K O N I N K L I J K N E D E R L A N D S
M E T E O R O L O G I S C H I N S T I T U U T

D e B i l t

WETENSCHAPPELIJK RAPPORT
W.R. 71-5

Klimatologische tabellen van de luchthaven Zuid-Limburg

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I N H O U D

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KLIMATOLOGISCHE TABELLEN VAN DE LUCHTHAVEN ZUID-LIMBURG

Inleiding

Het in deze publikatie verwerkte materiaal omvat, wat de waarnemingstijdvakken betreft, twee groepen: een 10- en een 12-jarig tijdvak, respektievelijk over de jaren 1959 t/m 1968 en de jaren 1949 t/m 1960. Wegens tijdgebrek was het helaas niet mogelijk beide groepen tot één waarnemingsreeks (over de jaren 1949 t/m 1968) uit te breiden.

Op blz. 4 is een kaartje opgenomen van het vliegveld Zuid-Limburg en omgeving. Hierop zijn aangegeven de terreinhoogten (in meters boven MSL), mijnen (toestand in 1960), steden en waterwegen.

1. Van het 10-jarig tijdvak 1959 t/m 1968 zijn opgenomen:

   1.1 het horizontale zicht (VV) in meters, beneden gespecificeerde waarden. Het zicht is uurlijks bepaald met behulp van zichtkenmerken. (Tabel 1a);

   1.2 de basis van de onderste wolkenlaag, die meer dan 4/8 van de hemel bedekt ($h_s h_s$), in meters, lager dan gespecificeerde waarden. Overdag is de basis bepaald door schatting of met behulp van ballons, 's nachts met behulp van een wolkenlicht. (Tabel 1b);

   1.3 het horizontale zicht (VV) en/of de basis van de onderste wolkenlaag, die meer dan 4/8 van de hemel bedekt ($h_s h_s$), beide in meters, beneden gespecificeerde waarden. (Tabel 1c);

   1.4 de windrichting (dd) ten opzichte van het ware noorden, in sektoren van 30 graden en de windsnelheid (ff), in knopen binnen intervallen volgens de Beaufortschaal.
   De windsnelheid is gemeten met behulp van een anemometer. Tot oktober 1961 is hiervoor een Dines gebruikt, opgesteld op ongeveer 15 meter hoogte, nà die datum een elektronische windmeter op een waarnemingshoogte van 10 meter. (Tabel 2).

Alle getallen zijn frekwenties uitgedrukt in percentages volgens de formule $100. \frac{n}{s}$. Hierin is s het totaal aantal waarnemingen in iedere kategorie en n het aantal waarnemingen waarbij het betreffende verschijnsel optrad. In de tabellen 1a, 1b en 1c is zowel s als n voor ieder uur per dag en voor iedere maand van het jaar.

Voorbeeld: Het totaal aantal waarnemingen van 04 GMT bedraagt in de maanden september (30 dagen) over het tijdvak 1959 t/m 1968 (10 jaren): $s = 30 \times 10 = 300$.
Hierbij werd in 17 gevallen ($n = 17$) een horizontaal zicht van minder dan 500 meter bepaald. Het frekwentiepercentage is in dit geval: $100. \frac{17}{300} = 5{,}7$.

Eén voorkomend geval in een bepaalde kategorie resulteert dus, voor deze waarnemingsreeks, in een percentage van 0,3.

In de uurkolom (GMT) van de tabellen 1a, 1b en 1c zijn de gemiddelde tijden van zonsopkomst en zonsondergang aangegeven met respektievelijk de symbolen ⊥ en ⊤ .

In tabel 2 zijn de frekwenties afzonderlijk voor vier 6-uurlijkse perioden en voor vier seizoenen. Hier is het totaal aantal uurlijkse waarnemingen per 6-uursperiode per seizoen (90, 91 of 92 dagen) in de 10-jarige reeks ruim 5000. (6 x 90 x 10 = 5400). Eén waarneming binnen een bepaalde kategorie betekent hier dus een percentage van 0,02. Bij deze waarnemingen is een percentage van $<0{,}05$ in de tabel als 0,0 genoteerd.

In deze tabellen zijn de maximumwaarden onderstreept.

2. Van het 12-jarig tijdvak 1949 t/m 1960 zijn opgenomen:

2.1 mist en/of lage wolken in verband met de wind. (Tabel 3a).

Onder (1) is vermeld het aantal waarnemingen waarbij het horizontale zicht minder is dan 800 meter en/of de basis van de onderste wolkenlaag, die meer dan 4/8 van de hemel bedekt, lager dan 80 meter, terwijl de wind is zoals aangegeven.

Onder (2) is vermeld het aantal waarnemingen waarbij het horizontale zicht minstens 800 meter is en de basis van elke wolkenlaag, die meer dan 4/8 van de hemel bedekt, minstens 90 meter, terwijl de wind is zoals aangegeven.

Als in tabel 3a (1) en (2) worden opgeteld, heeft men het aantal malen dat een bepaalde wind voorkomt en kan men de frekwentiepercentages bepalen (hier dus binnen intervallen van 5 knopen en niet, zoals in tabel 2, volgens de Beaufortschaal). De windrichting is ten opzichte van het ware noorden.

2.2 percentages van het voorkomen van mist en/of lage wolken bij gegeven wind. (Tabel 3b).

De percentages zijn berekend uit de getallen van tabel 3a volgens de formule: $100.\ \frac{(1)}{(1)+(2)}$. De getallen in □ geven het percentage in het betreffende tijdvak ongeacht windrichting en -snelheid, met inbegrip van de gevallen bij windstilte.

2.3 mist en/of lage wolken in verband met de windrichting. (Zie grafieken op blz. 37 t/m 40).

Langs elke richting is afgezet de procentuele frekwentie uit de kolom "ongeacht snelheid" van tabel 3b.
In de windrozen zijn de richtingen 350°, 360° en 010° samengebracht onder de richting 360° enz., terwijl terwille van de duidelijkheid de punten zijn verbonden.
De onderbroken lijn geeft de percentages voor Schiphol.

2.4 duur van de mist. (Tabel 4).

De getallen geven de frekwenties van mistperioden van een bepaalde duur, waarvan de aanvang ligt in de perioden 04-09, 10-15, 16-21 en 22-03 GMT.
Onder mist wordt hier verstaan: horizontaal zicht minder dan 1000 meter, ongeacht de wolkenbasis.

In de tabel wordt uitgegaan van uurlijkse waarnemingen; als duur wordt aangenomen het aantal opeenvolgende waarnemingen waarbij het zicht minder is dan 1000 meter. Indien echter één enkele waarneming in de rij een zicht geeft van 1000 meter of meer, wordt aan de hand van de tussentijdse waarnemingen nagegaan of deze verbetering minstens één uur heeft geduurd. Was dit niet het geval, dan wordt het zicht van bedoelde waarneming geacht óók minder dan 1000 meter te zijn geweest.

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CLIMATOLOGICAL TABLES OF ZUID-LIMBURG AIRPORT

Introduction

The climatological data used for this publication comprise two groups as far as the periods of observation are concerned, viz. a 10- and a 12-years' period, covering the years 1959 through 1968 and 1949 through 1960, respectively.
Unfortunately, it was not possible, due to lack of time, to extend both groups so as to obtain one series of observations covering the years 1949 through 1968.

On page 4 a map of Zuid-Limburg Airport and surroundings is inserted. On this map are indicated the contour lines (in meters above MSL), mines (situation in 1960), towns and waterways.

1. The tables for the period 1959 through 1968 contain:

   1.1 the horizontal visibility (VV) in meters below specified values. The visibility is determined hourly by means of landmarks. (Table 1a);

   1.2 the base of the lowest cloud layer covering more than 4/8th of the sky ($h_s h_s$) in meters below specified values.

   In the daytime the base is estimated or measured by using balloons, at night by means of a cloud projector. (Table 1b);

   1.3 the horizontal visibility (VV) and/or the base of the lowest cloud layer covering more than 4/8th of the sky ($h_s h_s$), both in meters, below specified values. (Table 1c);

   1.4 the wind direction (dd) with respect to the true north in 30-degrees' sectors and the wind speed (ff) in knots, in accordance with Beaufort scale intervals.

   Until October 1961 the wind speed was measured by means of a Dines anemometer at a height of 15 meters above the ground, from that date onwards an electronic anemometer is used at an observation height of 10 meters. (Table 2).

All entries represent frequencies expressed in terms of percentages. The percentages are calculated with the aid of the formula $100.\frac{n}{s}$, where s is the total number of observations in each category and n is the number of observed occurrences.

In the tables 1a, 1b and 1c both s and n are given for each hour of the day and for each month of the year.

Example: The total number of observations at 04 GMT in the months of September (30 days) during the period 1959 through 1968 (10 years) amounts to:
s = 30 x 10 = 300 whereby in 17 cases (n = 17) a horizontal visibility below 500 meters is determined.
The percentage frequency in this case is:

$$100 \cdot \frac{17}{300} = 5.7.$$

Thus, one observed occurrence in a certain category represents a percentage of 0,3 for this series of observations.

In the hour column (GMT) of the tables 1a, 1b and 1c the average times of sunrise and sunset are indicated by the symbols $\perp$ and $\top$, respectively.

In table 2 the frequencies are given for four 6-hourly periods and for four seasons.
In this case the total number of hourly observations per 6-hourly period per season (90, 91 or 92 days) in the sample of 10 years amounts to more than 5000. (6 x 90 x 10 = 5400).

One observation in a certain category represents a percentage of 0.02 in this case. Wind observations with a percentage < 0.05 are denoted by 0.0.

In these tables the maximum values are underlined.

2. The tables for the period 1949 through 1960 contain:

2.1 fog and/or low clouds in relation to the surface wind. (Table 3a).

The columns marked (1) show the number of observations of a horizontal visibility less than 800 meters and/or a base of the lowest cloud layer covering more than 4/8th of the sky below 90 meters, the wind being as indicated.

The columns marked (2) show the number of observations of a horizontal visibility of 800 meters or more and the base of each cloud layer covering more than 4/8th of the sky 90 meters or more, the wind being as indicated.

Adding up (1) and (2) of table 3a gives the number of times a certain wind appeared, and in this way the percentage frequencies may be determined. (In this case within 5 knots' intervals, and not, as in table 2, in accordance with the Beaufort scale).

2.2 percentages of occurrence of fog and/or low clouds in relation to a given wind. (Table 3b).

The percentages are evaluated from the entries in table 3a using the formula:

$$100 \cdot \frac{(1)}{(1) + (2)} .$$

The numbers in $\square$ indicate the percentage during the period in question, irrespective of wind direction and wind speed.

2.3 fog and/or clouds in relation to the wind direction. (See graphs on pages 37-40).

Percentage frequencies from the column "irrespective of speed" in table 3b are plotted along each wind direction.

On the wind diagrams the directions 350°, 360° and 010° are put together under the direction 360°, etc. For the sake of clearness the points are connected as shown in the diagrams. The dotted line gives the percentages for Amsterdam-Airport (Schiphol).

2.4 duration of fog. (Table 4).

The entries denote the number of frequencies that a fog period has a given duration, commencing within the periods 04-09, 10-15, 16-21 and 22-03 GMT.
In this connection fog means: horizontal visibility less than 1000 meters, irrespective of cloud base.

The entries in this table are based on hourly observations; the duration is determined by the number of successive observations with a visibility less than 1000 meters.
However, if one single observation in a series shows a visibility of 1000 meters or more, then, on the basis of intervening observations, it is verified whether this improvement had lasted at least one hour. If this was not the case the visibility of the hourly observations in question is assumed to be also less than 1000 meters.

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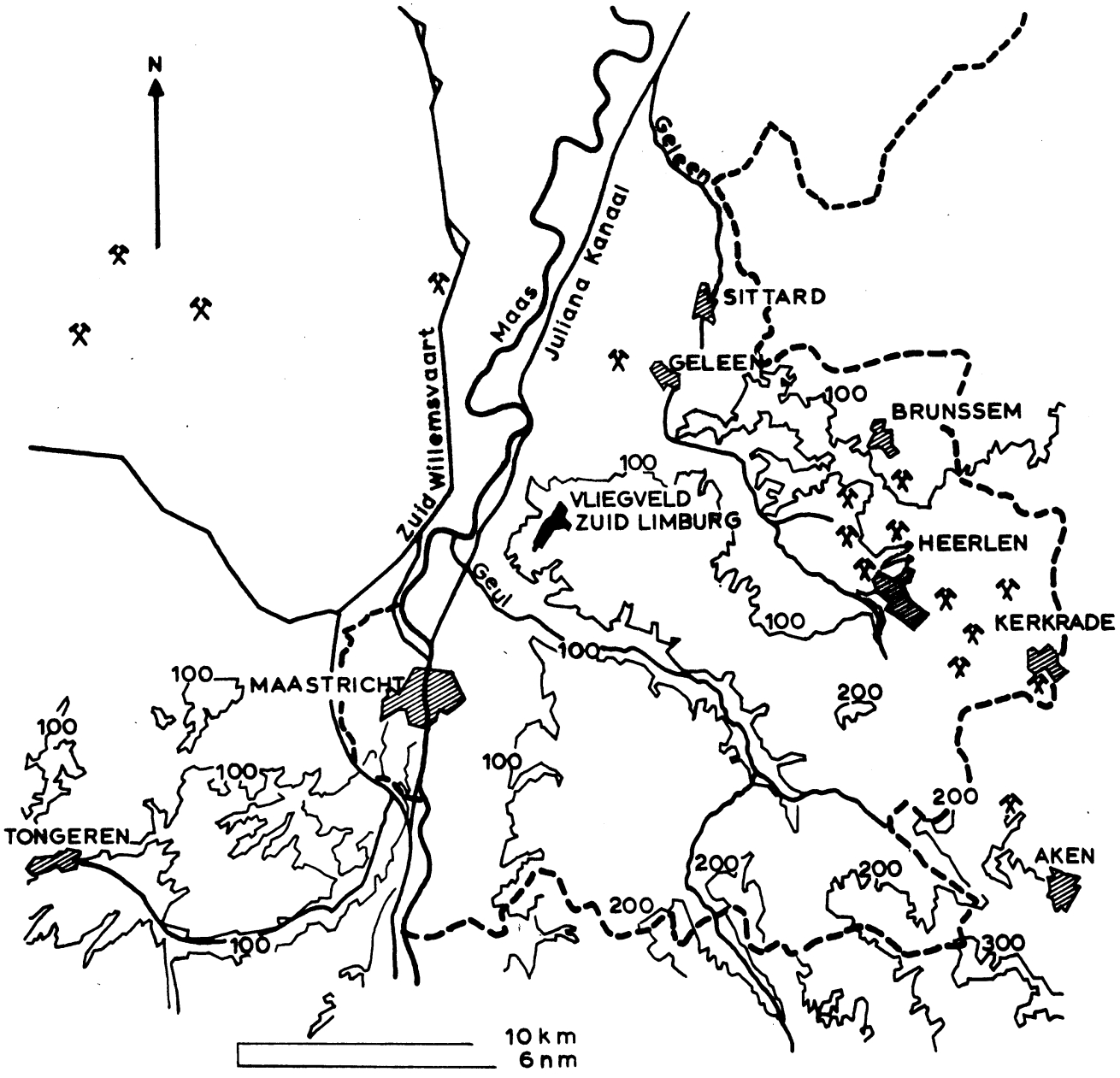
VLIEGVELD ZUID-LIMBURG EN OMGEVING



Op dit kaartje zijn aangegeven terreinhoogte (in meters boven MSL), mijnen, steden en waterwegen. Mogelijk hebben deze bestanddelen van de omgeving invloed op het klimaat van het vliegveld.

1A

Januari 1959 t/m 1968

1B

VV in meters

9mt	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	3.5	4.5	5.8	6.8	8.1	8.7	9.0	10.7	12.6	16.5	18.7	20.3	43.2	81.9
01	4.2	5.8	7.4	8.7	9.4	10.7	10.7	11.6	11.9	17.4	22.6	24.5	43.2	81.9
02	4.2	5.8	6.8	8.4	9.0	10.3	11.3	12.3	12.6	18.4	22.3	25.2	43.5	80.0
03	3.5	6.1	7.4	8.7	9.4	10.7	10.7	11.3	13.9	19.4	22.3	23.9	44.2	80.3
04	3.2	5.8	6.8	8.1	8.4	9.0	9.0	10.0	11.3	17.1	20.0	22.6	44.5	79.0
05	3.2	4.2	6.1	7.1	7.1	7.1	7.4	8.4	9.4	15.5	19.0	20.6	42.3	80.0
06	2.9	4.8	5.8	7.1	7.1	7.1	7.4	8.7	10.0	14.2	20.6	21.6	46.5	80.0
⊥ 07	3.9	4.5	5.2	5.8	7.1	7.7	8.7	9.7	11.0	16.5	21.0	24.5	46.8	82.3
08	4.2	5.8	7.1	7.4	8.4	8.7	10.3	12.3	15.5	21.3	23.2	25.8	51.6	82.3
09	2.9	3.9	4.8	5.8	6.8	7.7	8.7	10.7	13.5	19.0	24.5	26.8	48.7	84.5
10	3.2	3.9	4.2	4.5	4.8	5.8	7.4	9.4	11.0	16.5	22.9	23.9	47.4	84.5
11	2.3	3.2	3.9	3.9	4.2	5.5	6.8	8.7	9.4	14.2	19.4	22.9	44.8	84.2
12	2.6	2.6	2.9	3.9	4.2	5.5	5.8	8.7	9.7	13.9	18.7	19.4	41.3	85.5
13	1.9	2.3	2.6	3.9	4.2	4.8	5.5	7.4	9.4	14.2	19.7	20.6	38.7	81.0
14	1.9	1.9	2.3	3.2	4.2	4.2	5.2	6.8	10.0	15.2	18.4	19.0	39.4	81.3
15	2.6	2.6	3.2	3.5	3.9	4.8	5.8	7.7	11.3	15.8	17.4	19.4	37.4	80.6
⊤ 16	3.2	3.5	4.5	5.2	5.5	5.5	7.1	7.4	9.4	14.2	16.8	18.1	41.3	82.6
17	2.9	3.2	4.8	6.2	5.5	5.5	5.5	6.5	8.4	14.5	18.4	19.0	42.3	83.9
18	3.5	3.9	4.2	5.2	5.8	6.5	6.8	7.7	8.4	14.5	18.7	20.3	42.9	82.6
19	3.5	4.2	4.5	5.2	6.5	7.1	7.4	8.4	10.3	12.9	18.4	20.0	41.6	84.2
20	2.9	4.2	5.8	5.8	6.1	6.5	7.4	9.4	11.0	14.5	17.1	19.0	41.3	81.6
21	3.9	4.8	5.2	5.8	6.1	7.1	7.4	8.7	9.0	12.9	17.1	19.0	41.6	81.9
22	3.5	3.9	4.5	4.5	5.5	5.5	6.1	8.1	9.4	13.2	19.0	21.0	44.2	82.3
23	3.9	4.5	5.2	6.1	7.4	7.7	8.1	8.4	10.7	13.9	17.7	21.6	43.2	79.4
gem	3.2	4.2	5.0	5.8	6.4	7.1	7.7	9.1	10.8	15.7	19.7	20.8	42.4	82.0

h_3 h_4 in meters N ≥ 5/8

	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400
00	1.9	6.8	11.0	13.2	14.8	17.4	21.6	24.8	31.9	46.5	64.8
01	2.6	7.1	12.3	14.2	16.1	19.7	22.3	25.5	32.6	48.5	66.1
02	1.9	6.1	11.0	13.2	15.8	19.0	22.6	25.5	31.9	47.4	63.5
03	1.9	7.1	13.2	14.2	17.4	20.6	24.8	25.8	32.9	47.4	64.2
04	1.3	5.8	11.9	15.8	18.4	22.6	27.1	27.7	34.8	51.0	65.2
05	1.3	5.2	9.4	13.9	18.4	21.0	24.8	28.1	34.5	51.0	65.8
06	1.6	5.8	11.0	15.5	18.1	18.7	22.6	25.2	33.9	52.6	66.8
⊥ 07	1.6	5.5	11.0	14.8	18.7	20.3	23.5	27.1	34.8	53.5	65.8
08	2.6	7.1	13.5	16.5	21.0	23.2	25.2	29.0	34.2	50.0	62.6
09	2.3	4.5	11.0	13.4	16.5	20.0	24.2	27.1	31.9	47.7	63.2
10	1.6	4.2	10.3	14.5	16.1	19.4	23.9	26.5	31.9	43.9	57.4
11	1.0	3.9	8.1	12.3	14.5	17.4	20.0	21.9	28.4	40.0	54.2
12	1.0	4.2	8.4	11.6	14.2	15.5	20.3	22.6	27.7	42.9	54.8
13	1.0	3.2	6.8	10.3	13.9	16.1	19.4	22.6	27.7	45.2	57.1
14	1.0	2.9	6.5	11.0	12.6	15.2	20.6	23.2	25.5	43.5	55.8
15	1.6	3.5	6.8	8.7	11.9	14.5	19.7	22.3	26.8	41.0	56.1
⊤ 16	2.3	4.5	7.1	9.0	12.3	15.2	19.7	21.9	28.7	43.9	57.4
17	1.9	4.8	7.1	8.7	11.3	14.5	18.4	20.6	27.1	43.9	58.1
18	2.6	5.5	7.7	10.3	12.6	13.9	18.1	20.3	27.7	43.5	61.0
19	2.9	6.5	8.7	11.6	12.9	15.2	20.0	21.3	29.7	43.9	63.9
20	2.3	6.1	9.0	11.0	13.2	14.8	18.4	20.0	27.1	41.6	58.4
21	2.3	6.8	10.7	11.9	14.2	15.5	19.4	20.6	27.4	42.9	60.0
22	2.3	5.8	11.0	14.2	15.5	16.8	20.3	21.3	30.0	43.5	61.6
23	2.9	6.1	11.9	14.8	15.5	17.1	19.7	21.9	28.7	43.2	61.6
gem	1.9	5.4	9.8	12.7	15.2	17.6	21.5	23.9	30.3	45.7	61.1

h_3 h_4 > / VV <	< 30 / < 200	< 60 / < 200	< 90 / < 200	< 30 / < 400	< 60 / < 400	< 90 / < 400	< 30 / < 600	< 60 / < 600	< 90 / < 600	< 30 / < 800	< 60 / < 800	< 90 / < 800	< 30 / < 1000	< 60 / < 1000	< 90 / < 1200	< 60 / < 1600	< 90 / < 1600	< 60 / < 2400	< 90 / < 2400	< 60 / < 2500	< 90 / < 2500	< 300 / < 4800	< 300 / < 16000
00	3.9	6.8	11.0	5.8	7.4	11.3	8.1	9.0	12.6	9.0	9.7	12.6	10.7	11.0	13.2	12.6	12.9	16.5	17.4	18.7	19.7	20.3	21.0	47.7	81.9
01	4.2	7.1	12.3	7.4	9.4	13.9	9.4	10.0	13.9	10.7	11.3	14.2	11.6	12.3	15.2	12.6	15.2	17.4	19.0	22.6	23.5	24.5	25.2	47.7	81.9
02	4.2	7.1	12.3	6.8	8.1	12.3	9.0	10.0	12.6	11.3	11.3	12.9	12.3	12.3	13.9	12.6	14.2	18.4	19.4	22.3	22.6	25.2	25.5	47.7	80.3
03	3.5	7.7	13.5	7.4	8.7	13.9	9.4	10.3	13.9	10.7	11.0	13.9	11.3	11.3	14.2	13.4	15.5	19.4	20.3	22.3	22.6	23.9	24.2	46.1	80.6
04	3.5	6.5	11.9	6.8	7.7	12.6	8.4	9.0	13.2	9.0	9.4	13.2	10.0	10.3	13.5	11.6	14.2	17.4	18.7	20.3	21.3	22.9	23.9	47.1	79.0
05	3.2	5.8	9.4	6.1	6.8	9.4	7.1	7.4	9.4	7.4	7.7	9.7	8.4	8.7	10.7	9.7	11.3	15.5	16.1	19.0	19.4	20.6	21.0	47.4	80.3
06	2.9	5.8	11.0	5.8	7.1	11.3	7.1	8.1	11.3	7.4	8.4	11.3	8.7	9.7	12.3	11.0	13.2	14.8	16.8	21.0	21.6	21.9	22.3	49.4	80.0
⊥ 07	3.9	5.8	11.3	5.2	6.5	11.6	7.1	7.7	11.9	8.7	9.4	11.9	9.7	10.3	12.3	11.3	12.9	16.5	17.7	21.0	21.3	24.5	24.8	50.0	82.6
08	4.5	7.4	13.9	7.1	8.1	13.9	8.4	9.0	14.2	10.3	10.7	15.2	12.3	12.6	16.1	15.5	18.7	21.3	22.6	23.2	24.2	25.8	26.1	54.8	82.6
09	3.5	4.8	11.3	5.2	6.1	11.6	6.8	7.4	11.9	8.7	9.4	13.2	10.7	11.0	14.2	13.5	16.1	19.0	21.0	24.5	25.5	26.8	27.4	52.9	84.8
10	3.9	4.8	10.7	4.5	5.2	10.7	5.2	5.5	10.7	7.4	7.7	11.6	9.4	9.7	12.4	11.0	13.9	16.5	18.4	22.9	23.2	23.4	24.2	51.6	84.5
11	2.3	3.9	8.1	3.9	4.5	8.1	4.2	4.8	8.1	6.8	6.8	9.4	8.7	8.7	10.3	9.4	11.0	14.2	15.5	19.4	20.3	22.9	23.5	46.3	84.5
12	2.6	4.2	8.4	2.9	4.2	8.4	4.2	4.8	8.4	5.8	6.6	9.7	8.7	8.7	11.0	9.7	11.6	13.9	18.7	18.7	19.7	19.4	20.3	45.2	85.5
13	1.9	3.2	6.8	2.6	3.2	6.8	4.2	4.5	7.1	5.5	5.6	7.4	7.4	7.4	9.0	9.4	11.0	14.2	14.8	19.7	19.7	20.6	20.6	43.5	81.0
14	1.9	2.9	6.5	2.3	2.9	6.5	4.2	4.5	7.1	5.2	5.2	7.4	6.8	6.8	8.7	10.0	11.9	15.2	15.8	18.4	18.7	19.0	19.4	44.5	81.3
15	2.6	3.5	6.8	3.2	3.9	6.8	3.9	4.5	6.8	5.8	6.8	7.4	7.7	7.7	8.7	11.3	12.3	15.8	16.1	17.4	17.7	19.4	19.7	41.3	80.6
⊤ 16	2.3	3.5	6.1	4.5	4.8	7.4	5.5	5.5	7.7	7.1	7.1	9.4	7.4	7.4	9.4	9.4	11.0	14.2	15.2	16.8	17.1	18.1	18.4	43.9	82.6
17	3.2	4.8	7.1	5.2	5.8	7.7	5.5	5.8	7.7	5.5	5.8	7.7	6.5	6.8	8.4	8.4	9.7	14.5	14.5	18.4	18.4	19.0	19.0	44.2	84.2
18	3.4	5.8	8.1	4.5	6.1	8.4	5.8	6.5	8.7	6.8	7.1	8.7	7.7	8.1	9.4	8.7	10.3	14.8	15.5	18.7	18.7	20.3	20.3	44.8	82.9
19	3.9	6.3	8.7	4.8	7.1	9.4	6.5	7.4	9.4	7.4	8.1	10.0	8.4	8.4	10.3	10.3	11.9	13.9	14.2	18.4	18.7	20.0	20.0	42.6	84.2
20	3.5	6.5	9.4	5.8	7.1	10.0	6.1	7.4	10.3	7.4	8.4	11.0	9.4	9.7	11.3	11.0	12.6	14.5	15.8	17.1	17.4	19.0	19.4	42.6	81.6
21	4.2	6.8	10.7	5.2	6.8	10.7	6.1	7.1	10.7	7.4	8.1	11.3	8.7	9.4	11.6	9.7	11.9	13.5	14.5	17.1	17.4	19.0	19.4	43.5	82.3
22	3.9	6.1	11.0	4.5	6.1	11.0	5.5	6.8	11.3	6.1	6.8	11.3	8.1	8.7	12.6	9.7	13.5	13.5	16.8	19.0	19.7	21.0	21.6	46.8	82.6
23	4.5	6.5	11.9	5.2	6.8	11.9	7.4	8.1	11.5	8.1	8.7	12.9	8.4	9.0	13.2	11.0	14.2	13.9	16.5	17.7	19.7	21.6	23.2	45.8	79.7
gem	3.4	5.6	9.9	5.1	6.3	10.2	6.5	7.1	10.5	7.7	8.2	8.2	9.1	9.4	11.8	11.0	13.0	15.7	17.1	19.8	20.3	21.6	22.1	46.6	82.1

1C

februari 1959 t/m 1968

1A

	VV in meters													
9 mt	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	5.3	5.7	6.0	7.1	7.4	8.1	8.5	9.9	10.2	14.1	16.3	17.0	41.7	85.9
01	5.3	6.0	6.7	8.1	8.1	8.5	8.5	9.9	11.0	16.6	19.1	19.8	43.8	84.5
02	5.7	6.0	6.4	7.4	8.8	9.2	9.2	10.6	11.7	15.2	18.7	21.9	42.8	84.5
03	5.3	5.3	6.0	6.4	7.1	7.4	9.4	10.2	11.3	15.5	19.4	21.9	45.6	84.8
04	6.0	6.4	6.7	7.4	7.4	7.4	8.5	10.6	11.3	15.5	18.7	20.8	45.6	83.4
05	6.4	7.4	7.4	7.8	7.8	8.1	9.2	10.6	11.7	16.3	19.8	21.6	42.8	83.0
06	6.4	7.1	8.5	9.2	9.2	9.9	10.2	11.7	13.4	18.0	23.0	24.4	45.2	83.0
07	7.4	8.5	9.2	9.9	10.6	11.0	11.7	14.5	16.3	23.0	26.5	28.3	45.9	82.3
08	6.7	8.1	8.1	8.1	8.8	10.2	12.7	14.5	15.5	22.3	26.9	27.9	50.2	83.7
09	6.4	7.1	7.1	7.8	8.1	9.5	11.7	12.0	14.5	20.8	25.4	27.2	53.4	83.4
10	5.7	6.0	6.7	7.4	8.1	9.2	11.0	12.0	14.1	18.7	21.6	22.6	45.2	81.6
11	4.2	4.6	4.9	5.3	6.4	7.4	8.8	11.0	12.7	16.6	20.5	20.8	41.7	79.9
12	4.6	5.7	6.7	6.7	7.4	7.8	8.1	10.2	10.6	13.8	17.7	18.0	37.5	78.1
13	1.8	2.8	3.9	3.9	5.3	6.0	6.7	7.8	8.5	10.2	12.7	14.1	32.5	76.7
14	1.4	2.1	3.2	3.9	5.3	6.4	7.1	8.1	9.5	12.0	13.4	13.4	32.9	76.7
15	2.1	3.2	3.5	3.9	4.2	5.3	6.4	7.1	8.1	10.2	13.4	15.2	33.2	77.0
16	2.8	3.2	3.2	3.9	4.9	5.3	6.7	8.1	8.8	11.7	13.8	15.5	36.0	78.4
17	2.8	2.8	3.2	3.2	4.2	4.9	5.3	7.8	8.5	11.7	15.2	17.0	38.5	81.6
18	2.8	2.8	3.5	3.9	4.2	4.6	4.9	6.4	6.7	10.6	14.8	15.2	40.3	83.0
19	3.5	3.5	3.5	4.2	4.6	4.9	6.0	7.1	7.8	10.6	14.1	16.3	40.6	82.7
20	3.5	4.2	4.9	5.3	6.0	6.7	7.8	8.8	9.2	10.6	15.2	15.9	41.7	81.2
21	4.2	5.3	5.7	6.4	7.1	8.1	8.1	8.8	9.5	12.0	17.0	18.0	38.5	84.1
22	4.9	4.9	5.7	6.0	6.7	7.4	8.1	8.8	9.9	12.0	15.2	16.3	39.9	83.7
23	3.9	4.2	4.9	5.3	6.0	6.7	6.7	7.4	8.1	11.3	14.1	15.9	39.9	83.4
9 km	4.5	5.1	5.7	6.2	6.8	7.5	8.4	9.7	10.8	14.6	18.0	19.4	41.5	81.9
$h_3 h_5$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000
00	5.3	6.4	8.1	6.0	7.1	8.8	7.4	7.8	9.5	8.5	8.8	9.5	9.9	9.9
01	5.3	6.4	8.8	6.7	7.4	9.9	8.1	8.5	10.6	8.5	8.8	10.6	9.9	10.2
02	5.7	6.4	8.8	6.4	7.1	9.5	8.8	9.2	10.6	9.2	9.5	11.0	10.6	11.0
03	5.3	6.7	9.5	6.0	6.7	9.5	7.1	7.4	10.2	9.9	9.9	12.0	10.2	10.2
04	6.4	7.8	11.3	7.1	7.8	11.3	7.8	7.8	11.3	8.8	8.8	12.0	10.6	10.6
05	6.4	7.8	12.0	7.4	7.8	12.0	7.8	7.8	12.0	9.2	9.2	12.0	10.6	10.6
06	6.4	7.8	12.4	8.5	8.8	13.1	9.2	9.2	13.1	10.2	10.2	14.1	11.7	11.7
07	7.4	8.8	12.0	9.2	9.9	12.7	10.6	10.6	13.4	11.7	11.7	14.5	14.5	14.5
08	6.7	8.1	13.1	8.1	8.5	13.1	8.8	9.2	13.8	12.7	12.7	15.9	14.5	14.5
09	6.4	7.4	11.7	7.1	7.8	11.7	8.1	8.8	12.4	11.7	11.7	14.1	12.0	12.0
10	5.7	7.4	10.2	6.7	7.8	10.2	8.1	9.2	11.0	11.0	11.0	12.7	12.0	12.0
11	4.2	5.3	8.8	4.9	6.0	9.2	6.4	7.1	9.5	8.8	8.8	11.0	11.0	11.0
12	4.6	6.0	8.5	6.7	7.4	9.2	7.4	7.8	9.2	8.1	8.5	9.5	10.2	10.2
13	1.8	2.4	7.4	3.9	3.9	7.4	5.3	5.3	7.8	6.7	6.7	8.5	7.8	7.8
14	1.4	2.1	6.4	3.2	3.9	6.7	5.3	5.7	7.4	7.1	7.4	8.5	8.1	8.5
15	2.1	2.8	4.9	3.5	4.2	5.7	4.2	4.6	5.7	6.4	6.4	6.7	7.1	7.1
16	2.8	3.5	4.9	3.2	3.4	4.9	4.9	4.9	5.7	6.7	6.7	7.4	8.1	8.1
17	2.8	3.9	4.9	3.2	3.9	4.9	4.2	4.6	5.7	5.3	5.7	6.4	7.8	7.8
18	3.2	3.9	5.3	3.5	4.2	5.3	4.2	4.2	5.3	4.9	4.9	6.0	6.4	6.4
19	4.2	4.6	7.1	4.2	4.6	7.1	4.9	4.9	7.1	6.4	6.4	7.8	7.4	7.4
20	4.2	5.3	7.8	5.3	5.3	7.8	6.4	6.4	8.1	8.1	8.1	9.2	9.2	9.2
21	4.9	6.0	9.2	6.0	6.4	9.2	7.4	7.8	9.5	8.5	8.8	10.2	8.8	9.2
22	5.7	6.7	9.9	6.4	7.4	9.9	7.1	7.8	9.9	8.5	8.8	10.6	9.2	9.5
23	3.9	4.9	7.8	4.9	5.7	8.5	6.0	6.4	9.2	6.7	7.1	9.2	7.4	7.8
9 km	4.7	5.8	8.8	5.8	6.4	9.1	6.7	7.2	9.5	8.5	8.6	10.4	9.8	9.9

1B

	$h_3 h_5$ in meters									
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400
00	3.9	5.7	7.4	10.2	14.5	15.2	18.4	20.1	24.0	38.9	57.2
01	3.5	5.7	8.1	12.0	13.8	15.9	19.1	20.1	23.7	37.8	55.8
02	3.5	6.0	8.8	11.3	14.5	15.2	19.8	22.3	25.8	39.2	56.6
03	3.9	6.4	9.2	11.0	14.5	16.4	19.8	22.6	27.6	39.9	56.2
04	4.6	7.1	10.6	12.7	16.6	18.7	21.2	24.0	28.7	42.8	60.8
05	4.9	7.1	11.3	13.1	15.9	19.8	25.1	26.5	31.4	43.5	60.8
06	4.9	7.1	11.7	15.5	20.5	22.3	25.1	26.9	31.4	44.9	59.7
07	5.7	8.1	11.7	16.6	19.4	20.8	23.0	23.7	28.7	42.0	57.2
08	4.2	6.7	12.0	17.3	19.4	21.6	25.4	26.9	32.2	41.7	54.1
09	4.2	6.4	11.0	14.8	17.7	20.1	23.7	25.8	30.7	42.0	52.7
10	2.8	6.0	9.5	13.4	16.3	18.4	21.2	24.7	30.0	42.4	50.9
11	2.4	4.6	8.5	12.4	15.2	17.3	20.8	23.3	28.7	41.7	51.9
12	1.8	4.6	7.8	11.0	13.1	17.0	18.7	23.0	26.9	42.0	50.5
13	1.1	2.1	7.4	9.2	11.7	13.4	16.6	19.8	23.7	38.2	49.8
14	0.7	1.8	6.4	8.5	11.0	14.5	18.0	20.1	26.5	35.7	46.6
15	0.7	2.1	4.9	7.4	8.8	12.7	15.5	17.3	23.3	36.4	50.9
16	1.8	3.5	4.9	6.7	9.9	13.4	15.5	17.0	21.2	33.9	50.9
17	2.4	3.9	4.9	6.0	8.5	10.6	15.2	18.7	21.9	34.3	51.6
18	2.1	3.2	4.9	6.7	8.8	11.0	13.4	16.3	19.1	34.6	51.6
19	3.9	4.6	7.1	7.8	9.9	10.6	14.1	16.3	21.2	38.2	55.8
20	3.9	5.3	7.8	8.8	10.6	11.3	15.2	16.3	20.8	33.9	53.4
21	3.9	5.3	8.5	10.6	12.0	13.1	15.5	17.3	21.9	38.5	58.7
22	3.9	5.7	9.2	11.0	12.7	14.1	15.9	18.4	23.3	37.1	53.4
23	2.8	4.6	7.8	10.2	12.0	13.8	17.7	18.7	24.7	39.9	56.6
9 km	3.2	5.2	8.4	11.0	13.6	16.7	18.9	21.1	25.7	39.1	54.7
$h_3 h_5$	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300
VV	< 1000	< 1200	< 1200	< 1600	< 1600	< 2000	< 2100	< 2500	< 2500	< 4800	< 16000
00	10.6	10.2	10.6	14.1	14.1	16.3	16.3	17.0	17.0	43.5	85.9
01	11.7	11.0	11.7	16.6	16.6	19.1	19.1	19.8	19.8	45.2	84.5
02	11.7	11.7	12.4	15.2	15.2	18.7	18.7	21.9	21.9	45.2	84.5
03	12.0	11.3	12.7	15.5	15.9	19.4	19.8	21.9	22.3	44.5	85.2
04	12.7	11.3	13.4	15.5	16.3	18.7	19.4	20.8	21.6	40.4	83.4
05	12.7	11.7	13.4	16.3	17.7	19.8	20.8	21.6	21.9	46.6	83.0
06	14.5	13.4	15.5	18.0	19.4	23.0	23.7	24.4	25.1	40.8	83.4
07	15.5	16.3	17.3	23.0	23.3	26.5	26.5	28.3	28.3	49.1	82.3
08	17.0	15.5	17.7	22.3	23.3	26.9	27.2	27.9	28.3	52.7	84.1
09	14.1	14.5	16.3	20.8	20.8	25.4	25.4	27.2	27.2	54.8	83.4
10	13.1	14.1	14.8	18.7	18.7	21.6	21.6	22.6	22.6	48.8	81.6
11	11.7	12.7	13.4	16.6	17.3	20.5	20.5	20.8	20.8	44.9	79.9
12	10.6	10.6	11.0	13.8	13.8	17.7	17.7	18.0	18.0	41.3	78.1
13	8.8	8.5	9.2	10.2	10.6	12.7	12.7	14.1	14.1	36.4	77.0
14	9.5	9.5	10.6	12.0	12.4	13.4	13.4	13.4	13.4	35.3	76.7
15	7.4	8.1	8.1	10.2	10.2	13.4	13.4	15.2	15.2	35.3	77.0
16	8.1	8.8	8.8	11.7	11.7	13.8	13.8	15.5	15.5	37.5	78.4
17	7.8	8.5	8.5	11.7	11.7	15.2	15.2	17.0	17.0	40.6	81.6
18	7.4	6.7	7.4	10.6	10.6	14.8	14.8	15.2	15.2	42.8	83.0
19	8.5	8.1	8.8	11.0	11.7	14.1	14.5	16.3	16.3	43.1	82.7
20	9.9	9.5	10.2	10.6	11.0	15.2	15.5	15.8	16.3	43.5	81.2
21	10.6	9.5	11.0	12.0	13.1	17.0	17.7	18.0	18.7	41.0	84.1
22	11.0	10.2	11.3	12.4	13.1	15.2	15.5	16.3	16.6	42.4	83.7
23	9.5	8.5	9.9	11.3	12.4	14.1	14.8	15.9	16.6	42.4	83.4
9 km	11.1	10.8	11.8	14.6	15.0	18.0	18.3	19.4	19.6	44.1	82.0

1C

maart 1959 t/m 1968

1A

	vv in meters													
gmt	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4900	< 16000
00	1.6	1.6	1.6	1.6	1.9	1.9	2.3	2.3	2.6	5.2	9.7	10.7	29.0	70.4
01	1.9	1.9	1.9	2.3	2.6	2.9	3.2	3.5	3.5	9.4	10.7	12.9	31.6	77.4
02	2.9	2.9	3.2	3.5	3.5	3.9	3.9	4.8	6.1	10.7	14.5	15.8	32.6	77.7
03	1.9	3.2	3.5	4.2	4.5	4.8	4.8	6.1	6.8	10.0	14.2	16.5	34.5	78.7
04	3.5	4.5	4.5	4.8	4.8	4.8	4.8	6.1	6.8	10.3	14.2	16.1	33.5	79.4
05	2.6	3.9	4.2	4.5	4.8	5.5	6.5	6.8	6.8	11.9	15.8	17.4	36.1	80.0
06	2.6	2.9	4.2	4.5	5.2	5.8	6.8	7.4	9.0	14.8	18.1	19.4	38.7	77.7
07	2.6	3.2	3.9	3.9	4.8	5.2	5.5	7.1	8.1	13.5	16.8	19.0	39.4	80.3
08	3.2	3.9	4.2	4.2	4.8	5.5	5.8	7.1	8.1	11.3	13.9	16.1	40.0	81.6
09	1.6	2.9	3.2	3.2	3.2	3.5	4.2	5.8	6.1	7.7	10.7	12.9	35.2	81.3
10	0.6	0.6	0.6	1.3	1.9	2.6	2.6	3.9	4.5	7.4	8.4	10.0	26.5	77.1
11	0.3	0.3	0.3	0.3	0.6	1.0	1.0	1.6	2.6	4.5	5.8	7.1	25.2	70.6
12	0.3	0.3	0.3	0.3	0.3	1.0	2.3	2.3	2.3	3.2	5.2	5.2	19.4	67.1
13	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.3	1.6	2.3	3.9	4.2	16.1	64.8
14	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.9	2.6	2.9	4.2	5.2	15.5	61.3
15	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	3.2	4.8	4.8	17.7	56.1
16	0.3	0.3	0.3	0.3	0.3	0.3	0.6	1.0	1.3	2.9	4.2	4.8	14.5	61.0
17	0.6	0.6	0.6	0.6	1.0	1.0	1.3	1.3	2.3	3.5	5.8	6.1	18.4	65.5
18	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.6	3.2	5.5	7.1	20.6	72.9
19	0.3	0.3	0.3	0.6	0.6	0.6	1.0	1.0	1.0	3.5	5.5	7.1	21.3	77.7
20	0.3	0.3	0.6	0.6	0.6	0.6	1.0	1.3	1.3	3.5	6.8	7.4	22.9	77.7
21	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.6	2.9	6.1	7.1	22.3	77.1
22	0.6	0.6	0.6	1.0	1.3	1.3	1.6	2.3	2.6	4.5	7.4	8.1	24.2	75.8
23	1.0	1.3	1.3	1.6	1.6	1.9	1.9	2.3	2.3	3.2	6.8	8.7	24.5	74.8
Gem.	1.3	1.6	1.7	1.9	2.1	2.3	2.6	3.3	3.9	6.5	9.1	10.4	26.7	73.8

1B

	h_3h_3 in meters										N ≥ 5/8	
gmt	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400	
00	0.6	1.3	2.3	4.5	6.5	8.1	11.3	12.9	18.4	28.1	50.6	
01	0.6	1.9	3.5	6.5	8.4	10.3	13.2	15.2	19.0	31.3	52.9	
02	0.6	3.5	5.5	8.7	9.4	12.3	16.1	16.5	21.6	32.9	52.9	
03	1.6	4.2	5.8	9.0	10.0	12.3	14.8	16.8	21.6	34.2	53.9	
04	1.9	4.8	6.1	9.4	10.3	12.9	17.1	18.7	24.8	35.8	54.8	
05	1.3	4.5	6.5	8.7	10.3	12.3	16.8	18.4	25.5	36.8	56.5	
06	0.6	2.9	5.8	9.0	11.3	13.9	15.8	18.1	23.9	35.2	55.2	
07	0.6	3.5	4.5	7.7	10.7	12.9	16.8	18.7	23.2	34.2	52.9	
08	0.6	2.6	4.8	8.1	10.7	13.2	19.4	20.6	24.5	33.9	54.2	
09	1.0	2.3	4.2	6.5	9.0	11.0	15.8	18.7	23.5	34.8	50.3	
10	-	1.3	3.5	5.5	6.5	9.4	13.5	15.8	22.9	37.7	51.9	
11	0.3	0.3	1.6	3.9	5.2	7.1	11.6	12.9	19.0	36.5	51.0	
12	-	-	2.3	3.2	4.8	6.5	10.0	11.0	14.5	33.9	49.0	
13	-	0.3	1.6	2.3	3.5	4.2	7.7	8.7	13.9	32.9	49.4	
14	-	0.3	1.3	1.9	2.6	3.9	6.5	9.4	12.3	27.7	50.3	
15	-	0.3	0.6	1.0	2.3	3.2	5.2	8.1	10.3	27.1	45.5	
16	-	0.3	0.6	0.6	1.6	1.9	3.9	6.1	9.4	20.4	45.8	
17	0.3	0.6	1.3	1.3	1.3	3.2	5.8	8.1	11.0	22.6	42.6	
18	0.3	0.3	1.0	1.6	1.6	1.9	5.5	8.1	11.3	27.4	42.9	
19	0.3	0.3	0.6	1.6	1.9	2.6	6.5	8.7	12.6	22.9	45.8	
20	0.3	0.3	0.3	1.6	3.2	4.5	8.4	9.7	12.6	24.2	43.2	
21	0.3	0.3	1.3	2.9	4.2	5.8	9.7	11.0	13.9	26.5	50.0	
22	0.3	1.0	2.6	3.5	4.8	5.2	9.4	11.0	14.8	27.1	51.6	
23	0.6	1.3	2.6	3.9	5.2	6.5	10.0	12.3	16.1	28.7	50.3	
Gem.	0.5	1.6	2.9	4.7	6.1	7.7	11.3	13.1	17.5	30.9	50.1	

1C

h_3h_3	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300
vv	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4900	< 16000
00	1.6	1.6	2.6	1.6	1.6	2.6	1.9	1.9	2.9	2.3	2.3	3.2	2.3	2.3	3.2	2.6	3.5	5.2	6.1	9.7	9.7	10.7	10.7	31.9	78.4
01	1.9	2.6	4.2	1.9	2.6	4.2	2.6	2.9	4.5	3.2	3.2	4.8	3.5	3.5	5.2	3.5	5.2	9.4	10.7	10.7	11.3	12.9	13.5	34.8	77.4
02	2.9	3.9	5.8	3.2	4.2	5.8	3.5	4.2	5.8	3.4	4.5	6.1	4.8	5.2	6.8	6.1	7.7	10.7	11.9	14.5	14.8	15.8	16.1	35.5	77.7
03	2.9	4.5	6.1	3.4	4.8	6.5	4.5	5.2	6.8	4.8	5.5	7.1	6.1	6.5	7.7	7.1	8.4	10.3	11.3	14.2	14.8	16.5	17.1	36.5	78.7
04	3.5	4.2	6.5	4.5	5.2	6.5	4.8	5.5	6.5	4.8	5.5	6.5	6.1	6.5	7.1	6.8	7.4	10.3	11.0	14.2	14.2	16.1	16.1	37.4	79.4
05	2.9	4.8	6.8	4.2	5.2	7.1	4.8	5.8	7.1	5.5	6.5	7.7	6.8	7.1	8.4	7.1	8.4	11.9	12.6	15.8	16.1	17.4	17.4	38.4	80.0
06	2.6	3.2	6.1	4.2	4.5	6.8	5.2	5.5	7.1	6.8	7.1	8.1	7.4	7.7	8.7	9.0	10.0	14.8	15.8	18.1	18.7	19.4	20.0	41.9	78.1
07	2.6	4.2	5.2	3.9	4.5	5.2	4.8	5.2	5.5	5.5	5.8	6.1	7.1	7.1	7.4	8.1	8.4	13.5	13.5	16.8	16.8	19.0	19.0	43.9	80.6
08	3.2	3.5	5.5	4.2	4.5	5.8	4.8	4.8	5.8	5.8	5.8	6.5	7.1	7.1	7.4	8.1	8.4	11.3	11.6	13.9	14.2	16.1	16.5	44.5	81.9
09	1.9	4.6	4.5	3.2	3.2	4.5	3.2	3.2	4.5	4.2	4.2	4.8	5.8	5.8	6.1	6.1	6.5	7.7	8.1	10.7	11.0	12.9	13.2	39.7	81.3
10	0.6	1.3	3.5	0.6	1.3	3.5	1.9	1.9	3.9	2.6	2.6	3.9	3.9	3.9	4.5	4.5	4.8	7.4	7.4	8.4	8.4	10.0	10.0	32.3	77.4
11	0.3	0.3	1.6	0.3	0.3	1.6	0.6	0.6	1.6	1.0	1.0	1.6	1.6	1.6	2.3	2.6	3.2	4.5	5.2	5.8	5.8	7.1	7.1	49.0	70.6
12	0.3	0.3	2.6	0.3	0.3	2.6	0.3	0.3	2.6	2.3	2.3	3.2	2.3	2.3	3.2	2.3	3.2	3.2	4.2	5.2	5.8	5.2	5.8	21.9	67.1
13	0.3	0.3	1.6	0.3	0.3	1.6	0.3	0.3	1.6	0.6	0.6	1.9	1.3	1.3	1.9	1.6	2.3	2.3	2.9	3.9	4.2	4.2	4.5	18.4	64.8
14	0.3	0.3	1.3	0.3	0.3	1.3	0.3	0.3	1.3	0.6	0.6	1.6	1.9	1.9	2.3	2.6	2.9	2.9	3.2	4.2	4.5	5.2	5.2	18.1	61.3
15	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6	1.0	1.0	1.3	1.3	1.3	3.2	3.2	4.8	4.8	4.8	4.8	18.4	56.1
16	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3	2.9	2.9	4.2	4.2	4.8	4.8	16.1	61.0
17	0.6	0.6	1.3	0.6	0.6	1.3	1.0	1.0	1.6	1.3	1.3	1.9	1.3	1.3	1.9	2.3	2.3	3.5	3.5	5.8	5.8	6.1	6.1	20.6	65.8
18	0.6	0.6	1.3	0.6	0.6	1.3	0.6	0.6	1.3	1.0	1.0	1.6	1.0	1.0	1.6	1.6	1.9	3.2	3.2	5.5	5.5	7.1	7.1	22.6	72.9
19	0.3	0.3	0.6	0.3	0.3	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.0	1.0	1.3	1.0	1.3	3.5	3.2	5.5	5.5	7.1	7.1	23.5	77.7
20	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	3.5	3.5	6.0	6.8	7.4	7.4	24.5	77.7
21	0.3	0.3	1.3	0.3	0.3	1.3	0.3	0.3	1.3	0.3	0.3	1.3	1.0	1.0	1.6	1.6	2.3	2.9	3.5	6.1	6.8	7.1	7.7	25.2	77.4
22	0.6	1.0	2.6	0.6	1.0	2.6	1.3	1.6	3.2	1.6	1.6	3.2	2.3	2.3	3.5	2.6	3.5	4.5	5.2	7.4	7.4	8.1	8.1	26.8	75.8
23	1.0	1.6	2.9	1.3	1.6	2.9	1.6	1.9	2.9	1.9	1.9	2.9	2.3	2.3	2.9	2.3	2.9	3.2	3.5	6.8	6.8	8.7	8.7	28.7	75.2
Gem.	1.3	1.8	3.1	1.7	2.0	3.2	2.1	2.3	3.4	2.6	2.8	3.7	3.3	3.4	4.1	3.9	4.5	6.5	7.0	9.1	9.3	10.4	10.6	29.6	73.9

april 1959 &, 1968

1A

gmt	VV in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	1.0	1.0	1.7	2.0	2.3	2.3	3.3	5.0	5.3	6.3	8.3	8.7	20.3	71.3
01	0.7	1.0	3.0	3.0	3.3	3.7	4.0	4.7	5.0	6.0	9.3	10.7	22.0	72.3
02	1.7	0.7	3.3	3.3	4.0	4.7	4.7	5.0	5.7	8.7	11.3	13.3	25.0	72.7
03	2.0	2.3	3.3	3.3	4.0	5.3	5.7	6.3	7.3	9.3	13.3	14.0	25.7	74.3
04	3.3	4.7	4.7	5.7	6.0	6.3	7.3	8.0	8.3	11.0	16.0	17.0	28.7	75.0
05	4.0	5.3	6.0	6.7	8.0	9.0	9.7	10.7	11.3	14.0	17.7	18.7	34.7	75.3
06	4.7	5.3	6.0	6.3	7.3	8.0	8.7	11.0	12.0	14.0	17.3	18.3	36.0	77.0
07	2.3	3.7	4.0	4.0	4.7	5.3	6.0	7.7	9.3	12.3	15.0	16.0	35.3	77.7
08	1.7	2.3	2.7	3.0	3.3	3.3	3.7	6.0	7.0	9.3	10.7	12.0	32.3	73.3
09	1.0	2.0	2.0	3.3	3.3	3.3	3.3	4.3	5.7	7.3	9.7	10.3	25.7	70.0
10	0.3	1.0	1.3	2.0	2.0	3.0	3.0	3.3	4.3	6.0	7.0	7.7	20.3	66.0
11	-	0.3	0.3	1.0	1.0	1.0	1.0	1.3	2.0	4.0	5.0	5.3	15.7	56.7
12	-	0.3	0.3	0.7	0.7	1.0	1.0	1.3	1.7	3.3	4.7	5.7	13.0	50.7
13	-	-	-	0.3	0.3	0.3	0.7	1.3	1.7	3.0	4.3	4.3	13.0	49.3
14	-	-	-	-	-	-	0.7	0.7	1.3	1.3	3.0	3.3	11.7	47.3
15	-	-	-	-	-	0.7	0.7	0.7	0.7	1.3	3.0	3.3	10.7	46.0
16	-	-	-	-	0.3	0.7	0.7	1.0	1.0	1.7	2.7	2.7	10.7	48.7
17	-	-	-	-	0.3	0.3	0.3	0.7	0.7	2.0	3.0	3.3	11.7	49.7
18	-	-	-	-	-	0.3	0.3	0.7	1.0	2.0	4.3	4.7	13.0	57.0
19	-	-	-	-	-	0.3	0.3	1.0	1.3	3.0	5.7	6.3	15.0	62.3
20	-	-	-	-	0.3	0.3	1.0	1.3	1.3	4.0	5.0	5.0	15.0	66.0
21	-	-	0.3	0.7	1.3	1.3	1.3	1.7	1.7	3.7	6.0	6.3	15.0	63.3
22	0.3	0.3	0.3	1.7	1.7	2.0	2.3	3.0	3.7	6.0	6.3	6.3	18.3	64.0
23	-	0.3	0.7	1.0	1.3	2.0	2.3	2.7	3.3	5.3	6.7	6.7	20.3	67.3
gem.	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.7	4.3	6.0	8.1	8.7	20.4	63.8

1B

$h_s h_s$ in meters, N ≥ 5/8										
< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 600	< 2400
-	4.0	4.3	5.7	7.3	8.3	11.3	12.0	14.0	21.3	42.3
0.3	2.7	5.3	6.0	8.3	9.0	11.0	12.3	14.3	21.7	43.0
0.3	3.3	5.7	6.7	7.7	8.7	11.7	12.7	15.7	22.7	43.7
0.3	3.7	6.7	7.3	8.7	9.7	11.0	13.0	17.3	25.3	44.3
0.3	4.7	7.7	9.0	11.3	12.7	14.3	16.3	19.3	28.0	49.3
0.7	4.3	7.7	10.0	12.7	14.3	17.0	17.7	21.0	27.7	50.0
1.7	3.3	7.0	9.3	11.7	13.0	15.7	18.0	22.3	31.0	47.0
0.3	3.3	6.7	10.0	12.3	14.7	18.3	20.7	24.7	31.7	45.7
0.3	1.7	6.0	8.3	10.0	12.0	17.7	20.0	24.0	35.0	46.7
-	0.7	4.3	7.7	10.0	12.0	14.3	17.7	22.3	36.3	49.3
0.3	0.3	3.3	5.3	7.0	9.0	13.0	15.3	18.7	36.0	44.3
-	-	1.3	3.7	5.3	7.0	8.7	10.3	15.7	33.3	47.0
-	-	1.3	4.0	5.0	6.3	8.3	10.3	13.0	29.7	45.7
-	-	1.3	2.0	3.3	4.3	8.0	8.7	12.0	23.3	41.7
-	0.3	1.7	3.0	4.0	4.0	6.7	7.7	8.7	21.7	34.0
-	0.3	1.0	3.0	3.3	4.3	5.0	6.3	8.0	20.3	39.7
-	0.3	0.7	2.3	3.3	3.7	5.7	7.0	9.0	19.7	37.0
-	0.3	0.7	2.3	2.7	3.7	5.7	6.3	8.0	14.3	33.0
-	0.3	1.0	2.7	3.0	4.3	6.7	7.3	9.0	18.0	34.0
-	-	1.0	2.3	2.7	3.7	7.0	8.3	9.7	17.3	30.3
-	0.3	1.7	2.7	3.0	5.0	7.0	7.3	9.0	16.7	35.7
-	0.7	2.0	2.7	4.7	4.7	5.7	7.3	9.7	15.0	39.3
-	1.0	3.0	4.7	5.7	5.7	7.7	8.0	11.7	19.3	40.7
-	0.3	3.3	4.3	6.7	7.7	10.0	10.3	12.7	19.7	39.7
0.2	1.4	3.6	5.2	6.7	7.8	10.3	11.7	14.6	24.4	42.6

$h_s h_s$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 1000	< 1000	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000	< 1200	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 4800	< 16000	< 16000
00	1.0	2.3	5.7	1.7	2.3	5.7	2.3	3.0	6.0	3.3	3.3	6.0	5.0	5.0	6.7	5.3	7.0	6.3	7.7	8.3	8.7	8.7	9.0	22.7	71.3			
01	1.0	2.7	5.3	3.0	3.3	5.7	3.3	3.3	5.7	4.0	4.0	6.0	4.7	4.7	6.3	5.0	6.7	6.0	7.0	9.3	9.7	10.7	11.0	25.0	72.3			
02	2.0	3.3	5.7	3.3	4.0	6.0	4.0	4.3	6.3	4.7	4.7	6.7	5.0	5.0	7.0	5.7	7.3	8.7	9.3	11.3	12.0	13.3	14.0	27.7	72.7			
03	2.0	4.0	7.0	3.3	4.7	7.0	4.0	4.7	7.0	5.7	5.7	7.7	6.3	6.3	8.3	7.3	9.0	9.3	10.3	13.3	13.7	14.0	14.3	27.7	74.7			
04	3.7	5.0	8.0	4.7	5.3	8.0	6.0	6.3	8.7	7.3	7.7	9.3	8.0	8.0	9.7	8.3	9.7	11.0	11.7	16.0	16.3	17.0	17.3	32.0	75.0			
05	4.3	5.7	9.0	6.0	6.7	9.7	8.0	8.3	10.0	9.7	9.7	11.3	10.7	10.7	11.7	11.3	12.0	14.0	14.7	17.7	18.0	18.7	19.0	36.7	75.3			
06	4.7	5.3	9.0	6.0	6.3	10.0	7.3	7.3	10.3	8.7	8.7	11.3	11.0	11.0	12.7	12.0	13.3	14.0	15.0	17.3	17.7	18.3	18.7	38.3	77.0			
07	2.3	3.7	6.7	4.0	4.7	7.3	4.7	5.3	7.7	6.0	6.3	8.3	7.7	7.7	9.0	9.3	10.7	12.3	13.0	15.0	15.0	16.0	16.0	39.7	77.7			
08	1.7	2.3	6.7	2.7	2.7	6.7	3.3	3.3	7.0	3.7	3.7	7.0	6.0	6.0	7.7	7.0	8.3	9.3	10.3	10.7	11.0	12.0	12.3	37.3	73.3			
09	1.0	1.7	4.3	2.0	2.0	4.3	3.3	3.3	5.0	3.3	3.3	5.0	4.3	4.3	5.7	5.7	6.7	7.3	7.7	9.7	9.7	10.3	10.3	30.3	70.0			
10	0.3	0.3	3.3	1.3	1.3	4.0	2.0	2.0	4.3	3.0	3.0	5.0	3.3	3.3	5.0	4.3	5.3	6.0	6.3	7.0	7.0	7.7	7.7	24.0	66.0			
11	-	-	1.3	0.3	0.3	1.3	1.0	1.0	1.7	1.0	1.0	1.7	1.3	1.3	1.7	2.0	2.3	4.0	4.3	5.0	5.0	5.3	5.3	19.3	56.7			
12	-	-	1.3	0.3	0.3	1.3	0.7	0.7	1.3	1.0	1.0	1.7	1.3	1.3	2.0	1.7	2.3	3.3	4.0	4.7	5.0	5.7	5.7	16.3	51.0			
13	-	-	1.3	-	-	1.3	0.3	0.3	1.3	0.7	0.7	1.7	1.3	1.3	2.0	1.7	2.3	3.0	3.3	4.3	4.7	4.3	4.7	15.0	49.3			
14	-	0.3	1.3	-	0.3	1.3	-	0.3	1.3	0.7	0.7	1.7	0.7	0.7	1.7	1.3	2.0	1.3	2.0	3.0	3.0	3.3	3.3	13.7	47.3			
15	-	0.3	1.0	-	0.3	1.0	-	0.3	1.0	0.7	0.7	1.0	0.7	0.7	1.0	0.7	1.0	1.3	1.7	3.0	3.3	3.3	3.7	11.7	46.0			
16	-	0.3	0.7	-	0.3	0.7	0.3	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.7	1.7	2.7	2.7	2.7	2.7	12.0	48.7			
17	-	0.3	0.7	-	0.3	0.7	0.3	0.7	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.0	3.0	3.0	3.3	3.3	12.7	49.7			
18	-	0.3	1.0	-	0.3	1.0	-	0.3	1.0	0.3	0.7	1.0	0.7	0.7	1.0	1.0	1.3	2.0	2.0	4.3	4.3	4.7	4.7	14.3	54.0			
19	-	-	1.0	-	-	1.0	-	-	1.0	0.3	0.3	1.0	1.0	1.0	1.3	1.3	1.7	3.0	3.0	5.7	5.7	6.3	6.3	16.0	62.3			
20	-	0.3	1.7	-	0.3	1.7	0.3	0.3	1.7	1.0	1.0	2.0	1.3	1.3	2.3	1.3	2.3	4.0	4.0	5.0	5.0	5.0	5.0	16.0	66.0			
21	-	0.7	2.0	0.3	0.7	2.0	1.3	1.3	2.3	1.3	1.3	2.3	1.7	1.7	2.7	1.7	2.7	3.7	3.7	6.0	6.0	6.3	6.3	15.7	63.3			
22	0.3	1.0	3.0	0.3	1.0	3.0	1.7	1.7	3.3	2.3	2.3	4.0	3.0	3.0	4.3	3.7	4.7	6.0	6.3	6.3	6.7	6.3	6.7	19.7	64.0			
23	-	0.3	3.3	0.7	0.7	3.7	1.3	1.3	3.7	2.3	2.3	3.7	2.7	2.7	4.0	3.3	4.0	5.3	5.7	6.7	6.7	6.7	6.7	22.0	67.3			
gem	1.0	1.7	3.8	1.7	2.0	3.9	2.3	2.5	4.1	3.0	3.1	4.4	3.7	3.7	4.8	4.3	5.2	6.0	6.5	8.1	8.3	8.7	8.9	22.7	63.8			

1C

1A

met 1959 4m 1968

1B

9mt	VV in meters															$h_3 h_3$ in meters											N ≥ 5/8	
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000		< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400		
00	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.0	1.6	3.2	3.2	12.3	63.4		–	–	0.6	1.0	1.3	2.9	4.5	5.8	9.0	15.8	37.7		
01	0.3	0.6	1.0	1.0	1.0	1.0	1.0	1.3	1.6	1.9	4.5	5.2	17.1	67.7		–	–	1.9	2.9	4.5	6.1	7.7	9.4	11.9	19.4	38.7		
02	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.6	2.3	3.2	5.5	5.8	19.0	70.3		–	0.6	2.6	3.9	5.8	7.7	9.4	10.7	13.9	22.6	38.7		
03	1.3	1.6	2.6	2.6	2.6	2.6	2.6	3.2	3.9	7.1	9.0	10.0	25.2	71.3		–	0.6	2.9	3.5	4.8	6.8	8.4	9.7	15.5	24.2	42.3		
04	1.3	1.9	2.6	2.9	3.5	4.2	4.8	6.8	7.4	11.3	13.9	14.5	28.7	75.5		–	2.9	4.5	5.5	7.1	9.0	10.7	11.6	15.5	25.8	43.5		
05	2.6	3.2	3.5	3.9	4.5	4.8	5.2	6.1	7.1	9.7	13.9	15.8	29.0	75.2		–	1.9	3.9	5.2	6.1	8.1	10.0	11.9	16.1	27.1	43.9		
06	2.6	2.9	3.2	3.2	3.5	3.9	4.2	5.2	6.1	9.7	11.6	13.2	31.3	75.2		–	2.3	5.5	6.1	8.1	10.7	12.6	14.5	20.0	31.9	45.8		
07	1.0	1.3	2.3	2.6	3.2	3.5	4.2	4.5	4.5	6.8	10.7	11.9	26.8	77.1		–	1.6	4.2	6.8	9.0	10.0	13.2	15.5	21.3	33.2	47.1		
08	0.6	1.3	1.3	1.3	1.6	2.3	2.3	3.9	4.2	4.8	6.8	8.4	20.6	70.6		–	2.3	2.3	4.2	5.5	7.4	12.6	15.2	21.0	32.6	41.9		
09	–	0.3	0.3	0.6	0.6	1.3	1.6	1.9	2.9	3.9	5.8	5.8	15.2	64.2		–	0.3	2.9	3.2	4.5	5.8	10.3	11.3	15.8	29.4	39.4		
10	–	–	–	–	–	–	0.3	0.3	1.0	1.9	3.5	3.5	10.3	55.8		–	–	0.6	1.9	3.2	3.9	6.8	8.7	13.2	28.1	40.3		
11	–	–	–	–	–	–	–	0.3	0.3	0.3	0.6	1.0	6.5	58.0		–	–	0.6	1.3	1.6	2.3	3.9	6.1	9.7	23.5	39.0		
12	–	–	–	–	–	–	–	0.3	0.3	0.6	0.6	0.6	6.5	43.9		–	–	0.3	1.0	1.3	1.3	3.2	5.5	7.1	19.7	34.2		
13	–	–	–	–	–	–	–	–	–	–	0.3	0.3	4.8	43.9		–	–	–	–	0.6	1.6	2.6	4.2	6.1	17.1	35.5		
14	–	–	–	–	–	–	–	–	–	–	0.3	0.6	4.2	40.6		–	–	–	–	0.3	0.3	1.9	2.6	5.2	13.2	31.6		
15	–	–	–	–	–	–	–	–	–	–	–	0.6	5.5	38.7		–	–	–	–	–	0.6	1.6	2.9	4.8	13.5	37.7		
16	–	–	–	–	–	–	–	–	–	0.3	0.6	1.0	6.1	37.4		–	–	–	0.3	0.6	1.3	2.3	2.9	4.5	11.0	35.8		
17	–	–	–	–	–	–	–	–	–	–	0.3	0.3	5.2	39.7		–	–	–	0.3	0.6	0.6	1.3	1.6	2.9	10.0	33.9		
18	–	–	–	–	–	–	–	–	–	–	0.6	0.6	4.5	40.6		–	–	0.3	0.3	1.0	1.0	1.3	1.3	3.2	9.4	33.2		
19	–	–	–	–	–	–	–	–	–	–	1.0	1.3	7.4	51.6		–	–	0.3	0.3	0.6	1.0	1.6	1.6	3.9	12.6	32.9		
20	–	–	–	–	–	–	–	0.3	0.3	0.3	1.0	1.6	7.4	58.1		–	–	–	0.3	0.3	0.3	1.0	1.6	3.2	12.6	36.5		
21	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	7.7	60.0		–	–	–	1.0	1.0	1.3	2.3	2.9	5.2	11.9	37.1		
22	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.6	1.6	7.1	56.8		–	–	0.3	0.3	1.0	1.0	2.3	3.2	4.8	13.9	37.7		
23	–	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	1.0	1.9	2.3	9.7	59.0		–	–	1.0	1.0	1.6	3.2	4.2	4.2	6.5	14.5	39.7		
9em	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.6	1.9	2.8	4.1	4.6	13.3	57.8		–	0.5	1.4	2.1	2.9	3.9	5.7	6.9	10.0	19.7	38.5		
$h_3 h_5$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 1000	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 200		
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000				
00	0.3	0.3	1.0	0.3	0.3	1.0	0.3	0.3	1.0	0.3	0.3	1.0	1.0	1.0	1.3	1.0	1.3	1.6	1.4	3.2	3.2	3.2	3.2	14.8	63.4			
01	0.3	0.3	1.9	1.0	1.0	2.3	1.0	1.0	2.3	1.0	1.0	2.3	1.3	1.3	2.3	1.6	2.6	1.9	2.9	4.5	4.8	5.2	5.5	19.7	67.7			
02	1.0	1.0	2.9	1.3	1.3	2.9	1.3	1.3	2.9	1.3	1.3	2.9	1.6	1.6	3.2	2.3	3.9	3.2	4.5	5.5	6.8	5.8	7.1	21.3	70.6			
03	1.3	1.3	3.5	2.6	2.6	4.2	2.6	2.6	4.2	2.6	2.6	4.2	3.2	3.2	4.8	3.9	5.5	7.1	8.4	9.0	10.0	10.0	11.0	26.5	71.3			
04	1.3	2.9	4.5	2.6	3.9	5.2	3.5	4.2	5.5	4.8	5.2	6.5	6.8	6.8	7.4	7.4	8.1	11.3	11.9	13.9	13.9	14.5	14.5	30.3	75.5			
05	2.6	2.9	4.8	3.5	3.5	4.8	4.5	4.5	5.2	5.2	5.2	5.8	6.1	6.1	6.5	7.1	7.4	9.7	10.0	13.9	13.9	15.8	15.8	31.0	75.5			
06	1.6	2.9	5.8	3.2	3.5	5.8	3.5	3.5	5.8	4.2	4.2	6.5	5.2	5.2	7.1	6.1	7.7	9.7	10.7	11.6	12.3	13.2	13.9	33.9	75.2			
07	1.0	1.9	4.5	2.3	2.6	4.8	3.2	3.5	4.8	4.2	4.5	5.2	4.5	4.5	5.2	4.5	5.2	6.8	7.1	10.7	11.0	11.9	12.3	30.6	77.1			
08	0.6	2.6	2.6	1.3	2.6	2.6	1.6	2.6	2.6	2.3	2.6	2.6	3.4	3.9	3.9	4.2	4.2	4.8	4.8	6.8	6.8	8.4	8.4	26.1	70.6			
09	–	0.3	2.9	0.3	0.3	2.9	0.6	0.6	2.9	1.6	1.6	3.2	1.9	1.9	3.5	2.9	4.2	3.4	4.5	5.8	6.1	5.8	6.1	17.4	64.2			
10	–	–	0.6	–	–	0.6	–	–	0.6	0.3	0.3	1.0	0.3	0.3	1.0	1.0	1.3	1.9	2.3	3.5	3.4	3.5	3.9	13.2	55.8			
11	–	–	0.6	–	–	0.6	–	–	0.6	–	–	0.6	0.3	0.3	1.0	0.3	1.0	0.3	1.0	0.6	1.3	1.0	1.6	9.7	50.0			
12	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	0.3	0.3	0.6	0.3	0.6	0.6	1.0	0.6	1.0	0.6	1.0	8.7	43.9			
13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	0.3	6.8	43.9			
14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.6	0.6	5.5	40.6			
15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.6	0.6	6.8	38.7			
16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.6	0.6	1.0	1.0	6.8	37.4			
17	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	0.3	5.2	39.7			
18	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	–	0.3	0.6	0.6	0.6	0.6	4.8	40.6			
19	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	–	0.3	1.0	1.3	1.3	1.6	8.1	57.9			
20	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.0	1.6	1.6	7.4	58.1			
21	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	8.4	60.0			
22	0.6	0.6	1.0	0.6	0.6	1.0	0.6	0.6	1.0	0.6	0.6	1.0	1.0	1.0	1.3	1.0	1.3	1.0	1.3	1.6	1.6	1.6	1.6	8.1	56.8			
23	–	–	1.0	0.3	0.3	1.3	0.6	0.6	1.6	0.6	0.6	1.6	0.6	0.6	1.6	0.6	1.6	1.0	1.9	1.9	2.3	2.3	2.6	11.3	59.0			
9em	0.5	0.7	1.6	0.8	1.0	1.7	1.0	1.1	1.8	1.2	1.3	1.9	1.6	1.6	2.2	1.9	2.4	2.8	3.2	4.1	4.3	4.6	4.8	15.1	57.8			

1C

Juni 1959 t/m 1968

1A

gmt	VV in meters														
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000	
00	0.3	0.3	0.3	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.7	3.7	14.0	62.7	
01	0.3	0.3	0.3	0.7	0.7	0.7	0.7	1.3	1.3	2.3	4.3	4.7	13.3	65.3	
02	0.3	0.3	0.3	0.3	1.3	1.3	1.7	2.3	2.7	3.3	5.0	5.3	17.3	71.7	
03	2.0	2.7	3.3	3.7	4.3	4.3	4.3	4.3	5.0	8.0	11.0	12.0	23.3	78.0	
04	2.0	2.7	4.3	4.7	4.7	5.0	5.3	6.7	7.7	11.0	14.3	15.7	29.0	80.7	
05	2.7	3.7	4.0	4.3	6.0	7.0	7.3	8.0	9.7	12.7	14.3	15.7	30.0	77.7	
06	3.3	3.3	3.7	4.0	4.0	4.7	5.0	5.3	5.7	10.0	11.7	13.0	27.7	73.7	
07	2.0	2.3	3.0	3.0	4.0	4.0	4.0	5.0	6.0	8.0	9.7	9.7	24.0	76.0	
08	0.3	1.0	1.7	1.7	1.7	2.0	2.0	2.7	3.7	5.3	6.0	6.7	17.7	70.0	
09	–	–	–	–	0.3	0.7	1.0	1.0	2.7	3.7	5.3	5.3	14.0	62.3	
10	–	–	–	–	–	0.3	0.3	0.3	0.7	2.3	3.0	3.3	10.3	57.3	
11	–	–	–	–	–	–	–	–	0.3	1.0	3.0	3.0	8.0	51.3	
12	–	–	–	–	–	–	–	–	0.3	0.7	0.7	0.7	5.7	42.0	
13	–	–	–	–	–	–	–	–	0.3	0.7	1.0	1.3	6.0	44.0	
14	–	–	–	–	–	–	–	–	–	0.3	0.7	0.7	4.3	42.3	
15	–	–	–	–	–	–	–	–	–	0.3	0.7	1.0	3.7	42.0	
16	–	–	–	–	–	–	–	–	–	–	0.3	0.7	4.0	41.0	
17	–	–	–	–	–	–	–	–	–	0.3	0.3	0.7	4.3	40.3	
18	–	–	–	–	–	–	–	–	–	–	0.3	0.7	5.3	41.0	
19	–	–	–	–	–	–	–	–	–	–	–	–	8.0	46.3	
20	–	–	–	–	–	–	–	–	–	0.3	0.7	1.0	10.3	55.3	
21	–	–	–	–	–	–	–	–	–	–	1.0	1.3	10.0	60.0	
22	–	–	–	–	–	–	–	–	–	0.7	1.7	1.7	10.3	59.0	
23	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	1.7	2.7	2.7	10.0	58.7	
gem.	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	2.0	3.1	4.2	4.6	12.8	59.5	
$h_3 h_3$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000
00	0.3	0.3	1.3	0.3	0.3	1.3	0.7	0.7	1.7	1.3	1.3	2.0	1.3	1.3	2.0
01	0.3	0.3	1.7	0.3	0.3	1.7	0.7	0.7	2.0	0.7	0.7	2.0	1.3	1.3	2.0
02	0.7	1.0	2.7	0.7	1.0	2.7	1.3	1.7	3.0	1.7	1.7	3.0	2.3	2.3	3.3
03	2.3	2.7	5.0	3.3	3.3	5.3	4.3	4.3	5.7	4.3	4.3	5.7	4.3	4.3	5.7
04	2.0	2.7	5.0	4.3	4.3	6.3	4.7	4.7	6.7	5.3	5.3	7.0	6.7	6.7	8.0
05	2.7	3.3	6.7	4.0	4.3	7.0	6.0	6.0	8.3	7.3	7.3	9.0	8.0	8.0	9.3
06	3.3	3.3	5.3	3.7	3.7	5.3	4.0	4.0	5.7	5.0	5.0	5.7	5.3	5.3	6.0
07	2.0	2.3	5.0	3.0	3.0	5.0	4.0	4.0	6.0	4.0	4.0	6.0	5.0	5.0	6.7
08	0.3	1.0	3.7	1.7	1.7	3.7	1.7	1.7	3.7	2.0	2.0	3.7	2.7	2.7	4.0
09	–	–	2.3	–	–	2.3	0.3	0.3	2.3	1.0	1.0	2.7	1.0	1.0	2.7
10	–	–	1.0	–	–	1.0	–	–	1.0	0.3	0.3	1.3	0.3	0.3	1.3
11	–	0.3	0.7	–	0.3	0.7	–	0.3	0.7	–	0.3	0.7	–	0.3	0.7
12	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
13	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
14	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
15	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
16	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
17	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
18	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
19	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
21	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
22	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3
23	0.3	0.3	0.7	0.3	0.3	0.7	0.3	0.3	0.7	0.7	0.7	1.0	1.0	1.0	1.3
gem	0.6	0.7	1.8	0.9	0.9	1.9	1.2	1.2	2.1	1.4	1.4	2.2	1.6	1.6	2.3

1B

	$h_3 h_3$ in meters N ≥ 5/8										
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400
00	0.3	0.3	1.3	1.7	2.0	3.3	5.0	5.7	6.7	15.0	32.0
01	0.3	0.3	1.7	3.3	4.0	4.3	5.7	6.7	9.7	15.7	32.7
02	0.7	1.0	2.7	3.3	4.7	5.7	7.7	8.7	12.0	21.0	35.0
03	0.7	1.7	4.0	4.3	5.7	7.0	8.7	9.3	14.0	22.7	35.3
04	0.7	2.3	4.7	5.0	6.7	7.3	9.7	11.0	13.7	25.0	37.7
05	0.3	2.7	6.0	8.0	9.3	11.3	13.7	15.3	18.3	25.3	40.0
06	0.3	2.3	5.0	7.7	10.0	12.3	14.7	17.3	19.3	24.7	40.3
07	–	2.0	5.0	8.7	10.0	11.3	13.3	16.3	21.0	28.0	41.0
08	–	1.0	3.7	6.3	7.3	8.7	11.3	13.7	17.7	29.7	42.0
09	–	–	2.3	4.0	5.7	7.0	9.0	11.0	17.3	30.0	39.7
10	–	–	1.0	2.7	4.0	5.0	7.3	8.3	13.7	25.7	38.7
11	–	0.3	0.7	1.3	1.7	3.3	6.3	8.0	9.7	21.0	30.3
12	–	–	0.3	0.7	0.7	1.3	4.0	4.3	8.0	15.3	35.0
13	–	–	0.3	0.3	0.7	1.7	2.7	2.7	6.0	14.0	34.7
14	–	–	0.3	0.3	0.7	1.0	2.3	3.7	5.7	13.0	31.7
15	–	–	0.3	0.7	1.0	1.7	2.0	3.3	4.7	9.3	30.7
16	–	–	0.3	1.3	1.7	2.0	3.0	3.0	4.3	11.0	27.7
17	–	–	0.3	1.0	1.7	2.3	2.3	2.7	4.7	8.0	27.0
18	–	–	0.3	1.3	1.7	2.3	2.3	2.3	3.0	9.7	23.7
19	–	–	–	1.3	1.3	1.7	2.3	2.7	3.3	9.0	22.7
20	–	–	–	1.0	1.0	2.0	2.3	3.0	3.7	10.0	25.0
21	–	–	0.3	0.7	0.7	1.7	1.7	3.0	4.7	10.3	28.7
22	–	–	0.3	0.3	0.7	1.3	2.0	3.0	4.7	11.7	29.7
23	0.3	0.3	0.7	0.7	1.0	1.7	3.7	5.3	6.7	15.0	33.7
gem.	0.2	0.6	1.7	2.7	3.5	4.5	6.0	7.1	9.7	17.5	33.5
$h_3 h_3$	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300
VV	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000
00	2.0	1.3	2.0	2.0	2.7	2.7	3.3	3.7	4.0	13.0	51.7
01	2.0	1.3	2.0	2.3	3.0	4.3	4.7	4.7	5.0	15.3	65.3
02	3.3	2.7	3.3	3.3	4.0	5.0	5.3	5.3	5.7	20.0	71.7
03	5.7	5.0	6.3	8.0	9.0	11.0	11.7	12.0	12.7	25.3	78.0
04	8.0	7.7	9.0	11.0	12.3	14.3	14.3	15.7	15.7	31.0	80.7
05	9.3	9.7	10.3	11.7	13.0	14.3	14.7	15.7	16.0	33.3	77.7
06	6.0	7.7	6.3	10.0	10.3	11.7	12.0	13.0	13.3	33.0	74.7
07	6.7	6.0	7.3	8.0	8.7	9.7	10.3	9.7	10.3	28.7	76.3
08	4.0	3.7	4.7	5.3	6.0	6.0	6.3	6.7	7.0	22.0	70.3
09	2.7	2.7	3.7	3.7	4.3	5.3	5.7	5.3	5.7	18.0	62.3
10	1.3	0.7	1.7	2.3	2.7	3.0	3.3	3.3	3.3	13.7	57.3
11	0.7	0.7	1.0	1.3	1.3	3.0	3.0	3.0	3.0	11.3	52.0
12	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	7.3	47.0
13	0.3	0.3	0.3	0.7	0.7	1.0	1.0	1.3	1.3	7.0	44.0
14	0.3	–	0.3	0.3	0.3	0.7	0.7	0.7	0.7	5.7	42.3
15	0.3	–	0.3	0.3	0.7	0.7	0.7	1.0	1.0	4.7	42.0
16	0.3	–	0.3	–	0.3	0.3	0.7	0.7	0.7	5.0	41.0
17	0.3	–	0.3	0.3	0.7	0.3	0.7	0.7	0.7	5.3	40.3
18	0.3	–	0.3	–	0.3	0.3	0.7	0.7	0.7	5.7	41.0
19	–	–	–	–	–	–	–	–	–	0.3	46.3
20	–	–	–	0.3	0.3	0.7	0.7	1.0	1.0	11.0	55.3
21	0.3	–	0.3	–	0.3	1.0	1.3	1.3	1.7	11.0	60.0
22	–	–	0.3	0.7	1.0	1.7	2.0	1.7	2.0	11.0	59.0
23	1.3	1.0	1.3	1.7	2.0	2.7	3.0	2.7	3.0	12.0	59.0
gem	2.3	2.0	2.6	3.7	3.6	4.2	4.4	4.6	48	14.9	58.1

1C

Juli 1959 t/m 1968

1A

9mt	VV in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	–	0.3	0.3	0.3	0.3	1.0	1.0	1.3	1.3	1.3	1.9	2.3	12.3	68.1
01	0.6	0.6	0.6	0.6	1.3	1.3	1.6	1.9	1.9	2.6	3.2	3.2	14.8	72.3
02	0.6	0.6	0.6	0.6	0.6	1.0	1.3	1.6	2.3	3.9	4.8	5.5	18.1	74.8
L 03	1.0	1.6	1.9	1.9	2.3	2.3	2.3	2.3	3.2	5.2	7.1	8.7	20.6	74.2
04	1.6	1.6	1.6	1.9	2.3	3.2	3.9	5.5	6.1	7.7	11.0	11.0	24.8	78.1
05	1.0	1.0	1.3	1.6	2.3	3.5	3.5	4.5	5.8	8.4	10.8	11.3	26.5	76.5
06	0.3	0.6	0.6	1.6	2.6	2.9	3.2	3.9	4.5	6.8	8.7	9.4	27.7	77.1
07	–	0.3	1.0	1.6	1.6	1.9	1.9	2.3	2.6	3.9	7.1	8.1	22.6	76.1
08	–	–	0.3	0.6	1.3	1.3	1.3	1.6	2.3	2.9	4.2	5.2	17.1	72.6
09	–	–	–	–	–	–	–	–	–	1.0	2.3	2.9	9.7	62.9
10	–	–	–	–	–	0.3	0.3	0.3	0.3	0.6	1.3	1.9	7.1	54.2
11	–	–	–	–	–	–	–	–	0.3	0.6	1.3	1.6	7.7	48.7
12	–	–	–	–	–	–	–	–	–	0.6	0.6	1.0	5.5	45.2
13	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	4.8	47.1
14	–	–	–	–	–	–	–	–	–	0.3	0.6	0.6	4.8	42.9
15	–	–	–	–	–	–	–	–	–	0.3	0.3	0.6	2.9	42.6
16	–	–	–	–	–	–	–	–	–	0.3	0.6	0.6	4.2	41.6
17	–	–	–	–	–	–	–	–	–	0.6	0.6	0.6	3.5	42.6
18	–	–	–	–	–	–	–	–	–	1.0	1.3	1.3	5.5	46.1
19	–	–	–	–	–	–	–	–	–	1.0	1.3	1.3	4.5	48.7
T 20	–	–	–	–	–	–	–	–	–	–	1.0	1.0	8.7	63.9
21	–	–	–	–	–	–	–	–	–	0.3	0.3	1.0	8.4	63.2
22	–	–	–	–	–	–	–	–	–	–	0.6	0.6	10.3	62.6
23	–	–	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.3	1.6	10.0	67.4
9om.	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	2.1	3.0	3.4	11.8	60.4

1B

$h_3 h_4$ in meters										N ≥ 5/8		
< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400
–	0.6	1.6	1.6	1.9	2.6	3.2	3.2	6.1	12.3	34.8
–	1.3	2.3	2.9	3.9	5.2	6.1	6.1	7.7	14.2	34.2
0.3	1.3	2.6	3.9	3.9	5.5	6.1	6.9	7.1	15.8	35.5
–	1.3	2.6	3.2	4.5	5.2	6.1	6.8	8.4	19.0	40.3
–	1.6	2.9	4.2	5.2	7.1	9.4	10.7	12.6	19.7	40.3
–	0.6	3.9	6.5	7.1	9.7	12.6	14.2	16.8	23.5	45.2
0.3	1.0	3.2	4.8	6.8	9.4	12.6	14.8	17.1	26.1	46.1
–	0.6	3.2	5.2	8.7	10.0	16.5	18.7	21.3	29.0	43.5
–	–	2.6	3.9	5.2	7.7	10.7	15.2	20.0	31.9	45.5
–	–	1.0	2.6	3.5	3.9	7.7	9.0	16.8	29.7	42.3
–	–	0.6	1.0	1.9	3.2	5.5	6.1	12.3	25.2	38.4
–	–	0.6	1.0	2.3	2.9	3.5	6.5	8.4	24.5	44.2
–	–	0.6	1.6	1.6	1.9	4.2	6.1	8.7	10.4	38.4
–	–	0.3	1.0	1.6	1.6	4.2	5.2	6.5	13.9	36.8
–	–	–	1.3	1.6	2.9	3.5	4.2	5.5	11.0	35.5
–	–	–	0.6	1.0	1.6	2.9	3.9	4.5	11.3	36.8
–	–	–	0.3	0.6	1.0	1.9	3.2	4.2	11.9	38.4
–	–	0.3	0.6	1.0	1.3	2.9	3.9	4.5	11.3	36.5
–	–	0.3	0.6	1.0	2.6	3.5	3.5	4.2	9.4	31.0
–	–	–	–	0.6	1.0	1.9	2.3	3.2	7.7	28.4
–	–	0.3	0.3	1.3	1.3	1.9	2.6	3.9	8.1	33.5
–	–	0.3	0.6	1.0	1.0	1.9	2.6	3.5	7.7	32.9
–	–	0.3	0.6	0.6	0.6	1.9	2.9	4.2	12.3	35.5
–	–	0.3	1.3	1.6	1.9	2.6	4.2	6.5	11.0	34.8
0,02	0.3	1.2	2.1	2.8	3.8	5.6	6.8	8.9	16.9	37.9

1C

$h_3 h_4$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000			
00	–	0.6	1.6	0.3	0.6	1.6	0.3	0.6	1.6	1.0	1.3	1.9	1.3	1.3	1.9	1.3	1.9	1.3	1.9	1.9	2.3	2.3	2.6	12.6	68.1			
01	0.6	1.3	2.3	0.6	1.3	2.3	1.3	1.9	2.9	1.6	1.9	2.9	1.9	2.3	2.9	2.3	2.9	2.6	2.9	3.2	3.5	3.2	3.5	16.8	72.3			
02	0.6	1.3	2.6	0.6	1.3	2.6	0.6	1.3	2.6	1.3	1.6	2.9	1.6	1.9	2.9	2.6	3.2	3.9	4.5	4.8	5.5	5.5	6.1	19.7	74.8			
L 03	1.0	1.9	3.2	1.9	2.3	3.5	2.3	2.6	3.9	2.3	2.6	3.9	2.3	2.6	3.9	3.5	4.8	5.2	6.1	7.1	7.7	8.7	9.0	22.3	74.2			
04	1.6	2.3	3.5	1.6	2.3	3.5	2.3	2.9	3.9	3.9	4.5	5.2	5.5	5.5	6.1	6.1	6.9	7.7	8.4	11.0	11.0	11.0	11.0	27.7	78.4			
05	1.0	1.3	4.5	1.3	1.6	4.8	2.3	2.6	5.2	3.5	3.5	5.8	4.5	4.5	6.5	5.8	7.4	8.4	9.0	10.0	10.7	11.3	11.9	30.3	76.5			
06	0.3	1.0	3.2	0.6	1.3	3.5	2.6	2.9	4.2	3.2	3.5	4.8	3.9	4.2	5.2	4.8	5.5	6.8	7.1	8.7	8.7	9.4	9.4	32.3	77.4			
07	–	0.6	3.2	1.0	1.3	3.5	1.6	1.6	3.5	1.9	1.9	3.9	2.3	2.3	4.2	2.6	4.2	3.9	5.2	7.1	7.1	8.1	8.1	20.7	76.5			
08	–	–	2.6	0.3	0.3	2.6	1.3	1.3	3.2	1.3	1.3	3.2	1.6	1.6	3.2	2.3	3.5	3.9	3.9	4.2	5.2	5.2	5.8	23.2	73.2			
09	–	–	1.0	–	–	1.0	–	–	1.0	–	–	1.0	–	–	1.0	–	1.0	1.0	1.0	1.9	2.3	2.9	2.9	13.9	63.2			
10	–	–	0.6	–	–	0.6	–	–	0.6	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.6	0.6	1.0	1.3	1.3	1.9	1.9	10.7	54.2			
11	–	–	0.6	–	–	0.6	–	–	0.6	–	–	0.6	–	–	0.6	0.3	0.6	0.6	1.0	1.3	1.6	1.6	1.9	9.7	48.7			
12	–	–	0.6	–	–	0.6	–	–	0.6	–	–	0.6	–	–	0.6	–	0.6	0.6	1.0	0.6	1.0	1.0	1.3	9.0	45.2			
13	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	0.3	0.6	0.3	0.6	0.3	0.6	7.4	47.4			
14	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.6	0.6	0.6	0.6	6.5	42.9			
15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	0.3	0.6	0.6	5.5	42.6			
16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.3	0.3	0.6	0.6	0.6	0.6	6.1	41.9			
17	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	0.6	0.6	0.6	0.6	0.6	0.6	6.1	42.9			
18	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	1.0	1.3	1.3	1.6	1.3	1.6	7.1	46.5			
19	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.0	1.0	1.3	1.3	1.3	1.3	5.5	50.0			
T 20	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	–	0.3	1.0	1.0	1.0	1.0	9.0	63.9			
21	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	0.3	0.3	0.3	0.3	1.0	1.0	9.4	63.2			
22	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	0.3	–	0.3	0.6	0.6	0.6	0.6	11.0	62.6			
23	–	–	0.3	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.3	0.6	0.3	0.6	0.3	0.6	1.3	1.6	1.6	1.9	11.3	67.7			
9om.	0.2	0.4	1.3	0.4	0.5	1.4	0.6	0.8	1.5	0.9	0.9	1.7	1.1	1.1	1.8	1.3	1.9	2.1	2.5	3.0	3.2	3.4	3.6	14.2	60.6			

augustus 1954 t/m 1968

1A

9mt	vv in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	0.3	0.3	0.6	0.6	1.0	1.0	1.3	1.6	1.9	2.9	4.5	5.8	15.5	68.7
01	1.3	1.3	1.6	1.6	1.6	2.3	2.9	3.5	3.5	4.2	6.5	8.7	19.7	68.4
02	1.3	1.3	1.6	1.9	2.3	2.3	2.3	3.2	3.9	5.5	8.4	9.7	21.9	67.4
03	1.0	2.3	2.3	2.6	2.9	3.2	3.2	4.2	5.2	7.1	9.4	10.0	24.8	68.4
⊥ 04	3.5	4.2	4.2	4.5	4.5	5.2	6.1	6.5	7.1	10.3	13.5	14.5	30.0	73.4
05	4.2	4.5	4.5	4.8	5.2	5.5	5.8	7.1	7.7	11.3	13.2	16.5	34.2	74.0
06	4.2	5.2	5.2	5.5	6.1	7.4	7.7	8.1	8.7	12.6	14.5	15.5	34.5	75.5
07	3.5	4.2	4.2	4.8	4.8	5.5	6.1	7.1	7.7	10.3	12.3	12.6	28.7	77.4
08	1.3	2.3	2.6	2.9	3.2	3.9	4.2	4.5	4.8	5.8	7.7	9.4	24.5	72.3
09	0.3	0.6	1.3	1.3	2.3	2.9	2.9	2.9	3.2	3.4	5.2	5.2	16.8	66.8
10	0.3	0.3	0.3	0.3	1.0	1.0	1.6	1.6	1.6	2.9	3.5	4.2	11.3	57.4
11	–	–	–	–	–	0.6	1.0	1.0	1.6	2.3	2.3	2.6	9.7	50.0
12	–	–	–	–	0.3	0.3	0.3	0.3	1.0	1.3	1.6	1.6	7.1	46.8
13	–	–	–	–	–	–	–	–	0.3	1.0	1.3	1.3	5.5	41.6
14	–	–	–	–	–	–	–	0.3	0.6	1.3	1.3	1.3	6.5	40.0
15	–	–	–	–	–	–	–	0.3	0.6	0.6	1.6	1.6	5.5	36.8
16	–	–	–	–	–	–	–	0.3	0.6	0.6	1.0	1.6	4.5	37.1
17	–	–	–	–	–	–	–	–	0.3	0.6	1.3	1.6	5.8	41.9
18	–	–	–	–	–	–	–	–	–	1.0	1.6	2.3	7.1	45.8
T 19	–	–	–	–	–	–	–	–	0.3	1.6	1.9	1.9	12.6	56.5
20	–	–	–	0.3	0.3	0.3	0.3	0.3	0.6	1.9	2.3	2.6	10.0	61.0
21	–	–	–	–	–	–	0.3	0.3	0.6	1.9	2.6	2.6	10.7	62.6
22	–	–	–	–	0.3	0.3	1.0	1.0	1.3	1.9	2.3	2.6	12.3	60.7
23	–	–	–	–	0.6	0.6	1.0	1.3	2.3	2.3	3.2	3.9	14.5	62.6
9em	0.9	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.7	4.0	5.2	5.8	15.6	58.9
h_5 h_5	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60
vv	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000
00	0.3	0.3	1.3	0.6	0.6	1.6	1.0	1.0	1.9	1.3	1.3	1.9	1.6	1.6
01	1.3	1.6	3.2	1.6	1.6	3.2	1.6	1.6	3.2	2.9	2.9	4.2	3.5	3.5
02	1.3	1.6	3.4	1.6	1.9	4.2	2.3	2.6	4.2	2.3	2.6	4.2	3.2	3.2
03	1.0	1.9	4.2	2.3	2.9	4.5	2.9	3.5	5.2	3.2	3.9	5.5	4.2	4.5
⊥ 04	3.5	4.5	5.8	4.2	4.8	6.1	4.5	5.2	6.1	6.1	6.8	7.7	6.5	6.8
05	4.2	4.5	6.1	4.5	4.5	6.1	5.2	5.2	6.5	5.8	5.8	7.1	7.1	7.1
06	4.2	4.8	6.4	5.2	5.5	6.4	6.1	6.5	9.0	7.7	8.1	9.4	8.1	8.4
07	4.5	4.5	6.1	4.2	4.8	6.1	4.8	5.2	6.1	6.1	6.5	6.8	7.1	7.1
08	1.3	2.3	4.8	2.6	2.9	4.8	3.2	3.5	4.8	4.2	4.2	5.2	4.5	4.5
09	0.3	1.3	3.2	1.3	1.6	3.2	2.3	2.6	3.5	2.9	2.9	3.4	2.9	2.9
10	0.3	0.6	2.3	0.3	0.6	2.3	1.0	1.3	2.3	1.6	1.9	2.6	1.6	1.9
11	–	0.3	1.9	–	0.3	1.9	–	0.3	1.9	1.0	1.0	2.3	1.0	1.0
12	–	–	1.0	–	–	1.0	0.3	0.3	1.0	0.3	0.3	1.0	0.3	0.3
13	–	–	1.0	–	–	1.0	–	–	1.0	–	–	1.0	–	–
14	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	0.3	0.3
15	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	0.3	0.3
16	–	–	1.0	–	–	1.0	–	–	1.0	–	–	1.0	0.3	0.3
17	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–
18	–	–	–	–	–	–	–	–	–	–	–	–	–	–
T 19	–	–	0.3	–	–	0.3	–	–	0.3	–	–	0.3	–	–
20	–	–	–	–	–	–	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
21	–	–	–	–	–	–	–	–	–	0.3	0.3	0.3	0.3	0.3
22	–	0.6	1.0	–	0.6	1.0	0.3	1.0	1.3	1.0	1.3	1.6	1.0	1.3
23	–	0.6	0.6	–	0.6	0.6	0.6	1.0	1.0	1.0	1.3	1.3	1.3	1.3
9em	0.9	1.2	2.4	1.2	1.4	2.4	1.5	1.7	2.6	2.0	2.1	2.9	2.3	2.3

1B

9mt	h_5 h_5 in meters										N & W			
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400			
00	0.3	0.3	1.3	2.6	3.5	4.5	5.8	6.5	8.4	14.5	34.5			
01	0.6	1.3	2.9	4.5	5.2	5.5	7.7	8.1	10.3	18.4	36.8			
02	0.6	1.3	3.5	4.5	5.2	6.5	8.7	9.7	12.9	20.0	39.0			
03	0.6	1.9	4.2	5.8	7.1	7.7	10.0	11.6	13.9	21.6	41.3			
⊥ 04	1.0	2.6	4.5	6.1	7.4	9.0	11.3	11.9	14.8	22.6	44.3			
05	1.3	3.5	5.5	7.7	8.4	11.0	11.9	13.5	17.1	24.2	43.9			
06	1.3	3.9	7.4	9.7	10.3	11.9	13.9	15.8	19.0	25.8	43.9			
07	1.0	4.2	5.8	8.1	10.0	11.0	13.2	16.5	21.3	28.7	41.3			
08	–	2.3	4.8	6.1	7.7	9.0	11.6	13.2	21.6	30.0	42.3			
09	–	1.3	3.2	3.5	4.8	5.5	8.1	10.0	17.7	31.0	41.6			
10	–	0.6	2.3	2.6	2.9	3.5	5.8	7.4	11.0	29.0	40.3			
11	–	0.3	1.9	2.6	3.2	3.5	4.2	5.2	7.4	22.6	36.8			
12	–	–	1.0	2.3	2.9	3.2	4.2	4.5	6.1	21.3	39.4			
13	–	–	1.0	1.3	1.6	2.3	2.6	3.2	6.1	17.4	36.1			
14	–	–	0.3	0.6	0.6	1.6	2.9	3.5	4.8	14.8	34.2			
15	–	–	0.3	1.0	1.0	1.3	2.6	2.9	4.8	9.7	31.3			
16	–	–	1.0	1.0	1.0	1.0	1.9	2.6	3.9	9.4	31.9			
17	–	–	0.3	0.6	0.6	0.9	1.6	2.3	2.6	10.0	26.8			
18	–	–	–	0.3	0.6	1.9	2.6	3.2	3.5	9.7	27.7			
T 19	–	–	0.3	1.0	2.3	2.6	2.9	3.2	4.8	9.7	26.8			
20	–	–	–	0.6	1.3	1.6	2.3	2.3	4.2	10.0	29.4			
21	–	–	–	1.3	1.3	1.9	2.6	2.6	4.5	10.3	30.6			
22	–	0.6	1.0	1.9	1.9	2.9	3.9	3.9	6.5	11.6	29.4			
23	–	0.6	0.6	1.6	2.6	2.6	4.5	4.8	6.1	12.6	34.8			
9em	0.3	1.0	2.2	3.2	3.9	4.7	6.1	7.0	9.7	18.1	35.9			
h_5 h_5	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300			
vv	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000			
00	2.3	1.9	2.6	2.9	3.5	4.5	4.8	5.8	6.1	17.1	68.7			
01	4.8	3.5	4.8	4.2	5.5	6.5	7.4	8.7	9.7	21.6	68.4			
02	4.5	3.9	4.8	5.5	6.5	8.4	9.0	9.7	10.0	24.2	67.4			
03	5.8	5.2	6.1	7.1	7.7	9.4	9.4	10.0	10.0	27.7	68.4			
⊥ 04	7.7	7.4	7.7	10.7	10.7	13.5	13.5	14.5	14.5	32.6	74.2			
05	8.1	7.7	8.1	11.3	11.3	15.2	15.2	16.5	16.5	36.5	75.5			
06	9.7	9.0	10.0	12.6	12.6	14.5	14.5	15.5	15.5	36.8	75.8			
07	7.4	7.7	8.1	10.3	10.3	12.3	12.3	12.6	12.6	32.3	77.7			
08	5.5	4.8	5.5	5.8	6.5	7.7	8.1	9.4	9.7	28.4	72.3			
09	3.9	3.2	4.2	3.4	4.5	5.2	5.5	5.2	5.5	20.3	66.8			
10	2.6	1.9	2.6	2.9	3.2	3.5	3.9	4.2	4.5	13.2	57.7			
11	2.3	1.6	2.3	2.3	2.9	2.3	2.9	2.6	2.9	10.3	50.0			
12	1.0	1.0	1.3	1.3	1.6	1.6	1.9	1.6	1.9	7.4	46.8			
13	1.0	0.3	1.0	1.0	1.3	1.3	1.6	1.3	1.6	6.1	41.9			
14	0.3	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3	7.1	40.0			
15	0.6	0.6	0.6	0.6	0.6	1.6	1.6	1.6	1.6	5.8	36.8			
16	1.0	0.6	1.0	0.6	1.0	1.0	1.0	1.6	1.6	4.8	37.1			
17	0.3	0.3	0.6	1.0	1.0	1.3	1.3	1.6	1.6	6.1	41.9			
18	–	–	–	1.0	1.0	1.6	1.6	2.3	2.3	8.1	45.8			
T 19	0.3	0.3	0.6	1.6	1.9	1.9	1.6	1.9	1.9	13.5	56.5			
20	0.3	0.6	0.6	1.9	1.9	2.3	2.3	2.6	2.6	10.7	61.3			
21	0.3	0.6	0.6	1.9	1.9	2.6	2.6	2.6	2.6	11.6	62.6			
22	1.6	1.3	1.6	1.9	2.3	2.3	2.6	2.6	2.9	13.5	60.7			
23	1.3	2.3	2.3	2.3	2.3	3.2	3.2	3.9	3.9	15.5	62.6			
9em	3.0	2.8	3.2	4.0	4.3	5.2	5.4	5.8	6.0	17.1	59.0			

1C

september 1959 t/m 1968

1A

9 mt	VV in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	1.3	1.3	1.3	2.3	3.3	3.7	4.7	5.0	5.0	7.0	8.0	9.3	22.7	73.7
01	2.0	2.7	3.0	3.0	4.0	4.0	5.3	5.7	5.7	7.3	10.0	11.3	25.3	75.3
02	3.0	3.7	4.3	4.3	4.7	5.3	5.3	5.3	6.0	8.3	11.7	12.7	27.0	75.0
03	3.3	3.7	4.0	4.3	4.7	4.7	5.7	6.3	6.7	10.0	13.3	14.7	27.3	76.7
04	4.3	5.0	5.3	5.7	6.7	7.0	7.0	8.3	8.7	11.3	12.7	14.3	30.0	77.7
⊥ 05	5.3	6.0	7.7	7.7	8.3	8.3	9.0	11.0	12.3	15.0	17.7	19.3	34.0	78.3
06	4.0	4.7	6.7	7.0	7.0	8.3	10.0	11.7	12.3	15.3	18.0	18.7	33.3	76.3
07	3.7	4.3	4.7	5.3	6.0	6.0	6.7	7.7	8.3	13.3	15.3	15.7	33.7	76.7
08	4.3	4.3	4.3	4.7	5.0	5.3	5.7	6.7	6.7	9.0	11.7	12.7	30.3	75.3
09	2.0	2.3	3.0	3.7	4.0	4.0	4.0	4.7	5.7	6.3	7.7	7.7	25.7	73.0
10	1.0	1.7	2.0	2.0	2.0	2.0	2.7	2.7	3.3	4.7	5.3	5.3	18.3	66.7
11	–	0.3	0.3	0.3	0.7	0.7	1.0	1.7	2.3	2.7	4.0	4.0	13.0	59.0
12	–	–	–	0.3	0.3	0.3	0.3	0.7	0.7	1.7	2.3	2.7	11.0	55.3
13	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.3	2.0	3.0	9.7	53.0
14	–	–	–	–	0.3	0.3	0.3	0.3	0.7	1.0	2.3	2.3	8.7	48.3
15	–	–	–	–	–	–	–	–	0.3	1.0	1.7	2.0	9.0	47.0
16	–	–	–	–	–	–	–	–	–	1.0	1.7	2.0	10.0	49.3
17	–	–	–	–	–	–	–	0.3	0.7	1.7	2.7	3.0	12.0	57.3
T 18	–	–	–	–	0.3	0.3	0.3	0.7	1.3	2.7	4.0	4.3	14.3	64.0
19	–	–	–	–	–	–	–	0.3	0.7	2.0	4.0	5.0	18.3	67.7
20	–	–	–	–	–	–	–	0.7	0.7	3.0	3.7	4.3	17.7	66.7
21	–	–	–	–	0.3	0.7	0.7	1.0	1.3	3.0	4.0	4.3	18.0	66.3
22	0.7	0.7	0.7	1.0	1.3	1.3	1.7	2.0	2.3	3.3	5.0	6.0	22.0	66.3
23	1.0	1.0	1.0	1.3	1.3	2.3	2.3	2.3	2.3	5.0	5.0	6.3	20.0	70.7
9pm.	1.5	1.8	2.0	2.2	2.5	2.7	3.0	3.6	4.0	5.7	7.2	8.0	20.5	66.5
$h_s h_s$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000

1B

	$h_s h_s$ in meters													
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400	N ≥ 5/8		
00	0.3	2.0	2.7	2.7	3.7	3.7	5.7	5.7	8.3	14.7	32.3			
01	0.7	1.3	2.7	3.7	4.7	5.7	7.0	7.7	10.0	16.7	31.0			
02	0.7	2.3	3.3	4.3	5.0	5.3	6.7	8.7	11.3	19.3	33.3			
03	1.0	2.7	4.7	5.3	5.3	6.3	8.7	10.0	13.0	21.7	35.0			
04	2.0	3.3	6.0	6.0	7.0	7.7	10.3	11.3	14.7	23.3	39.0			
⊥ 05	1.3	3.7	6.0	6.7	7.7	8.0	11.0	12.7	15.0	24.7	38.0			
06	2.0	3.7	5.3	7.0	7.0	9.0	12.0	13.3	15.3	23.3	36.3			
07	1.7	3.3	6.3	7.7	9.7	11.7	14.0	15.3	17.7	22.7	35.7			
08	1.0	3.0	5.0	6.3	8.0	9.0	13.3	15.0	17.7	25.3	40.0			
09	0.7	2.3	4.3	6.3	8.0	8.7	10.7	12.7	17.3	26.7	37.0			
10	–	2.0	2.7	4.3	6.0	6.3	8.3	9.3	12.7	24.3	36.0			
11	–	–	1.7	2.0	2.0	2.7	5.0	5.3	8.3	20.0	35.3			
12	–	–	0.3	1.7	1.7	2.3	3.7	4.0	7.3	16.0	31.0			
13	–	–	0.7	0.7	1.0	2.0	3.3	4.0	6.0	15.0	30.7			
14	–	–	0.7	1.0	1.3	2.3	2.7	4.3	5.0	11.7	27.7			
15	–	–	0.3	1.0	1.3	1.7	3.0	4.7	5.7	11.7	30.3			
16	–	–	0.3	0.7	1.7	2.3	2.7	2.7	5.0	10.7	29.0			
17	–	–	0.7	1.0	2.3	3.3	3.3	4.3	5.0	9.7	26.0			
T 18	–	–	1.3	2.0	2.3	2.7	3.3	4.0	4.7	9.7	27.0			
19	–	–	–	0.7	1.3	1.7	2.3	2.7	5.0	12.3	28.3			
20	–	–	–	0.7	1.0	1.3	2.0	2.7	4.3	9.7	28.0			
21	–	–	0.7	1.0	1.0	1.3	2.0	2.3	3.7	10.3	27.3			
22	–	0.7	1.0	2.0	2.0	2.3	3.7	4.3	6.0	10.3	28.7			
23	–	0.7	1.0	1.3	2.0	2.7	4.0	5.3	7.0	11.7	28.3			
9pm.	0.5	1.3	2.4	3.1	3.9	4.6	6.2	7.2	9.4	16.6	32.1			
$h_s h_s$	< 60	< 90	< 30	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300			
VV	< 1200	< 1200	< 1600	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000			
00	5.7	5.3	5.7	7.0	7.3	8.0	8.3	9.3	9.7	23.7	73.7			
01	6.3	5.7	6.3	7.3	7.7	10.0	10.0	11.3	11.3	27.0	75.3			
02	6.0	6.0	6.7	8.3	9.0	11.7	12.0	12.7	13.0	28.7	75.0			
03	7.3	6.7	7.7	10.0	10.7	13.3	13.7	14.7	15.0	30.0	77.0			
04	8.7	8.7	9.0	11.3	11.3	12.7	12.7	14.3	14.3	31.7	77.7			
⊥ 05	11.3	12.3	12.7	15.0	15.0	17.7	17.7	19.3	19.3	36.7	78.3			
06	11.7	12.3	12.3	15.3	15.3	18.0	18.0	18.7	18.7	37.0	76.3			
07	9.0	8.3	9.7	13.3	13.7	15.3	15.3	15.7	15.7	37.7	77.0			
08	7.3	6.7	7.3	9.0	9.0	11.7	11.7	12.7	12.7	34.7	76.3			
09	5.3	5.7	6.0	6.3	6.3	7.7	7.7	7.7	7.7	29.0	73.0			
10	3.0	3.3	3.3	4.7	4.7	5.3	5.3	5.3	5.3	20.7	66.7			
11	2.0	2.3	2.3	2.7	2.7	4.0	4.0	4.0	4.0	13.7	59.0			
12	0.7	0.7	0.7	1.7	1.7	2.3	2.3	2.7	2.7	12.7	55.3			
13	0.7	1.0	1.0	1.3	1.3	2.0	2.0	3.0	3.0	11.0	53.0			
14	1.0	0.7	1.3	1.0	1.3	2.3	2.7	2.3	2.7	10.3	48.7			
15	0.3	0.3	0.7	1.0	1.0	1.7	1.7	2.0	2.0	11.0	47.3			
16	0.3	–	0.3	1.0	1.0	1.7	1.7	2.0	2.0	10.0	49.3			
17	1.0	0.7	1.0	1.7	1.7	2.7	2.7	3.0	3.0	12.7	57.3			
T 18	1.3	1.3	2.0	2.7	3.3	4.0	4.0	4.3	4.3	15.0	64.0			
19	0.3	0.7	0.7	2.0	2.0	4.0	4.0	5.0	5.0	18.7	67.7			
20	0.7	0.7	0.7	3.0	3.0	3.7	3.7	4.3	4.3	18.7	66.7			
21	1.7	1.3	1.7	3.0	3.3	4.0	4.3	4.3	4.7	19.0	66.3			
22	2.3	2.3	2.7	3.3	3.7	5.0	5.0	6.0	6.0	23.0	66.7			
23	2.7	2.3	2.7	5.0	5.0	5.0	5.0	6.3	6.3	22.7	71.0			
9am	4.0	4.0	4.4	5.7	5.9	7.2	7.3	8.0	8.0	22.3	66.5			

1C

oktober 1959 t/m 1968

1A

gmt	VV in meters														
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000	
00	4.2	4.8	5.8	6.1	6.1	6.8	7.4	8.1	9.0	10.7	12.3	12.9	29.0	73.9	
01	3.4	6.1	6.5	6.8	7.4	7.4	7.7	8.7	8.7	11.6	12.9	13.5	31.6	74.2	
02	4.5	5.2	5.5	6.8	7.7	7.7	8.1	9.4	11.0	12.9	13.9	14.2	31.9	73.2	
03	5.5	6.5	6.8	8.1	8.7	9.4	10.0	11.0	11.9	14.2	16.5	17.7	34.8	73.5	
04	5.8	7.7	8.1	8.1	9.7	9.7	10.0	10.7	11.3	15.2	18.1	18.7	34.8	71.6	
05	6.8	7.7	8.4	9.4	10.7	10.7	11.3	11.3	12.9	16.5	21.0	21.3	36.1	72.6	
06	7.7	8.4	9.0	10.3	11.3	11.6	12.3	13.9	15.2	19.0	21.9	22.9	36.1	71.0	
07	6.8	8.1	8.1	8.4	9.0	9.4	11.3	13.2	15.2	18.7	21.6	22.9	36.8	71.3	
08	4.2	6.1	6.8	7.1	8.1	8.4	8.4	10.3	11.6	16.5	21.0	22.6	36.8	72.6	
09	2.3	4.2	4.8	5.5	6.5	7.1	7.4	8.1	9.4	12.3	14.8	15.8	33.2	70.6	
10	1.6	2.3	3.2	3.9	4.2	4.8	5.5	6.1	8.4	10.3	12.3	13.9	28.1	66.5	
11	1.9	2.6	2.6	3.2	3.9	4.2	4.2	4.5	5.5	7.1	9.4	10.0	22.3	59.0	
12	1.6	2.3	2.9	2.9	3.2	3.2	3.2	3.9	5.8	6.1	7.7	9.0	18.1	59.0	
13	1.0	1.9	2.3	2.3	2.9	2.9	2.9	2.9	4.5	5.5	7.1	7.1	16.5	55.2	
14	0.6	1.0	1.6	2.6	2.9	3.5	3.5	3.5	3.5	5.2	5.8	6.5	16.8	56.8	
15	1.6	1.9	2.3	2.3	2.6	2.6	2.9	3.4	4.5	5.2	5.8	5.8	16.1	57.1	
16	1.6	2.3	2.6	2.9	2.9	3.5	3.9	3.9	4.2	5.2	5.5	5.5	16.5	60.0	
17	1.6	2.3	2.6	2.9	3.2	3.2	3.2	3.9	4.8	6.1	7.7	9.4	19.0	69.0	
18	1.6	1.9	1.9	1.9	2.9	2.9	3.2	4.2	4.2	7.1	8.1	9.0	22.3	71.6	
19	1.6	2.3	2.3	2.9	3.5	3.9	4.2	5.2	5.5	7.1	8.4	8.4	24.5	71.9	
20	2.3	2.6	2.6	2.9	4.2	4.5	5.5	5.8	5.8	8.4	9.4	9.7	24.8	73.5	
21	2.3	2.6	2.6	2.9	4.2	4.5	5.2	5.8	6.8	8.7	9.7	10.7	25.8	73.5	
22	3.2	3.5	3.9	4.2	4.8	4.8	5.2	6.5	7.7	9.4	11.3	11.9	26.1	73.5	
23	2.6	3.5	3.5	4.5	5.5	5.8	6.8	7.1	8.1	10.0	11.0	11.3	28.1	73.5	
9em	3.2	4.1	4.4	5.0	5.7	5.9	6.4	7.2	8.1	10.4	12.2	12.9	27.0	685	
$h_3\,h_3$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90
VV	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000
00	4.2	5.2	7.1	5.8	6.1	7.7	6.1	6.5	8.1	7.4	7.4	8.4	8.1	8.1	9.0
01	4.2	5.5	6.8	6.5	6.8	7.7	7.4	7.7	8.7	7.7	7.7	8.7	8.7	8.7	9.4
02	5.2	6.5	7.7	6.1	7.1	8.1	8.1	8.1	8.7	8.1	8.1	8.7	9.4	9.4	10.0
03	6.5	7.4	10.0	7.7	8.4	10.3	9.4	9.7	11.3	10.0	10.3	11.3	11.0	11.3	12.3
04	6.1	7.1	10.0	8.1	8.7	11.3	9.7	10.0	11.9	10.0	10.3	12.3	10.7	10.7	12.6
05	7.1	7.7	10.3	8.4	9.0	11.6	10.7	11.0	12.6	11.3	11.6	12.9	11.3	11.6	12.9
06	7.7	9.0	11.9	9.0	9.7	12.6	11.3	11.9	14.2	12.3	12.9	14.8	13.9	14.5	16.1
07	6.8	8.4	11.3	8.1	9.0	11.9	9.0	10.0	12.6	11.3	11.6	13.9	13.2	13.5	15.2
08	4.5	7.4	10.3	6.8	8.1	10.3	8.1	9.0	11.3	8.4	9.4	11.6	10.3	10.7	12.3
09	2.3	4.8	7.1	4.8	5.8	7.7	6.5	6.8	8.4	7.4	7.4	8.4	8.1	8.1	9.0
10	1.6	3.9	7.1	3.2	4.2	7.1	4.2	4.8	7.7	6.5	5.5	7.7	6.1	6.1	7.7
11	1.9	3.5	5.2	2.6	3.5	5.2	3.9	4.2	5.2	4.2	4.2	5.2	4.5	4.5	5.5
12	1.9	2.9	4.5	2.9	3.2	4.5	3.2	3.2	4.5	3.2	3.2	4.5	3.9	3.9	4.5
13	1.3	2.3	3.9	2.3	2.6	3.9	2.9	3.2	3.9	2.8	3.2	3.9	2.9	3.2	3.9
14	1.0	2.9	4.2	1.6	2.9	4.2	2.9	3.2	4.2	3.5	3.9	4.5	3.5	3.9	4.5
15	1.6	2.6	3.9	2.3	2.6	3.9	2.6	2.6	3.9	2.9	2.9	4.2	3.9	3.9	4.5
16	1.6	2.6	3.5	2.6	2.9	3.9	2.9	3.2	3.9	3.4	3.9	3.9	3.9	3.9	4.2
17	1.9	3.2	3.9	2.9	3.2	3.9	3.5	3.5	4.2	3.5	3.5	4.2	3.9	3.9	4.2
18	1.6	2.9	3.5	1.9	2.9	3.5	2.9	3.2	3.9	3.2	3.2	3.9	4.2	4.2	4.5
19	1.6	3.5	4.5	2.3	3.5	4.5	3.5	4.2	5.2	4.2	4.2	5.2	5.2	5.2	5.8
20	2.6	4.2	5.5	2.9	4.2	5.5	4.5	4.5	5.5	5.5	5.5	6.1	5.8	5.8	6.1
21	2.6	4.2	5.2	2.9	4.2	5.2	4.2	4.8	5.8	5.2	5.5	6.5	5.8	5.8	6.8
22	3.2	4.5	5.8	3.9	4.8	5.5	4.8	5.5	6.1	5.2	5.8	6.5	6.5	6.5	6.8
23	2.9	4.8	6.5	3.9	5.2	6.8	5.0	6.5	7.7	6.8	7.1	8.1	7.1	7.1	8.1
9em	3.4	4.9	6.6	4.6	5.4	7.0	5.8	6.1	7.5	6.4	6.6	7.7	7.2	7.3	8.2

1B

	$h_3\,h_3$ in meters									N	S/B	
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400	
00	2.9	4.2	6.5	7.7	8.1	8.7	9.7	11.9	15.8	24.5	38.7	
01	2.9	5.2	6.5	6.5	7.1	8.4	10.3	11.3	14.8	24.8	39.7	
02	3.5	5.2	6.5	7.4	8.4	10.0	11.3	11.6	16.1	26.1	43.5	
03	3.9	5.8	8.4	10.0	11.0	11.9	13.2	14.8	17.1	28.1	45.5	
04	3.9	5.8	8.7	9.7	10.7	11.9	14.5	15.8	18.7	30.0	43.2	
05	3.9	5.8	8.7	11.3	12.3	12.9	15.8	17.1	19.0	31.0	45.2	
06	3.5	5.8	9.0	11.6	12.6	13.2	15.8	18.4	21.0	29.4	41.6	
07	3.5	6.1	9.0	11.6	11.6	12.3	15.2	16.8	19.0	28.4	40.6	
08	1.3	6.5	9.4	10.7	12.9	13.5	16.1	18.7	21.6	29.4	43.5	
09	0.6	4.8	7.1	9.0	10.3	12.6	15.5	17.1	21.9	29.7	40.6	
10	0.3	3.5	6.8	8.1	9.4	10.7	14.2	15.8	21.9	31.9	43.2	
11	0.6	3.2	4.8	5.5	6.1	6.8	10.0	11.6	16.5	29.7	40.6	
12	0.6	2.9	4.5	5.5	5.8	6.5	8.7	10.0	13.9	25.5	36.8	
13	0.3	2.3	3.9	4.5	5.2	6.5	7.4	8.7	11.0	21.0	36.1	
14	0.6	2.9	4.2	4.8	5.8	6.5	7.7	8.7	11.9	23.9	36.8	
15	0.3	2.6	3.9	4.5	5.5	6.5	7.1	8.7	11.6	18.1	34.5	
16	1.0	2.6	3.5	3.9	4.5	5.2	7.7	8.1	10.3	18.7	34.5	
17	0.6	3.2	3.9	4.5	5.5	6.1	7.4	8.7	10.3	18.7	38.1	
18	1.0	2.9	3.5	4.5	4.8	6.1	6.8	7.4	10.0	19.7	36.5	
19	1.0	3.5	4.5	5.2	5.8	6.8	8.4	9.4	13.2	20.0	37.7	
20	1.3	3.9	5.2	5.2	5.2	6.8	8.1	8.1	11.0	20.3	38.1	
21	1.6	3.9	4.8	5.2	5.5	6.5	7.7	9.7	11.9	20.6	37.1	
22	1.9	3.9	4.8	5.2	6.5	7.4	7.7	8.4	11.3	21.0	38.1	
23	1.9	4.5	6.1	7.1	8.1	8.4	10.0	11.0	14.5	23.5	38.1	
9em	1.8	4.2	6.0	7.0	7.9	8.8	10.7	12.0	15.2	24.8	39.5	
$h_3\,h_3$	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300		
VV	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000		
00	9.0	9.4	10.7	11.0	12.3	12.3	12.9	12.9	31.6	74.2		
01	9.0	9.4	11.6	11.6	12.9	12.9	13.5	13.5	32.9	74.5		
02	10.0	11.0	11.3	12.9	12.9	13.8	13.4	14.2	34.5	73.2		
03	12.3	11.9	12.9	14.2	15.2	16.5	16.8	17.7	17.7	37.1	73.9	
04	12.6	11.3	13.2	15.2	16.1	18.1	18.1	18.7	18.7	38.1	71.9	
05	12.9	12.9	14.2	16.5	17.1	21.0	21.0	21.3	21.3	39.0	72.9	
06	16.1	15.5	16.8	19.0	19.7	21.9	22.3	22.9	22.9	40.3	71.3	
07	15.2	15.2	16.5	18.7	19.4	21.6	21.9	22.9	23.2	39.4	71.3	
08	12.3	11.9	13.2	16.5	17.1	21.0	21.0	22.6	22.6	39.4	72.9	
09	9.0	9.4	10.0	12.3	12.3	14.8	14.8	15.8	15.8	35.2	71.0	
10	7.7	8.4	8.7	10.3	10.7	12.3	12.3	13.9	13.9	31.3	66.8	
11	5.5	5.5	6.1	7.1	7.1	9.4	9.4	10.0	10.0	26.1	59.4	
12	4.5	5.8	6.5	6.1	6.5	7.7	8.1	9.0	9.4	20.3	59.0	
13	3.9	4.5	4.8	5.5	5.8	7.1	7.4	7.1	7.4	18.7	55.2	
14	4.5	3.9	4.5	5.2	5.5	5.8	6.1	6.5	6.5	18.4	56.8	
15	4.5	4.5	4.8	5.2	5.5	5.8	6.1	5.8	6.1	17.7	57.1	
16	3.9	4.2	4.2	5.2	5.2	5.5	5.5	5.5	5.5	18.4	60.0	
17	4.2	4.8	4.8	6.1	6.1	7.7	7.7	9.4	9.4	20.6	69.0	
18	4.5	4.2	4.5	7.1	7.1	8.1	8.1	9.0	9.0	23.2	71.6	
19	5.8	5.5	6.1	7.1	7.7	8.4	8.7	8.4	8.7	27.1	71.9	
20	6.1	5.8	6.1	8.4	8.7	9.4	9.4	9.7	9.7	25.8	73.5	
21	6.8	6.8	7.4	8.7	9.0	9.7	10.0	10.7	11.0	27.4	73.5	
22	6.8	7.7	8.1	9.4	9.7	11.3	11.6	11.9	12.3	27.1	73.5	
23	8.1	8.1	9.0	10.0	10.3	11.0	11.3	11.3	11.6	29.4	73.5	
9em	8.2	8.2	8.9	10.4	10.7	12.2	12.4	12.9	13.1	29.1	68.7	

1C

november 1959 t/m 1968

1A

gmt	vv in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 10000
00	4.3	6.0	6.3	6.3	6.7	6.7	7.7	9.0	10.0	14.7	18.7	20.3	37.0	74.7
01	5.3	6.3	7.7	7.7	8.7	9.3	9.3	11.0	13.0	17.3	21.0	22.7	38.0	75.7
02	5.0	5.7	6.3	7.0	7.7	8.7	9.3	10.3	11.3	16.7	19.0	21.7	35.3	75.7
03	4.7	5.3	5.7	6.3	7.0	8.0	8.0	10.3	11.7	16.0	20.0	21.0	37.0	73.3
04	5.0	6.3	7.7	9.0	10.0	10.7	10.7	11.3	12.3	16.3	18.7	21.0	35.0	74.3
05	4.3	6.7	8.3	9.7	10.0	10.0	10.0	11.0	11.7	15.7	20.0	20.7	35.7	75.7
06	4.0	6.7	7.7	8.0	8.7	9.7	10.0	10.0	11.3	14.7	18.7	20.0	35.3	77.0
07	4.7	6.0	6.3	6.7	7.7	8.7	9.7	10.3	12.0	16.7	19.7	21.3	40.0	78.0
08	4.0	5.3	7.0	7.3	7.7	8.3	9.0	10.7	12.7	17.0	19.7	22.7	40.0	77.3
09	3.0	3.7	3.7	4.3	6.7	7.7	8.0	8.3	9.3	15.3	20.7	21.0	41.7	76.3
10	2.0	2.3	3.0	3.3	4.3	4.7	5.7	7.3	10.0	14.3	17.7	19.0	37.7	75.3
11	2.3	3.0	3.3	3.7	3.7	4.7	4.7	6.0	8.3	11.7	14.3	15.3	34.7	74.7
12	1.3	2.0	2.3	2.7	3.0	4.7	5.3	6.0	7.0	9.3	12.7	14.0	32.3	70.7
13	1.3	1.3	1.3	1.7	1.7	2.3	3.7	4.7	5.7	8.3	11.0	13.0	32.0	70.0
14	1.7	1.7	1.7	2.0	2.0	2.0	2.7	3.7	3.7	6.7	10.3	12.3	32.0	69.3
15	2.0	2.3	2.7	2.7	2.7	3.0	3.0	4.3	5.0	10.0	12.7	13.3	33.3	67.7
16	2.7	2.7	2.7	2.7	3.0	3.7	4.7	5.7	6.7	11.7	13.3	15.0	35.3	72.7
17	2.7	2.7	2.7	2.7	2.7	3.7	3.7	5.3	7.0	11.7	15.7	17.0	34.3	76.0
18	2.3	2.3	2.7	3.3	3.3	3.3	4.0	6.7	8.3	12.3	15.3	16.7	33.3	76.7
19	3.3	4.0	4.3	4.7	5.0	5.7	6.3	7.0	8.7	12.7	17.3	18.7	34.3	76.3
20	3.3	3.7	5.3	5.7	6.0	6.7	6.7	7.3	8.0	13.0	17.7	18.7	34.3	76.3
21	3.7	4.3	5.3	6.0	6.0	6.3	6.7	9.0	9.7	14.3	17.3	20.3	36.7	75.7
22	3.0	3.7	4.0	4.7	6.0	6.3	7.7	9.3	9.7	14.0	17.7	20.0	37.0	75.0
23	3.7	4.7	5.3	6.3	7.0	7.3	7.3	8.7	9.0	12.0	18.7	21.0	35.0	74.7
gem.	3.3	4.1	4.7	5.2	5.7	6.3	6.8	8.0	9.2	13.4	17.0	18.6	35.9	74.5
h_3h_3	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60
vv	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000
00	4.7	6.0	10.0	6.7	7.0	10.3	7.0	7.0	10.3	7.7	7.7	11.0	9.0	9.0
01	6.3	7.0	13.3	8.0	8.7	14.3	8.7	9.0	14.3	9.3	9.3	14.3	11.0	11.3
02	5.3	7.3	13.0	6.7	8.0	13.0	7.7	9.0	14.0	9.3	9.3	13.7	10.3	10.7
03	4.7	7.0	13.3	5.7	7.3	13.3	7.0	8.0	13.3	8.0	9.0	13.7	10.3	10.7
04	5.3	7.3	12.7	7.7	8.7	13.7	10.0	10.7	14.3	10.7	11.3	14.3	11.3	11.7
05	4.7	7.3	12.0	8.3	9.0	12.7	10.0	10.3	13.0	10.0	10.3	13.0	11.0	11.3
06	4.3	7.7	11.3	7.7	9.0	11.7	8.7	9.3	11.7	10.0	10.3	12.3	10.0	10.3
07	5.0	7.3	10.7	6.3	7.3	10.7	7.7	8.0	11.3	9.7	9.7	12.7	10.3	10.3
08	4.3	6.7	11.0	7.0	7.3	11.3	7.7	7.7	11.3	9.0	9.0	11.3	10.7	10.7
09	3.3	4.7	9.7	3.7	5.0	9.7	6.7	6.7	10.7	8.0	8.0	11.0	8.3	8.3
10	2.0	3.0	7.7	3.0	3.3	7.7	4.3	4.7	8.0	5.7	6.0	8.7	7.3	7.3
11	2.3	3.0	5.3	3.3	3.3	5.3	3.7	3.7	5.3	4.7	4.7	6.0	6.0	6.0
12	1.3	2.3	3.7	2.3	3.0	6.0	3.0	3.7	6.0	5.3	5.3	6.7	6.0	6.0
13	1.3	2.0	5.3	1.3	2.0	5.3	1.7	2.3	5.3	3.7	3.7	5.7	4.7	4.7
14	1.7	2.0	3.7	1.7	2.0	3.7	2.0	2.0	3.7	2.7	2.7	3.7	3.7	3.7
15	2.0	2.7	3.7	2.7	2.7	3.7	2.7	2.7	3.7	3.0	3.0	3.7	4.3	4.3
16	2.7	3.0	3.7	2.7	3.0	3.7	3.0	3.0	3.7	4.7	4.7	4.7	5.7	5.7
17	2.7	3.0	4.0	2.7	3.0	4.0	3.7	3.0	4.0	3.7	4.0	4.3	5.3	5.7
18	2.3	3.0	4.0	2.7	3.3	4.3	3.3	3.7	4.3	4.0	4.0	4.7	6.7	6.7
19	3.3	4.0	5.3	4.3	4.3	5.7	5.0	5.0	6.0	6.3	6.3	7.0	7.0	7.0
20	3.3	4.7	6.0	5.3	5.3	6.0	6.0	6.0	6.7	6.7	6.7	7.0	7.3	7.3
21	3.7	5.0	7.3	5.3	6.0	8.0	6.0	6.3	8.0	6.7	7.0	8.7	9.0	9.0
22	3.0	4.7	7.3	4.0	5.3	7.3	5.0	6.3	7.7	7.7	8.0	8.7	9.3	9.3
23	3.7	5.0	9.3	5.3	5.7	9.7	7.0	7.0	9.7	7.3	7.3	10.0	8.7	8.7
gem	3.5	4.8	8.1	4.8	5.4	8.4	5.7	6.0	8.6	6.8	7.0	9.0	8.0	8.1

1B

gmt	h_3h_3 in meters													
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400			
00	3.0	5.7	10.0	12.3	13.7	16.3	19.3	20.7	24.7	37.3	55.7			
01	3.7	6.3	13.0	14.0	15.7	16.7	20.0	21.0	27.7	35.7	54.3			
02	2.7	6.0	12.3	14.3	15.3	17.0	19.0	20.0	24.0	35.7	54.7			
03	2.0	5.7	12.7	14.7	16.7	17.7	19.7	21.0	26.0	36.7	57.0			
04	2.3	6.3	12.0	15.0	17.0	18.0	19.3	21.7	24.7	39.3	56.3			
05	2.0	6.3	11.0	13.3	15.3	17.7	19.7	22.3	29.0	37.3	54.0			
06	2.7	7.3	11.0	13.7	15.3	17.3	19.3	22.3	30.7	41.0	58.3			
07	2.3	7.3	10.7	12.3	15.0	19.0	22.0	24.7	31.7	40.3	55.0			
08	1.7	6.3	10.7	12.0	14.7	19.0	22.3	25.0	29.7	39.0	55.0			
09	1.3	4.7	9.7	12.7	14.3	18.0	21.3	25.0	30.3	38.7	52.0			
10	0.7	2.7	7.7	10.0	13.3	16.0	19.3	23.3	30.0	38.3	48.7			
11	–	2.3	4.7	7.0	11.0	14.0	18.7	22.0	27.3	37.3	47.7			
12	0.3	2.0	5.3	7.7	10.0	12.7	18.3	20.3	24.7	40.0	58.3			
13	0.3	1.7	5.0	8.0	9.0	11.7	16.3	20.0	23.7	39.7	51.0			
14	–	1.0	3.0	5.3	7.3	11.0	15.3	19.3	23.3	34.7	49.3			
15	–	2.0	3.0	5.3	7.3	11.0	16.3	19.0	22.7	34.7	50.0			
16	1.0	2.3	3.3	5.0	7.3	11.0	15.0	17.7	23.7	37.0	52.3			
17	1.0	2.7	3.7	6.3	8.3	11.7	14.7	17.3	20.7	36.0	54.3			
18	1.0	3.0	4.0	6.3	8.3	10.7	13.3	16.3	22.7	36.3	55.0			
19	1.3	3.7	5.0	7.0	8.7	11.0	15.0	17.3	23.0	37.7	56.0			
20	1.3	4.3	5.7	8.0	9.7	12.0	15.3	17.7	23.0	37.0	56.7			
21	1.3	4.3	6.7	10.3	11.0	13.3	16.3	17.7	22.3	36.7	55.3			
22	1.0	4.7	7.3	10.7	12.0	14.3	16.7	17.7	23.0	35.7	57.7			
23	2.3	5.0	9.3	11.7	14.0	17.3	20.7	21.7	27.7	39.0	57.7			
gem.	1.5	4.3	7.8	10.1	12.1	14.8	18.0	20.5	25.8	37.6	53.4			
h_3h_3	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 60	< 90	< 300	< 300
vv	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 4800	< 16000				
00	11.7	10.0	12.3	14.7	15.7	18.7	19.3	20.3	21.0	39.7	75.3				
01	14.3	12.3	15.0	17.7	18.7	21.3	21.7	23.0	23.0	41.0	75.7				
02	14.3	11.7	14.3	17.0	18.3	19.3	20.0	22.0	22.7	37.7	75.7				
03	14.3	12.0	15.3	16.3	18.3	20.3	21.3	21.3	22.3	39.7	73.7				
04	14.3	12.7	15.0	16.7	18.3	19.0	20.3	21.0	21.7	37.7	75.0				
05	13.3	11.7	13.7	15.7	16.3	20.0	20.0	20.7	20.7	38.3	76.0				
06	12.3	11.3	13.0	14.7	15.3	18.7	18.7	20.0	20.0	38.0	77.0				
07	12.7	12.0	13.7	14.7	17.3	19.7	20.0	21.3	21.7	43.3	78.0				
08	12.0	12.7	13.3	17.0	17.0	19.7	19.7	22.7	22.7	44.7	77.3				
09	11.0	9.3	12.0	15.3	16.7	20.7	21.3	21.0	21.7	46.0	77.0				
10	9.7	10.0	11.0	14.3	14.7	17.7	18.0	19.0	19.0	43.3	75.3				
11	7.0	8.3	9.0	11.7	12.0	14.3	14.7	15.3	15.3	39.7	74.7				
12	7.3	7.0	8.3	9.3	10.3	12.7	13.3	14.0	14.7	36.0	71.0				
13	6.3	5.7	6.3	8.3	9.0	11.0	11.7	13.0	13.0	35.3	70.3				
14	4.3	3.7	4.3	6.7	7.0	10.3	10.7	12.3	12.7	35.3	69.7				
15	5.0	5.0	5.7	10.0	10.0	12.7	12.7	13.3	13.3	36.7	67.7				
16	5.7	6.7	6.7	11.7	11.7	13.3	13.3	15.0	15.0	38.7	72.7				
17	6.0	7.3	7.7	11.7	11.7	15.7	15.7	17.0	17.0	38.3	76.0				
18	7.3	8.3	9.0	12.3	12.3	15.3	15.3	16.7	16.7	36.7	76.7				
19	7.7	8.7	9.3	12.7	13.0	17.3	17.7	18.7	19.0	37.7	76.7				
20	7.7	8.0	8.3	13.0	13.0	17.7	17.7	18.7	18.7	40.0	77.3				
21	9.7	10.0	9.0	14.3	14.3	17.3	17.3	20.3	20.3	39.3	76.3				
22	9.3	9.7	9.3	14.0	14.0	17.7	17.7	20.0	20.0	39.0	76.0				
23	10.7	9.0	11.0	12.0	13.3	18.7	19.0	21.0	21.3	37.7	75.3				
gem	9.7	9.3	10.6	13.5	14.1	17.0	17.4	18.6	18.9	39.2	74.8				

1C

december 1959 t/m 1968

1A

gmt	vv in meters													
	< 200	< 300	< 400	< 500	< 600	< 700	< 800	< 1000	< 1200	< 1600	< 2100	< 2500	< 4800	< 16000
00	4.2	4.2	6.1	7.1	8.1	8.1	9.4	10.7	11.6	14.8	19.0	21.0	43.4	81.0
01	5.2	5.2	5.8	6.5	7.4	8.4	9.0	9.7	11.3	15.2	18.7	21.0	43.2	81.3
02	4.8	5.5	6.1	7.1	8.1	9.0	9.4	9.7	11.0	15.5	18.4	21.9	40.3	80.3
03	4.2	5.2	6.1	6.8	8.1	9.0	10.0	10.7	11.6	16.8	18.7	22.3	39.4	79.0
04	3.5	5.5	6.5	7.4	7.7	8.1	9.0	9.7	11.3	15.2	20.3	22.6	39.4	79.4
05	3.5	5.5	6.1	7.4	7.7	8.7	9.0	11.0	12.9	16.8	19.4	21.3	39.0	78.7
06	3.2	5.8	7.1	7.7	8.1	9.0	9.0	9.7	11.9	15.5	20.6	22.3	41.0	80.0
07	3.5	5.8	5.8	6.5	7.4	7.4	8.1	9.0	10.7	16.5	20.0	21.6	40.6	81.3
08	4.5	6.5	6.5	7.1	8.4	9.7	10.7	11.9	12.9	16.8	20.3	23.9	42.6	81.3
09	4.5	4.5	5.8	6.5	6.8	9.0	9.0	11.0	12.6	16.5	19.4	21.9	43.2	81.6
10	4.2	4.8	5.5	5.8	6.1	7.4	8.4	8.7	11.0	13.5	17.7	19.0	42.6	79.7
11	2.9	3.2	3.2	3.9	3.9	6.1	7.7	8.7	9.7	12.9	16.8	19.0	41.3	78.7
12	2.3	2.9	2.9	2.9	3.5	5.2	5.8	7.7	9.7	11.6	14.2	16.5	40.6	78.7
13	2.6	3.5	3.9	4.2	5.2	6.5	6.8	7.7	9.0	12.6	16.1	17.7	40.0	78.7
14	3.2	4.2	4.8	4.8	5.2	7.1	7.7	8.7	9.7	11.3	15.2	16.8	37.1	76.8
15	3.2	4.2	4.5	5.8	6.1	6.5	8.4	10.0	10.7	12.3	14.5	16.5	39.7	77.7
16	3.5	4.2	4.8	5.2	5.5	5.5	6.5	8.4	9.4	12.6	16.5	18.4	43.2	80.6
17	2.9	2.9	3.2	4.2	5.5	6.1	6.5	6.8	7.7	10.7	13.9	16.1	41.6	81.9
18	3.5	3.9	4.2	4.5	5.2	6.1	6.5	7.1	7.7	10.3	15.5	16.5	41.0	83.5
19	2.9	3.5	4.2	4.5	4.5	5.5	6.1	7.4	7.7	11.6	16.5	18.1	40.0	82.3
20	2.9	3.9	4.8	5.8	6.1	6.5	6.8	7.7	9.4	12.6	15.2	17.1	37.1	81.3
21	2.6	2.6	4.5	4.8	5.2	6.5	7.4	7.7	10.3	11.6	15.2	16.5	37.1	81.6
22	3.9	5.2	5.5	5.5	6.1	7.7	7.7	7.7	10.0	12.9	17.1	18.7	38.1	80.6
23	3.9	4.2	4.5	5.5	5.5	6.5	7.1	7.7	8.4	12.6	15.8	17.7	39.4	81.9
gem	3.6	4.5	5.1	5.7	6.3	7.3	8.0	9.0	10.3	13.7	17.3	19.4	40.5	80.3

1B

gmt	$h_s h_g$ in meters													
	< 30	< 60	< 90	< 120	< 150	< 180	< 240	< 300	< 450	< 900	< 2400	N ≥ 5/8		
00	1.9	5.8	10.0	12.6	14.2	16.8	19.7	21.9	30.6	45.8	60.7			
01	2.9	6.5	10.3	13.2	15.5	18.4	22.3	24.8	34.2	46.8	61.0			
02	2.9	6.5	9.7	14.2	15.8	19.0	22.9	25.5	35.8	50.6	64.2			
03	2.3	6.8	10.3	13.9	16.5	18.4	22.6	26.1	35.5	52.6	68.1			
04	1.0	6.8	11.0	14.5	17.7	20.0	24.5	27.1	34.8	54.2	68.4			
05	0.6	7.4	12.9	15.2	17.1	20.6	25.5	30.0	38.7	54.8	69.0			
06	1.3	7.1	12.6	15.2	19.4	22.9	27.1	31.0	38.1	52.3	66.8			
07	0.6	4.8	11.9	13.9	17.1	22.3	27.1	34.3	41.3	55.5	67.1			
08	1.6	6.5	12.9	14.8	18.7	21.9	27.1	32.3	39.0	55.5	67.1			
09	1.6	6.5	11.0	14.2	19.0	21.0	28.1	32.6	39.0	51.6	65.2			
10	1.3	5.2	9.0	11.9	15.2	18.4	23.9	27.1	34.8	49.7	61.9			
11	1.0	4.2	7.7	11.0	15.8	18.4	24.2	27.7	35.5	49.4	62.3			
12	0.6	3.5	6.1	8.4	12.9	14.8	21.3	25.8	33.9	48.4	58.4			
13	0.3	2.9	7.1	9.7	12.9	15.8	22.6	26.5	34.8	48.4	59.4			
14	1.0	2.9	7.7	9.7	12.6	15.2	21.9	25.8	34.8	48.1	61.3			
15	0.6	4.8	7.4	9.4	12.3	15.5	21.3	23.9	32.9	45.5	58.1			
16	0.6	3.9	6.8	8.4	11.6	14.8	19.4	23.2	31.9	48.1	61.3			
17	1.6	3.5	6.8	9.0	11.6	14.8	19.4	21.0	28.7	48.7	62.6			
18	1.9	4.2	6.8	10.0	13.2	15.8	19.7	21.3	28.7	51.0	65.8			
19	1.9	4.5	6.5	9.4	11.0	15.5	20.3	21.3	28.1	45.8	65.5			
20	1.9	4.2	7.7	10.0	12.6	14.2	17.4	19.4	26.5	44.2	62.6			
21	1.3	5.2	7.4	11.0	11.9	13.5	16.8	18.4	27.4	45.5	61.3			
22	1.9	4.5	10.3	11.9	13.9	15.2	17.7	20.3	30.6	44.8	59.0			
23	1.9	4.8	9.0	11.6	14.2	15.8	19.4	22.3	30.3	45.8	61.9			
gem	1.4	5.1	9.1	11.8	14.7	17.5	22.2	25.3	33.6	49.3	63.3			

1C

$h_s h_g$	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 30	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 60	< 90	< 300	< 300
vv	< 200	< 200	< 200	< 400	< 400	< 400	< 600	< 600	< 600	< 800	< 800	< 800	< 1000	< 1000	< 1000	< 1000	< 1200	< 1200	< 1600	< 1600	< 2100	< 2100	< 2500	< 2500	< 4800	< 16000
00	4.2	6.5	10.7	6.1	6.8	11.0	8.1	8.4	11.3	9.4	9.7	11.6	10.7	10.7	12.6	11.6	12.9	14.8	15.2	19.0	19.4	21.0	21.3	46.8	81.0
01	5.2	6.8	10.7	5.8	7.1	11.0	7.4	8.1	11.6	9.0	9.0	11.9	9.7	9.7	12.6	11.3	13.9	15.2	16.1	18.7	19.4	21.0	21.6	46.8	82.6
02	5.2	7.1	10.3	6.1	7.1	10.3	8.1	8.7	11.3	9.4	9.7	11.9	9.7	10.0	12.3	11.0	12.9	15.5	16.5	18.4	19.4	21.9	22.3	45.2	81.0
03	4.2	7.1	10.7	6.1	7.1	10.7	8.1	9.0	11.6	10.0	10.3	12.6	10.7	11.0	13.2	11.9	13.9	16.8	17.7	18.7	19.0	22.3	22.6	45.8	79.4
04	3.9	7.1	11.3	6.5	7.7	11.6	7.7	8.7	11.9	9.0	9.7	12.9	9.7	10.0	12.9	11.6	14.2	15.5	18.1	20.3	20.6	22.6	22.9	45.2	80.0
05	3.5	8.1	13.2	6.1	8.4	13.5	7.7	9.7	13.9	9.0	9.7	13.9	11.0	11.6	14.5	12.9	15.8	16.8	17.7	19.4	20.0	21.3	21.9	45.5	80.0
06	3.2	8.1	13.2	7.1	8.7	13.2	8.1	9.4	13.5	9.0	10.0	13.9	9.7	10.7	13.9	11.9	14.8	15.5	16.8	20.6	21.0	22.3	22.6	47.1	80.6
07	3.5	5.8	12.3	5.8	6.8	12.3	7.4	8.1	13.2	8.1	8.4	12.6	9.0	9.4	13.2	10.7	13.9	16.5	17.4	20.0	20.0	21.6	21.6	47.1	81.9
08	4.5	7.1	13.2	6.5	7.4	13.2	8.4	9.4	14.8	10.7	10.7	14.2	11.9	11.9	14.8	12.9	15.2	16.8	17.7	20.3	20.6	23.9	23.9	48.0	81.6
09	4.5	7.1	11.3	5.8	7.7	11.6	6.8	8.1	11.6	9.0	9.4	13.9	11.0	11.0	13.5	12.6	14.5	16.5	18.1	19.4	19.7	21.9	21.9	50.0	81.9
10	4.2	5.8	9.4	5.5	6.5	9.4	6.1	6.8	9.7	8.4	8.4	11.0	8.7	8.7	11.3	11.0	12.6	13.5	14.8	17.7	18.1	19.0	19.4	47.1	80.3
11	3.2	4.5	7.7	3.5	4.5	7.7	3.9	4.8	7.7	7.7	8.1	9.4	8.7	8.7	10.0	9.7	10.7	12.9	13.2	16.8	16.8	19.0	19.0	47.4	80.0
12	2.3	3.5	6.1	2.9	3.5	6.1	3.5	3.9	6.5	5.8	6.1	7.7	7.7	8.1	9.4	9.7	10.7	11.6	11.9	14.2	14.5	16.5	16.8	46.1	79.7
13	2.6	2.9	7.1	3.9	3.9	7.4	5.2	5.2	8.1	6.8	6.8	9.0	7.7	7.7	9.7	9.0	10.3	12.6	13.2	16.1	16.5	17.7	18.1	46.8	79.0
14	3.2	3.5	8.1	4.8	4.8	8.7	5.2	5.2	8.7	7.7	7.7	9.7	8.7	8.7	10.3	9.7	10.7	11.3	11.9	15.2	15.2	16.8	16.8	44.8	77.7
15	3.2	5.2	7.7	4.5	5.5	7.7	6.1	6.1	8.4	8.4	8.4	10.0	10.0	10.0	10.7	10.7	11.3	12.3	12.6	14.5	14.8	16.5	16.8	43.5	78.7
16	3.5	3.9	6.8	4.8	4.8	7.1	5.5	5.5	7.7	6.5	6.5	8.1	8.4	8.4	9.7	9.4	10.3	12.6	12.9	16.5	16.5	18.4	18.4	46.5	80.6
17	3.2	3.9	7.1	3.2	3.9	7.1	5.5	5.5	7.7	6.5	6.5	7.7	6.8	6.8	7.7	7.7	8.1	10.7	10.7	13.9	13.9	16.1	16.1	44.8	82.3
18	3.5	4.5	7.1	4.2	5.2	7.1	5.2	5.5	7.4	6.5	6.5	7.7	7.1	7.1	8.1	7.7	8.4	10.3	10.3	15.5	15.5	16.5	16.5	46.1	83.9
19	3.2	4.5	6.5	4.2	4.8	6.5	4.5	4.8	6.5	6.1	6.1	7.7	7.4	7.4	8.7	7.7	9.0	11.6	11.9	16.5	16.5	18.1	18.1	43.2	82.3
20	3.2	4.2	7.7	4.8	5.2	8.1	6.1	6.1	8.7	6.8	6.8	9.4	7.7	7.7	10.0	9.4	11.0	12.6	13.2	15.2	15.8	17.1	17.4	41.0	81.3
21	2.6	5.5	7.7	4.5	6.1	8.1	5.2	6.5	8.4	7.4	8.1	9.4	7.7	8.4	9.7	10.7	11.3	11.9	13.6	15.2	15.5	16.5	16.8	40.0	81.6
22	3.9	5.2	10.3	5.5	6.1	10.3	6.1	6.8	10.3	7.7	8.1	10.7	7.7	8.1	10.7	10.3	12.3	13.2	14.8	17.1	18.1	18.7	19.7	42.6	81.0
23	3.9	5.2	9.0	4.5	5.5	9.4	5.5	6.1	9.4	7.1	7.4	9.7	7.7	8.1	10.3	8.4	10.3	12.6	14.2	15.8	16.8	17.7	18.7	44.2	82.3
gem	3.6	5.5	9.4	5.1	6.0	9.5	6.3	6.9	10.0	8.0	8.3	10.7	9.0	9.1	11.2	10.4	12.0	13.7	14.6	17.3	17.6	19.4	19.6	45.5	80.9

december
januari

ZUID-LIMBURG Month februari 1959 t/m 1968 Based on observations for the hours 22.00 t/m 03.00 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	1.8													1.8
345-015		0.6	1.2	0.7	0.4	0.0								2.9
015-045		0.4	1.6	1.8	1.7	0.1	0.0							5.7
045-075		0.6	2.5	3.7	3.0	0.2	0.0							10.1
075-105		0.7	2.4	2.9	1.7	0.3								8.0
105-135		0.8	1.3	0.8	0.1									3.1
135-165		0.5	1.6	0.8	0.8	0.0								3.7
165-195		0.4	2.0	4.2	4.1	1.3	0.4	0.1						12.4
195-225		0.9	2.8	5.5	7.5	3.6	1.5	0.2						21.9
225-255		0.9	3.8	5.4	4.9	1.6	0.2							16.9
255-285		0.7	2.6	3.3	1.7	0.3	0.0							8.7
285-315		0.3	1.3	0.7	0.4	0.1	0.0							2.9
315-345		0.3	0.7	0.7	0.2	0.1								1.9
Total	1.8	7.2	24.0	30.5	26.5	7.6	2.2	0.3						100

W.L. 29a1967-9-500 0.0 = < 0,05 WMO Model B

december
januari

ZUID-LIMBURG Month februari 1959 t/m 1968 Based on observations for the hours 0400 t/m 0900 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.2													2.2
345-015		0.3	0.9	1.0	0.3									2.5
015-045		0.4	1.2	2.2	1.4	0.2								5.3
045-075		0.6	2.4	3.8	2.6	0.4	0.0							9.8
075-105		1.1	1.8	2.5	1.6	0.3	0.1							7.4
105-135		0.7	1.7	1.2	0.2	0.0	0.0							3.7
135-165		0.5	1.3	1.7	0.7	0.1								4.4
165-195		0.7	2.1	3.0	4.1	1.3	0.3	0.0						11.6
195-225		1.0	3.6	5.1	8.2	3.8	1.7	0.2						23.6
225-255		0.9	3.6	6.2	3.9	1.5	0.6	0.0						16.7
255-285		0.6	2.3	3.2	1.3	0.3	0.1	0.0						7.9
285-315		0.3	1.1	1.1	0.7	0.2	0.0							3.5
315-345		0.3	0.6	0.4	0.1	0.0								1.4
Total	2.2	7.4	22.6	31.4	25.1	8.1	2.9	0.3						100

W.L. 29a1967-9-500 0.0 = < 0,05 WMO Model B

tabel 2

december
januari

ZUID-LIMBURG Month februari 1959/m1968 Based on observations for the hours 1000 4/m 1500 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	1.6													1.6
345-015		0,6	1.4	1.3	0.4	0.0								3.7
015-045		0.4	1.0	2,3	1.7	0,3								5,8
045-075		0.7	2.0	4,2	3.1	0.6	0.0							10.6
075-105		0.4	1.6	2.7	2,6	0,5	0.0							7.8
105-135		0.4	0.8	0,6	0.4									2 2
135-165		0.4	0.6	0.6	0.7	0.2	0.0							2.5
165-195		0.4	0.9	1.5	3.4	1.3	0,4	0.1						8.1
195-225		0.6	3.0	4,3	7.9	3,9	1.9	0,2						21.7
225-255		0.6	3.6	5.6	5.7	2.0	0.7	0.1						18.2
255-285		0.7	2.0	3,6	2,5	0.7	0.4	0,1						9 9
285-315		0.4	1.1	1.7	1.0	0.4	0.1							4.7
315-345		0.6	1.1	1.0	0,5	0.1								3.2
Total	1.6	6.2	19.1	29.3	29.9	9.9	3.6	0.4						100

W.L. 29a1967-9-500 0.0 = < 0.05 WMO Model B

december
januari

ZUID-LIMBURG Month februari 1959/m1968 Based on observations for the hours 1000 4/m 1500 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	1.8													1.8
345-015		0,5	1,3	1,1	0,5									3.4
015-045		0.5	1,2	2,4	2,3	0.1								6,5
045-075		0.4	2,9	3,8	3,1	0.3	0,0							10.6
075-105		0,6	2.2	3.2	2.3	0.3	0.0							8,5
105-135		0.4	1.3	1,2	0.2	0.0								3.1
135-165		0.4	1,2	0.9	0,8	0.1	0.1							3 3
165-195		0.4	1.4	2.7	4.0	1.6	0.8	0.0						11.1
195-225		0.4	2.2	6.3	6.4	3.2	0.9	0.2	0.1					19.8
225-255		1.1	3.5	5.2	4.7	1.4	0.4	0.1						16 3
255-285		0.4	2.5	3.2	1.8	0.4	0.1	0.0						8,5
285-315		0.3	1.7	1,5	0.6	0.1	0.1							4 4
315-345		0.4	1.1	0.8	0 4	0.1								2.8
Total	1.8	5,8	22.5	32.3	27.2	7.6	2.4	0.3	0.1					100

W.L. 29a1967-9-500 0.0 = < 0.05 WMO Model B

tabel 2

maart
april

ZUID-LIMBURG Month ..mei..... 19.59 t/m 1968 Based on observations for the hours 2200 t/m 0300 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.1													2.1
345-015		0.7	2.2	2.7	0.5									6.1
015-045		0.6	2.7	3.2	1.2	0.0								7.8
045-075		0.7	2.9	2.2	1.3	0.0								7.1
075-105		0.5	1.9	2.1	1.0	0.4	0.1							6.1
105-135		0.5	1.9	1.6	0.2									4.3
135-165		0.5	2.8	2.6	0.7									6.5
165-195		0.6	3.6	6.4	3.0	0.1								13.6
195-225		0.6	4.4	6.9	4.7	0.7	0.1							17.4
225-255		0.9	3.8	3.9	3.6	0.3	0.1							12.6
255-285		0.9	3.1	2.3	0.9	0.1	0.0	0.0						7.4
285-315		0.5	2.2	1.5	0.4	0.1	0.0							4.7
315-345		0.6	1.9	1.6	0.2									4.3
Total	2.1	7.7	33.5	36.9	17.7	1.8	0.3	0.0						100

W.L. 29a1967-9-500 WMO Model B

maart
april

ZUID-LIMBURG Month ..mei..... 19.59 t/m 1968 Based on observations for the hours 2200 t/m 0300 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.1													2.1
345-015		0.6	1.6	1.9	0.4									4.5
015-045		0.7	1.8	3.2	1.9	0.1								7.7
045-075		0.6	2.0	2.1	1.4	0.2	0.1							6.4
075-105		0.7	1.8	1.9	1.0	0.6	0.1							6.1
105-135		0.7	1.5	0.8	0.3									3.3
135-165		0.5	1.8	1.4	0.6	0.1								4.5
165-195		0.5	2.8	5.6	3.6	0.4	0.0							12.8
195-225		0.7	3.8	7.4	6.3	1.3	0.2	0.0						19.8
225-255		0.9	4.0	5.3	4.4	0.5	0.0							15.1
255-285		0.9	2.5	3.0	1.3	0.2	0.0							8.0
285-315		0.6	1.4	2.2	0.8	0.1								5.1
315-345		0.7	1.6	1.7	0.5	0.0								4.6
Total	2.1	8.2	26.7	36.4	22.5	3.6	0.5	0.0						100

W.L. 29a1967-9-500 WMO Model B

tabel 2

maart
april

ZUID-LIMBURG Month mei 1959 t/m 1968 Based on observations for the hours 1000 t/m 1500 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	1.8													1.8
345-015		0.5	2.0	3.0	1.0	0.1								6.5
015-045		0.5	1.7	3.2	2.5	0.3	0.1							8.3
045-075		0.2	1.5	3.0	3.0	0.8	0.1							8.6
075-105		0.3	1.1	1.8	2.5	0.5	0.2							6.3
105-135		0.2	0.7	0.6	0.2	0.0		0.0						1.8
135-165		0.2	0.6	0.9	0.8	0.3	0.0							2.9
165-195		0.3	0.9	1.9	2.4	0.6	0.1							6.2
195-225		0.3	1.6	3.8	5.3	1.8	0.3	0.0						13.1
225-255		0.5	2.4	7.2	8.0	1.5	0.2							19.7
255-285		0.5	2.4	3.9	3.4	0.6	0.1							10.9
285-315		0.5	1.3	2.5	2.1	0.4	0.1							6.9
315-345		0.4	2.0	2.0	2.2	0.4	0.0							7.0
Total	1.8	4.3	18.1	33.7	33.6	7.2	1.3	0.0						100

W.L. 29a1967-9-500 WMO Model B

maart
april

ZUID-LIMBURG Month mei 1959 t/m 1968 Based on observations for the hours 1400 t/m 2100 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.3													2.3
345-015		0.6	2.6	3.4	1.4	0.0	0.0							8.1
015-045		0.6	2.3	4.0	1.8	0.2	0.0							8.9
045-075		0.9	3.2	3.2	1.6	0.2	0.0							9.2
075-105		0.6	1.7	1.9	1.4	0.5	0.0							6.1
105-135		0.5	1.5	1.8	0.5	0.0								4.2
135-165		0.2	1.6	1.8	0.7	0.1								4.5
165-195		0.5	1.9	3.1	1.6	0.4	0.0							7.6
195-225		0.5	2.7	4.0	3.4	0.7	0.2							11.5
225-255		1.3	3.7	4.1	3.9	0.6	0.2							13.9
255-285		1.0	3.5	2.3	1.5	0.2	0.0							8.6
285-315		0.6	2.6	2.8	1.2	0.2								7.5
315-345		0.7	2.2	2.8	1.8	0.2								7.6
Total	2.3	8.1	29.7	35.1	20.9	3.4	0.5							100.

W.L. 29a1967-9-500 WMO Model B

tabel 2

Juni
Juli

ZUID-LIMBURG Month augustus 1967/m/1968 Based on observations for the hours 2300 u/m 0400 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	4.1													4.1
345-015		0.8	2.9	1.5	0.2									5.4
015-045		0.6	2.2	1.7	0.4									4.9
045-075		0.8	2.9	1.2	0.1									5.1
075-105		0.8	1.9	1.6	0.1									4.5
105-135		0.7	2.3	0.9	0.1									4.1
135-165		1.0	3.9	1.7	0.1									6.7
165-195		0.9	6.3	6.7	1.4	0.1								15.4
195-225		0.8	7.0	9.1	3.3	0.2								20.3
225-255		1.2	5.6	4.6	1.8	0.1								13.4
255-285		1.1	4.3	1.8	0.4									7.5
285-315		0.9	2.6	1.0	0.3									4.9
315-345		1.1	2.2	0.5	0.0									3.7
Total	4.1	10.6	44.1	32.5	8.4	0.3								100

W.L. 29a1967-9-500 WMO Model B

Juni
Juli

ZUID-LIMBURG Month augustus 1967/m/1968 Based on observations for the hours 0400 u/m 0900 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.7													2.7
345-015		0.6	1.7	1.0	0.2									3.4
015-045		0.7	1.8	2.1	0.5									5.1
045-075		0.8	2.4	1.7	0.4									5.3
075-105		0.5	1.6	1.4	0.3	0.0								3.8
105-135		0.7	1.3	0.4	0.1									2.5
135-165		0.9	1.8	0.8	0.3									3.8
165-195		1.1	3.8	5.1	1.7	0.1	0.0							11.8
195-225		0.8	6.6	11.1	6.2	0.7	0.0							25.4
225-255		1.2	6.1	8.4	4.7	0.2	0.0							20.7
255-285		1.0	4.3	3.0	1.0	0.0								9.3
285-315		0.5	1.8	1.1	0.3									3.7
315-345		0.7	1.2	0.6	0.1	0.0								2.6
Total	2.7	9.4	34.3	36.7	15.7	1.1	0.1							100

W.L. 29a1967-9-500 WMO Model B

tabel 2

~~August~~ June / Juli

ZUID-LIMBURG Month ~~August~~ 1959 t/m 1968 Based on observations for the hours 1000 t/m 1500 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.4													2.4
345-015		0.4	2.2	2.9	0.8	0.0								6.3
015-045		0.3	1.4	2.2	1.0	0.0								4.9
045-075		0.3	1.7	2.8	1.0	0.1								5.9
075-105		0.3	1.2	1.3	1.1	0.1								4.1
105-135		0.2	0.5	0.5	0.1	0.0								1.4
135-165		0.3	0.6	0.7	0.3	0.1								2.0
165-195		0.4	1.2	1.9	1.7	0.1								5.3
195-225		0.4	1.7	3.5	4.7	1.3	0.1	0.0						11.7
225-255		0.5	4.3	11.1	9.5	0.9	0.1							26.5
255-285		0.6	3.9	6.0	3.7	0.2	0.0	0.0						14.3
285-315		0.5	3.2	3.4	1.6	0.1								8.8
315-345		0.5	1.9	2.2	0.8	0.1								5.4
Total	2.4	4.7	23.9	39.4	26.3	3.1	0.2	0.0						100

W.L. 29a1967-9-500 WMO Model B

June / Juli

ZUID-LIMBURG Month ~~September~~ 1959 t/m 1968 Based on observations for the hours 1600 t/m 2100 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	3.6													3.6
345-015		0.9	3.4	3.2	0.8	0.0								8.4
015-045		0.5	2.2	2.1	0.4									5.2
045-075		0.7	3.7	2.2	0.7	0.0								7.3
075-105		0.5	1.6	1.6	0.5									4.2
105-135		0.4	1.4	0.9	0.2									2.9
135-165		0.5	1.6	0.7	0.1	0.0								2.9
165-195		0.6	2.9	2.7	0.9	0.1								7.2
195-225		0.7	3.7	4.9	2.6	0.3								12.3
225-255		1.6	5.9	5.6	3.3	0.3								16.7
255-285		1.6	4.5	3.4	1.6	0.1								11.2
285-315		0.9	3.9	3.0	1.2	0.1								9.2
315-345		1.3	3.5	2.8	1.2	0.1								0.9
Total	3.6	10.2	38.4	33.2	13.4	1.2								100

W.L. 29a1967-9-500 WMO Model B

tabel 2

september
oktober
- ZUID-LIMBURG Month november 1967 t/m 1968 Based on observations for the hours 2200 t/m 0300 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.6													2.6
345-015		0.4	1.2	0.3	0.1									2.0
015-045		0.5	1.6	1.7	0.5									4.4
045-075		0.7	3.8	3.1	0.8	0.1								8.5
075-105		0.5	3.4	2.8	0.6	0.1	0.1	0.0						7.5
105-135		0.8	2.8	1.3	0.3									5.1
135-165		0.9	3.6	2.4	1.0	0.1								8.0
165-195		0.7	4.9	8.1	5.0	0.8	0.1							19.6
195-225		0.9	4.8	8.0	6.7	1.8	0.8	0.1						23.1
225-255		0.7	3.8	4.2	2.6	0.4	0.1							11.8
255-285		0.8	1.5	1.2	0.7	0.1	0.0							4.4
285-315		0.5	0.8	0.3	0.1	0.0								1.7
315-345		0.5	0.5	0.3	0.1									1.3
Total	2.6	7.8	32.7	33.7	18.4	3.6	1.1	0.1						100

W.L. 29a1967-9-500 WMO Model B

september
oktober
ZUID-LIMBURG Month JANUARI/APRIL 1967 t/m 1968 Based on observations for the hours 0400 t/m 0900 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	3.4													3.4
345-015		0.3	0.5	0.5	0.2									1.5
015-045		0.5	1.2	1.6	0.3	0.1								3.8
045-075		0.8	3.4	3.2	1.0	0.0	0.1							8.5
075-105		0.7	2.8	3.2	1.5	0.2								8.5
105-135		0.7	1.8	1.3	0.3	0.0								4.1
135-165		1.0	2.6	2.4	1.6	0.1								7.7
165-195		0.7	3.6	7.0	5.4	0.8	0.2							17.7
195-225		0.9	4.8	8.4	8.8	1.8	0.6	0.2						25.5
225-255		0.8	2.9	5.2	3.4	0.6	0.0							12.9
255-285		0.7	1.4	1.3	0.7	0.1								4.2
285-315		0.4	0.5	0.1	0.0									1.1
315-345		0.3	0.6	0.2	0.0									1.1
Total	3.4	7.8	26.1	34.5	23.4	3.8	0.9	0.2						100

W.L. 29a1967-9-500 WMO Model B

tabel 2

~~september~~
oktober

ZUID-LIMBURG Month ~~november~~ 1967/~~9~~, 1968 Based on observations for the hours 1000 t/m 1500 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	2.6													2.6
345-015		0.4	1.5	1.0	0.1									3.0
015-045		0.5	1.4	2.4	0.9	0.0								5.3
045-075		0.4	2.8	5.1	2.9	0.3	0.0							11.5
075-105		0.3	1.4	2.4	2.2	0.8	0.1							7.3
105-135		0.2	0.8	0.5	0.4									2.0
135-165		0.4	0.6	0.9	1.1	0.2	0.0							3.2
165-195		0.5	1.8	2.8	3.9	1.4	0.6							11.0
195-225		0.8	2.9	5.2	8.8	2.7	0.8	0.1	0.0					21.4
225-255		0.9	4.0	7.0	6.7	1.3	0.2	0.0						20.1
255-285		0.7	2.3	2.7	1.8	0.2								7.7
285-315		0.6	1.0	0.7	0.5	0.1								2.8
315-345		0.4	0.9	0.6	0.1	0.0								2.1
Total	2.6	6.1	21.4	31.4	29.5	7.1	1.8	0.1	0.0					100

W.L. 29a1967-9-500 WMO Model B

~~september~~
oktober

ZUID-LIMBURG Month ~~november~~ 1967/~~9~~, 1968 Based on observations for the hours 1600 t/m 2100 GMT

dd/ff	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	63	total
Calm	3.1													3.1
345-015		0.5	1.6	0.7	0.1	0.0								2.9
015-045		0.5	2.2	2.5	0.7	0.0								5.8
045-075		0.8	4.6	4.5	0.8	0.1	0.0							10.8
075-105		0.4	2.8	2.8	1.3	0.4	0.1							7.7
105-135		0.4	2.1	2.1	0.6									5.2
135-165		0.7	2.3	2.2	1.2	0.1								6.6
165-195		0.8	2.8	5.2	3.9	0.9	0.4							14.1
195-225		0.8	3.9	5.7	5.7	1.8	0.6	0.1						18.6
225-255		1.2	4.6	4.4	3.0	0.5	0.1							13.8
255-285		1.0	2.6	1.6	0.8	0.2	0.1							6.2
285-315		0.8	1.0	0.5	0.3	0.0								2.6
315-345		0.8	1.2	0.5	0.1	0.0								2.6
Total	3.1	8.6	31.7	32.5	18.7	4.1	1.2	0.1						100

W.L. 29a1967-9-500 WMO Model B

tabel 2

TIJDVAK	0400–0900 gmt												1000–1500 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	24	44	21	53	8	42	1	–	–	4	–	4	54	147	25	85	29	101	–	72	–	17	–	6	–	2	54	283
020–030–040	24	45	44	72	3	64	1	35	–	1	–	–	72	217	24	55	42	85	2	74	–	43	–	8	–	–	68	265
050–060–070	33	42	40	118	11	112	–	29	2	6	–	–	86	307	19	63	18	122	7	106	–	62	–	14	–	—	44	367
080–090–100	23	69	14	132	6	51	1	39	–	22	–	17	44	330	11	58	7	117	1	99	–	55	1	22	–	17	20	368
110–120–130	12	83	3	77	–	8	–	5	–	2	–	1	15	176	7	43	1	58	–	16	1	10	–	4	–	–	9	131
140–150–160	9	108	6	134	–	51	–	25	–	3	–	3	15	324	6	50	–	67	–	48	–	22	–	2	–	4	6	193
170–180–190	30	152	35	353	2	380	–	158	–	38	–	8	67	1089	16	95	14	166	2	278	–	154	–	64	–	18	32	775
200–210–220	45	115	71	407	23	557	3	332	–	83	1	23	143	1517	35	147	61	338	10	542	3	352	1	146	1	31	111	1556
230–240–250	45	86	63	313	10	302	7	136	–	36	–	13	125	886	25	104	43	311	8	398	3	164	–	73	–	11	79	1061
260–270–280	35	61	21	145	3	102	1	53	2	21	2	6	64	388	20	79	15	141	6	142	–	94	–	33	–	7	41	496
290–300–310	22	26	14	62	3	43	1	13	–	5	–	1	40	150	11	43	14	77	2	53	–	22	–	9	–	8	27	212
320–330–340	17	23	12	33	–	14	1	4	–	–	–	–	30	74	8	40	9	60	6	27	–	9	–	–	–	1	23	137
Totaal	319	854	344	1899	69	1726	16	829	4	221	3	76			207	862	253	1643	44	1855	7	1004	2	381	1	99		
Windstil	53	80											53	80	34	103											34	103
													Totaal														808	5685
																											548	5947

TABEL 3a -25-

DECEMBER- JANUARI- FEBRUARI

TIJDVAK	1600–2100 gmt												2200–0300 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	13	55	20	82	–	56	2	5	–	4	–	–	35	202	20	43	25	58	8	28	1	2	4	1	1	–	59	132
020–030–040	28	65	26	110	2	106	–	38	–	2	–	–	56	321	18	47	22	84	5	81	–	23	–	1	–	–	45	236
050–060–070	26	75	36	131	11	99	–	55	–	10	–	2	73	372	21	52	43	112	10	102	–	24	–	6	–	–	74	296
080–090–100	12	101	12	137	5	192	–	36	–	9	–	5	29	480	15	88	13	114	2	82	–	40	–	11	–	7	30	342
110–120–130	8	75	5	109	1	205	1	9	–	3	–	1	15	402	11	84	3	86	2	18	–	5	–	–	–	–	16	193
140–150–160	14	95	2	93	–	175	–	17	–	5	–	3	16	388	12	99	–	90	–	70	–	13	–	4	–	1	12	277
170–180–190	19	126	7	293	3	343	–	154	–	74	–	20	29	1010	21	133	15	400	–	342	–	144	–	42	–	14	36	1075
200–210–220	33	115	46	407	17	254	1	245	–	117	–	30	97	1168	38	98	49	381	12	492	1	267	–	76	–	30	00	1344
230–240–250	34	119	31	276	8	134	1	119	1	36	–	10	75	694	29	88	44	277	14	251	1	125	–	27	–	4	88	772
260–270–280	15	94	15	152	1	50	–	55	–	13	–	8	31	372	30	52	23	119	3	79	–	47	–	11	–	7	56	315
290–300–310	11	50	11	65	–	27	–	10	–	5	–	2	22	159	13	23	11	48	2	22	1	4	–	10	–	3	27	110
320–330–340	11	55	11	53	1	19	–	13	–	3	–	–	23	143	13	27	9	32	2	13	–	12	–	2	–	1	24	87
Totaal	224	1025	222	1908	49	1660	5	756	1	281	–	81			241	834	257	1801	60	1580	4	706	4	191	1	67		
Windstil	30	133											30	133	55	68											55	68
													Totaal														622	5247
													Totaal														531	5844

DECEMBER-JANUARI-FEBRUARI

TABEL 3a

TIJDVAK	0400–0900 gmt												1000–1500 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	29	120	31	145	5	66	–	16	–	1	–	–	65	348	9	124	8	297	1	166	–	33	–	4	–	2	18	626
020–030–040	30	86	36	195	7	82	–	19	–	2	–	–	73	384	4	107	13	256	3	158	–	40	–	21	–	1	20	583
050–060–070	21	100	42	233	9	134	–	45	–	12	–	–	72	524	5	72	10	195	3	265	–	124	–	27	–	2	18	685
080–090–100	8	105	9	265	1	120	1	66	–	18	–	1	19	575	2	76	2	144	–	194	–	160	–	37	–	7	4	618
110–120–130	6	83	–	105	–	42	–	3	–	–	–	–	6	233	1	45	–	46	–	20	–	10	–	–	–	–	1	121
140–150–160	6	125	–	134	–	45	–	16	–	–	–	–	6	320	–	35	–	60	–	45	–	19	–	3	–	–	–	162
170–180–190	18	182	6	367	–	194	–	52	–	17	–	1	24	813	–	74	–	112	–	97	–	58	–	13	–	7	–	361
200–210–220	29	225	9	454	1	253	–	98	–	29	–	8	39	1067	4	98	1	245	–	207	–	118	–	29	–	15	5	712
230–240–250	31	134	20	246	2	205	–	85	–	36	–	2	53	708	11	123	1	370	1	324	1	158	–	41	–	10	14	1026
260–270–280	35	121	23	165	3	75	–	23	–	3	–	2	61	389	5	124	9	237	3	232	–	82	–	17	–	1	17	693
290–300–310	31	100	22	121	4	50	–	15	–	1	–	2	57	289	4	87	11	135	–	131	1	42	–	9	–	5	16	409
320–330–340	37	94	11	119	5	38	–	3	–	–	–	–	53	254	2	69	5	176	–	133	–	38	–	6	–	–	7	422
Totaal	281	1475	209	2549	37	1304	1	441	–	119	–	16			47	1034	60	2273	11	1972	2	882	–	207	–	50		
Windstil	38	151											38	151	3	79											3	79
									Totaal				566	6055									Totaal				123	6497

MAART–APRIL–MEI

TIJDVAK			1600–2100 gmt												2200–0300 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	1	161	1	317	–	180	–	18	–	5	–	–	2	679	15	154	11	227	1	74	–	12	–	–	–	–	27	467
020–030–040	3	152	1	332	–	163	–	36	–	12	–	–	4	695	12	117	6	275	2	73	–	6	–	–	–	–	20	471
050–060–070	1	125	2	331	1	199	–	43	–	10	–	–	4	708	15	126	15	249	4	96	–	18	–	5	–	–	34	494
080–090–100	4	108	2	239	–	162	–	54	–	14	–	1	6	578	7	107	5	255	–	109	1	39	–	14	–	4	13	528
110–120–130	1	81	–	130	–	49	–	7	–	–	–	–	1	267	4	100	–	142	–	41	–	3	–	–	–	–	4	286
140–150–160	–	98	–	102	–	45	–	9	–	4	–	–	–	258	4	142	–	193	–	47	–	7	–	–	–	–	4	389
170–180–190	–	130	–	186	–	82	–	21	–	4	–	5	–	428	11	194	–	390	–	178	–	24	–	1	–	1	11	788
200–210–220	–	131	–	215	–	155	–	70	–	20	–	1	–	592	6	197	10	306	1	179	–	58	–	13	–	7	17	760
230–240–250	–	153	–	202	3	138	–	51	–	15	–	1	3	560	7	147	6	219	4	119	–	37	–	19	–	3	17	544
260–270–280	4	208	3	210	1	93	–	25	–	5	–	2	8	543	15	139	13	115	1	58	1	19	–	6	–	2	30	339
290–300–310	–	163	1	206	–	93	–	16	–	4	–	–	1	482	10	110	10	130	1	17	–	3	–	1	–	–	21	261
320–330–340	–	129	–	231	2	102	–	27	–	4	–	–	2	493	9	128	6	109	–	16	–	1	–	–	–	–	15	254
Totaal	14	1639	10	2701	7	1461	–	377	–	95	–	10			115	1661	82	2610	14	1007	2	227	–	59	–	17		
Windstil	7	183											7	183	13	176											13	176
								Totaal					38	6466								Totaal					226	5757

MAART-APRIL-MEI

TIJDVAK	0400–0900 gmt												1000–1500 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	28	103	6	79	–	21	–	–	–	–	–	–	34	203	2	127	2	219	–	65	–	5	–	–	–	–	4	416
020–030–040	19	98	10	134	1	24	–	4	–	–	–	–	30	260	–	84	1	171	–	58	–	9	–	1	–	–	1	323
050–060–070	12	120	8	144	1	46	–	2	–	–	–	–	21	312	–	85	1	197	–	91	–	14	–	–	–	–	1	387
080–090–100	9	100	1	120	–	39	–	3	–	–	–	–	10	262	–	59	–	142	–	74	–	22	–	2	–	–	–	299
110–120–130	2	122	–	78	–	12	–	4	–	–	–	–	2	216	–	42	–	50	–	22	–	13	–	–	–	–	–	127
140–150–160	–	150	–	90	–	18	–	1	–	–	–	–	–	259	–	47	–	68	–	22	–	6	–	–	–	–	–	143
170–180–190	19	236	6	481	–	126	–	18	–	2	–	–	25	863	–	82	–	154	–	121	–	27	–	–	–	1	–	385
200–210–220	27	375	19	911	3	336	–	79	–	8	–	–	49	1709	–	114	3	340	3	307	–	127	–	15	–	1	6	904
230–240–250	24	246	6	608	–	312	–	59	–	1	–	1	30	1227	1	243	1	770	3	539	–	118	–	5	–	–	5	1675
260–270–280	22	162	15	216	1	73	–	3	–	2	–	–	38	456	1	224	1	499	2	243	–	35	–	2	–	1	4	1004
290–300–310	15	102	15	87	2	15	–	–	–	–	–	–	32	204	1	139	1	234	–	106	–	13	–	–	–	–	2	492
320–330–340	11	91	10	79	–	12	–	–	–	–	–	–	21	182	–	117	1	170	2	45	–	10	–	1	–	–	3	343
Totaal	188	1905	96	3027	8	1034	–	173	–	13	–	1			5	1363	11	3014	10	1693	–	399	–	26	–	3		
Windstil	27	152											27	152		100												100
													Totaal														319	6305
																											26	6598

JUNI–JULI–AUGUSTUS

TIJDVAK	1600–2100 gmt												2200–0300 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	1	191	-	243	-	59	-	6	-	-	-	-	1	499	12	160	9	126	2	18	-	-	-	-	-	-	23	304
020–030–040	-	157	1	172	-	36	-	7	-	-	-	-	1	372	4	141	4	128	-	25	-	5	-	-	-	-	8	299
050–060–070	1	157	1	198	-	46	-	4	-	-	-	-	2	405	6	132	3	120	1	10	-	-	-	-	-	-	10	262
080–090–100	-	119	-	161	-	42	-	4	-	-	-	1	-	327	5	133	-	166	-	24	-	-	-	-	-	-	5	323
110–120–130	-	89	-	73	-	10	-	3	-	1	-	1	-	177	-	152	-	89	-	12	-	6	-	-	-	-	-	259
140–150–160	-	134	-	87	-	10	-	1	-	-	-	-	-	232	1	257	1	179	-	9	-	-	-	-	-	-	2	445
170–180–190	-	205	-	223	-	70	-	12	-	2	-	-	-	512	12	348	1	532	-	69	-	14	-	-	-	-	13	963
200–210–220	-	258	2	346	-	180	-	24	-	2	-	-	2	810	9	396	3	685	1	178	-	22	-	-	-	-	13	1281
230–240–250	-	374	1	486	-	184	-	34	-	3	-	-	1	1081	10	271	4	274	-	141	-	28	-	1	-	-	14	715
260–270–280	-	308	1	293	-	103	-	8	-	-	-	1	1	713	23	191	9	111	1	22	-	4	-	-	-	-	33	328
290–300–310	-	206	-	256	-	69	-	14	-	-	-	-	-	545	8	138	14	94	-	5	-	-	-	-	-	-	22	237
320–330–340	-	211	-	221	-	61	-	7	-	-	-	1	-	501	7	118	7	72	-	8	-	1	-	-	-	-	14	199
Totaal	2	2409	6	2759	-	870	-	124	-	8	-	4			97	2437	55	2576	5	521	-	80	-	1	-	-		
Windstil	-	332											-	332	9	317											9	317
													Totaal	8 6506												Totaal	166 5932

JUNI-JULI-AUGUSTUS

TIJDVAK	0400–0900 gmt												1000–1500 gmt											
Snelheid in knopen	1–5		6–10		11–15		6–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	28	47	17	33	3	21	1	2	–	–	–	2	49	105	11	95	8	88	1	23	–	12	–	1	–	–	20	219
020–030–040	28	33	22	76	2	32	–	2	–	–	–	–	52	143	16	84	11	135	3	52	–	10	–	1	–	–	30	282
050–060–070	35	88	33	168	3	53	–	10	–	3	–	–	71	322	9	91	11	170	3	137	–	30	–	4	–	–	23	432
080–090–100	35	120	20	182	8	99	–	31	–	2	–	–	63	434	6	86	2	155	3	192	–	104	–	7	–	–	11	544
110–120–130	10	124	1	142	–	31	–	2	–	–	–	–	11	299	1	50	–	73	–	36	–	7	–	1	–	–	1	167
140–150–160	11	175	2	174	1	79	–	14	–	2	–	4	14	448	3	54	–	90	–	79	–	15	–	5	–	–	3	243
170–180–190	39	188	22	469	2	357	–	86	–	26	–	7	63	1133	2	95	1	215	–	206	–	96	–	43	–	10	3	665
200–210–220	50	188	55	655	4	449	–	169	–	47	–	9	109	1517	12	142	7	431	1	409	2	221	–	47	–	17	22	1267
230–240–250	41	131	18	341	3	221	–	65	–	11	–	1	62	770	21	180	7	475	1	413	–	128	–	27	–	4	29	1227
260–270–280	27	82	11	193	1	73	–	21	–	4	–	–	39	373	14	138	5	270	2	196	–	46	–	9	–	1	21	660
290–300–310	22	47	2	54	–	16	–	4	–	6	–	3	24	130	12	90	3	135	–	81	–	25	–	2	–	–	15	333
320–330–340	14	25	3	35	–	7	–	5	–	1	–	2	17	75	7	66	1	71	2	26	–	11	–	4	–	1	10	179
Totaal	340	1248	206	2522	27	1438	1	411	–	102	–	28			114	1171	56	2308	16	1850	2	705	–	151	–	33		
Windstil	87	141											87	141	24	121											24	121
													Totaal														661	5890
																											Totaal	
																											212	6339

SEPTEMBER–OKTOBER–NOVEMBER

TABEL 3a

TIJDVAK	1600–2100 gmt												2200–0300 gmt											
Snelheid in knopen	1–5		6–10		11–15		16–20		21–25		>25		Totaal		1–5		6–10		11–15		16–20		21–25		>25		Totaal	
Richting in graden	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
350–360–010	15	114	8	77	1	16	–	9	–	2	–	–	24	218	23	41	1	35	–	12	–	6	–	–	–	–	24	94
020–030–040	13	102	7	143	10	32	–	2	–	1	–	–	30	280	23	77	10	109	–	21	–	2	–	–	–	–	33	209
050–060–070	11	117	18	193	2	71	–	4	–	–	–	–	31	385	51	76	18	142	5	57	1	2	–	–	–	–	75	277
080–090–100	12	115	7	256	–	113	–	29	–	4	–	–	19	517	23	90	11	222	2	74	–	15	–	5	–	1	36	407
110–120–130	3	97	–	146	–	45	–	11	–	–	–	–	3	299	7	134	2	104	1	21	–	3	–	–	–	–	10	262
140–150–160	–	157	–	174	–	67	–	25	–	5	–	–	–	428	14	184	1	195	–	72	–	14	–	7	–	2	15	474
170–180–190	5	186	2	380	–	204	–	94	–	29	–	3	7	896	16	213	14	547	1	251	–	69	–	26	–	5	31	1111
200–210–220	17	207	3	481	–	296	3	137	–	22	–	9	23	1152	37	213	32	553	1	363	–	129	–	34	–	9	70	1301
230–240–250	18	251	7	384	–	224	–	64	–	4	–	3	25	930	34	159	15	346	3	195	1	48	–	6	–	–	53	754
260–270–280	16	187	4	189	–	54	–	8	–	1	–	–	20	439	17	108	15	135	–	28	–	11	–	3	–	4	32	289
290–300–310	16	110	4	96	–	22	–	5	–	1	–	–	20	234	15	50	7	50	1	9	–	4	–	–	–	–	23	113
320–330–340	12	101	4	80	3	13	–	3	–	–	–	–	19	197	11	53	9	28	–	6	–	1	–	–	–	–	20	88
Totaal	138	1744	64	2599	16	1157	3	391	–	69	–	15			271	1398	135	2466	14	1109	2	304	–	81	–	21		
Windstil	27	223											27	223	66	163											66	163
													Totaal														248	6198
																											488	5542

SEPTEMBER–OKTOBER–NOVEMBER

dec. - jan. - febr.

TIJDVAK	0400–0900 gmt							1000–1500 gmt							1600–2100 gmt							2200–0300 gmt						
Snelheid in knopen / Richting in graden	1–5	6–10	11–15	16–20	21–25	> 25	Ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	Ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	Ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	Ongeacht snelheid
350–360–010	35	28	16	100	–	–	27	23	22	–	–	–	–	16	19	20	–	29	–	–	15	32	30	22	33	80	100	31
020–030–040	35	38	4	3	–	–	25	30	33	3	–	–	–	20	30	19	2	–	–	–	15	28	21	6	–	–	–	16
050–060–070	44	25	9	–	25	–	22	23	13	6	–	–	–	11	26	22	10	–	–	–	16	29	28	9	–	–	–	20
080–090–100	25	10	11	3	–	–	12	16	6	1	–	4	–	5	11	8	3	–	–	–	6	15	10	2	–	–	–	8
110–120–130	13	4	–	–	–	–	8	14	2	–	9	–	–	6	10	4	0	10	–	–	4	12	3	10	–	–	–	8
140–150–160	8	4	–	–	–	–	4	11	–	–	–	–	–	3	13	2	–	–	–	–	4	11	–	–	–	–	–	4
170–180–190	16	9	1	–	–	–	6	14	8	1	–	–	–	4	13	2	1	–	–	–	3	14	4	–	–	–	–	3
200–210–220	28	15	4	1	–	4	9	19	15	2	1	1	1	7	22	10	6	0	–	–	8	28	11	2	0	–	–	7
230–240–250	34	17	3	5	–	–	12	19	12	2	2	–	–	7	22	10	6	1	3	–	10	25	14	5	1	–	–	10
260–270–280	36	13	3	2	9	25	14	20	10	4	–	–	–	8	14	9	2	–	–	–	8	37	16	4	–	–	–	15
290–300–310	46	18	7	7	–	–	21	20	15	4	–	–	–	11	18	14	–	–	–	–	12	36	19	8	20	–	–	20
320–330–340	43	27	–	20	–	–	29	17	13	18	–	–	–	14	17	17	5	–	–	–	14	33	22	13	–	–	–	22
Ongeacht de richting	27	15	4	2	2	4	12	19	13	2	1	1	1	8	18	10	3	1	0	–	8	22	12	4	1	2	1	11
Windstil	40							25							18							45						

maart-april-mei

TIJDVAK	0400–0900 gmt							1000–1500 gmt							1600–2100 gmt							2200–0300 gmt						
Snelheid in knopen / Richting in graden	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid
350–360–010	19	18	7	–	–	–	16	7	3	1	–	–	–	3	1	0	–	–	–	–	0	9	5	1	–	–	–	5
020–030–040	26	16	8	–	–	–	16	4	5	2	–	–	–	3	2	0	–	–	–	–	1	9	2	3	–	–	–	4
050–060–070	17	15	6	–	–	–	12	6	5	1	–	–	–	3	1	1	1	–	–	–	1	11	6	4	–	–	–	6
080–090–100	7	3	1	1	–	–	3	3	1	–	–	–	–	1	4	1	–	–	–	–	1	6	2	–	3	–	–	2
110–120–130	7	–	–	–	–	–	3	2	–	–	–	–	–	1	1	–	–	–	–	–	0	4	–	–	–	–	–	1
140–150–160	5	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	–	–	–	–	1
170–180–190	9	2	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5	–	–	–	–	–	1
200–210–220	11	2	0	–	–	–	4	4	0	–	–	–	–	1	–	–	–	–	–	–	–	3	3	1	–	–	–	2
230–240–250	19	8	1	–	–	–	7	8	0	0	1	–	–	1	–	–	2	–	–	–	1	5	3	3	–	–	–	3
260–270–280	22	12	4	–	–	–	14	4	3	1	–	–	–	2	2	1	1	–	–	–	1	10	10	2	5	–	–	8
290–300–310	24	15	7	–	–	–	16	4	8	–	2	–	–	4	–	0	–	–	–	–	0	8	7	6	–	–	–	7
320–330–340	28	8	12	–	–	–	17	3	3	–	–	–	–	2	–	–	2	–	–	–	0	7	5	–	–	–	–	6
Ongeacht de richting	16	8	3	0	–	–	9	4	3	1	0	–	–	2	1	0	0	–	–	–	1	6	3	1	1	–	–	4
Windstil	20							4							4							7						

TABEL 3b

juni-juli-augustus

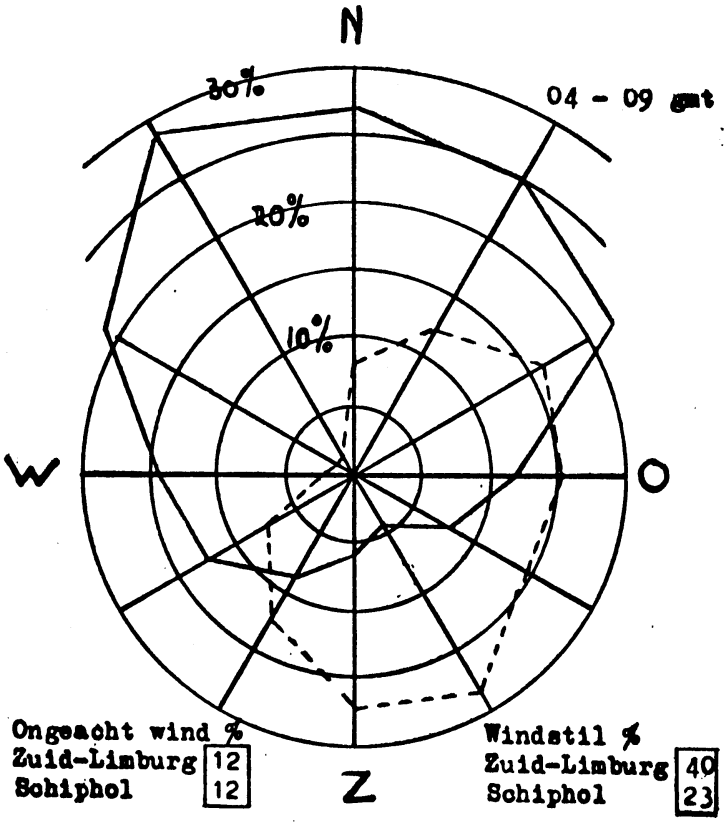
TIJDVAK	0400–0900 gmt							1000–1500 gmt							1600–2100 gmt							2200–0300 gmt						
Snelheid in knopen / Richting in graden	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid	1–5	6–10	11–15	16–20	21–25	> 25	ongeacht snelheid
350–360–010	21	7	–	–	–	–	14	2	1	–	–	–	–	1	1	–	–	–	–	–	0	7	7	10	–	–	–	7
020–030–040	16	7	4	–	–	–	10	–	1	–	–	–	–	0	–	1	–	–	–	–	0	3	3	–	–	–	–	3
050–060–070	9	5	2	–	–	–	6	–	1	–	–	–	–	0	1	1	–	–	–	–	1	4	2	10	–	–	–	4
080–090–100	8	1	–	–	–	–	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4	–	–	–	–	–	2
110–120–130	2	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
140–150–160	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	1	–	–	–	–	0
170–180–190	7	1	–	–	–	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	0	–	–	–	–	1
200–210–220	7	2	1	–	–	–	3	–	1	1	–	–	–	1	–	1	–	–	–	–	0	2	0	1	–	–	–	1
230–240–250	9	1	–	–	–	–	2	0	0	1	–	–	–	0	–	0	–	–	–	–	0	4	1	–	–	–	–	2
260–270–280	12	6	1	–	–	–	8	0	0	1	–	–	–	0	–	0	–	–	–	–	0	11	8	4	–	–	–	9
290–300–310	13	15	12	–	–	–	14	1	0	–	–	–	–	0	–	–	–	–	–	–	–	5	13	–	–	–	–	9
320–330–340	11	11	–	–	–	–	10	–	1	4	–	–	–	1	–	–	–	–	–	–	–	6	9	–	–	–	–	7
Ongeacht de richting	9	3	1	–	–	–	5	0	0	1	–	–	–	0	–	0	–	–	–	–	0	4	2	1	–	–	–	3
Windstil	15							0							0							3						

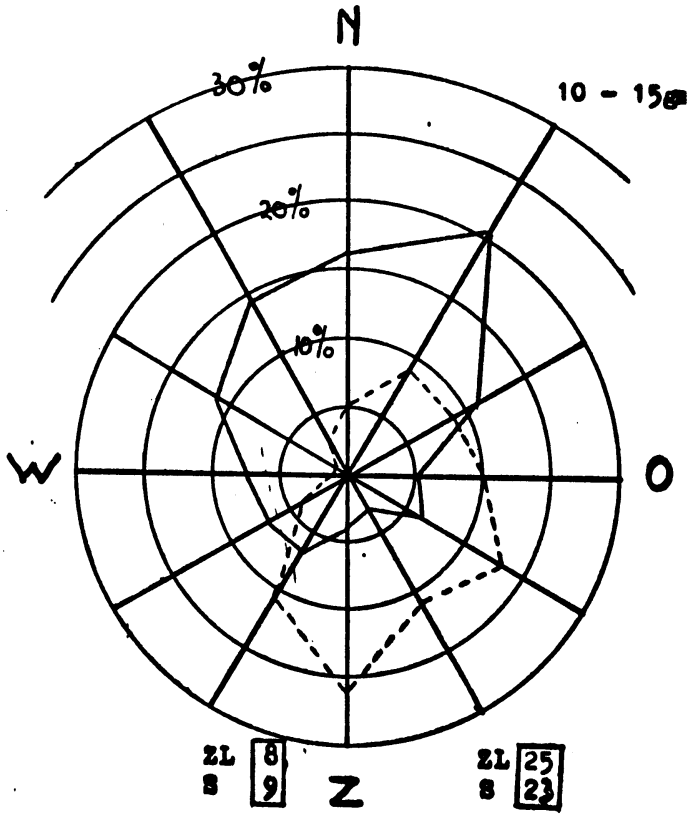
TABEL 3b

september-oktober-november

TIJDVAK	0400-0900 gmt							1000-1500 gmt							1600-2100 gmt							2200-0300 gmt						
Snelheid in knopen / Richting in graden	1-5	6-10	11-15	16-20	21-25	> 25	ongeacht snelheid	1-5	6-10	11-15	16-20	21-25	> 25	ongeacht snelheid	1-5	6-10	11-15	16-20	21-25	> 25	ongeacht snelheid	1-5	6-10	11-15	15-20	21-25	> 25	ongeacht snelheid
350-360-010	37	34	13	33	-	-	32	10	8	4	-	-	-	8	12	9	6	-	-	-	10	36	3	-	-	-	-	20
020-030-040	46	22	6	-	-	-	27	16	8	5	-	-	-	10	11	5	24	-	-	-	10	23	8	-	-	-	-	14
050-060-070	28	16	5	-	-	-	18	9	6	2	-	-	-	5	9	9	3	-	-	-	8	40	11	8	33	-	-	21
080-090-100	23	10	8	-	-	-	13	7	1	2	-	-	-	2	9	3	-	-	-	-	4	20	5	3	-	-	-	8
110-120-130	7	1	-	-	-	-	4	2	-	-	-	-	-	1	3	-	-	-	-	-	1	5	2	5	-	-	-	4
140-150-160	6	1	1	-	-	-	3	5	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-	3
170-180-190	17	4	1	-	-	-	5	2	0	-	-	-	-	0	3	1	-	-	-	-	1	7	2	0	-	-	-	3
200-210-220	21	8	1	-	-	-	7	8	2	0	1	-	-	2	8	1	-	2	-	-	2	15	5	0	-	-	-	5
230-240-250	24	5	1	-	-	-	7	10	1	0	-	-	-	2	7	2	-	-	-	-	3	18	4	2	2	-	-	7
260-270-280	25	5	1	-	-	-	9	9	2	1	-	-	-	3	8	2	-	-	-	-	4	14	10	-	-	-	-	10
290-300-310	32	4	-	-	-	-	16	12	2	-	-	-	-	4	13	4	-	-	-	-	8	23	12	10	-	-	-	17
320-330-340	36	8	-	-	-	-	18	10	1	7	-	-	-	5	11	5	19	-	-	-	9	17	24	-	-	-	-	19
Ongeacht de richting	21	8	2	0	-	-	10	9	2	1	0	-	-	3	7	2	1	1	-	-	4	16	5	1	1	-	-	8
Windstil	30							17							11							29						

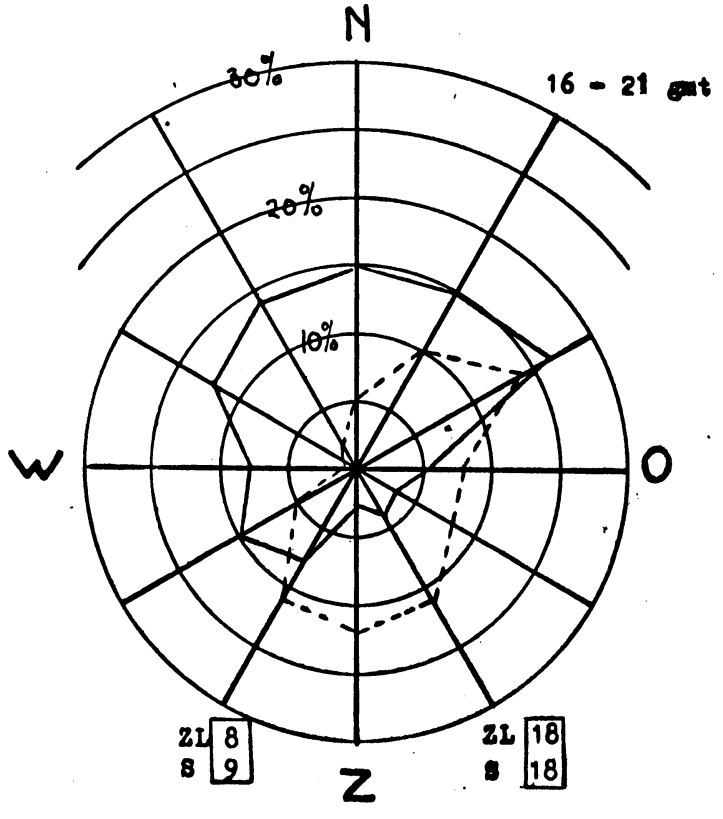
GRAFIEK

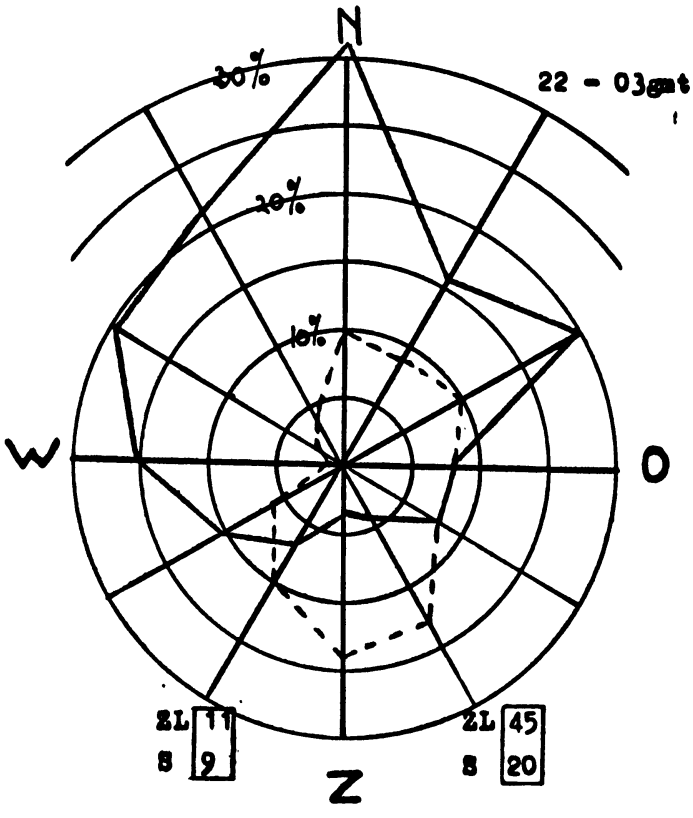




Schiphol
- - - - (1949 t/m 1960)

DECEMBER-JANUARI-FEBRUARI





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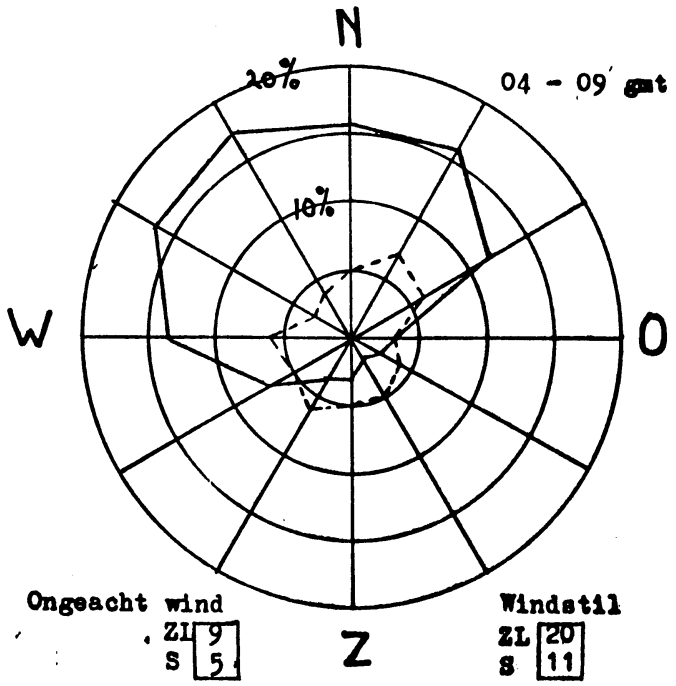


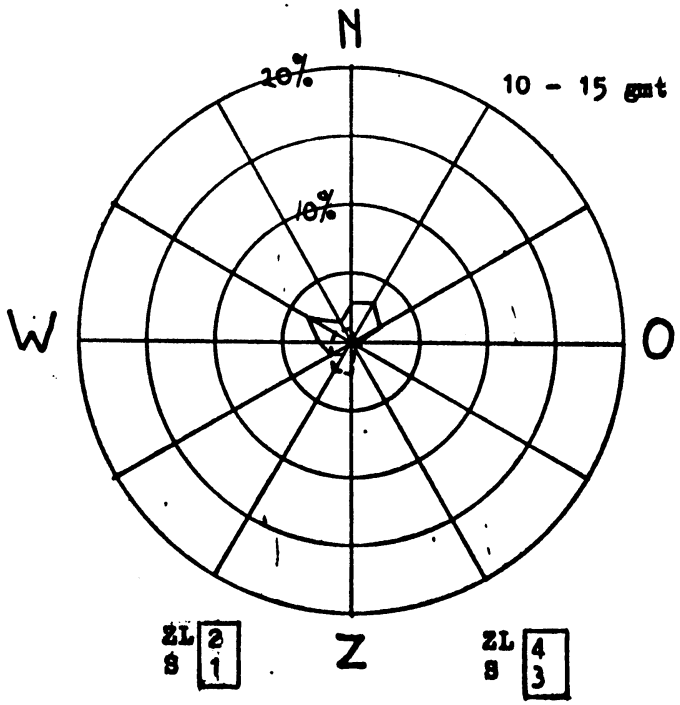
04 - 09 gmt

Ongeacht wind

ZL 9
S 5

Windstil

ZL 20
S 11



10 - 15 gmt

ZL 2
S 1

ZL 4
S 3

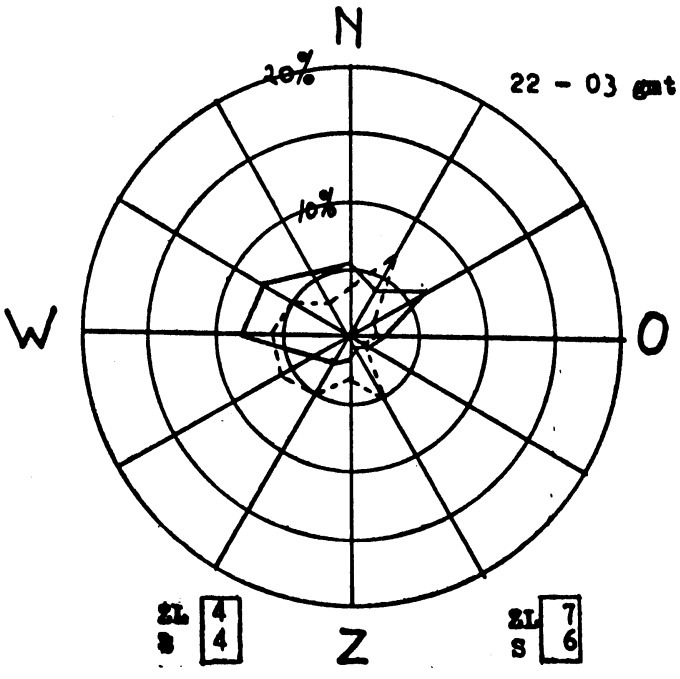
MAART-APRIL-MEI

16 - 21 gmt

(Geringe percentages)

ZL 1
S 1

ZL 4
S 2

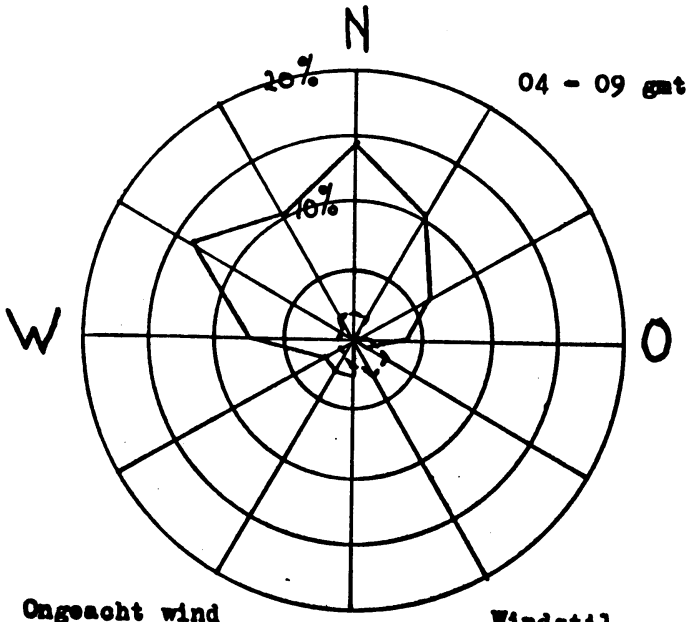


22 - 03 gmt

ZL 4
S 4

ZL 7
S 6

GRAFIEK



04 - 09 gmt

Ongeacht wind
ZL 5
S 2

Windstil
ZL 15
S 4

10 - 15

(Geringe percentages)

ZL 0
S 0

ZL 0
S 0

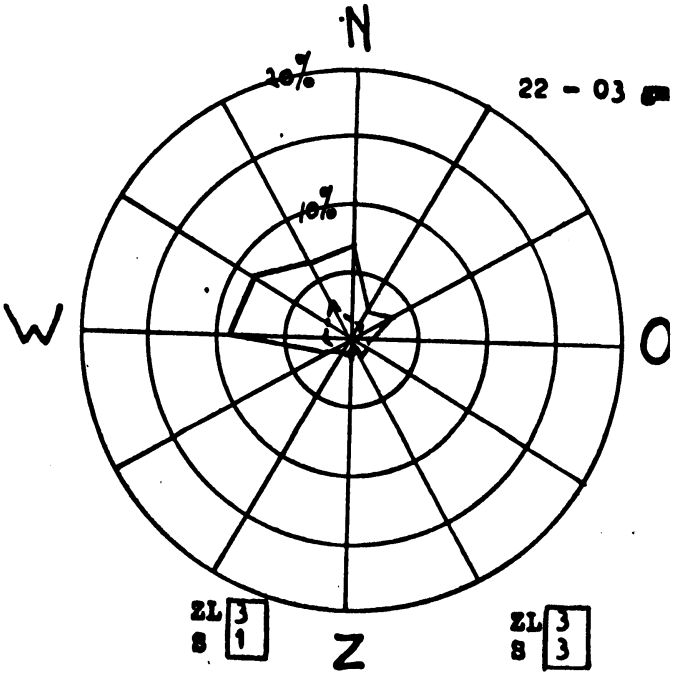
JUNI-JULI-AUGUSTUS

16 - 21 gmt

(Geringe percentages)

ZL 0
S 0

ZL 0
S 0

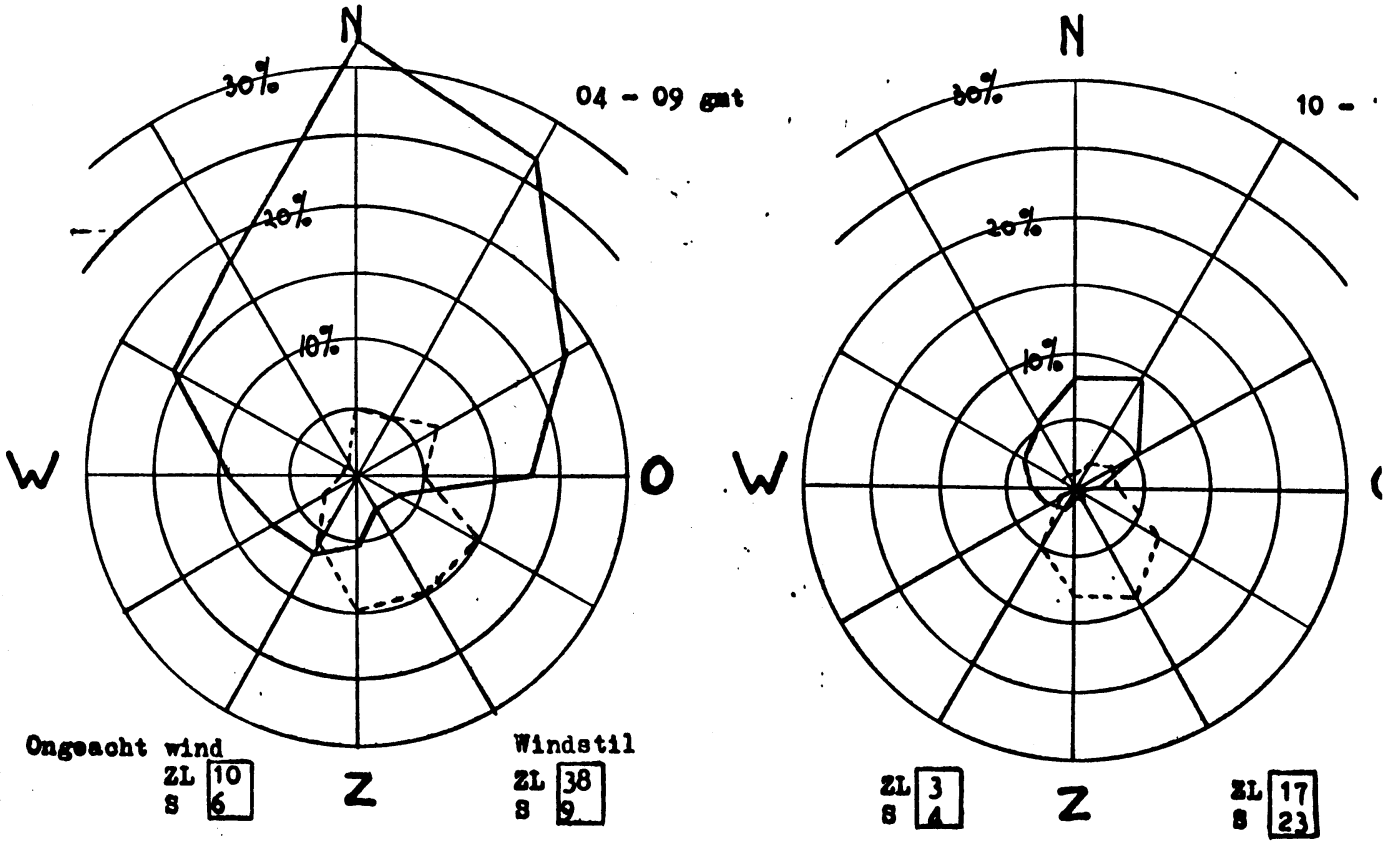


22 - 03 gm

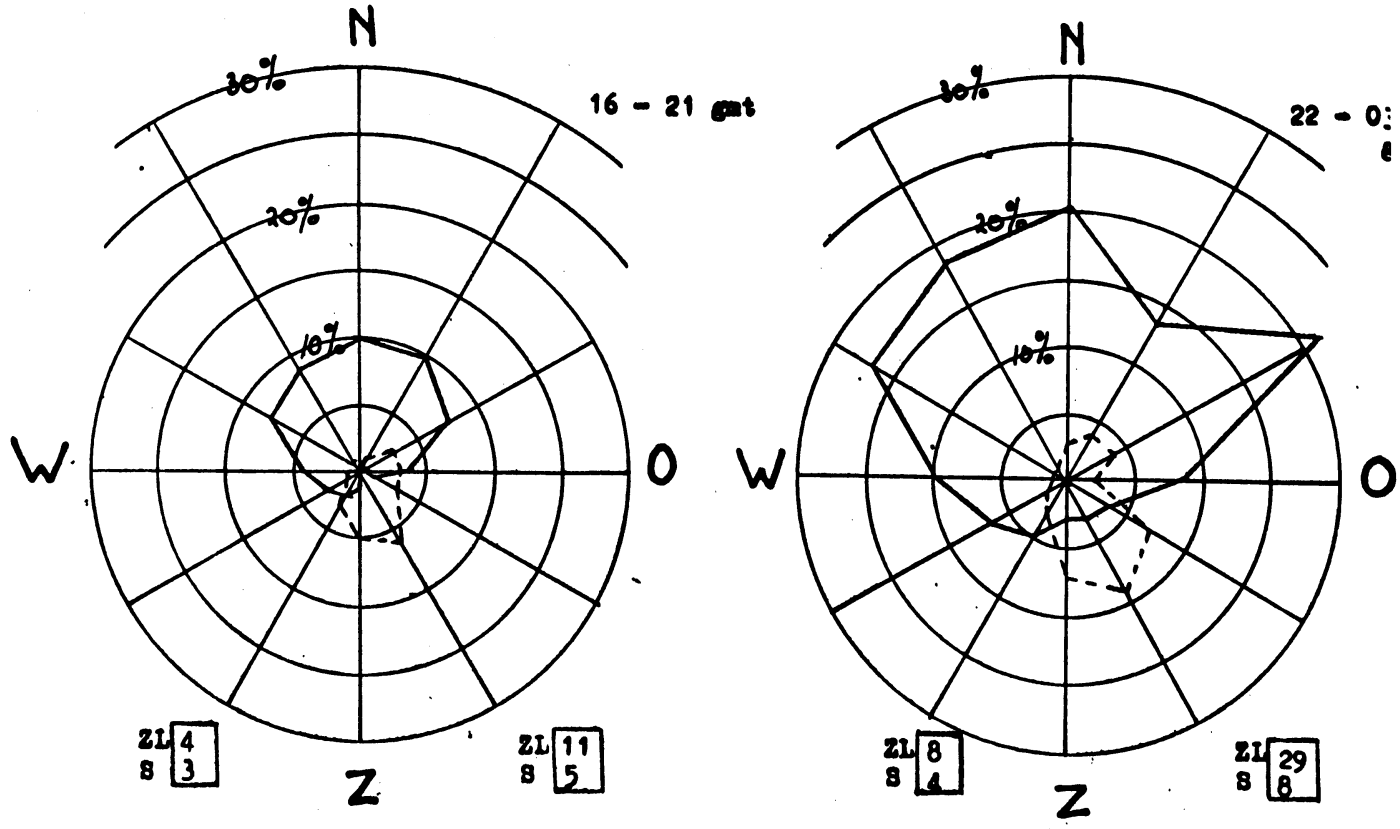
ZL 3
S 1

ZL 3
S 3

GRAFIEK



SEPTEMBER-OKTOBER-NOVEMBER



TABEL 4

PERIODEN / duur in uren	DECEMBER				JANUARI				FEBRUARI				MAART			
	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03
1	8	6	3	7	11	7	5	5	11	4	8	11	10	4	4	6
2	5	3	6	4	7	5	2	6	7	1	2	3	7			2
3	6		2	2	7	2	3	4	6	2	2	5	6			
4	5	1	2	2	4		3	1	4	1	1	4	3		1	1
5	2	1	1	3	2	1	1		4				5			5
6	1	1	3	2	2	1		2		2		1	2		1	
7	1				1		1	1				1	4			1
8	1	1		1	1			1	2			1	1			1
9	2		1				2					1	1			2
10			1		1						1	3				4
11	2											1				5
12	1	1	1					1							1	2
13	1	2	2					1			2	1				
14			1	1	1			1	1			1				1
15		1		1											1	2
16		1	1	2			1	1							1	1
17							1				1					
18								1								
19							1									
20								1								
21														1		
22																
23	1	1	1	1												
24																
25																
26			1					1								
27									1			1				
•																
•																
34								1								
35							1									
36			1													
37				1	1											
•																
•											s					
40			1													
•																
•																
43						1										
44															1	
•																
•																
•																
86						1										
Totaal	36	18	28	27	38	18	21	28	35	10	17	34	39	5	10	33

TABEL 4

PERIODEN / duur in uren	APRIL				MEI				JUNI				JULI			
	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03	04 – 09	10 – 15	16 – 21	22 – 03
1	5	2	1		9		1	3	6	2	1	4	8	1	2	3
2	10			2	4			2	3			5	1		1	3
3	4	1		3	3			1	2			2	2			3
4				2	3			2	1			1	1			2
5	1			3	1								1			
6	3							1				3	1			2
7	1			3				5								2
8	1			1				1								2
9				1												
10																1
11																
12												1			1	
Totaal	25	3	1	15	20		1	15	12	2	1	16	14	1	4	18

TABEL 4

PERIODEN / duur in uren	AUGUSTUS				SEPTEMBER				OKTOBER				NOVEMBER			
	04 - 09	10 - 15	16 - 21	22 - 03	04 - 09	10 - 15	16 - 21	22 - 03	04 - 09	10 - 15	16 - 21	22 - 03	04 - 09	10 - 15	16 - 21	22 - 03
1	5			7	9			4	7	1	5	7	12	7	8	5
2	3			2	3		2	5	6	1	3	4	6	4	3	3
3	4			2	2	1	1	1	2		1	3	5	1	3	5
4				3	3			3	3			1	5	2	2	2
5	2			5	2		1	2	7						1	2
6	1			2	1		1	2	1			1				
7				1			1	3			3	5				3
8					1			1	1	1		2	1		4	4
9				1				2				6			1	2
10				1								6	1	1	1	2
11								1			4	2		1	1	
12							1				1	1				1
13								1							1	1
14									1		1					1
15											1				1	
16																
17											3					
18													2			
19											1					
20											1					
.																
.																
23										1						
.																
25															1	1
26													1			
.																
.																
.																
37													1			
.																
.																
40							1									
.																
.																
44											1					
.																
.																
59															1	1
Totaal	15			24	21	1	8	25	28	4	25	38	34	16	28	31