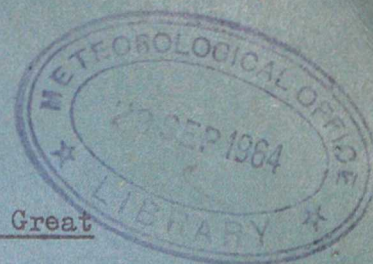


METEOROLOGICAL OFFICECLIMATOLOGICAL MEMORANDA NO.42.

1931-60 average Monthly and Annual maps of bright sunshine over Great Britain and Northern Ireland.

R.E. BOOTH

The accompanying maps are based on data given in "Averages of Bright Sunshine for Great Britain and Northern Ireland, 1931-60" M.O.743.

The data were obtained from Campbell-Stokes sunshine recorders, installed at 172 stations. In this instrument the duration of sunshine is recorded in the form of a scorched or burnt trace on a graduated card by the rays of the sun, focussed through a spherical lens. Only sunshine bright enough to scorch the card is recorded and the term "bright sunshine" is usually used to denote this.

The averages are expressed as monthly and annual means of the daily duration of bright sunshine in hours, and refer exclusively to the period 1931-60. Values for any missing intervals, in no case exceeding 5 years in all, have been computed to complete the record by reference to the nearest station with comparable values.

Similar maps for the period 1921-50 are available for comparison in Climatological Branch memoranda No.8. and maps for the period 1901-30 are included in the Climatological Atlas of the British Isles 1952. M.O.488, published by H.M. Stationery Office. Averages for the periods ending 1935 were published in M.O.408 and for the periods ending 1930 in M.O.377.

Comparison of the averages for the various 30-year periods shows that those for 1931-60 are generally about the same as those for 1921-50 except that April became rather sunnier. However, the 1921-50 amounts were generally somewhat lower than those during 1901-30 and 1906-35, apart from June and December when amounts in the more recent period were greater over much of the country. Table I gives the average monthly and annual sunshine at various stations during the 30-year periods 1901-30, 1906-35, 1921-50 and 1931-60.

Met.O.3. Bracknell.
15th July 1964.

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m.o. du 3A

Table I - Comparison of averages of bright sunshine for different periods

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Newquay													
1901-30	1.82	2.80	4.29	6.00	6.83	7.24	6.72	6.15	5.24	3.65	2.54	1.63	4.58
1906-35	1.91	2.88	4.45	5.96	6.63	7.42	6.65	6.16	5.14	3.68	2.50	1.67	4.60
1921-50	1.82	2.68	4.42	5.89	6.82	7.52	6.29	6.15	4.99	3.64	2.40	1.68	4.53
1931-60	1.90	2.75	4.29	6.08	7.02	7.33	6.33	6.31	5.00	3.51	2.33	1.73	4.55
Eastbourne													
1901-30	2.01	3.00	4.34	6.04	7.85	7.82	7.66	7.07	5.91	3.85	2.66	1.67	5.00
1906-35	2.01	3.07	4.55	6.02	7.70	7.92	7.62	7.18	5.90	3.91	2.53	1.72	5.02
1921-50	1.99	2.87	4.72	6.03	7.56	8.16	7.67	7.23	5.55	3.93	2.37	1.87	5.01
1931-60	2.06	2.83	4.53	6.25	7.45	8.31	7.52	7.12	5.47	3.97	2.23	1.77	4.96
Kew													
1901-30	1.43	2.14	3.31	4.98	6.54	6.65	6.29	5.90	4.83	3.02	1.78	1.20	4.01
1906-35	1.41	2.16	3.49	4.87	6.40	6.76	6.25	5.91	4.88	3.10	1.77	1.21	4.02
1921-50	1.36	2.13	3.60	4.90	6.21	6.87	6.28	5.93	4.58	3.05	1.69	1.27	4.00
1931-60	1.49	2.26	3.64	5.34	6.40	7.11	6.39	6.07	4.75	3.15	1.77	1.28	4.16
Birmingham (Edgbaston)													
1901-30	1.38	1.91	2.88	4.37	5.66	5.94	5.52	5.21	4.10	2.81	1.75	1.08	3.56
1906-35	1.42	2.03	3.10	4.24	5.52	5.96	5.51	5.24	4.12	2.94	1.54	1.14	3.57
1921-50	1.34	2.00	3.19	4.40	5.38	6.07	5.38	5.23	4.00	2.90	1.63	1.16	3.56
1931-60	1.37	2.06	3.16	4.63	5.39	6.00	5.35	5.13	3.90	2.77	1.59	1.22	3.55
Morpeth (Cockle Park)													
1901-30	1.52	2.41	3.74	4.90	5.62	6.15	5.30	4.99	4.52	3.14	2.35	1.45	3.84
1906-35	1.66	2.46	3.67	4.67	5.45	6.02	5.25	4.89	4.47	3.14	2.20	1.42	3.78
1921-50	1.62	2.43	3.48	4.69	5.52	6.23	5.26	4.66	4.20	3.19	2.19	1.53	3.75
1931-60	1.79	2.62	3.35	4.89	5.64	6.04	5.26	4.65	4.21	3.09	2.05	1.53	3.76
Aberdeen													
1901-30	1.43	2.39	3.47	5.03	5.60	6.03	4.89	4.47	4.12	3.09	2.00	1.18	3.64
1906-35	1.50	2.46	3.51	4.81	5.49	6.02	4.91	4.50	4.21	3.04	1.95	1.21	3.64
1921-50	1.50	2.41	3.41	4.53	5.50	6.09	4.85	4.64	4.11	3.08	1.91	1.21	3.61
1931-60	1.64	2.66	3.31	4.80	5.72	5.98	4.98	4.65	4.24	3.00	1.81	1.32	3.71

AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE

1931-60

YEAR

KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

JANUARY

0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



FEBRUARY



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

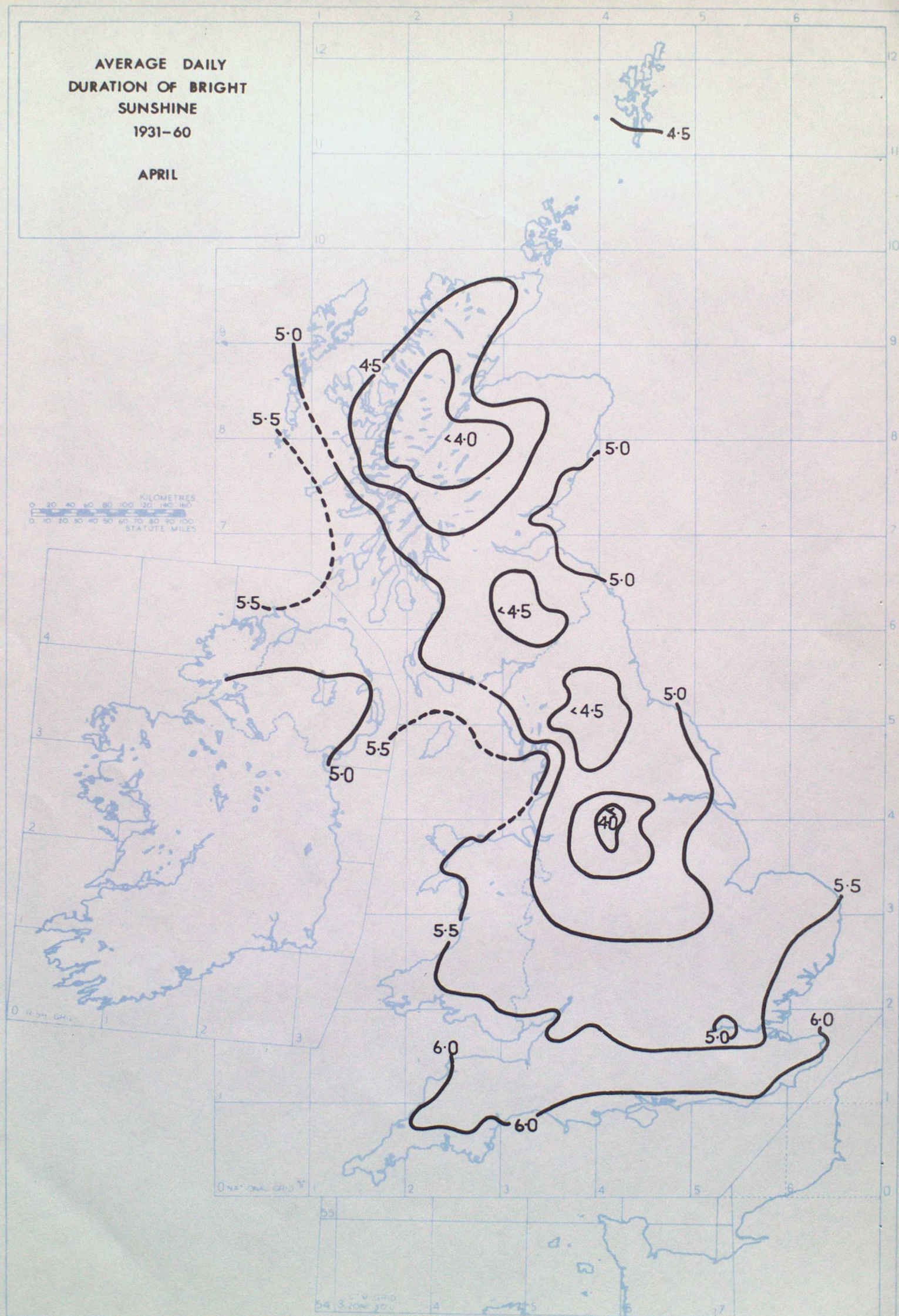
MARCH

KILOMETRES
0 20 40 60 80 100 120 140 160
STATUTE MILES
0 10 20 30 40 50 60 70 80 90 100



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

APRIL



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

MAY

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KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



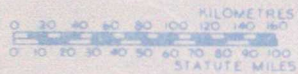
AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

JUNE



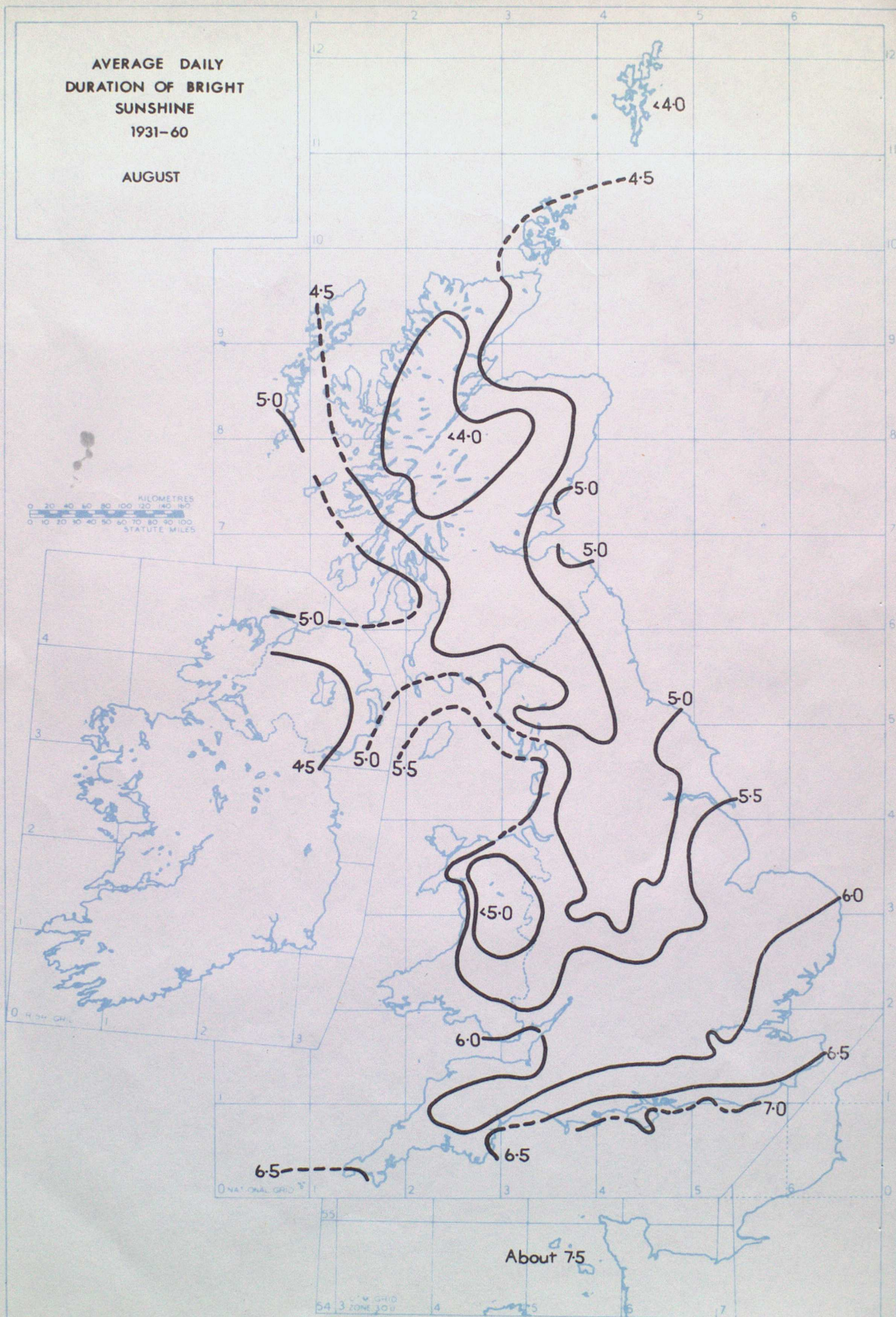
AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

JULY



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

AUGUST



AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

SEPTEMBER

About 3.5

4.0

4.0

3.5

<3.0

4.5

<3.5

4.5

4.5

4.5

4.5

<3.5

<4.0

4.5

5.0

4.5

5.5

5.0

5.5

About 5.5

KILOMETRES
0 20 40 60 80 100 120 140 160
STATUTE MILES
0 10 20 30 40 50 60 70 80 90 100

NATIONAL GRID

54 3 ZONE 30V

AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

OCTOBER

About 2.0

2.5

2.5

2.5

3.0

3.0

<1.5

2.5

<2.5

<3.0

3.0

>3.0

3.0

<2.5

3.5

3.0

<3.0

3.5

4.0

About 4.0

0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES

0 NATIONAL GRID

54 3 10M GRID
ZONE 30V

AVERAGE DAILY
DURATION OF BRIGHT
SUNSHINE
1931-60

NOVEMBER

0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



DECEMBER

