

Literatuurlijst:

1. opbouw atmosfeer - LessonUp, geopend op april 14, 2025, <https://www.lessonup.com/nl/lesson/cgYK6mT6JPzz3u62i>
2. Mesosfeer (atmosfeer) - Wikipedia, geopend op april 14, 2025, [https://nl.wikipedia.org/wiki/Mesosfeer_\(atmosfeer\)](https://nl.wikipedia.org/wiki/Mesosfeer_(atmosfeer))
3. Dampkring - KNMI, geopend op april 14, 2025, <https://www.knmi.nl/kennis-en-datacentrum/uitleg/dampkring>
4. Mesosfeer, de koudste laag van de aardatmosfeer | Koninklijk ..., geopend op april 14, 2025, <https://www.aeronomie.be/nl/encyclopedie/mesosfeer-koudste-laag-aardatmosfeer>
5. Layers of the Atmosphere - NOAA, geopend op april 14, 2025, <https://www.noaa.gov/jetstream/atmosphere/layers-of-atmosphere>
6. Mesosphere - Wikipedia, geopend op april 14, 2025, <https://zh.wikipedia.org/zh-cn/en:mesosphere>
7. Earth's Atmosphere: A Multi-layered Cake - NASA Science, geopend op april 14, 2025, <https://science.nasa.gov/earth/earth-atmosphere/earths-atmosphere-a-multi-layered-cake/>
8. Ontdek de verschillende luchtlagen in de atmosfeer - NoodweerBenelux, geopend op april 14, 2025, <https://www.noodweer.be/verschillende-luchtlagen-atmosfeer/>
9. Mesosphere, coldest layer of Earth's atmosphere | Royal Belgian Institute for Space Aeronomy, geopend op april 14, 2025, <https://aeronomie.be/en/encyclopedia/mesosphere-coldest-layer-earths-atmosphere>
10. 18.2: Outer Regions of the Atmosphere - Chemistry LibreTexts, geopend op april 14, 2025, [https://chem.libretexts.org/Bookshelves/General_Chemistry/Map%3A_Chemistry_-_The_Central_Science_\(Brown_et_al.\)/18%3A_Chemistry_of_the_Environment/18.02%3A_Outer_Regions_of_the_Atmosphere](https://chem.libretexts.org/Bookshelves/General_Chemistry/Map%3A_Chemistry_-_The_Central_Science_(Brown_et_al.)/18%3A_Chemistry_of_the_Environment/18.02%3A_Outer_Regions_of_the_Atmosphere)
11. Layers of the Atmosphere | Physical Geography - Lumen Learning, geopend op april 14, 2025, <https://courses.lumenlearning.com/suny-geophysical/chapter/layers-of-the-atmosphere/>
12. Mesosphere (Read) | Earth Science | CK-12 Foundation, geopend op april 14, 2025, <https://www.ck12.org/earth-science/mesosphere-1501910424.37/lesson/Mesosphere-HS-ES/>
13. Layers of Earth's Atmosphere - UCAR Center for Science Education, geopend op april 14, 2025, <https://scied.ucar.edu/learning-zone/atmosphere/layers-earths-atmosphere>
14. Mesosphere | CK-12 Foundation, geopend op april 14, 2025, <https://flexbooks.ck12.org/cbook/ck-12-middle-school-earth-science-flexbook-2.>

- [0/section/10.7/primary/lesson/mesosphere-ms-es/](#)
15. The Mesosphere - UCAR Center for Science Education, geopend op april 14, 2025, <https://scied.ucar.edu/learning-zone/atmosphere/mesosphere>
 16. Mesosphere - (Intro to Astronomy) - Vocab, Definition, Explanations | Fiveable, geopend op april 14, 2025, <https://fiveable.me/key-terms/intro-astronomy/mesosphere>
 17. Mesopauze - Wikipedia, geopend op april 14, 2025, <https://nl.wikipedia.org/wiki/Mesopauze>
 18. Mesosphere | EBSCO Research Starters, geopend op april 14, 2025, <https://www.ebsco.com/research-starters/earth-and-atmospheric-sciences/mesosphere>
 19. Aardatmosfeer - Wikipedia, geopend op april 14, 2025, <https://nl.wikipedia.org/wiki/Aardatmosfeer>
 20. Noctilucent cloud - Wikipedia, geopend op april 14, 2025, https://en.wikipedia.org/wiki/Noctilucent_cloud
 21. Noctilucent clouds: A complete guide to the rare 'night-shining' clouds - Space.com, geopend op april 14, 2025, <https://www.space.com/noctilucent-clouds>
 22. chem.libretexts.org, geopend op april 14, 2025, [https://chem.libretexts.org/Bookshelves/General_Chemistry/Map%3A_Chemistry_-_The_Central_Science_\(Brown_et_al.\)/18%3A_Chemistry_of_the_Environment/18.02%3A_Outer_Regions_of_the_Atmosphere#:~:text=The%20mesosphere%20is%20extremely%20cold,air%20pressure%20is%20very%20low.](https://chem.libretexts.org/Bookshelves/General_Chemistry/Map%3A_Chemistry_-_The_Central_Science_(Brown_et_al.)/18%3A_Chemistry_of_the_Environment/18.02%3A_Outer_Regions_of_the_Atmosphere#:~:text=The%20mesosphere%20is%20extremely%20cold,air%20pressure%20is%20very%20low.)
 23. CHAPTER 2. ATMOSPHERIC PRESSURE - Projects at Harvard, geopend op april 14, 2025, https://projects.iq.harvard.edu/files/acmg/files/intro_atmo_chem_bookchap2.pdf
 24. Clouds Introductory Activity: Atmospheric Pressure - NASA GISS, geopend op april 14, 2025, <https://www.giss.nasa.gov/edu/icp/education/cloudintro/pressure.html>
 25. Earth's atmosphere - Knowino, geopend op april 14, 2025, https://www.theochem.ru.nl/~pwormer/Knowino/knowino.org/wiki/Earth%27s_atmosphere.html
 26. Earth's Atmosphere - Skywave Radio Handbook, geopend op april 14, 2025, <http://www.skywave-radio.org/wp-content/uploads/2024/12/10-Atmosphere-v03.pdf>
 27. Atmosfeer - Meteo Maarssen, geopend op april 14, 2025, https://www.meteo-maarssen.nl/atm_atmosfeer.html
 28. Instabiliteiten rond de straalstroom - KNMI, geopend op april 14, 2025, <https://cdn.knmi.nl/knmi/pdf/bibliotheek/knmipubTR/TR117.pdf>
 29. Mesosphere | Atmospheric Dynamics, Temperature, Pressure ..., geopend op april 14, 2025, <https://www.britannica.com/science/mesosphere>
 30. library.fiveable.me, geopend op april 14, 2025, <https://library.fiveable.me/key-terms/introduction-environmental-science/mesosphere#:~:text=This%20layer%20is%20difficult%20to,a%20significant%20temperature%20inversion%20point.>

31. Toward More Realistic Modeling of the Mesosphere - Eos.org, geopend op april 14, 2025,
<https://eos.org/research-spotlights/toward-more-realistic-modeling-of-the-mesosphere>
32. Aardatmosfeer - Meteo Julianadorp, geopend op april 14, 2025,
<https://www.meteo-julianadorp.nl/Meteorologie-A-Z/Meteorologie-A/Aardatmosfeer.html>
33. Layers of the Atmosphere Flashcards - Quizlet, geopend op april 14, 2025,
<https://quizlet.com/115529366/layers-of-the-atmosphere-flash-cards/>
34. quizlet.com, geopend op april 14, 2025,
<https://quizlet.com/115529366/layers-of-the-atmosphere-flash-cards/#:~:text=The%20temperature%20decreases%20in%20the,air%20in%20this%20layer%20decreases.>
35. The Mesosphere and Metals: Chemistry and Changes | Chemical Reviews, geopend op april 14, 2025, <https://pubs.acs.org/doi/10.1021/cr500501m>
36. Which Gases Make Up Earth's Atmosphere? - Climate Science Investigations South Florida - Energy: The Driver of Climate, geopend op april 14, 2025,
<https://www.ces.fau.edu/nasa/module-2/atmosphere/earth.php>
37. 10.4: Layers of the Atmosphere - Geosciences LibreTexts, geopend op april 14, 2025,
[https://geo.libretexts.org/Courses/Lumen_Learning/Physical_Geography_\(Lumen\)/10%3A_The_Atmosphere/10.04%3A_Layers_of_the_Atmosphere](https://geo.libretexts.org/Courses/Lumen_Learning/Physical_Geography_(Lumen)/10%3A_The_Atmosphere/10.04%3A_Layers_of_the_Atmosphere)
38. Temperature of the Atmosphere | CK-12 Foundation, geopend op april 14, 2025,
<https://flexbooks.ck12.org/cbook/ck-12-middle-school-earth-science-flexbook-2.0/section/10.4/primary/lesson/temperature-of-the-atmosphere-ms-es/>
39. Een krimpde mesosfeer - Buienradar.nl - Actuele neerslag, weerbericht, weersverwachting, sneeuwradar en satellietbeelden, geopend op april 14, 2025,
<https://www.buienradar.nl/nederland/weerbericht/blog/een-krimpde-mesosfeer-48ca88>
40. Lesson of the Day: Noctilucent Clouds - Mount Washington Observatory, geopend op april 14, 2025,
<https://mountwashington.org/lesson-of-the-day-noctilucent-clouds/>
41. Noctilucent Clouds, Norway - Atmospheric Optics, geopend op april 14, 2025,
<https://atoptics.co.uk/blog/noctilucent-clouds-norway-2/>
42. Taking AIM at Night-Shining Clouds: 10 Years, 10 Science Highlights - NASA, geopend op april 14, 2025,
<https://www.nasa.gov/solar-system/taking-aim-at-night-shining-clouds-10-years-10-science-highlights/>
43. Noctilucent clouds | EBSCO Research Starters, geopend op april 14, 2025,
<https://www.ebsco.com/research-starters/earth-and-atmospheric-sciences/noctilucent-clouds>
44. Progress in investigating long-term trends in the mesosphere, thermosphere, and ionosphere - ACP - Recent, geopend op april 14, 2025,
<https://acp.copernicus.org/articles/23/5783/>
45. Progress in investigating long-term trends in the mesosphere, thermosphere, and

ionosphere, geopend op april 14, 2025,

https://www.ufa.cas.cz/DATA/publikace/2023_La%C5%A1tovi%C4%8Dka_Progress%20in%20investigating%20longterm%20trends%20in%20the%20mesosphere%20thermosphere%20and%20ionosphere.pdf

46. Recent Developments and Future Directions in Studying the Chemistry of the Mesosphere and Lower Thermosphere - EGUsphere, geopend op april 14, 2025, <https://egusphere.copernicus.org/preprints/2023/egusphere-2023-680/egusphere-2023-680-ATC2.pdf>
47. Opinion: Recent developments and future directions in studying the mesosphere and lower thermosphere, geopend op april 14, 2025, <https://acp.copernicus.org/articles/23/13255/>
48. The Mesosphere and Metals: Chemistry and Changes - PMC - PubMed Central, geopend op april 14, 2025, <https://pmc.ncbi.nlm.nih.gov/articles/PMC4448204/>
49. Ionospheric composition and chemistry | Space Physics Class Notes - Fiveable, geopend op april 14, 2025, <https://library.fiveable.me/space-physics/unit-7/ionospheric-composition-chemistry/study-guide/z6Gt6YAy8Aa56Vcl>
50. Ionosphere - Wikipedia, geopend op april 14, 2025, <https://en.wikipedia.org/wiki/Ionosphere>
51. Physical Model of D-Region Ionosphere and Preliminary Comparison with IRI and Data of MF Radar at Kunming - MDPI, geopend op april 14, 2025, <https://www.mdpi.com/2073-4433/14/2/235>
52. Parelmoerwolken in Nederland - Buienradar.nl - Actuele neerslag, weerbericht, weersverwachting, sneeuwradar en satellietbeelden, geopend op april 14, 2025, <https://www.buienradar.nl/nederland/weerbericht/blog/parelmoerwolken-in-nederland-51e2dd>
53. Kans op zeldzame parelmoerwolken | Weerplaza.nl, geopend op april 14, 2025, <https://www.weerplaza.nl/weerinhethetnieuws/kans-op-zeldzame-parelmoerwolken/2769/>
54. Mesosphere and Lower Thermosphere: New Diagnostic Methods and Recent Observations, geopend op april 14, 2025, https://www.mdpi.com/journal/atmosphere/special_issues/mesosphere
55. Mesosphere - (Intro to Environmental Science) - Vocab, Definition, Explanations | Fiveable, geopend op april 14, 2025, <https://library.fiveable.me/key-terms/introduction-environmental-science/mesosphere>
56. Study of the Mesosphere and Lower Thermosphere by the Method of Creating Artificial Periodic Irregularities of the Ionospheric Plasma - MDPI, geopend op april 14, 2025, <https://www.mdpi.com/2073-4433/13/9/1346>
57. A Long-Term Record of Upper Stratospheric and Mesospheric Temperature Profiles, geopend op april 14, 2025, <https://www.earthdata.nasa.gov/about/competitive-programs/measures/long-term-record-upper-stratospheric-mesospheric-temperature-profiles>
58. Satellite observations - Projects - KNMI Research, geopend op april 14, 2025, <https://www.knmi.nl/research/satellite-observations>

59. De atmosfeer | Weerplaza.nl, geopend op april 14, 2025,
<https://www.weerplaza.nl/weerinhethetnieuws/weerweetjes/de-atmosfeer/8837/>

