# Readme file – Digital maps on Recommendation ITU-R P.840-9

Digital maps of worldwide annual and monthly statistics of integrated cloud liquid water content, , in kg/m2, or, equivalently, mm, are an integral part of this Recommendation with the characteristics shown in Tables 1 and 2.

Digital maps of the worldwide annual statistics of integrated cloud liquid water content, , approximated by a log-normal distribution are an integral part of this Recommendation with the characteristics shown in Tables 1 and 3.

Specifically:

– map files with “L” in the title contain the values of mean integrated cloud liquid water content, , standard deviation of integrated cloud liquid water content, , and integrated cloud liquid water content vs. exceedance probability, (p);

– the map file with “mL” in the title contains the values of the mean parameter, , of the log-normal probability distribution of integrated cloud liquid water content;

– the map file with “sL” in the title contains the values of the standard deviation parameter, , of the log-normal probability distribution of integrated cloud liquid water content; and

– the map file with “PL” in the title contains the values of the probability of cloud (positive integrated cloud liquid water content).

Table 1

Map file characteristics

|  |  |
| --- | --- |
| Parameter | Value |
| Format | ASCII |
| Upper left corner latitude | −90° N |
| Latitude increment | +0.25° |
| Upper left corner longitude | −180° E |
| Longitude increment | +0.25° |
| Number of rows | 721 |
| Number of columns | 1 441 |
| Column separator | Space |
| Row separator | Windows (CR LF) |

Table 2

Annual and monthly integrated cloud liquid water content maps  
(XX: Jan = 01; Feb = 02; …; Nov = 11; Dec = 12)

| Parameter | | Annual integrated cloud liquid water content (kg/m2 or mm) | Monthly integrated cloud liquid water content (kg/m2 or mm) |
| --- | --- | --- | --- |
| Mean | | L\_mean.TXT | L\_mean.TXT |
| Standard deviation | | L\_std.TXT | L\_std.TXT |
| Exceedance probability (CCDF) | 0.01% | L\_001.TXT | - |
| 0.02% | L\_002.TXT | - |
| 0.03% | L\_003.TXT | - |
| 0.05% | L\_005.TXT | - |
| 0.1% | L\_01.TXT | L\_01.TXT |
| 0.2% | L\_02.TXT | L\_02.TXT |
| 0.3% | L\_03.TXT | L\_03.TXT |
| 0.5% | L\_05.TXT | L\_05.TXT |
| 1% | L\_1.TXT | L\_1.TXT |
| 2% | L\_2.TXT | L\_2.TXT |
| 3% | L\_3.TXT | L\_3.TXT |
| 5% | L\_5.TXT | L\_5.TXT |
| 10% | L\_10.TXT | L\_10.TXT |
| 20% | L\_20.TXT | L\_20.TXT |
| 30% | L\_30.TXT | L\_30.TXT |
| 50% | L\_50.TXT | L\_50.TXT |
| 60% | L\_60.TXT | L\_60.TXT |
| 70% | L\_70.TXT | L\_70.TXT |
| 80% | L\_80.TXT | L\_80.TXT |
| 90% | L\_90.TXT | L\_90.TXT |
| 95% | L\_95.TXT | L\_95.TXT |
| 99% | L\_99.TXT | L\_99.TXT |
| 100% | L\_100.TXT | L\_100.TXT |
| File Name | | L\_Annual.zip | L\_MonthXX.zip |
| Integral product file name | | Annual: [N1-P01\_Annual.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P01!ZIP-E.zip) | Month01: [N1-P02\_Month01.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P02!ZIP-E.zip)  Month02: [N1-P03\_Month02.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P03!ZIP-E.zip)  Month03: [N1-P04\_Month03.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P04!ZIP-E.zip)  Month04: [N1-P05\_Month04.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P05!ZIP-E.zip)  Month05: [N1-P06\_Month05.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P06!ZIP-E.zip)  Month06: [N1-P07\_Month06.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P07!ZIP-E.zip)  Month07: [N1-P08\_Month07.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P08!ZIP-E.zip)  Month08: [N1-P09\_Month08.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P09!ZIP-E.zip)  Month09: [N1-P10\_Month09.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P10!ZIP-E.zip)  Month10: [N1-P11\_Month10.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P11!ZIP-E.zip)  Month11: [N1-P12\_Month11.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P12!ZIP-E.zip)  Month12: [N1-P13\_Month12.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P13!ZIP-E.zip) |

Table 3

Annual statistics of integrated cloud liquid water content  
approximated by a log-normal distribution

|  |  |
| --- | --- |
| Parameter | Annual log-normal approximation |
| Log-normal mean | mL.TXT |
| Log-normal standard deviation | sL.TXT |
| Probability of cloud | PL.TXT |
| File name | LogN\_Annual.zip |
| Integral product file name | [N1-P14\_LogN\_Annual.zip](https://www.itu.int/dms_ties/itu-r/md/19/wp3j/c/R19-WP3J-C-0254!N1-P14!ZIP-E.zip) |