

Shading indicates stations or instruments that are currently considered to be “inactive”. This designation is assigned

- *when there has been a permanent cessation of measurements or*
- *when the measurement PI is no longer considered to be active in the NDACC due to the cessation of data archiving at the NDACC Data Host Facility and of communications with the NDACC Steering Committee.*

Ib. NDACC Long-Term Measurement Activities (Locations for each instrument type. See Section Ia for details.)

Dobson Spectrophotometers/Brewer Spectrometers

Sodankylä, Finland (67.37°N, 26.65°E)
Søndre Strømfjord, Greenland (66.99°N, 50.95°W)
DeBilt, The Netherlands (52.10°N, 5.18°E)
Valentia, Ireland (51.94°N, 10.25°W)
Uccle, Belgium (50.8°N, 4.35°E)
Hohenpeissenberg, Germany (47.80°N, 11.02°E)
Arosa, Switzerland (46.78°N, 9.68°E)
Observatoire de Bordeaux, France (44.83°N, 0.52°W)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Observatoire Midi-Pyrénées / Lannemezan, France (43.12°N, 0.38°E)
Boulder, CO, USA (39.99°N, 105.26°W)
Wallops Island, VA, USA (37.94°N, 75.46°W)
Izaña (Tenerife), Spain (28.30°N, 16.48°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Paramaribo, Surinam (5.75°N, 55.2°W)
Darwin Australia (12.42°S, 130.89°E)
Cape Matatula, American Samoa (14.25°S, 170.56°W)
Brisbane Australia (27.39°S, 153.13°E)
Melbourne Australia (37.67°S, 144.83°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Macquarie Island, Australia (54.50°S, 158.95°E)
Arrival Heights, Antarctica (77.83°S, 166.67°E)
South Pole Station, Antarctica (90.00°S)

FTIR

Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Kiruna, Sweden (67.84°N, 20.41°E)
Harestua, Norway (60.2°, 10.8°E)
St. Petersburg, Russia (59.9°N, 29.8°E)
Bremen, Germany (53.1°N, 8.8°E)
Zugspitze, Germany (47.42°N, 10.98°E)
Jungfrauoch, Switzerland (46.55°N, 7.98°E)
Moshiri, Japan (44.4°N, 142.3°E)

Toronto, Canada (43.66°N, 79.40°W)
Rikubetsu, Japan (43.46°N, 143.77°E)
Kitt Peak, AZ, USA (31.9°N, 111.6°W)
Izaña (Tenerife), Spain (28.30°N, 16.48°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Altzomoni, Mexico (19.12°N, 98.66°W)
Paramaribo, Surinam (5.75°N, 55.2°W)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Reunion Island, Maito, France (21.1°S, 55.4°E)
Wollongong, Australia (34.41°S, 150.88°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Arrival Heights, Antarctica (77.83°S, 166.67°E)

Lidar (Aerosol)

Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Garmisch, Germany (47.48°N, 11.06°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Toronto, Canada (43.66°N, 79.40°W)
Boulder, CO, USA (39.99°N, 105.26°W)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Reunion Island, Maito, France (21.1°S, 55.4°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Dumont d'Urville, Antarctica (66.67°S, 140.01°E)
Dôme C/ Concordia, Antarctica (France) (75.10°S, 123.35°E)
McMurdo Station, Antarctica (77.85°S, 166.63°E)

Lidar (Ozone)

Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Andøya, Norway (69.28°N, 16.01°E)
Hohenpeissenberg, Germany (47.80°N, 11.02°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Toronto, Canada (43.66°N, 79.40°W)
Tsukuba, Japan (36.05°N, 140.13°E)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Reunion Island, Maito, France (21.1°S, 55.4°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Rio Gallegos, Argentina (51.60°S, 69.32°W)
Dumont d'Urville, Antarctica (66.67°S, 140.01°E)

Lidar (Temperature)

Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Andøya, Norway (69.28°N, 16.01°E)
Søndre Strømfjord, Greenland (66.99°N, 50.95°W)
Hohenpeissenberg, Germany (47.80°N, 11.02°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Toronto, Canada (43.66°N, 79.40°W)
London, Ontario, Canada (43.1°N, 81.34°W)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Reunion Island, Maito, France (21.1°S, 55.4°E)

Formatted: Highlight

Lidar (Trop. Ozone)

Observatoire Haute Provence, France (43.94°N, 5.71°E)
Huntsville, AL, USA (34.73°N, 86.64°W)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Reunion Island, Maito, France (21.1°S, 55.4°E)

Lidar (Water Vapor)

Payerne, Switzerland (46.82°N, 6.95°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
London, Ontario, Canada (43.1°N, 81.34°W)
Rome – Tor Vergata, Italy (41.84°N, 12.65°E)
Potenza, Italy (40.63°N, 15.80°E)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Reunion Island, Maito, France (21.1°S, 55.4°E)

Microwave (ClO)

Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Mauna Kea, HI, USA (19.83°N, 155.48°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Scott Base, Antarctica (77.85°S, 166.78°E)

Microwave (HNO₃)

Thule, Greenland (76.53°N, 68.74°W)

Microwave (Ozone)

Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Bern, Switzerland (46.95°N, 7.45°E)
Payerne, Switzerland (46.82°N, 6.95°E)
Observatoire de Bordeaux, France (44.83°N, 0.52°W)
Rikubetsu, Japan (43.46°N, 143.77°E)
Table Mountain, CA, USA (34.4°N, 117.7°W)

Mauna Loa, HI, USA (19.54°N, 155.58°W)
Lauder, New Zealand (45.04°S, 169.68°E)

Microwave (Water Vapor)

Onsala, Sweden (57.4°N, 11.93°E)
Bern, Switzerland (46.95°N, 7.45°E)
Zimmerwald, Switzerland (46.88°N, 7.47°E)
Seoul, South Korea (37.58°N, 127.00°E)
Table Mountain, CA, USA (34.4°N, 117.7°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Lauder, New Zealand (45.04°S, 169.68°E)

Sondes (Aerosol)

Alert, Canada (82.50°N, 62.33°W)
Heiss Island, Russia (80.6°N, 58.1°E)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Dikson Island, Russia (73.50°N, 80.23°E)
Scoresbysund, Greenland (70.48°N, 21.97°W)
Kiruna, Sweden (67.84°N, 20.41°E)
Sodankylä, Finland (67.37°N, 26.65°E)
Yakutsk, Russia (62.0°N, 129.7°E)
Mineapolis, MN, USA (45.14°N, 93.21°W)
Laramie, WY, USA (41.32°N, 105.67°W)
Natal, Brazil (5.83°S, 35.20°W)
Mildura, Australia (34.19°S, 142.16°E)
Lauder, New Zealand (45.04°S, 169.68°E)
McMurdo Station, Antarctica (77.85°S, 166.63°E)
South Pole Station, Antarctica (90.00°S)

Sondes (Ozone)

Alert, Canada (82.50°N, 62.33°W)
Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Summit, Greenland (72.34°N, 38.29°W)
Scoresbysund, Greenland (70.48°N, 21.97°W)
Sodankylä, Finland (67.37°N, 26.65°E)
Salekhard, Russia (66.5°N, 66.7°E)
Yakutsk, Russia (62.0°N, 129.7°E)
Legionowo, Poland (52.40°N, 20.97°E)
Aberystwyth, UK (52.4°N, 4.1°W)
Lindenberg, Germany (52.21°N, 14.12°E)
DeBilt, The Netherlands (52.10°N, 5.18°E)
Uccle, Belgium (50.8°N, 4.35°E)
Praha, Czech Republic (50.01°N, 14.45°E)

Hohenpeissenberg, Germany (47.80°N, 11.02°E)
Payerne, Switzerland (46.82°N, 6.95°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Boulder, CO, USA (39.99°N, 105.26°W)
Wallops Island, VA, USA (37.94°N, 75.46°W)
Izaña (Tenerife), Spain (28.30°N, 16.48°W)
Hilo, HI, USA (19.72°N, 155.07°W)
Paramaribo, Surinam (5.75°N, 55.2°W)
Natal, Brazil (5.83°S, 35.20°W)
Cape Matatula, American Samoa (14.25°S, 170.56°W)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Melbourne Australia (37.67°S, 144.83°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Macquarie Island, Australia (54.50°S, 158.95°E)
Dumont d'Urville, Antarctica (66.67°S, 140.01°E)
Neumayer Station, Antarctica (70.62°S, 8.37°E)
McMurdo Station, Antarctica (77.85°S, 166.63°E)
Belgrano II Station, Antarctica (77.87°S, 34.62°W)
South Pole Station, Antarctica (90.00°S)

Sondes (Water Vapor)

Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Sodankylä, Finland (67.37°N, 26.65°E)
Lindenberg, Germany (52.21°N, 14.12°E)
Boulder, CO, USA (39.99°N, 105.26°W)
Hilo, HI, USA (19.72°N, 155.07°W)
San Jose, Costa Rica (9.59°N, 84.12°W)
Lauder, New Zealand (45.04°S, 169.68°E)

Spectral UV

Summit, Greenland (72.58°N, 38.45°W)
Barrow, AK, USA (71.32°N, 156.68°W)
Villeneuve d'Ascq, France (50.61°N, 3.14°E)
Groß-Enzersdorf, Austria (48.20°N, 16.56°E)
Garmisch, Germany (47.48°N, 11.06°E) / Zugspitze, Germany (47.42°N, 10.98°E)
Hoher Sonnblick, Austria (47.05°N, 12.95°E)
Briançon, France (44.90°N 6.65°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Boulder, CO, USA (39.99°N, 105.26°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Reunion Island, France (20.9°S, 55.5°E)
Alice Springs, Australia (23.80°S, 133.87°E)
Lauder, New Zealand (45.04°S, 169.68°E)
Ushuaia, Argentina (54.82°S, 68.32°W)
Palmer, Antarctica (64.77°S, 64.05°W)
Arrival Heights, Antarctica (77.83°S, 166.67°E)

South Pole Station, Antarctica (90.00°S)

UV/Visible Spectrometers

Eureka, Canada (80.05°N, 86.42°W)
Ny Ålesund, Spitsbergen (78.92°N, 11.93°E)
Thule, Greenland (76.53°N, 68.74°W)
Scoresbysund, Greenland (70.48°N, 21.97°W)
Kiruna, Sweden (67.84°N, 20.41°E)
Sodankylä, Finland (67.37°N, 26.65°E)
Zhigansk, Russia (66.8°N, 123.4°E)
Salekhard, Russia (66.5°N, 66.7°E)
Harestua, Norway (60.2°, 10.8°E)
Zvenigorod, Russia (55.7°N, 36.8°E)
Aberystwyth, UK (52.4°N, 4.1°W)
Jungfrauoch, Switzerland (46.55°N, 7.98°E)
Moshiri, Japan (44.4°N, 142.3°E)
Observatoire Haute Provence, France (43.94°N, 5.71°E)
Rikubetsu, Japan (43.46°N, 143.77°E)
Issyk-Kul, Kyrgyz Republic (42.6°N, 77.0°E)
Kiso, Japan (35.8°N, 137.6°E)
Izaña (Tenerife), Spain (28.30°N, 16.48°W)
Mauna Loa, HI, USA (19.54°N, 155.58°W)
Tarawa, Kiribati Republic (1.4°N, 172.9°E)
Ciater/Bandung, Indonesia (6.4°S, 107.4°E)
Reunion Island, St. Denis, France (20.9°S, 55.5°E)
Bauru, Brazil (22.3°S, 49.0°W)
Lauder, New Zealand (45.04°S, 169.68°E)
Kerguelen Island (49.3°S, 70.3°E)
Rio Gallegos, Argentina (51.60°S, 69.32°W)
Macquarie Island, Australia (54.50°S, 158.95°E)
Ushuaia, Argentina (54.82°S, 68.32°W)
Marambio Station, Antarctica (64.23°S, 56.63°W)
Faraday, Antarctica (65.25°S, 64.27°W)
Dumont d'Urville, Antarctica (66.67°S, 140.01°E)
Rothera, Antarctica (67.57°S, 68.13°W)
Syowa Base, Antarctica (69.01°S, 39.59°E)
Neumayer Station, Antarctica (70.62°S, 8.37°E)
Dôme C/ Concordia, Antarctica (75.1°S, 123.35°E)
Arrival Heights, Antarctica (77.83°S, 166.67°E)
McMurdo Station, Antarctica (77.85°S, 166.63°E)
Belgrano II Station, Antarctica (77.87°S, 34.62°W)