

- [1] 6.12 what about scattering? 6.12 What about scattering? | METEO 300: Fundamentals of Atmospheric Science. (n.d.). Retrieved December 8, 2021, from <https://www.e-education.psu.edu/meteo300/node/785>.
- [2] Abud, M. M. (2018). Measure of backscatter for small particles of atmosphere by lasers. *Journal of Physics: Conference Series*, 1003, 012079. <https://doi.org/10.1088/1742-6596/1003/1/012079>
- [3] Adam, M. (n.d.). DEVELOPMENT OF LIDAR TECHNIQUES TO ESTIMATE ATMOSPHERIC OPTICAL PROPERTIES . *Jscholarship*. Retrieved from [https://jscholarship.library.jhu.edu/bitstream/handle/1774.2/851/mariana\\_thesis.pdf](https://jscholarship.library.jhu.edu/bitstream/handle/1774.2/851/mariana_thesis.pdf).
- [4] byhsotr, P. (2021, December 4). *How plains tribes predicted The weather*. Homestead on the Range. Retrieved December 8, 2021, from <https://homesteadontherange.com/2020/07/29/how-plains-tribes-predicted-the-weather/>.
- [5] Cartier, K. M. S. (2021, October 8). *Keeping indigenous science knowledge out of a colonial mold*. Eos. Retrieved December 8, 2021, from <https://eos.org/articles/keeping-indigenous-science-knowledge-out-of-a-colonial-mold>.
- [6] Ceolato, R., & Berg, M. J. (2021). Aerosol Light Extinction and backscattering: A review with a lidar perspective. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 262, 107492. <https://doi.org/10.1016/j.jqsrt.2020.107492>
- [7] Chugach Heritage. (n.d.). *Traditional weather forecasting - Chugachmiut heritage preservation*. Chugach Heritage. Retrieved December 8, 2021, from <https://chugachheritageak.org/traditional-weather-forecasting>.
- [8] David-Chavez, D. M., Valdez, S., Estevez, J. B., Meléndez Martínez, C., Garcia, A. A., Josephs, K., & Troncoso, A. (2020). Community-based (rooted) research for regeneration: Understanding benefits, barriers, and resources for Indigenous Education and Research. *AlterNative: An International Journal of Indigenous Peoples*, 16(3), 220–232. <https://doi.org/10.1177/1177180120952896>
- [9] Donovan, D. P., & van Lammeren, A. C. (2001). Cloud effective particle size and water content profile retrievals using combined Lidar and RADAR OBSERVATIONS: 1. theory and examples. *Journal of Geophysical Research: Atmospheres*, 106(D21), 27425–27448. <https://doi.org/10.1029/2001jd900243>
- [10] Dorf, R. C. (2014). *The Electrical Engineering Handbook*. CRC Press.
- [11] Duforêt-Gaurier, L., Moutier, W., Guiselin, N., Thyssen, M., Dubelaar, G., Mériaux, X., Courcot, L., Dessailly, D., & Loisel, H. (2015). Determination of backscattering cross section of individual particles from cytometric measurements: A new methodology. *Optics Express*, 23(24), 31510. <https://doi.org/10.1364/oe.23.031510>

- [12] Düsing, S., Ansmann, A., Baars, H., Corbin, J. C., Denjean, C., Gysel-Beer, M., Müller, T., Poulain, L., Siebert, H., Spindler, G., Tuch, T., Wehner, B., & Wiedensohler, A. (2021). Closure of in-situ measured aerosol backscattering and extinction coefficients with lidar accounting for relative humidity. <https://doi.org/10.5194/acp-2021-21>
- [13] Geisinger, A., Behrendt, A., Wulfmeyer, V., Strohbach, J., Förstner, J., & Potthast, R. (2017). Development and application of a backscatter lidar forward operator for quantitative validation of aerosol dispersion models and future data assimilation. *Atmospheric Measurement Techniques*, 10(12), 4705–4726. <https://doi.org/10.5194/amt-10-4705-2017>
- [14] *The highs and lows of air pressure*. The Highs and Lows of Air Pressure | UCAR Center for Science Education. (n.d.). Retrieved December 8, 2021, from <https://scied.ucar.edu/learning-zone/how-weather-works/highs-and-lows-air-pressure#:~:text=A%20low%20pressure%20system%20has,forming%20clouds%20and%20often%20precipitation.&text=Winds%20blow%20away%20from%20high%20pressure>.
- [15] *How do high and low weather systems work?* ABC (Australian Broadcasting Corporation). (2013, January 30). Retrieved December 8, 2021, from <https://www.abc.net.au/science/articles/2013/01/31/3679358.htm>.
- [16] *Probert-Jones Equation*. 35. the radar equation. (n.d.). Retrieved December 8, 2021, from [http://www.geosci.sfsu.edu/geosciences/classes/m415\\_715/Monteverdi/Radar/RadarEquation/decibels.htm#:~:text=Probert%2DJones%20Equation&text=\(Attenuation%20is%20the%20weakening%20of,is%20mm6m%20D3.&text=For%20example%20C%20if%20Z%203D%204000,10%20x%203.6%20%3D%2036%20dBZ](http://www.geosci.sfsu.edu/geosciences/classes/m415_715/Monteverdi/Radar/RadarEquation/decibels.htm#:~:text=Probert%2DJones%20Equation&text=(Attenuation%20is%20the%20weakening%20of,is%20mm6m%20D3.&text=For%20example%20C%20if%20Z%203D%204000,10%20x%203.6%20%3D%2036%20dBZ).
- [17] Sicard, M., Rodríguez-Gómez, A., Comerón, A., & Muñoz-Porcar, C. (2020). Calculation of the overlap function and associated error of an elastic lidar or a ceilometer: Cross-comparison with a cooperative overlap-corrected system. *Sensors*, 20(21), 6312. <https://doi.org/10.3390/s20216312>
- [18] Wang, Z., Borovoi, A., Konoshonkin, A., Kustova, N. V., Wang, B., Wu, D., Liu, D., Xie, C., & Wang, Y. (2020). The polarization characteristics of Cirrus Cloud using LIDAR and Radar in Hefei. *26th International Symposium on Atmospheric and Ocean Optics, Atmospheric Physics*. <https://doi.org/10.1117/12.2575821>
- [19] Springer. (2014). *Lidar*.
- [20] Bourdages, L., Duck, T. J., Lesins, G., Drummond, J. R., & Eloranta, E. W. (2009). Physical properties of high Arctic tropospheric particles during winter. *Atmospheric Chemistry and Physics*, 9(18), 6881–6897. <https://doi.org/10.5194/acp-9-6881-2009>