

Publikasjoner fra
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK
Nr. 47

GURO GJELLESTAD and HELGE DALSEIDE

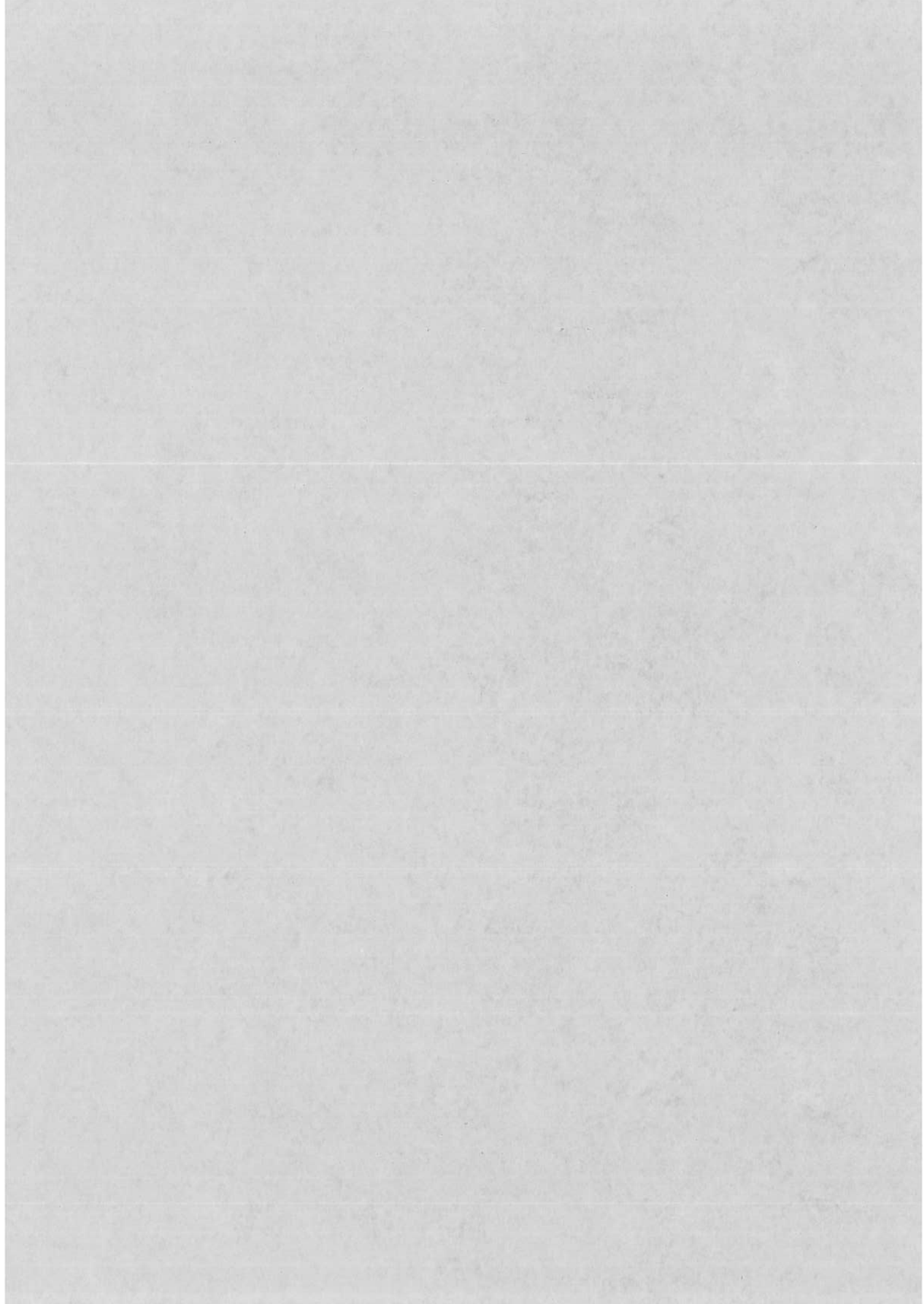
THE MAGNETIC STATION AT DOMBÅS
($\varphi = 62^{\circ} 04'.4$ N, $\lambda = 9^{\circ} 07'.0$ E Gr.)

OBSERVATIONS 1956

Published by
MAGNETISK BYRÅ
BERGEN, NORWAY

1960

A.S JOHN GRIEGS BOKTRYKKERI, BERGEN



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INTRODUCTORY REMARKS

We refer to No. 39 of this series, Chap. I, in which has been given general information on instruments and installations at the new station, evaluation of the performance of the instruments and accuracy of observations and other information of more general character for the period 1951—56.

Until March 15, when Mr. *Knut Einbu* was engaged as resident observer and assistant in charge of the station, Mrs. *Astri Einbu* helped changing and developing the recording paper. The station was during the first half of the year under supervision of author I who spent approximately three months at Dombås in March and in May/June, instructing and training Mr. *Einbu* in the work at the station and making absolute measurements and scale value determinations. Scaling of the magnetograms for hourly mean values were undertaken by author II. In charge of reductions of recordings and observations and arrangement of the results for publication was author I.

Starting in May *scale value determinations* were made at regular intervals in all elements by Mr. *Einbu* and author I. The values obtained were in good agreement with the determinations made in 1950/51. In spring three Helmholtz-Gaugain coils were installed, while previously only one coil was available. An adjustable electric resistance was made and a simple device for damping the oscillations of the variometer magnets when deflected by a strong artificial magnetic field. Finally a new and more accurate amperemeter was purchased. Based on the observations the scale values given in *Table 1* have been adopted. In *Table 1* the scale value for *D* is equivalent to 2.4 minutes of arc per mm. The scale values are believed to be correct within a few per cent.

Careful *orientation tests* were made in June of the *H*- and *D*-variometers, and the *H*-variometer was re-adjusted on June 6 and finally tested for correct orientation. On May 19 the Dombås *Z*-variometer magnet was substituted by a magnet borrowed from the Danish Meteorological Institute and on June 2 the Dombås magnet was replaced, the variometer properly adjusted and the orientation checked.

Temperature corrections are *negligible*. Several experiments were carried out to find *possible shrinking* of the photographic paper, and it was found that shrinking is *negligible*.

Absolute measurements were undertaken by Mr. *Einbu* and author I, while Mr. *J. Frøshaug* was kind enough to make a few observations in *H* and *Z* in January. In *D* we are unfortunate, due to the difficult circumstances, not to have absolute values from January 1 to May 11, nor in November and December, but during the interval May 12 to June 18 Mr. *Einbu* and author I obtained more than 40 observations, and in July—October Mr. *Einbu* made from 4 to 12 measurements a month. In *H* a series of 8 absolute measurements were obtained by Mr. *Frøshaug* in January, then in the interval March 13 to June 19 Mr. *Einbu* and author I made approximately 170 measurements, and in July—December Mr. *Einbu* made from 6 to 12 observations

TABLE 1
ADOPTED SCALE VALUES 1956

Interval starting	Interval ending	D γ/mm	H γ/mm	Z γ/mm
Jan 1	May 19	9.60	9.00	7.60
May 20	Jun 2	»	»	7.40
Jun 3	Jul 31	»	»	6.45
Aug 1	Dec 31	»	9.15	»

a month. In Z more absolute measurements are available, ranging from 6 in October, 9 in February and September to 140 in May/June, while adjustments of the variometer and the base line were made. Instruments used for absolute measurements were in 1956 *Elliott 38* for *Declination*, *QHM 15* and *78* for *Horizontal Intensity* and *BMZ 16* and *21* for *Vertical Intensity*. — In *Tables 2–4* are given adopted base line values, while the diagram in *Figure 1* gives both observed and adopted base line values. The adopted base line values have, in accordance with usual procedure, been established by a graphical method, some personal judgement being employed. In the diagram large dots represent points of greater weight than the average, while open circles represent points of less weight.

As mentioned in No. 39 of this series, Chap. I, § 7, the Z -curve had moved vertically on the magnetograms, and about Mid-December 1955 the regular curve moved out of its proper place. From January 1 until May 19 the majority of hourly mean values therefore rely on scalings of the negative storm curve. Due to this *some errors may have been introduced in some of the hourly mean values, while we believe that the monthly means are reasonably good.*

In the following are given Tables of *absolute hourly mean values* in three elements D , H and Z , and *daily* and *hourly means* for all days and for the 5 international quiet and disturbed days. In a separate Table are given *monthly* and *annual means* for all days and for the 5 international quiet and disturbed days. Scalings of magnetograms for hourly mean values have been centered around half-hours, and Universal Time (GMT) has been used consistently in the Tables. Calculations and printing of magnetic tables have been performed on punched-card IBM machines in co-operation with the Geophysical Institute of the University of Bergen.

Magnetisk Byrå and the magnetic station at *Dombås* co-operate with the international central institute at *De Bilt* and with the Committee on Rapid Variations and Earth Currents of IAGA regarding K-indices and C-data for activity, sudden commencements, solar flare effects etc., and for those data we refer to IAGA Bulletin No. 12 k.

Finally we like to express our gratitude to Mrs. *Astri Einbu* and Mr. *J. Froshaug* for their valuable help in the beginning of the year. We are indebted to Mr. *K. Floisand* for assistance in arranging the observations for the Magnetic Drum Data-Processing Machine, Type 650.

MONTHLY AND ANNUAL MEANS

1956	All days			Quiet days			Disturbed days		
	D	H	Z	D	H	Z	D	H	Z
Jan	4° 58'.3 W	13911 γ	47610 γ	4° 59'.1 W	13915 γ	47613 γ	4° 57'.7 W	13898 γ	47602 γ
Feb	58.1	914	615	59.0	921	614	58.1	916	604
Mar	56.0	894	618	58.1	910	625	52.7	870	606
Apr	56.0	893	621	58.3	917	622	51.6	823	627
May	55.7	899	624	57.0	920	623	51.1	819	594
Jun	56.7	919	621	56.8	925	622	55.6	899	616
Jul	55.4	915	622	55.5	920	623	55.3	907	620
Aug	55.3	919	622	55.0	923	618	54.7	912	616
Sep	54.2	908	629	54.8	912	630	53.1	899	626
Oct	53.7	907	629	54.4	919	625	51.4	879	627
Nov	52.1	897	641	53.2	912	636	48.1	846	632
Dec	53.8	917	639	53.8	915	635	54.5	914	644
Mean	4° 55'.4 W	13908 γ	47624 γ	4° 56'.2 W	13917 γ	47624 γ	4° 53'.6 W	13882 γ	47618 γ

TABLE 2
ADOPTED BASE LINE VALUES
DECLINATION 1956

Interval starting	Interval starting
Jan 1 5°01'.8	Jun 7 4°57'.5
May 11 01.6	8 57.2
20 01.4	9 56.9
26 01.1	10 56.6
27 00.8	11 56.3
28 00.5	12 56.0
29 5 00.2	13 55.7
30 4 59.9	14 55.4
31 59.6	15 55.1
Jun 1 59.3	16 54.8
2 59.0	17 54.5
3 58.7	18 54.2
4 58.4	Jul 1 54.0
5 58.1	19 4°53'.8
6 4°57'.8	

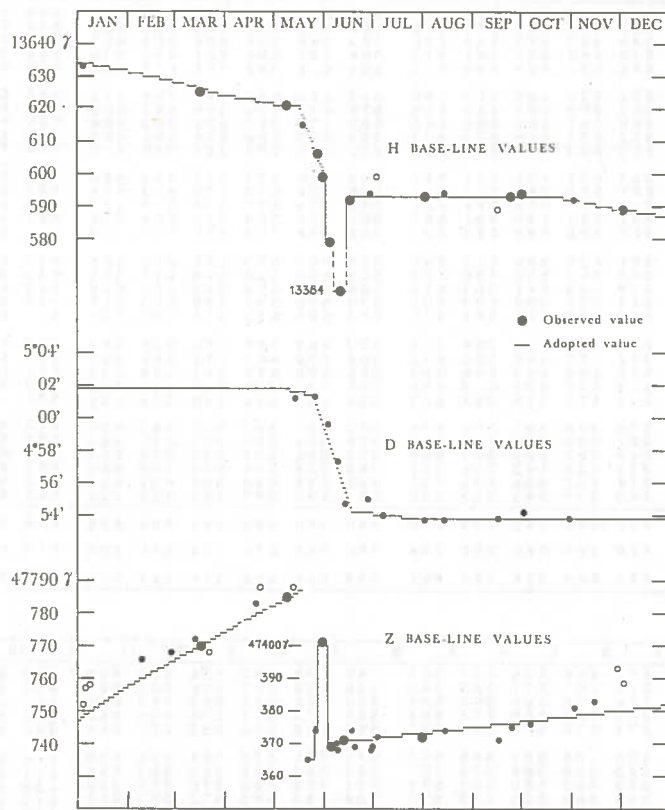


Fig. 1. Observed and adopted base-line values 1956.

TABLE 3
ADOPTED BASE LINE VALUES
HORIZONTAL INTENSITY 1956

Interval starting	Interval starting
Jan 1 13634 γ	May 23 13611 γ
11 633	24 610
21 632	25 608
Feb 1 631	26 607
10 630	27 605
20 629	28 604
28 628	29 603
Mar 6 627	30 602
14 626	31 601
21 625	Jun 1 600
27 624	2 580
Apr 7 623	7 384
20 622	15 593
May 1 621	Oct 27 592
17 620	Nov 6 591
18 618	16 590
19 617	26 589
20 615	Dec 11 588
21 614	23 13587 γ
22 13613 γ	

TABLE 4
ADOPTED BASE LINE VALUES
VERTICAL INTENSITY 1956

Interval starting	Interval starting	Interval starting
Jan 1 47747 γ	Mar 1 47766 γ	May 10 47785 γ
3 748	4 767	13 786
5 749	8 768	16 787
8 750	12 769	20 365
11 751	16 770	26 375
14 752	19 771	28 400
17 753	23 772	Jun 3 370
20 754	26 773	16 371
23 755	29 774	Jul 1 372
26 756	Apr 2 775	19 373
29 757	6 776	Aug 7 374
Feb 1 758	9 777	26 375
5 759	13 778	Sep 12 376
8 760	17 779	30 377
12 761	20 780	Oct 17 378
15 762	24 781	Nov 4 379
19 763	28 782	21 380
23 764	May 2 783	Dec 9 381
26 47765 γ	6 47784 γ	26 47382 γ

Dombås

Declination. D = 4° W + Tabular Values expressed in Tenths of Minutes.

JANUARY 1956

HOURLY MEAN VALUES.

GMT

Table for January 1956 showing hourly mean values for Dombås. Columns include Day (1-31), hours (1-24), and Mean. Rows are grouped by month (JANUARY) and day (1-31). Includes sub-rows for M, MQ, MD.

FEBRUARY

Table for February 1956 showing hourly mean values for Dombås. Columns include Day (1-28), hours (1-24), and Mean. Rows are grouped by month (FEBRUARY) and day (1-28). Includes sub-rows for M, MQ, MD.

MARCH

Table for March 1956 showing hourly mean values for Dombås. Columns include Day (1-31), hours (1-24), and Mean. Rows are grouped by month (MARCH) and day (1-31). Includes sub-rows for M, MQ, MD.

Dombås

Declination, D = 4° W + Tabular Values expressed in Tenths of Minutes.

APRIL 1956

HOURLY MEAN VALUES.

GMT

Table for April 1956 showing hourly mean values for Dombås. Columns include Day (1-30), Hour (1-24), and Mean. Rows are labeled with day numbers and month abbreviations (M, MQ, MD).

MAY

Table for May 1956 showing hourly mean values for Dombås. Columns include Day (1-31), Hour (1-24), and Mean. Rows are labeled with day numbers and month abbreviations (M, MQ, MD).

JUNE

Table for June 1956 showing hourly mean values for Dombås. Columns include Day (1-30), Hour (1-24), and Mean. Rows are labeled with day numbers and month abbreviations (M, MQ, MD).

Dombås

Declination. D = 4° W + Tabular Values expressed in Tenths of Minutes.

JULY 1956

HOURLY MEAN VALUES.

GMT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
1	552	542	528	516	513	503	483	490	490	520	545	577	597	605	610	590	590	607	605	597	560	567	582	570	556
2	533	535	515	496	498	480	470	500	538	535	535	562	590	602	592	595	590	615	622	565	597	615	570	597	556
3	532	555	528	510	498	493	508	533	545	555	567	587	597	590	590	587	565	565	572	597	597	587	580	567	560
4	560	550	520	506	490	473	461	470	490	520	552	605	632	622	607	597	590	590	597	577	570	570	567	570	559
5	560	550	520	506	490	473	461	470	490	520	552	605	632	622	607	597	590	590	597	577	570	570	567	570	559
6	577	585	533	525	505	510	505	533	542	550	595	637	637	642	622	605	582	585	590	585	587	572	565	562	572
7	557	542	533	520	498	483	475	483	503	535	567	607	624	632	615	605	592	585	590	585	597	629	622	610	567
8	582	565	530	560	542	542	542	515	535	547	572	615	632	622	607	590	590	610	605	585	590	557	542	510	570
9	433	441	458	495	505	498	480	508	508	500	538	572	592	602	612	595	572	547	605	565	565	565	547	545	534
10	533	523	515	510	488	475	468	461	495	530	557	597	642	664	652	632	624	617	615	654	600	533	508	495	558
11	545	485	470	446	443	441	433	426	470	510	560	597	597	597	607	587	587	587	607	615	585	575	525	547	537
12	560	545	520	495	490	530	533	523	518	545	572	615	644	647	654	634	615	607	605	590	547	565	567	580	571
13	597	498	473	436	463	465	490	495	533	547	577	627	667	669	647	644	649	634	669	590	585	560	566	416	558
14	354	403	458	473	468	456	465	470	488	513	552	607	622	639	639	622	602	590	570	587	565	570	562	557	535
15	550	542	542	493	470	468	458	453	465	480	515	557	592	615	619	597	597	577	590	570	572	587	590	585	545
16	572	547	533	528	515	515	485	470	498	513	557	607	644	644	644	615	585	547	570	582	582	557	547	547	559
17	545	525	513	510	520	510	483	463	465	498	565	615	624	634	617	590	565	557	585	560	550	547	557	550	547
18	542	520	498	490	461	465	470	485	495	520	560	607	634	662	652	624	607	590	585	615	597	565	562	542	556
19	545	496	466	444	471	449	459	468	515	555	600	637	662	667	647	615	635	620	565	615	580	565	558	471	553
20	441	441	463	468	481	459	488	493	491	533	585	630	662	647	655	593	595	598	588	588	563	575	563	543	546
21	528	518	523	518	511	506	503	506	513	533	558	598	615	620	590	573	570	565	568	570	560	560	563	545	551
22	533	520	508	496	486	481	468	493	521	540	568	615	640	637	620	620	615	588	563	578	570	568	558	555	555
23	540	531	496	463	451	459	459	463	493	526	560	608	645	682	682	662	657	682	625	637	632	663	461	451	660
24	466	483	478	478	481	476	496	508	466	466	585	642	635	630	632	617	605	605	590	585	583	568	555	548	554
25	521	540	593	588	521	540	528	540	568	540	498	535	605	608	615	593	568	540	588	600	558	573	518	459	557
26	215	473	506	498	533	496	523	488	459	548	583	632	652	622	613	605	583	580	590	605	595	565	560	536	544
27	414	446	488	496	545	496	491	531	555	545	595	600	608	620	613	583	590	588	580	548	590	575	501	501	534
28	501	518	521	508	483	471	491	531	563	530	595	615	625	630	588	580	580	578	575	570	545	555	508	476	550
29	506	508	513	496	501	496	503	583	568	536	545	603	617	605	550	573	563	588	563	583	578	563	565	563	552
30	550	550	575	513	483	454	456	468	501	531	558	608	645	625	585	565	563	548	555	570	570	573	583	568	550
31	545	531	518	498	493	488	521	543	568	558	570	608	593	593	637	615	570	570	580	585	583	580	560	568	562
M	518	516	510	500	495	488	489	497	512	534	565	604	625	629	619	604	593	589	588	588	578	569	551	539	554
MQ	541	525	515	507	495	489	480	484	499	525	564	608	627	637	619	602	590	577	573	584	575	572	572	560	555
MD	460	502	514	502	496	490	506	512	518	562	579	609	636	632	616	605	597	593	602	590	573	564	521	487	553

AUGUST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
1	585	558	478	459	461	466	476	498	526	540	583	605	613	605	580	570	570	565	563	568	580	590	588	580	550
2	550	550	521	508	496	481	459	463	513	550	600	640	645	610	568	555	543	531	550	590	585	570	563	563	550
3	545	528	521	511	488	481	488	526	548	573	613	642	675	656	613	560	540	543	560	565	568	563	568	550	559
4	533	536	503	491	471	456	446	463	506	548	585	615	637	620	595	568	548	543	553	565	570	565	553	570	543
5	558	558	536	523	536	513	501	506	508	540	568	605	617	617	605	580	555	553	560	570	568	563	540	533	555
6	545	536	511	508	488	481	488	501	518	560	595	627	662	657	637	603	580	583	583	588	568	568	578	560	562
7	531	536	526	513	506	518	523	516	523	536	573	617	637	632	608	580	563	558	563	555	543	560	560	545	555
8	543	531	536	488	481	461	434	463	488	533	593	642	694	712	690	630	613	600	588	543	558	488	540	558	559
9	548	505	486	486	481	473	466	461	461	508	565	613	672	682	662	620	662	568	555	563	608	471	439	546	542
10	548	555	545	526	540	491	466	471	488	518	583	637	677	694	662	625	595	568	558	568	567	568	580	560	566
11	565	558	493	463	431	411	394	444	518	543	583	655	712	712	677	724	680	647	583	565	550	558	563	521	565
12	508	531	518	473	459	434	414	439	506	536	588	645	704	729	672	647	630	613	595	588	575	553	553	558	561
13	550	545	533	521	508	483	463	471	493	513	568	630	662	672	655	613	575	575	575	575	508	513	536	536	553
14	536	555	528	513	498	473	461	471	483	531	583	630	662	647	615	583	563	558	568	585	570	578	570	540	553
15	531	521	521	511	506	471	463	463	473	518	550	580	603	620	613	590	570	573	578	585	543	563	565	545	544
16	543	528	523	508	493	491	488	488	501	521	563	613	655	662	640	637	627	583	570	578	583	583	558	506	560
17	473	388	399	459	433	439	493	461	488	518	580	613	613	645	632	595	593	583	580	548	580	568	545	540	534
18	540	521	506	498	481	463	463	471	498	540	570	613	640	642	625	595	575	578	580	578	570	560	553	549	559
19	536	533	528	511	496	486	486	488	506	521	555	593	617	610	588	565	555	563	568	570	568	563	555	543	546
20	533	531	518	503	493	478	483	488	508	545	578	620	637	637	620	595	565	553	563	570	563	555	555	553	552
21	548	545	540	523	511	471	461	446	508	563	625	680	697	794	762	680	660	647	600	595	570	456	444	468	

Dombås

Declination, D = 4° W + Tabular Values expressed in Tenths of Minutes.

OCTOBER 1956

HOURLY MEAN VALUES

GMT

Table for October 1956 showing hourly mean values for Dombås. Columns include Day, Hour, and Mean Value. Rows are grouped by day (1-31) and include sub-rows for M, MQ, MD.

NOVEMBER

Table for November 1956 showing hourly mean values for Dombås. Columns include Day, Hour, and Mean Value. Rows are grouped by day (1-30) and include sub-rows for M, MQ, MD.

DECEMBER

Table for December 1956 showing hourly mean values for Dombås. Columns include Day, Hour, and Mean Value. Rows are grouped by day (1-31) and include sub-rows for M, MQ, MD.

Dombás

Horizontal Intensity. H = 13000 γ + Tabular Values.

JANUARY 1956

HOURLY MEAN VALUES.

GMT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN		
1	914	911	902	914	919	922	926	922	917	916	913	911	904	907	917	917	911	915	924	909	887	849	874	909		
2	894	902	904	907	914	915	916	914	914	912	906	907	911	915	919	910	897	907	912	899	912	904	919	923	910	
3	918	911	905	924	913	915	922	916	914	904	896	914	915	915	920	922	923	912	912	911	915	917	894	919	914	
4	922	921	919	919	921	924	919	920	914	904	902	902	912	924	925	923	925	924	921	974	904	918	920	930	920	
5	918	915	913	904	917	915	917	923	919	913	911	912	922	920	925	923	924	923	931	934	911	920	914	912	918	
6	916	907	914	919	921	923	925	925	926	926	924	924	924	904	896	915	984	915	907	912	924	904	909	915	919	
7	912	914	914	914	914	914	917	920	915	912	904	904	913	917	922	909	932	911	911	914	915	932	931	924	916	
8	914	914	914	910	924	934	933	924	917	902	884	882	896	901	919	931	924	914	911	907	914	924	922	920	917	914
9	916	916	917	919	924	916	932	921	914	899	901	907	924	933	941	1004	1341	1022	914	894	891	834	854	799	926	
10	916	916	917	919	924	916	932	921	914	899	901	907	924	933	941	1004	1341	1022	914	894	891	834	854	799	926	
011	883	643	843	910	916	916	898	888	883	876	885	958	888	888	908	928	1003	1025	973	853	898	903	902	900	894	
12	898	902	904	912	915	923	925	913	907	903	897	891	888	888	908	928	973	1073	1153	993	863	883	883	848	923	
13	853	893	898	900	905	910	911	914	913	913	910	903	905	912	921	918	916	920	922	913	913	913	913	910	908	
14	911	901	906	913	919	914	910	913	913	915	907	909	914	913	913	909	914	912	908	910	913	920	921	915	912	
15	915	915	915	916	919	921	923	924	925	923	916	913	909	914	916	918	920	921	922	923	923	922	917	919	919	
016	913	923	915	926	930	927	928	923	916	913	906	913	914	915	920	921	922	923	925	920	923	923	923	922	920	
17	923	924	925	923	918	919	923	925	920	913	913	915	910	907	911	905	911	914	918	914	914	914	914	920	914	
18	885	866	898	913	942	936	945	938	923	920	901	913	921	933	943	945	943	928	923	1003	753	523	813	843	895	
19	753	923	914	915	911	914	923	914	893	893	895	901	913	918	1033	927	953	1008	949	903	894	903	895	898	914	
20	903	907	910	910	914	914	911	908	908	905	904	903	903	905	911	914	911	913	913	914	915	915	914	917	910	
21	920	914	916	918	920	921	921	921	915	911	905	903	909	913	915	914	915	910	922	922	910	915	922	872	914	
22	897	882	832	832	850	910	920	922	912	906	909	904	912	917	922	922	921	920	926	921	921	922	921	920	905	
23	912	912	912	915	921	930	930	922	912	904	900	899	899	903	912	921	922	932	913	927	912	817	662	821	899	
24	892	902	912	915	925	911	912	899	887	874	880	885	912	913	912	934	945	1047	1007	912	812	814	722	667	892	
25	697	647	817	902	897	902	897	910	906	904	900	900	902	901	902	903	910	913	916	912	914	902	910	912	863	
026	912	911	911	910	913	917	915	912	912	909	905	902	902	912	912	912	913	914	916	919	919	919	919	920	913	
27	922	922	921	922	924	930	930	929	922	928	908	912	920	917	942	922	930	932	1072	842	922	907	902	882	923	
28	797	747	822	862	892	887	925	912	907	907	908	908	897	902	922	910	910	912	922	942	940	902	907	920	894	
29	902	907	905	912	915	922	917	915	909	910	914	915	919	915	911	922	916	932	934	932	927	912	912	899	916	
30	893	892	900	902	912	912	913	917	912	911	910	904	910	917	912	920	913	922	920	922	917	882	912	910	912	
31	915	910	911	919	915	920	922	922	912	910	903	892	910	917	901	920	913	922	920	922	917	882	912	910	912	
M	882	886	900	909	913	919	920	918	912	908	903	906	910	915	923	927	934	938	936	920	905	891	892	894	911	
MQ	911	913	913	915	918	919	919	917	915	911	906	907	908	912	916	917	918	919	918	918	920	921	919	920	915	
MD	782	816	878	903	909	913	921	910	899	894	893	912	914	928	958	940	951	982	955	923	867	809	848	846	898	

FEBRUARY

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
1	889	899	891	899	894	904	911	907	911	902	900	907	910	911	921	910	913	899	921	931	919	911	899	899	907
2	900	908	913	900	903	916	918	921	913	912	901	907	902	909	911	922	921	933	917	919	911	904	913	899	910
3	898	926	911	901	891	914	916	916	917	908	900	899	905	913	918	918	921	924	930	924	912	913	929	899	913
4	912	913	914	916	919	917	915	913	911	906	911	901	899	901	910	914	917	919	920	913	913	913	920	911	912
5	913	915	916	914	913	919	920	917	915	909	902	902	908	917	923	921	921	921	923	921	918	899	898	911	914
6	909	915	918	921	923	927	918	914	911	910	907	900	911	914	912	918	921	924	923	921	924	923	921	921	917
7	920	920	921	921	924	924	927	924	915	910	905	903	911	921	928	929	930	930	930	930	928	925	925	924	921
8	924	924	923	927	930	931	928	923	918	911	905	909	911	913	912	920	924	924	926	928	926	926	925	923	922
9	922	920	918	921	924	929	931	928	921	914	911	910	911	914	919	923	923	925	929	928	928	928	928	928	922
10	926	926	926	926	927	929	930	930	923	913	912	912	918	920	922	922	924	930	930	917	921	920	922	922	923
011	925	925	920	927	940	943	935	930	928	917	918	918	923	910	916	923	919	920	930	966	910	926	920	914	926
12	790	785	870	877	875	865	890	910	900	860	884	877	898	900	907	908	910	920	931	920	922	926	920	914	890
13	911	917	917	918	918	920	914	912	909	900	895	885	898	901	909	918	920	927	922	927	922	924	928	924	917
14	916	922	918	928	926	930	916	914	912	912	912	912	897	901	909	918	920	927	922	927	922	924	928	924	919
15	924	924	925	927	928	930	928	924	916	903															

Dombás

Horizontal Intensity. H = 13000 γ + Tabular Values.

JULY 1956

HOURLY MEAN VALUES.

GMT

Table for July 1956 showing hourly mean values for days 1-31. Columns include DAY, 1-28, and MEAN. Rows are grouped by day (1-31) and include sub-rows for specific times (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 28).

AUGUST

Table for August showing hourly mean values for days 1-31. Columns include DAY, 1-28, and MEAN. Rows are grouped by day (1-31) and include sub-rows for specific times (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 28).

SEPTEMBER

Table for September showing hourly mean values for days 1-30. Columns include DAY, 1-28, and MEAN. Rows are grouped by day (1-30) and include sub-rows for specific times (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 28).

Dombås

Horizontal Intensity. H = 13000 γ + Tabular Values.

OCTOBER 1956

HOURLY MEAN VALUES.

GMT

Table for October 1956 showing hourly mean values for days 1 through 31. Columns include DAY, 1-24, and MEAN. Rows are grouped by day (1-10, 11-20, 21-31) and include sub-rows for specific times (e.g., 0 1, 0 2, etc.).

NOVEMBER

Table for November showing hourly mean values for days 1 through 30. Columns include DAY, 1-24, and MEAN. Rows are grouped by day (1-10, 11-20, 21-30) and include sub-rows for specific times (e.g., 0 7, 0 8, etc.).

DECEMBER

Table for December showing hourly mean values for days 1 through 31. Columns include DAY, 1-24, and MEAN. Rows are grouped by day (1-10, 11-20, 21-31) and include sub-rows for specific times (e.g., 0 1, 0 2, etc.).

Dombås
JANUARY 1956

Vertical Intensity. Z = 47000 γ + Tabular Values.
HOURLY MEAN VALUES

GMT

Table for January 1956 showing hourly mean values for vertical intensity. Columns include DAY (1-31), hours (1-24), and MEAN. Rows are grouped by day and hour.

FEBRUARY

Table for February 1956 showing hourly mean values for vertical intensity. Columns include DAY (1-29), hours (1-24), and MEAN. Rows are grouped by day and hour.

MARCH

Table for March 1956 showing hourly mean values for vertical intensity. Columns include DAY (1-31), hours (1-24), and MEAN. Rows are grouped by day and hour.

Dombås

Vertical Intensity. Z = 47000 γ + Tabular Values.

APRIL 1956		HOURLY MEAN VALUES.																								GMT
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN		
1	591	543	538	544	536	549	589	610	621	631	629	623	621	631	646	648	657	656	647	638	630	646	621	620	610	
2	612	615	617	622	624	627	630	632	625	620	615	620	625	643	665	675	727	732	682	617	602	442	532	539	618	
3	519	532	589	530	505	544	596	612	619	620	622	626	632	635	642	655	662	702	692	672	652	651	636	612	615	
4	602	600	575	581	582	601	612	621	622	628	621	622	623	635	642	651	648	655	652	635	628	612	620	622	620	
5	620	599	592	588	607	608	614	621	622	622	622	618	617	629	663	675	655	657	674	657	630	619	621	622	627	
6	623	622	620	623	625	627	624	623	623	622	619	620	632	645	668	673	655	640	632	630	640	613	591	583	628	
7	523	363	543	603	612	615	616	620	622	622	619	622	640	653	691	690	663	655	635	634	627	617	601	596	603	
8	596	605	616	621	623	631	628	623	622	623	619	623	633	636	639	635	634	626	627	642	627	617	621	620	626	
9	621	622	623	624	627	628	622	623	622	623	619	623	622	633	631	627	627	626	631	643	635	577	589	609	625	
10	621	623	623	624	627	628	626	625	624	621	624	635	636	634	643	678	668	656	637	627	627	644	622	617	632	
11	618	620	617	618	616	621	623	624	623	622	617	614	611	611	621	635	637	644	674	667	584	601	607	611	622	
12	556	524	544	602	614	617	617	616	619	643	617	624	630	661	633	637	654	652	639	624	623	614	614	617	622	
013	622	622	617	618	612	616	625	619	622	615	618	615	612	615	623	618	626	627	625	639	617	615	614	615	620	
014	617	618	621	622	622	623	625	625	618	615	613	608	619	625	623	618	626	627	625	620	617	615	605	608	619	
015	613	615	618	621	620	617	627	618	615	610	608	612	612	620	623	625	628	637	638	660	635	622	617	595	621	
16	612	622	622	617	599	585	595	610	618	618	618	618	617	625	637	652	710	740	725	715	637	610	565	470	626	
17	546	446	431	486	476	576	604	606	606	613	613	617	634	644	696	711	706	686	686	681	636	534	589	606	611	
18	526	555	526	616	576	599	593	596	598	609	616	616	626	626	636	662	658	634	626	622	625	621	586	546	612	
19	596	605	616	621	623	631	628	623	622	623	619	623	646	661	681	715	711	678	655	643	632	626	626	621	623	
20	617	609	606	599	619	629	628	627	625	622	614	611	615	624	630	635	627	629	627	635	612	610	614	582	619	
D21	587	579	589	561	584	607	615	613	607	604	609	637	679	627	625	620	620	631	662	597	637	767	867	647	623	
D22	547	607	487	387	407	497	407	567	637	697	767	727	664	662	671	687	685	687	647	632	634	617	587	554	603	
23	587	615	562	570	625	640	644	647	644	635	627	624	628	636	640	640	640	637	632	634	637	635	612	604	625	
Q24	623	628	631	636	631	628	628	628	620	621	624	621	626	631	637	638	635	640	638	638	638	636	626	608	588	627
Q25	595	578	578	608	618	625	627	628	622	618	614	608	614	620	628	633	648	656	656	640	628	624	620	622	621	
26	618	621	622	613	588	583	595	600	595	605	618	625	675	652	651	660	668	668	683	698	640	418	388	618	612	
D27	778	428	928	998	778	528	543	618	648	668	698	708	688	663	708	698	698	673	588	608	648	613	403	468	657	
D28	649	679	409	454	539	614	614	619	627	641	641	646	667	673	659	659	661	658	661	669	648	659	639	589	625	
29	424	579	509	574	574	554	611	624	659	644	647	668	678	667	666	665	670	672	655	650	649	646	642	637	624	
D30	559	569	549	489	534	539	579	591	616	633	639	641	641	642	666	719	729	759	709	629	639	614	529	579	616	
M	587	582	589	594	593	597	604	616	622	626	628	630	635	639	650	658	662	662	652	643	627	610	600	594	621	
MQ	614	612	613	621	621	622	622	622	619	615	614	613	617	622	627	630	636	639	636	635	627	620	613	606	622	
MD	624	572	592	578	568	557	552	602	627	649	671	672	668	653	666	677	679	682	653	627	644	654	605	567	627	

MAY		HOURLY MEAN VALUES.																								GMT
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN		
1	611	629	629	632	629	629	627	629	630	647	669	679	709	689	679	679	687	696	659	649	641	639	637	638	652	
Q 2	631	638	640	643	629	639	638	630	630	630	629	627	630	638	627	642	643	639	634	638	635	630	630	630	635	
3	621	619	620	626	626	626	627	628	628	628	628	627	628	633	633	642	643	639	634	643	639	624	620	621	627	
4	628	630	630	629	627	624	627	625	620	620	619	618	620	650	680	715	697	660	637	638	630	630	629	622	637	
5	620	612	621	626	627	622	613	610	613	615	620	632	640	631	627	630	653	668	680	647	620	590	600	623	627	
6	630	631	632	634	630	626	628	619	616	621	623	619	621	628	641	661	681	654	631	623	620	620	611	596	629	
7	581	627	626	624	626	627	627	628	628	615	611	611	611	622	628	629	629	629	628	628	624	623	621	621	624	
Q 8	619	622	623	624	625	624	622	623	620	613	609	612	611	611	616	621	627	628	624	623	623	622	621	621	620	
Q 9	623	622	624	626	625	629	624	620	609	595	592	592	600	608	612	617	622	619	615	615	619	621	621	621	616	
Q 10	619	614	612	612	619	621	621	619	614	605	602	600	608	617	626	630	631	630	629	628	624	622	622	619	619	
11	599	562	582	612	607	587	582	590	604	602	602	605	642	652	732	772	762	697	662	629	613	572	542	602	625	
12	613	596	606	558	545	563	598	606	608	630	701	713	713	748	729	735	721	683	658	643	636	633	627	581	644	
13	581	623	636	640	636	627	585	635	633	652	629	673	705	711	713	708	678	683	668	625	616	577	595	618	648	
015	583	503	473	458	508	563	585	623	646	667	663	720	733	753	753	737	698	543	598	567	582	498	458	558	602	
D16	494	434	364	419	514	474	584	554	594	669	684	694	584	664	624	434	579	629	689	624	594	624	484	514	563	
D17	484	324	254	424	494	554	514	599	659	669	684	764	784	784	734	704	687	664	649	647	644	637	637	600	600	
18	619	620	616	614	616	617	614	612	614	614	614	608	605	605	605	605	605	654	644	626	622	621	616	611	629	
19	637	635	623	616	625	635	641	638	632	628	633	629	755	686	647	650	660	666	656	657	654	574	599	455	637	
20	459	490	472	511	582	613	615	635	640	651	644	638	644	654	713	754	732	642	641	632	636	640	643	640	630	
21	628	625	625	625	623	628	626	630	630	645	638	644	644	654	713	754	732	696	676	655	608	632	630	635	603	
22	644	642	642	638	638	636	635	635	635	645	638	644	644	654	713	754	732	696	676	655	641	599	601	345	640	
D24	305	355	375	492	530	569	596	608	620	635	684	745	794	750	730	662										

Dombås

JULY 1956

Vertical Intensity. Z = 47000 γ + Tabular Values.

HOURLY MEAN VALUES

GMT

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
1	619	628	632	634	629	628	634	635	643	645	633	628	629	633	647	675	668	642	636	641	652	638	626	614	637
2	595	602	624	626	629	632	634	634	629	629	625	619	624	642	667	677	669	648	658	646	642	627	619	619	635
3	605	575	579	579	605	612	619	630	638	635	631	623	629	664	659	652	645	642	637	632	631	629	625	622	626
4	622	630	631	624	615	605	608	614	620	625	624	623	625	629	631	626	629	632	636	635	635	635	629	627	625
5	626	627	631	629	629	625	625	625	628	622	620	619	624	635	639	632	629	634	626	633	625	621	622	616	626
6	612	605	619	619	620	620	621	620	619	615	611	609	614	619	629	636	642	641	645	644	635	634	631	628	625
7	629	630	631	630	629	628	626	623	616	612	611	602	611	619	625	639	650	649	649	648	641	634	632	631	629
8	631	612	609	606	607	608	595	602	608	612	612	615	624	626	625	614	622	622	625	625	625	634	625	585	616
9	563	559	572	602	604	609	609	611	619	628	624	628	648	642	635	639	638	644	635	629	626	628	626	622	618
10	621	621	619	616	622	621	621	620	614	609	605	609	609	609	610	619	625	629	626	612	602	595	590	575	612
11	552	565	552	565	572	605	590	630	632	632	629	622	622	628	628	629	645	659	645	632	632	622	602	602	615
12	612	618	625	622	615	590	592	604	613	624	630	626	622	635	636	632	629	629	629	625	625	619	615	615	620
13	558	527	524	562	600	614	612	612	612	615	609	605	632	636	641	642	649	652	644	633	622	575	589	611	620
14	592	525	586	617	632	629	622	631	632	635	630	624	616	626	639	644	649	648	645	647	645	632	625	621	631
15	617	622	627	630	629	625	633	635	635	635	622	611	622	626	628	641	644	649	636	629	626	626	620	619	621
16	613	605	602	602	611	615	621	622	624	622	615	607	612	622	628	641	644	649	636	629	626	626	620	619	621
17	624	626	624	620	615	614	620	624	625	615	605	604	606	610	619	625	625	627	627	627	629	624	622	622	620
18	621	621	622	621	620	617	613	615	616	611	603	601	611	620	633	645	652	645	636	626	601	610	606	612	620
19	601	600	587	593	603	618	615	614	609	603	593	599	603	609	626	633	632	643	636	634	633	626	629	645	611
20	523	563	583	586	590	603	601	603	610	609	603	606	623	630	640	630	642	633	636	643	619	605	605	600	609
21	611	620	626	629	626	625	628	625	623	619	615	616	623	631	643	637	628	626	623	623	630	624	618	620	625
22	621	614	610	611	613	613	615	614	613	615	616	616	620	619	617	620	625	633	636	628	623	623	623	617	619
23	623	621	622	621	618	613	613	613	613	610	606	603	602	603	606	610	626	643	666	646	646	625	583	638	620
24	576	593	631	632	628	620	616	621	627	625	623	641	636	639	643	637	636	636	637	636	633	635	633	630	620
25	632	627	626	581	596	596	606	609	606	625	625	633	620	715	721	681	666	651	641	640	630	610	586	483	632
26	413	593	621	615	573	596	606	623	648	665	653	669	662	680	691	713	743	688	669	645	636	612	473	513	625
27	478	471	525	581	585	593	613	637	637	643	638	644	653	656	663	667	653	643	633	630	633	620	577	631	613
28	499	563	590	613	623	623	624	623	623	620	636	646	624	623	623	623	643	635	645	640	603	576	531	533	614
29	567	596	620	630	624	625	626	606	619	630	622	616	621	648	684	681	716	637	650	643	641	613	626	625	630
30	627	621	586	597	623	627	623	625	629	636	633	630	626	628	633	643	646	660	660	645	633	626	625	630	630
31	633	633	629	630	629	623	618	618	615	620	615	623	627	654	664	666	695	673	645	643	626	625	621	615	635
M	591	597	605	610	613	615	617	620	622	624	622	622	627	636	643	647	648	644	641	633	629	619	607	603	622
MQ	621	622	623	622	621	619	620	620	619	614	610	608	614	620	627	633	636	636	634	630	625	623	620	622	623
MD	536	581	594	601	604	610	613	618	623	630	645	649	648	664	674	669	671	660	649	623	622	598	562	542	620

AUGUST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
1	593	530	570	595	617	620	619	616	613	609	611	611	616	637	649	648	638	640	643	639	630	625	617	613	617
2	587	605	620	625	623	625	623	618	613	616	616	626	638	643	637	636	640	643	636	625	626	618	597	593	622
3	616	623	620	629	628	626	624	620	621	613	613	613	619	639	660	670	649	630	623	620	620	622	620	616	627
4	616	616	620	623	623	623	623	617	610	605	605	601	606	617	630	641	643	643	635	631	624	618	611	609	620
5	607	611	620	624	626	606	620	613	611	609	601	607	617	624	626	629	631	630	625	621	621	622	620	619	618
6	616	613	616	620	621	620	616	613	620	610	593	591	600	608	611	625	626	624	622	618	624	623	622	619	615
7	613	609	616	616	609	606	614	621	614	611	604	601	604	614	618	623	624	623	622	628	624	624	624	624	616
8	621	617	612	609	616	621	621	612	606	597	588	587	596	606	627	656	682	684	674	644	644	592	572	587	607
9	606	605	602	597	607	617	618	620	606	608	608	622	646	671	686	677	681	679	667	674	642	628	541	480	627
10	531	527	584	589	595	610	617	619	621	623	621	618	625	641	661	655	647	640	634	631	628	625	621	622	616
11	620	613	613	613	614	612	617	606	604	615	617	610	614	634	684	687	707	741	644	651	641	620	580	599	632
12	587	594	598	613	623	625	616	617	620	627	637	648	660	689	736	694	666	657	664	651	634	619	624	622	638
13	620	621	623	624	626	630	631	626	622	614	612	611	617	628	638	644	646	638	632	632	622	617	616	612	618
14	587	574	587	610	621	626	624	621	616	613	609	610	617	631	637	637	631	627	628	631	629	624	624	617	618
15	612	618	620	621	619	622	622	617	614	612	611	607	604	607	616	617	617	619	621	624	630	624	621	622	617
16	621	623	623	623	623	624	624	624	621	614	609	605	614	621	632	633	647	652	636	624	617	613	614	601	622
17	556	530	556	599	619	604	624	587	597	604	605	619	636	627	654	660	637	627	621	618	621	621	621	617	608
18	614	616	621	624	625	624	624	620	615	614	614	612	617	624	629	633	629	620	618	620	621	622	623	621	621
19	621	621	622	623	623	624	620	617	617	615	611	608	612	614	612	613	614	614	614	615	617	612	617	617	616
20	614	614	618	617	621	622	620	621	616	612	607	602	607	614	619	621	624	624	619	615	616	617	617	617	616
21	617	617	618	620	622	625	621	614	608	597	587	587	588	614	654	680	669	674	685	647	634	629	582	571	623
22	564	597																							

Dombås

OCTOBER 1956

Vertical Intensity. Z = 47000 γ + Tabular Values.

HOURLY MEAN VALUES.

GMT

Table for October 1956 showing vertical intensity data for days 1 through 31. Columns include DAY, 1-24, and MEAN. Rows include D, Q, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, M, MQ, MD.

NOVEMBER

Table for November 1956 showing vertical intensity data for days 1 through 30. Columns include DAY, 1-24, and MEAN. Rows include 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, M, MQ, MD.

DECEMBER

Table for December 1956 showing vertical intensity data for days 1 through 31. Columns include DAY, 1-24, and MEAN. Rows include 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, M, MQ, MD.

