -284 988 -57 2.147 23:40 21 Aug 80)

RT TWA ✓

16 32 35 -63 06

98-111 195^d

22711 CW?

⊗ ⊗

9.97 -239 1048 -600

2.129 06:15^{2 July 80}

9.97 -245 1059 -566

2.153 02:50 12 Aug

9.67 -240 1060 -357

2.165 02:30 13 Aug

9.98 -262 10316 -281

2.167 02:25 14 Aug

9.46 -360 949 -4

2.187 00:40 7 Sept 80

10.20 125 1247 -764

2.149 00:45 25 Sept 82

9.57 -331 971 -29

2.193 00:55 3 Oct 82

9.53 -321 990 -90

2.199 00:15 5 Sept 82

9.57 1310 1022 -765

2.195 00:25 7 Sept 82

leO with

Early + Late

7.4

V val ✓✓ 09 21 40 = 55 888 72-72

✓✓ 7.84 -134 951-231 2134 05:20 7m 50

✓✓ 7.77 -180 937-204 2144 04:35 8m 50

✓✓ 7.31 -286 896+99 2181 05:00 9" "

✓✓ 7.78 -187 963/-236 2145 05:45 11" "

✓✓ 7.24 -317 865+150 2195 05:25 13" "

✓✓ 7.51 -207 895-73 2153 05:30 14" "

✓✓ 7.54 -200 932-106 2151 07:45 27m 50

✓✓ 7.76 -144 972-209 2140 07:50 28m 50

✓✓ 7.91 -118 993-271 2141 07:40 29" "

✓✓ 7.31 -306 886+81 2194 07:30 30m 50

67:20 ✓✓

2:11:13 ✓✓

2:15:13 ✓✓

2:45:13 ✓✓

2:47 ✓✓

2:47 ✓✓

\overrightarrow{STAA} ✓ ~~2 Aug 23 Aug~~ ✓ β 66681 $\frac{5.2}{6.0}$
 5939 ✓ 15 59 20 -63 44 6.3

Done

6.24 286 984 -51 08:00 26 Mar 78 40"
 6.41 155 948 -179 08:55 27
 6.73 175 1049 -266 09:10 5 Apr 78 24"
 6.72 151 1077 -291 09:15 4 " "
 6.38 228 996 -154 09:15 2 Apr 78 24"
 6.60 171 1046 -250 07:55 16 Apr 78 16"
 6.60 228 1011 -224 07:55 18 Apr 78 16"
 6.05 371 916 +147 07:55 19 Apr 78 16"
 6.22 293 940 +13

Ln 26

10290

18.5

17.2

S. 79

10215

08.40¹ m

25

S. 29

10211

08.10 19m

25

5 TA H(3)

6.14	312	969	-14	2.179	03:20	22 July 87
6.53	185	1035	-237	—	08:25	27 July 87
6.04	-351	902	+125	2.201	09:50	22 Aug 87
6.25	-282	981	-59	2.179	01:10	23 Aug 87
6.40	-223	1015	-182	2.162	01:15	24 Aug 87

-5809344

16

11

20

-54

10.5

8.74 + 78

R2IG

cl (X) (X)
60

8.76 +427 1485 -700 5 Sept 80

8.78 +419 1488 -700 6 Sept 80

8.77 +423 1486 -700

1.161 923 1977.91 +0.599 14 Apr 81

348 0.01 292 +0.603 11 Apr 81

7.87 +0.599 10 Sept 80

7.91 +0.602 8 Sept 80

7.90 +0.604 9 "

7.90 +0.603 (5)

R R R

7.5

5307234 16 11 15 -54 05 10.20 +26 .

(X)

-5307467

16

12

16

-54

15

10.59

0511

10.66 568-778-444 2159 10A75

(202)

-13

131 056 459 2185

(98)

(43)

(603)

98
11.6
11.

5307424

1164 -502 732 -113 2253 29 May 82

(682)

1.55

197 018 507

2750

1.60

432

10.6

55.0

10.15

-5307347 16 11 20 -54 14.5 10.34+13

10.45 ~~505~~ 743-447 2.190

29

141

2.662

141 025 0.411

(070)

(373)

1.01
1.01
2.01
1.01

425

7398?
8664
-5307402

16 11 40 -54 08 10.23 852
11.18 464 749 -224 2232 55080

(X)
2024

888
229 047 657 2476
146 147 923

1824

10950
10950

15307426

10.74 B7 III

1080 450 752 -120 2.230 10/11/11 ✓
 1080 441 763 -155 2.252 28/11/11 ✓
1080 446 757 = 737 2.241

209 286 041 283 2.735
 120 120 731
 921

14 9.05
 -0.9
10.14

9.55 252 037 800 2.722
 11.5 113 150
10.14 979

5307402

10.23 05 III

(A) 10.30 - 506 767 - 156 2.235 10 APR 22
 10.28 - 503 782 - 185 2.252 24 APR 22
 10.24 - 504 775 - 170 2.248

(243) 195 058 749 2.234
 118 811 714 950
 950 9.25

2015

(242)

59

9.25 193 051 763 2.728
 109 946
 946

530732

10.92

10.94 535 1793-5313 2.244 23Apr 12

10.55

52117

999 441 647 II

92185

9.54 497 647 II

530223

10.12 452 617 II

530242

9.31 414 677 II

5311

10.83 464 737 II

~~53055~~

~~7.89 470 777 II~~

53101

10.24 466 797 II

53113

9.46 476 757 II ←

~~53017~~

~~10.54 471 727 II~~

145415

-5309742

16 11555

-54 04

B940

8.62 + 1.15 F9

climbing

136

41
376
024

By 26/2/78

58
 530945- 11 12 10 -54 11 10.36 +02
 10.43-414 3328 -65
 10.42-413 3119 +43 2.230
 2.229 10.41
 2.223

2.219 52450
 2.224 80452
 2.224
 2.226

64-413 720 -49
 10.42-413 708 -39
 10.40-413 720 -49

290 007-873277
 518 815
 2.226

10.4190
 1.3 3
 10.1

~~-530 738 814~~ ~~√66~~ 11 35 -54 14 10.55 852
~~738 814~~ 11 36 -54 14 10.55 852
 530 7690 10.76

10.77 531 734 -32 2090 10 April ✓
 10.71 -542 735 -5 2.074 8 April ✓
 10.74 -541 727 -2 2.062 9 April ✓
 10.74 538 732 -13 2.074 (3)

1185 ~~155 018 920 2.650~~ 1000

9.9
 2.4
 12.

063 889
 124
 1015

5307355

10.55 055

10.65 -502 745 -157 2231 29 May 21
 10.17 -503 758 -153 2.235 10 Apr 21
 10.65 -495 766 -184 2.232 28 Apr 21
 10.66 -500 757 -160 2.234

1989 04 259 2729

(1727)

(9267)

(1060)

(110)

(922)

10 9.6
 -9.5

 10.55

196 042 -cho 741 rec. 2722

966
 10.6
 10.1

(727)

(101)

(926)

1537284

1015101

① 10.15-455 748-21 2.207 10 Apr 22
 10.17-454-254-777-18 2.200 23 Apr 22
 10.18-454-454-762-45 2.218

205 046 878 2.205

240

118 811

1073

9115

14 14.5

128

204 033 902 2.091

915 516 118 611 1050

12065

1065

B2H

-5807353 16 11 25 -54 09 900 +15

(+)(+)

905-515-731-157 2154 28 Aug 50
 902-502-697-653 2130 5 Sep 50
 903-515-774-653 2187 6 Sep 50
 902-515-706-655 2188

170 011 244 2620

665 2140 339

FACT 11
 1076
 8.1.50
 -2/9

33
-5407350 BF 16 11 25 -54/ 01 8.8-10 BF

(X) (X) (X)
8.86-543 717 -654 . 2.125 8 Apr 02
8.81-5319 722-673 2.123² 6 Sep 00
8.86-544 748 -670 2.133 715 Apr 00
8.84-542 720 -666 2.127

Exp 253

150 007 237 2.599
051 206
306
=

775
391
1170

145324 F016

4574

-5409226 14 0 05 -54 185 200

(*)

229-444 813 +608 2259 51250
730-435 808 +687 2255 26150

262-297 980 165 2754
151 151
160

011

529

119
117

(2)

-53° 7400A 16 11 45 -54 11. 8.25 + 1.10 GOIG

777 + 0.435 1000V 51	808	704	10"	9.00 + 48	FOIG
75 + 0.451 1000V 51	824 - 19	977 - 132			2.165 55780
74 + 0.449 1000V 51	834 + 5	1043 - 211			2.11.1 5mg 80
71 + 0.421 1000V 51	835 - 24	970 - 132			2.175 10 Aug 80
	832 + 5	1013 - 795			2.147 26 Aug 80

882 + 0.205 1000V 345 058 1.478 2.912

9.01 - 357	807	+ 532	2287	26 Aug 80
9.04 - 352	890	+ 549	2295	55.180
9.02 - 354	888	+ 537	2325	

5302100

A 9.24 -12 963 -126 2.147 5.580 60^v
5.35-24 970 -132 2.195 11.840

7.34 +5 1040 -124 2.161 5.580
1.72 +8 1013 -155 2.147 26.840

930 -26 980 -132 2.161 ②

697 247 788 2.640

15 Feb 11 01:00 58404 500

034

15 Feb 11 01:00

15 Feb 11 11:04 - 034

15 Feb 11 01:00

15 Feb 11 12:04 - 034

15 Feb 11 03:00

15 Feb 11 12:04 - 100

15 Feb 11 05:00

15 Feb 11 04:04 - 500

15 Feb 11 05:50

15 Feb 11 15:04 - 584

-5847400 A

112 211
207 200 271

53074074

9.04	-355	752	+549	2.296	80752
9.06	-361	803	+539	2.280	90003
9.07	-355	802	+552	2.299	100002
9.05	-353	805	4994	2.319	230005
9.04	-357	806	+551	2.299	290004
9.08	-365	817	+541	2.302	50008
-356	807	546		2.310	

2.30

-5807400 A

8.30 -31 ~~1079~~⁹⁹⁶ -119 2.191 03:20 2 July 52 ✓

8.26 -35 992 ~~999~~ 2.193 03:20 3 July 52 ✓

↳ 8.33 -3 1027 -197 2.160 05:55 8 July 52 ✓

8.43 +24 1050 -220 2.171 01:40 9 July 52 ✓

8.50 +63 1086 -276 2.152 01:45 10 July 52 ✓

5307400 X

07:00

06:00	8.58	+71	1101-352	2.06	94gr
06:50	8.57	+56	1078-340	2.155	104gr
07:00	8.53	+24	1042-264	2.192	114gr
06:45	8.38	-9	993-206	2.194	244gr
06:35	8.57	+62	1111-358	2.170	17mg
06:20	8.60	+80	1089-352	2.162	2mg
04:15	8.29	-33	966-102	2.183	30mg
05:15	8.29	-23	958-90	2.185	30mg
03:50	8.42	-1	1024-217	2.159	30mg
04:30	8.34	-26	997-148	2.193	19gr

145h1

8.86	-144	898	+34	2.195	06:35	20mg
8.88	-133	918	+19	2.208	06:15	30mg
8.89	-95	948	-63	2.204	02:55	30mg
8.99	-125	954	-71	2.202	04:40	1mg
8.99	-169	911	+70	2.215	04:25	2mg
8.92	-136	913	+23	2.202	03:35	3mg

172

Sept 19 20 (21) (22)

144572

16

09 50

-54 18

+65
8.46 ALI

-540719 ✓

05.00

2 mag 70

X

8.76 -105 912 +65

2.186 17 Aug 70

40

9.01 -97 944 -58

2.185 03.45 15 July

Var.

8.76 -116 993 +53

2.190 03.10 12 Aug 70

(X) (X) (X)

8.82 -128 928 -21

2.184 02.40 13 " "

8.85 -117 929 -29

2.164 01.30 17 Aug 70

(X) (X)

9.06 -85⁹⁵ 953 -96

2.156 02.05 18 Aug 70

8.83 -148 924 +7

2.186 02.15 23 Aug 70

8.97 -92 944 -74

2.167 02.10 25 Aug 70

7.35-??

144572(2)

9.02	-26	944	-73	2.178	02:10	26 Aug 70
-	8.80	-159	915	+36	2.190	00:45 27 Aug 70
-	8.82	-155	924	+42	2.184	00:55 28 Aug 70
9.00	-80	936	-27	2.159	00:40 29 Aug 70	
9.00	-81	937	-38	2.159	00:35 6 Sept 70	
8.83	-143	899	-27	2.180	01:10 7 Sept 70	
8.97	-147	969	-58	2.197	00:25 16 Sept 70	
8.95	-118	942	-1	2.160	00:45 24 Sept 70	
8.52	-129	949	-74	2.171	05:30 24 Aug 70	
9.05	-93	988	-101	2.192	01:45 12 Sept 70	

5/23.649

181 68112 846 521 185 284

NW

~~-5506802~~ 10.88 +52 -0.28 2.684

-5406791 10.41 +56 -0.46 2.615

-5406846 10.36 +43 -0.52 2.596

5507003 10.50 +76 -0.28 2.599

~~5007304~~

200
-5306701 1070989 15 47 10 -54 11 10/24/05
12:

10.41 +0.70 -0.21 2.609 18W

418.0 = b

560 (2nd)

6.50 (2nd)

15.6 = 1A

502
302

Q87 5-

-530 6708 15 53 30 -53 5D.5

9.14

2.05
x 54 = 32