

COOP COMPUTATION BOOK**152 NUMBERED PAGES / $11\frac{3}{4}$ x $9\frac{3}{8}$ INCHES**

NAME	NUMBER
Ida Green - 12	

Course magnetometer dataUsed from 18 Sept 19 74, to 19HARVARD COOPERATIVE SOCIETY
1400 MASS. AVE., CAMBRIDGE, MASS. 02138TECH. COOP
84 MASS. AVE. CAMBRIDGE, MASS. 02139

Date	Time (CDT)	8	Date	Time (CDT)	8	Date	Time (CDT)	8
18 Sept	2130	50412	1915	49122	0430	48890		
	2135	50420	1930	49113	0445	48889		
	2140	50435	1945	49107	0500	48891		
	2145	50430	1900	2019 49079	0515	48892		
	2150	50430	1915	2023 49077	0530	48886		
	2155	50425	1930	2027 49086	0545	48891		
	2200	50424	1945		0600	48888		
	2215	50424	2000	49093	0615	48880		
	2230	50406	2015	49083	0630	48862		
	2245	50387	2030	49090	0645	48844		
	2300	50345	2045	49069	0700	48824		
	2315	50313	2100	49063	0715	48830		
	2330	50280	2115	49063	0730	48831		
	2345	50255	2130	49066	0745	48825		
19 SEPT	0030	50198	2145	49062	0800	48818		
	0100	50179	2200	49076	0815	48815		
	0130	50137	2215	49081	0830	48814		
	0200	50121	2230	49077	0845	48814		
	0230	50063	2245	49078	0900	48811		
	0300	50027	2300	49073	0915	48807		
	0330	49998	2315	49063	0930	48805		
	0400	49959	2330	49030	0945	48803		
	0430	49914	2345	49007	1000	48795		
	0500	49884	20II 74 0000	48988	1015	48795		
	0530	49842	0015	48966	1030	48784		
	0545	49808	0030	48954	1045	48767		
	0600	49778	0045	48942	1100	48753		
	0615	49745	0100	48926	1115	48756		
	0630	49720	0115	48922	1130	48762		
	0645	49694	0130	48920	1145	48770		
	0700	49669	0145	48916	1200	48769		
	0716	49644	0200	48912	1215	48769		
	0730	49625	0215	48905	1230	48772		
	0745	49611	0230	48897	1245	48770		
	0800	49589	0245	48890	1300	48771		
1805	49150		0300	48888	1315	48771		
1815	49145		0315	48893	1330	48771		
1830	49138		0330	48900	1345	48776		
1845	49143		0345	48896	1400	48781		
1900	49137		0400	48895	1415	48781		
			0415	48892	1430	48785		
					1445	48785		
					1500	48785		

Date	Time CDT	f	DATE	Time CDT	f	GMT DATE	GMT Time CDT	f
22 Sept	0630	48184		1635	48011		0315	48063
	0645	48178		1645	48010		0330	48060
	0700	48181		1700	48012		0345	48054
	0715	48188		1715	48012		0400	48050
	0730	48188		1730	48012		0415	48046
	0745	48180		1745	48009		0430	48044
	0800	48169		1800	48001		0445	48039
	0815	48161		1815	47992		0500	48036 48036
	0830	48160		1830	47989		0515	48032
	0845	48156		1845	47991		0530	48025
	0900	48150		1900	47997		0545	48024
	0915	48138		1915	48003		0600	48020
	0930	48137		1930	48009		0615	48013
	0945	48132		1945	48010		0630	48003
	1000	48129		2000	48014		0645	48001
	1015	48126		2015	48022		0700	47995
	1030	48129		2030	48018		0715	47992
	1045	48130		2045	MISSED		0730	47987
	1100	48133		2100	48031		0745	47974
	1115	48132		2115	48033		0800	47967
	1130	48136		2130	48042		0815	47960
	1145	48140		2150	48049		0830	47954
	1200	48144		2200	48057		0845	47951
	1215	48146		2215	48065		0900	47948
	1230	48128		2230	48066		0915	47948
	1245	48119		2245	48070		0930	47945
	1300	48108		2300	48072		0945	47947
	1315	48098		2319	48074		1000	47939
	1330	48090		2330	48079		1015	47933
	1345	48084		2345	48083		1030	47927 47927
	1400	48079		2400	48088		1045	47917
	1415	48074	23 Sept	0016	48093		1100	47907
	1430	48068		0030	48098		1115	47894 47901
	1445	48062		0045	48099		1130	47894
	1500	48056		0100	48099		1145	47889
	1515	48048		0115	48098		1200	47887
	1530	48042		0130	48096		1215	47887
	1545	48037		0148	48090		1230	47889 1845 47887
	1600	48030		0200	48092		1245	47887 1900 47887
	1615	48020		0215	48087	GMT	1300	47889
				0230	48081		1315	47889
				0245	48073		1330	47889
				0300	48068		1345	47887
							1400	47887
							1415	47887
							1430	47887
							1445	47887

DATE TIME GMT

1915 47877

1930 47872

1945 47873

2000 47869

2015 47865

2030 47863

2045 47854

2100 47849

2125 47844

2130 47842

2145 47846

2202 47847

2215 47830

2230 47847

2245 47842

2300 47834

2315 47831

2330 47825

2345 47820

2400 47817

0015 47816

0030 47814

0045 47813

0100 47813

0115 47810

0130 47810

0146 47808

0200 47812

0215 47812

0230 47813

0245 47817

0300 47814

0315 47816

0330 47813

0347 47808

0400 47801

0415 47790

0430 47801

0445 47793

0500 47783

0515 47782

0530 47785

2810 - small
anom. w/ 490.
puck

24 Sept

24 Sept

DATE TIME GMT

0550 47772

0600 47798

0615 47795

0630 47786

0645 47778

0700 47782

0715 47782

0730 47785

0750 47790

0800 47788

0815 47788

0830 47788

0845 47794

0900 47797

0915 47800

0930 47797

0945 47793

1000 47797

1015 47798

1030 47803

1045 47805

1100 47805

1115 47816

1130 47808

1145 47803

1200 47807

1215 47805

1230 47808

1245 47808

1300 47807

1316 47802

1330 47800

1345 47792

1400 47795

1415 47786

1436 47760

1446 47749

1500 47738

1515 47725

1530 47711

1545 47696

1600 47679

24 Sept

DATE TIME GMT

1615 47676

1630 47673

1645 47664

1700 47662

1715 47663

1730 47674

1745 47685

1800 47687

1815 47693

1830 47697

1845 47702

1900 47705

1915 47713

1930 47719

1945 47720

2000 47723

2015 47727

2030 47742

2045 47747

2100 47759

2115 47768

2130 47781

2145 47793

2200 47809

2215 47825

2230 47843

2245 47858

2300 47872

2315 47891

2330 47902

2345 47914

2400 47926

25 Sept 0016 47939

0030 47945

0045 47960

0100 47965

0115 47976

0130 47983

0145 48005

0200 48023

0215 48039

0230 48051

25 Sept

Z	TIME	8	DATE	TIME	8	DATE	TIME	8
0245	48069		25-09-24	1315	48563	26 Sept 0000	2400	48570
0300	48083			1330	48565	0015	2415	48556
0315	48100			1345	48568	0030	2430	48528
0330	48110			1400	48575	0045	2445	48
0350	48124			1415	48583	0100	0100	48497
0400	48134			1430	48597		0115	- 48481
0415	48147			1445	48606		0130	48459
0430	48159			1500	48615		0145	48459
0445	48172			1515	48625		0200	48456
0500	48193			1530	48637		0217	48420
0515	48203			1545	48651		0230	48400
0530	48225			1600	48664		0246	48394
0545	48240			1615	48677		0300	48395
0605	48256			1630	48687	NOTE	0305	72 ZERO RECORD
0615	48263			1645	48693		0330	48330
0630	48277			1700	48700		0345	48312
0645	48293			1715	48706		0400	48296
0700	48305			1730	48716		0415	48279
0715	48321			1744	48729		0430	48263
0730	48337			1800	48752		0446	48245
0748	48346			1815	48770		0500	48230
0800	48360			1830	48784		0515	48206
0821	48375			1845	48804		0530	48190
0830	48382			1900	48821		0545	48174
0845	48394			1915	48834		0600	48152
0900	48401			1930	48817		0615	48152
0915	48414			1953	48790		0630	48145
0930	48427			2000	48780		0645	48143
0945	48444			2017	48758		0700	48151
1000	48455			2032	48740		0715	48127 48146
1015	48462			2045	48719		0730	48127
1030	48465			2100	48704		0745	48113
1045	48470			2115	48703		0800	48096
1100	48477			2130	48694		0817	48078
1115	48490			2146	48682		0830	48068
1130	48504			2200	48677		0845	48042
1145	48518			2217	48664		0900	48027
1201	48528			2232	48654		0915	48008
1215	48538			2245	48642		0933	47996
1230	48546			2300	48623		0945	47989
1245	48554			2315	48610		1000	47976
1300	48559			2330	48589		1015	47975
				2345	48580		1030	47966

DATE	TIME	δ	DATE	TIME	δ	DATE	TIME	δ
26 SEPT	1045	47959.1	23 16	47470		10 15	46846	
	1100	47944	23 30	47452		10 30	46845	
	1115	47931	23 45	47442		10 52	46839	
	1130	47913	27 SEPT 00 00	47426		11 00	46840 46843	
	1145	47896	00 20	47402		11 15	46847	
	1200	47883	00 30	47387		11 30	46847	
	1215	47872 ^{170°} _{58K}	00 45	47366		11 45	46847	
	1230	47852	01 00	47350		12 00	46845	
	1245	47839	01 22	47332		12 15	46847	
	1300	47828	01 30	47318		12 30	46853	
	1330	47809	01 45	47301		12 45	46852	
	1345	47794	02 00	47284		13 02	46854 49	
	1400	47780	02 15	47266		13 17	46856	
	1415	47763	02 30	47244		13 30	46865	
	1433	47740	02 45	47227		13 45	46868	
	1445	47718	03 00	47213		14 00	46868	
	1500	47679	03 15	47198		14 24 46866	1415 46864	
	1515	47675	03 30	47185		14 30	46881	46872
	1648	47789	03 45	47177	Note Time	14 46	46887	46879
	1700	47778	04 00	47160		15 00	46895	46879
	1715	47765	04 15	47143		15 15	46900	46879
	1749	47741	04 30	47116		15 30	46905	46880
	1800	47736	04 45	47100		15 45	46903	46887
	1815	47726	05 00	47077		16 00	46903	46895
Note Time	18 31	47708	05 15	47049		16 15	46896	46900
	18 45	47731	05 30	47025		(16 30	46883)	46905
	19 00	47748	06 00	46984		16 45		46905
	19 15	47765	06 15	46963		17 00		46903
	19 30	47771	06 30	46948		17 15		46899
	19 45	47758	06 45	46932		17 30	46890	
	20 00	47756	07 00	46922		17 45	46885	
	20 15	47730	07 15	46910		18 00	46887	
	20 30	47718	07 30	46898		18 15	46882	
	20 47	47701	07 45	46886		18 30	46881	
	21 00	47680	08 00	46867		18 46	46883	
	21 15	47656	08 15	46853	(not on chart)	19 00	46887	
	21 30	47634	08 30			19 15	46883	
	21 45	47618	08 45	46823		19 30	46881	
	22 00	47593	09 00	46821?		19 45	46880	
	22 15	47574	09 15	46826		20 00	46885	
	22 30	47546	09 30	46833		20 15	46893	
	22 45	47531	09 45	46839		20 30	46898	
	23 00	47501	10 00	46846		20 45	46903	
						21 00	46909	

Not recorded
on Mag
Tape

Not on
paper

DATE	Time	8	DATE	Time	8	DATE	Time	8
	2115	46913	0800	46942		1830	46740	
	2130	46916	0815	46941		1845	46739	
	2145	46920	0830	46939		1900	46734	
	2200	46920	0845	46940		1915	46730	
Clock need	2215	46922	0900	46938		1930	46728	
	2230	46921	0915	46932		1945	46727	
	2245	46922	0930	46928		2000	46721	
	2300	46923	0945	46922		2017	46714	
	2315	46923	1000	46919		2030	46715	
	2330	46924	1015	46913		2045	46716	
28 Sept. 74	0000	46924	1030	46903		2100	46714	
	0015	(49626)	1045	46894		2115	46712	
	0030	(49626)	1100	46888		2130	46712	
	0045	(49628)	1115	46880		2145	46708	
	0100	(46930)	1130	46878		2200	46707	
	0115	46928	1145	46874		2215	46708	
	0130	46929	1200	46870		2230	46707	
	0145	46929	1215	46863		2245	46704	
	0200	46930	1230	46858		2300	46702	
	0215	46934	1245	46854		2315	46698	
	0230	46934	1300	46847		2330	46694	
	0245	46934	1315	46840		2345	46689	
	0300	46935	1330	46839	29 Sept	0000	46684	
	0315	46935	1345	46838		0015	46680	
	0330	46940	1400	current off		0030	46680	
	0345	46936	1415	46831		0045	46676	
	0400	46928	1430	46824		0100	46689	
	0415	46934	1445	46823		0115	46664	
	0430	46921	1500	46817		0130	46664	
	0445	46923	1515	46812		0145	46661	
	0500	46923	1530	46809		0200	46659	
	0515	46926	1545	46806		0215	46660	
	0530	46927	1600	46798		0230	46657	
	0545	46926	1615	46695		0245	46649	
	0600	46931	1630	46788		0300	46650	
	0615	46940	1645	46781		0315	46647	
	0630	46943	1700	46775		0330	46644	
	0645	46946	1715	46766		0345	46638	
	0700	46944	1730	46760		0400	46632	
	0715	46942	1745	missed		0415	46622	
	0730	46943	1800	46747		0430	46621	
	0746	46940	1815	46742		0445	46617	
						0500	46613	

DATE	Time	Ø	DATE	Time	Ø	DATE	Time	Ø
	0515	46615	1545	46521		0200	46025	
	0530	46608	1600	46524		0215	45994	
	0545	46620	1630	46516		0230	45976	
	0600	46633	1645	46513		0245	45946	
	0615	46648	1645	46513		0300	45940	
	0630	46658	1700	46512		0319	45912	
	0645	46674	1715	46509		0330	45904	
	0700	46685	1730	46500		0345	45882	
	0715	46685	1745	46508		0400	45855	
	0730	46681	1800	46505		0415	45836	
	0745	46678	1815	46497		0430	45821	
	0800	46675	1830	46491		0445	45806	
	0815	46675	1845	46482		0500	45793	
	0830	46672	1900	46473		0515	45776	
	0845	46669	1915	46466		0530	45757	
	0900	46665	1930	46448		0545	45746	
	0915	46659	1945	46437		0600	45734	
	0930	46653	2000	46423		0615	45720	
	0945	46650	2015	46413		0630	45708	
	1000	46641	2030	46405		0645	45688	
	1015	46636	2045	46401		0700	45673	
	1030	46627	2100	46388 46385		0715	45660	
	1045	46620	2115	46368		0730	45643	
	1100	46606	2130	46345		0745	45626	
	1115	46602	2145	46326		0800	45608	
	1130	46600	2200	46308		0815	45595	
	1145	46595	2215	46287		0830	45585	
	1200	46590	2230	46267		0845	45574	
	1215	46587	2245	46240		0900	45563	
	1230	46581	2300	46230		0915	45553	
	1245	46578	2315	46215		0931	45555	
	1300	46571	2330	46202		0945	45550	
	1321	46558	2345	46183		1001	45542	
	1330	46554	30 SEPT 74			1015	45531	
	1347	46551	0000	46169		1030	45527	
	1400	46545	0015	46154		1045	45512	
	1415	46530	0030	46142		1100	45497	
	1430	46533	0045	46125		1118	45477	
	1445	46534	0100	46110		1130	45463	
	1500	46534	0115	46087		1145	45450	
	1515	46530	0130	46066		1200		
	1530	46522	0145	46049				

Magpie fouled
on shore

DATE &
TimeDATE &
TimeDATE &
TimeDATE &
Time

30 SEPT 74

1 Oct 74 0900 45072

MAGGIE ON

0000 MAGGIE OFF - TAKE
IN STREAMER

14:02 45363 - time

14:16 45352

14:30 45339

14:45 45329

15:00 45317

15:16 45299 - time

15:30 45277

15:45 45262

16:00 45252

16:15 45237

16:30 45231

16:45 45221

17:00 45210

17:15 45200

17:30 45186

17:45 45180

18:00 45170

18:15 45158

18:30 45154

18:45 45135

19:00 45124

19:15 45119

19:30 45113

19:45 45112

20:00 45107

20:15 45108

20:30 45111

20:45 45112

21:00 45115

21:15 45117

21:30 45114

21:45 45112

22:00 45110

22:15 45107

22:30 45100

22:45 45088

23:00 45083

23:15 45078

23:30 45075

23:45 45069

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09:30

09:45

10:00

Stream being
towed on the
surface - must
check it out.All bucs' just
winy and
broken.Got Alwaynes
in about
11:30.

45243

45243

45223

45219

45219

45223

45222

↑

Maggie

Out -

Ken Replaced

Board

10:15

10:30

10:59

11:00

11:15

11:30

11:45

12:00

12:15

12:30

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13:00

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45191

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45181

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45172

45170

45170

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45161

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45141

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45073

45069

45061

45061

45056

45056

45052

45051

45046

45039

45040

45033

45033

45030

45024

45018

45009

44991

44993

44986

44977

44972

44966

44957

44952

44942

44937

44930

44919

44910

44902

44896

44888

44885

44876

44874

44875

10

DATE
Time

8

DATE
Time

8

DATE
Time

8

0

DATE
Time

8

0645 44868

1715 44565

0345 44316

1430

0700 44862

1730 44561

0400 44294

1445

0716 44855

1745 44557

0415 44275

1500

0730 44852

1800 44554

0430 44252

1515

0745 44841

1819 44555

0445 44234

1530

0800 44833

1830 44531

0500 44226

1545

0815 44823

1846 44501

0515 44221

1600

0830 44809

1900 44497

0530 44224

1615

0845 44798

1915 44484

0545 44221

1630

0900 44789

1930 44494

0600 44211

1645

0915 44783

1945 44479

0615 44198

1700

0930 44776

2000

0630 44172

1715

0945 44767

2015

0645 44148

1730

1000 44760

2030

0700 44111

1745

1015 44749

2045

0715 44085

1800

1030 44736

2100

0730 44059

1815

1045 44728

2115

0745 44025

1830

1100 44721

2130

0800 43997

1845

1115 44717

2145

0815 43965

1900

1130 44709

2200

0830 43933

1915

1145 44705

2215

0845 43902

1930

1200 44695

2230

0900 43874

1945

1215 44691

2245

0915 43841

2000

1230 44683

2300

0930 43809

2015

1245 44676

2315

0945 43789

2030

1300 44668

2330

1000 43757

2045

1315 44663

2340

1015 43736

2100

1330 44659

3 Oct 74

1030 43714

2115

1345 44651

0000

1045 43701

2130

1400 44635

0015

1100 43687

2145

1415 44629

0030

1115 43683

2200

1430 44620

0045

1130 43673

2215

1445 44629

0100

1145 43663

2230

1500 44624

0115

1200

2245

1515 44615

0130

1215

2300

1530 44607

0145

1230

2315

1545 44598

0200

1245

2330

1600 44596

0215

1300

2345

1615 44592

0230

1315

2350

1630 44587

0245

1330

0000

1645 44578

0300

1345

0015

1700 44570

0315

1400

0030

0332

1415

0045

pulled in
streamer

ENR ROW
#2

SECURED -
VENA CROSS

4 Oct 74

DATE & Time	8 (NT)	DATE & Time	8	DATE & Time	8	DATE & Time	8
18 OCT 74 ON OWL 2nd 1500 MAGGIE ON -		1345	43628	0000	43703	1036	44196
	Now Row	1400	43628	0015	43710	1045	44159
0355	43699	1415	43621	0030	43719	1100	44178
0400	43703	1430	43617	0045	43726	1115	44197
0415	43706	1445	43612	0100	43731	1130	44221
0430	43708	1500	43602	0115	43743	1146	44246
0445	43715	1515	43614	0130	43752	1200	44265
0500	43716	1530	43612	0145	43762	1215	44282
0515	43718	1545	43607	0200	43772	1230	44295
0530	43727	1600	43598	0215	43780	1245	44305
0545	43730	1615	43588	0230	43792	1300	44322
0600	43736	1630	43579	0245	43809	1315	44340
0615	43744	1645	43579	0300	43819 ¹⁸ ₂₀₀₀₀	1330	44347
0630	43746	1700	43589	0315	43825	1345	44358
0645	43754	1715	43594	0330	43835	1400	44369
0700	43759	1730	43598	0345	43835	1415	44377
0715	43775	1745	43604	0400	43839	1430	44394
0730	43768	1800	43608	0415	43844	1445	44410
0745	43776	1815	43608	0430	43845	1500	44429
0800	43782	1830	43610	0445	43848	1515	44432
0815	43787	1845	43606	0500	43851	1530	44439
0830	43791	1900	43604	0523	43861	1545	44454
0845	43796	1915	43608	0530	43867	1600	44464
0900	43796 43798	1930	43615	0545	43878	1615	44468
0915	43802	1945	43626	0600	43888	1630	44478
0930	43809	2000	43638	0615	43898	1645	44481
0945	43813	2015	43645	0630	43905	1700	44490
1000	43819	2030	43649	0647	43920	1715	44497
1015	43804	2045	43646	0700	43922	1730	44503
1030	43786	2100	43644	0715	43928	1745	44519
1045	43764	2115	43643	0730	43936	1803	44535
1100	43753	2130	43643	0745	43946	1816	44549
1115	43751	2145	43644	0800	43966	1830	44557
1130	43742	2200	43638	0815	43981	1845	44567
1145	43727	2215	43645	0830	43997	1900	44581
1200	43722	2230	43643	0845	44012	1915	44594
1215	43703	2245	43650 43650	0900	44026	1930	44594
1230	43676	2300	43658	0915	44046	1945	44589
1245	43660	2315	43672	0930	44066	2000	44597
1300	43656	2330	43680	0948	44086	2015	44617
1315	43654	2345	43692	1000	44099	2030	44628
1330	43648 43648			1015	44119	2048	44638
		9 OCT 74				2102	44657

12

Time	Field [x]	DATE & TIME	x				
21 15	44668-	07 30	45204	18 15	45810	04 15	46394
21 30	44677	07 45	45217	18 30	45823	04 30	46414
21 45	44698	08 00	45233	18 45	45837	04 46	46435
22 00	44717	08 15	45253	19 00	45848	05 00	46451
22 15	44734	08 31	45272	19 15	45860	05 15	46469
22 30	44752	08 45	45289	19 30	45871	05 30	46486
22 45	44772	09 00	45309	19 45	45882	05 45	46503
23 00	44785	09 15	45331	20 00	45899	06 00	46516
23 15	44794	09 30	45350	20 15	45921	06 15	46529
23 30	44807	09 45	45362	20 30	45937	06 30	46535
23 45	44823	10 00	45380	20 45	45959	06 45	46549
24 00	44832	10 15	45393	21 00	45977	07 00	46562
10 Oct, 74		10 30	45404	21 15	45993	07 15	46579
		10 45	45415	21 30	46014	07 30	46595
		11 00	45427	21 45	46036	07 48	46620
00 15	44854	11 15	45439	22 00	46058	08 00	46639
00 30	44867	11 30	45449	22 15	46069	08 16	46668
00 45	44880	11 48	45463	22 30	46086	08 30	46691
01 00	44889	12 00	45472	22 45	46100	08 45	46710
01 15	44900	12 16	45486	23 00	46113	09 00	46729
01 30	44911	12 30	45503	23 15	46124	09 15	46741
01 45	44921	12 45	45520	23 30	46133	09 30	46753
02 00	44932	13 00	45540	23 45	46146	09 47	46765
02 15	44946	13 15	45561	24 00	46158	10 00	46779
02 30	44961	13 30	45582	11 Oct, 74		10 15	46788
02 45	44972	13 45	45600			10 30	46806 recalibrate
03 00	44990	14 00	45624			10 45	46828
03 15	45009	14 15	45644	00 15	46172	11 00	46847
03 30	45027	14 33	45667	00 30	46185	11 15	46866
03 45	45043	14 45	45682	00 45	46199	11 30	46879
04 00	45055-	15 00	45700	01 00	46216	11 45	46888
04 15	45066	15 24	45727	01 15	46231	12 00	46897
04 30	45081	15 32	45737	01 30	46248	12 15	46907
04 45	45093	15 47	45750	01 45	46260	12 30	46918
05 00	45103	16 00	45758	02 00	46279	12 45	46927
05 15	45110	16 15	45769	02 15	46301	13 00	46936
05 30	45112	16 30	45774	02 30	46315	13 15	46942
05 45	45139	16 45	45779	02 46	46329	13 30	46952
06 00	45148	17 00	45785	03 00	46336	13 45	46959
06 15	45152	17 18	45785	03 15	46345	14 00	46968
06 30	45161	17 30	45787	03 30	46354	14 15	46979
06 45	45167	17 45	45790	03 45	46363	14 30	46990
07 00	45181	18 00	45800	04 00	46375	14 45	47005
07 15	45193					15 00	47018

15 16	47034	00 30	46910	11 15	46582
15 30	41048	00 45	46900	11 30	46584
15 45	47065	01 00	46893	11 45	46586
16 00	47081	01 15	46885	12 00	46589
16 15	47100	01 30	46876	12 15	46591
16 30	47123	01 45	46867	12 30	46589
16 45	47139	02 00	46867	12 35	46591
17 00	47155	02 16	46847	12 46	46591
17 15	47170	02 32	46841	13 00	46589
17 48	47208	02 45	46828	13 15	46576
18 03	47221	03 00	46813	13 30	46567
18 15	47235	03 15	46797	13 45	46559
18 30	47251	03 30	46788	14 00	46555
END WG-2S		03 45	46777	14 19	46549
Westerly loop		04 00	46770	14 30	46544
for new line		04 15	46762	14 45	46535
		04 30	46753	15 00	46529
18 45	47250	04 45	46745	15 15	46521
19 00	47240	05 00	46738	15 30	46509
19 16	47225	05 15	46736	15 48	46496
START WG-3E		05 30	46730	16 00	46488
19 25	47221	05 45	46723	16 15	46489
19 30	47218	06 00	46710	16 30	46484
19 45	47205	06 15	46697	16 45	46490
20 00	47188	06 30	46687	17 00	46485
20 15	47168	06 45	46676	17 15	46477
20 30	47151	07 00	46665	17 30	46470
20 48	47124	07 15	46661	17 45	46461
21 00	47106	07 30	46649	18 00	46451
21 15	47082	07 45	46636	18 15	46445
(56 tuning still correct)		08 00	46622	18 30	46444
21 30	47063	08 15	46606	18 45	46444
21 45	47046	08 30	46590	19 00	46444
22 00	47029	08 45	46575	19 15	46447
22 15	47020	09 00	46564	19 30	46450
22 30	47008	09 15	46554	19 45	46448
22 45	46995	09 30	46552	20 00	46443
23 00	46983	09 45	46552	20 15	46437
23 15	46969	10 00	46555	20 30	46445
23 30	46953	10 15	46559	20 45	46434
23 48	46938	10 30	46563	20 55	46440
24 00	46930	10 45	46792	21 00	46416
24 15	46919	11 00	46577	21 05	46420
				21 15	46408

high-frequency, small-scale anomalies

2034	46439
2036	43
37	42
40	34
41	37
43	29

2005	46433
2010	46436
2017	46456
2020	46444
2022	46451
2025	46452
2027	46446

21 30	46397	07 30	46 390	18 15	46461	0445	4 6765
21 45	46395	07 45	46 393	18 30	46464	0500	46766
22 00	46403	08 00	46 386	18 45	46471	05 15	46777
22 15	46410	08 15	46 383	19 00	46485	05 30	46780
22 30	46418	08 30	46 394	19 16	46491	05 45	46788
22 45	46416	08 45	46403	19 30	46500	06 00	46793
23 00	46410	09 00	46416	19 45	46503	06 15	46800
23 15	46410	09 15	46425	20 00	46506	06 30	46803
23 30	46412	09 30	46436	20 15	46507	06 45	46810
23 45	46401	09 45	46451	20 30	46530	07 00	46817
24 00	46380	10 00	46457	20 45	46530	07 15	46821
		10 15	46468	21 00	46558	07 30	46828
13 Oct, 74		10 30	46471	21 15	46570	07 45	46833
		10 45	46471	21 30	46580	08 00	46839
		11 00	46470	21 45	46582	08 15	46844
00 15	46356	11 15	46476	22 00	46582	08 30	46848
00 30	46335	11 37	46490	22 15	46586	08 45	46854
00 45	46326	11 45	46489	22 30	46588	09 00	46858
01 00	46317	12 00	46488	22 45	46590	09 15	46860
01 17	46306	12 15	46499	23 00	46602	09 30	46867
01 30	46291	12 30	46514	23 15	46619	09 45	46867
01 45	46270	12 45	46512	23 30	46636	10 00	46866
02 00	46255	13 00	46500	23 45	46663	10 15	46868
02 15	46251	13 15	46499	14 Oct 74		10 30	46875
02 30	46254	13 30	46481			10 45	46876
02 45	46249	13 48	46465	00 00	46683	11 00	46889 46881
03 00	46241	14 00	46468	00 15	46695	11 15	46889
03 15	46226	14 15	46464	00 30	46696	11 32	46902
03 30	46210	14 30	46460	00 45	46701	11 45	46910
03 45	46210	14 45	46448	01 00	46705	11 00	46923
04 00	46220	15 01	46438	01 15	46703	12 15	46933
04 15	46235	15 15	46445	01 30	46701	12 30	46942
04 30	46245	15 30	46444	01 45	46697	12 49	46951
04 45	46263	15 46	46453	02 00	46689	13 00	46955
05 00	46280	16 00	46453	02 16	46681	13 15	46955
05 15	46283	16 15	46454	02 30	46683	13 30	46956
05 30	46287	16 30	46466	02 45	46683	13 45	46958
05 45	46280	16 45	46467	03 00	46705	14 00	46954
06 00	46282	17 00	46469	03 15	46722	14 15	46953
06 15	46288	17 15	46462	03 30	46728	14 30	46953
06 30	46293	17 30	46456	03 45	46736	14 45	46955
06 45	46310	17 45	46454	04 00	46743	15 00	46957
07 00	46331	18 00	46454	04 15	46754	15 15	46953
07 15	46371			04 30			

15 30	46946	02 15	46948	13 15	47107	16 OCT 74	
15 45	46934	02 30	46963	13 30	47112		
16 00	46916	02 45	46967	13 45	47118	00 00	47207
16 15	46917	03 00	46969	14 00	47123	00 15	47229
16 30	46915	03 15	46975	14 15	47128	00 30	47256
16 45	46913	03 30	46983	14 30	47131	00 45	47266
17 00	46908	03 45	46993	14 45	47132	01 00	47272
17 15	46907	04 00	47004	15 00	47128	01 15	47279
17 30	46905	04 15	47011	15 15	47181	01 30	47284
17 45	46899	04 30	47011	15 30	47111	01 45	47287
18 00	46896	04 45	47014	15 45	47105	02 00	47296
18 15	46900	05 00	47015	16 00	47102	02 15	47298
18 30	46906	05 15	47036	16 15	47094	02 30	47293
18 45	46908	05 30	47063	16 30	47092	02 45	47290
19 00	46901	05 45	47062	16 45	47093	03 00	47284
19 15	46902	06 00	47052	17 00	47096	03 15	47279
19 30	46895	06 15	47041	17 15	47096	03 30	47279
19 45	46897	06 30	47043	17 30	47101	03 45	47279
20 00	46897	06 45	47049	17 45	47107	04 00	47289
20 15	46893	07 00	47051	18 00	47105	04 15	47300
20 30	46897	07 15	47052	18 15	47106	04 30	47319
20 45	46895	07 30	47060	18 30	47111	04 45	47334
21 00	46874	07 45	47063	18 45	47112	05 00	47334
21 15	46872	08 00	47055	19 00	47113	05 15	47338
21 30	46870	08 15	47060	19 15	47118	05 30	47354
21 45	46866	08 30	47075	19 30	47126	05 45	47362
22 00	46871	08 45	47077	19 45	47126	06 00	47380
22 15	46871	09 00	47073	20 00	47132	06 15	47394
22 30	46875	09 15	47067	20 15	47128	06 30	47397
22 45	46882	09 30	47057	20 30	47145	06 45	47409
23 00	46891	09 45	47062	20 45	47145	07 00	47424
23 15	46893	10 00	47069	21 00	47152	07 15	47432
23 30	46900	10 15	47079	21 15	47155	07 30	47446
23 45	no reading	10 30	47085	21 30	47167	07 45	47459
15 OCT 74		10 45	47084	21 45	47168	08 00	47476
00 00	46907	11 00	47084	22 00	47176	08 15	47490
00 15	46913	11 15	47081	22 15	47175	08 30	47507
00 30	46923	11 30	47084	22 30	47173	08 45	47520
00 45	46922	11 45	47082	22 45	47175	09 00	47534
01 00	46949	12 00	47087	23 00	47174	09 15	47563
01 15	46960	12 15	47087	23 15	47172	09 30	47576
01 30	46947	12 30	47086	23 30	47179	09 45	47585
01 45	46951	12 45	47098	23 45	47192	10 00	47580
02 00	46904	13 00	47104		47198	10 15	47586

10 30	47596	21 15	48095	07 45	48728	18 30	49140
10 45	47615	21 30	48103	08 00	48745	18 45	49159
11 00	47636	21 45	48116	08 15	48756	19 00	49177
11 15	47647	22 00	48117	08 30	48754	19 15	49204
11 30	47652	22 15	48121	08 45	48760	19 30	49225
11 45	47668	22 30	48137	09 00	48775	19 45	49251
12 00	47687	22 45	48144	09 15	48781	20 00	49264
12 15	47700	23 00	48159	09 30	48782	20 15	49269
12 30	47706	23 15	48218	09 45	48781 -	20 30	49283
12 45	47714	23 19	48234	10 00	48784 -	20 45	49319
13 00	47709	23 30	48235	10 15	48798 -	21 00	49343
13 15	47727	23 45	48258	10 30	48803	21 15	49361
13 30	47749	00 00	48261	10 45	48805	21 30	49385
13 45	47762	00 15	48282	11 04	48809	21 45	49397
14 00	47773	00 30	48297	11 15	48012	22 00	49443
14 15	47790	00 45	48315	11 30	Maggie ON BOARD	22 15	49465
14 30	47799	01 00	48335	11 45	to Haul STEAMER	22 30	49485
14 45	47812	01 15	48347	12 00		22 45	49485
15 00	47828	01 30	48363	12 15		23 00	49506
15 15	47843	01 45	48383	12 30		23 15	49523
15 30	47853	02 00	48394	12 45		23 30	49539
15 45	47858	02 15	48413	13 00		23 45	49583
16 00	47866	02 30	48440	13 15		18 Oct 74	
16 15	47871	02 45	48462	13 30		00 00	49583
16 30	47869	03 00	48462	13 45		00 15	49604
16 45	47869	03 15	48458	14 00		00 30	49630
17 00	47882	03 30	48487	14 15		00 45	49645
17 15	47893	03 45	48507	14 30	48822	01 00	49656
17 30	47896	04 00	48521	14 45	48836	01 15	49664
17 45	47913	04 15	48542	15 00	48860	01 30	49689
18 00	47931	04 30	48555	15 15	48884	01 45	49729
18 15	47953	04 45	48566	15 30	48910	02 00	49760
18 30	47962	05 00	48566	15 45	48933	02 15	49769
18 45	47979	05 15	48582	16 00	48944	02 30	49786
19 00	48000	05 30	48598	16 15	48957	02 45	49801
19 15	48011	05 45	48615	16 30	48955	03 00	49812
19 30	48024	06 00	48624	16 45	48951	03 15	49830
19 45	48038	06 15	48630	17 00	48958	03 30	49876
20 00	48051	06 30	48646	17 15	48983	03 45	49890
20 15	48066	06 45	48673	17 30	49036	04 00	49924
20 30	48075	07 00	48675	17 45	49066	04 15	49937
20 45	48083	07 15	48690	18 00	49096	04 30	49961
21 00	48093	07 30	48706	18 15	49118	04 45	49990

Ne
pa

05 00	50015	15 45	50686
05 15	50031	16 00	50724
05 30	50052	16 15	50754
05 45	50057	16 30	50768
06 00	50055	16 39	50769
06 15	50065	17 00	END
06 30	50068	17 15	
06 45	50076	17 30	
07 00	50076	17 45	
07 15	50086	18 00	
07 30	50107	18 15	
07 45	50125	18 30	
08 00	50153	18 45	
08 15	50186	19 00	
08 30	50217	19 15	
08 45	50242	19 30	
09 02	50258	19 45	
	re-tune to 65		
09 15	50278	20 00	
09 30	50294	20 15	
09 45	50314	20 30	
10 00	50336	20 45	
10 15	50359	21 00	
10 30	50379	21 15	
10 45	50404	21 30	
11 00	50425	21 45	
11 15	50445	22 00	
11 30	50468	22 15	
11 45	50494	22 30	
12 00	50529	22 45	
	1% 310°		
12 15	50550	23 00	
12 30	50573	23 15	
12 45	50586	23 30	
13 00	50579	23 45	
13 15	50565		
		19 Oct 74	
13 30	50550		
13 45	50540		
14 01	50533		
	?		
14 15	50538		
14 31	50562		
14 46	50579		
15 00	50592		
15 15	50614		
15 30	50645		