#### Summary

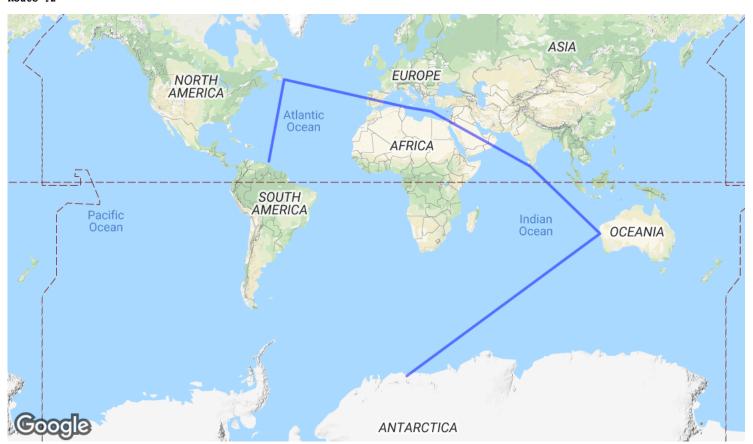
```
Report generated at Mon Oct 7 14:05:44 2019
Using args:
         google api key: [redacted]
         optimization_radius_mi: 200
         jet_stream_correction_mph: 50
         num_best_routes: 20
         start_from_airport_ids: [500000]
         data_path: data/
geo hash shuffles: 100
         html_file: report.html
         routing_overhead_pct: 10
         start_from_continent_codes: ['AN']
         max_searches: 250000000
         geo_hash_resolution_deg: 5.0
         disable_jet_stream_correction: False
         disable_optimization: False
         optimization_max_searches: 250000
         disable_geo_overrides: False
Completed in 5996.48s
Completed 15 595.405
Searched 250000000 possible routes
Searched 882085 additional routes for optimizations
Found 3661 valid routes given mission constraints
Showing top 20
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
         name: Novolazarevskaya Station
         country: n/a
         elevation: 335ft
         type: small_airport
         plane: n/a
         nearest alternate medium airport: None
nearest alternate large_airport: None
SBPS SA BR (4728 mi / 9.1 hrs / 520 mph)
         name: Porto Seguro Airport
         country: Brazil
elevation: 168ft
         type: medium_airport
         plane: g550
         nearest alternate medium_airport: SBQV, 160.97 mi
                  Vitória da Conquista Airport, BR
         nearest alternate large_airport: SBCT, 903.95 mi
Afonso Pena Airport, BR
GCFV EU ES (3883 mi / 7.1 hrs / 549 mph)
         name: Fuerteventura Airport
         country: Spain
         elevation: 85ft
         type: medium_airport
```

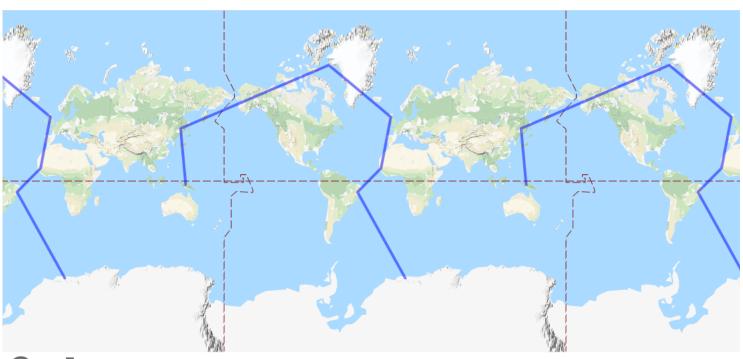
plane: g450 nearest alternate medium\_airport: GMMA, 178.72 mi Smara Airport, EH nearest alternate large\_airport: GCLP, 99.47 mi Gran Canaria Airport, ES BGBW NA GL (2953 mi / 5.9 hrs / 496 mph) name: Narsarsuaq Airport country: Greenland elevation: 112ft type: medium\_airport plane: g450 name: Banak Airport country: Norway elevation: 25ft type: medium\_airport plane: g450 nearest alternate medium\_airport: EFKT, 163.63 mi Kittilä Airport, FI nearest alternate large\_airport: ENBO, 328.68 mi Bodø Airport, NO ZBTJ AS CN (4134 mi / 7.2 hrs / 570 mph) name: Tianjin Binhai International Airport country: China elevation: 10ft type: large\_airport plane: g450 AYVN OC PG (3593 mi / 6.5 hrs / 549 mph) name: Vanimo Airport country: Papua New Guinea elevation: 10ft type: medium\_airport plane: g450 nearest alternate medium\_airport: AYWK, 174.47 mi
Wewak International Airport, PG
nearest alternate large\_airport: AYPY, 618.58 mi
Port Moresby Jacksons International Airport, PG Total Distance: 21457.96 miles Duration: 39.66

#### Route #2



AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
name: Novolazarevskaya Station
country: n/a
elevation: 335ft
type: small\_airport
plane: n/a
nearest alternate medium\_airport: None
nearest alternate large\_airport: None
YSHK OC AU (5274 mi / 8.9 hrs / 594 mph)

```
name: Shark Bay Airport
         country: Australia
          elevation: 111ft
         type: medium_airport
         plane: g550
         nearest alternate medium_airport: YPLM, 254.82 mi
                   Learmonth Airport, AU
nearest alternate large_airport: None
VOTV AS IN (3763 mi / 7.7 hrs / 488 mph)
         name: Trivandrum International Airport
         country: India
         elevation: 15ft
         type: large_airport
         plane: g450
LG54 EU GR (4138 mi / 8.6 hrs / 480 mph)
         name: Tympaki Airport
         country: Greece
         elevation: 7ft
type: small airport
         plane: g450
         nearest alternate medium_airport: HEBA, 404.43 mi
                   Borg El Arab International Airport, EG
         nearest alternate large_airport: LICC, 565.05 mi
Catania-Fontanarossa Airport, IT
LICG EU IT (798 mi / 1.7 hrs / 475 mph)
name: Pantelleria Airport
         country: Italy
         elevation: 628ft
          type: medium_airport
         plane: g450
         nearest alternate medium_airport: LICD, 98.04 mi
Lampedusa Airport, IT
nearest alternate large_airport: LICC, 176.41 mi
                   Catania-Fontanarossa Airport, IT
CYYT NA CA (3625 mi / 7.6 hrs / 476 mph)
name: St. John's International Airport
         country: Canada elevation: 461ft
         type: large_airport
         plane: g450
TTCP SA TT (2819 mi / 5.5 hrs / 515 mph)
         name: Tobago-Crown Point Airport
         country: Trinidad and Tobago
         elevation: 38ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: TTPP, 51.39 mi
                   Piarco International Airport, TT
         nearest alternate large_airport: None
Total Distance: 20416.94 miles
Duration: 39.94
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
         name: Novolazarevskaya Station
         country: n/a
         elevation: 335ft
         type: small_airport
         plane: n/a
         nearest alternate medium_airport: None
nearest alternate large_airport: None
SNIO SA BR (5104 mi / 9.8 hrs / 522 mph)
         name: Cipó Airport
         country: Brazil
         elevation: 499ft
         type: small_airport
         plane: g550
         nearest alternate medium_airport: SBUF, 119.96 mi
                  Paulo Afonso Airport, BR
         nearest alternate large_airport: SBBE, 958.87 mi
Val de Cans/Júlio Cezar Ribeiro International Airport, BR GOTT AF SN (2661 mi / 4.7 hrs / 560 mph)
         name: Tambacounda Airport
         country: Senegal
         elevation: 161ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: GOOK, 163.29 mi
Kaolack Airport, SN
nearest alternate large_airport: GCLP, 987.11 mi
                  Gran Canaria Airport, ES
EGPH EU GB (3265 mi / 6.1 hrs / 534 mph)
         name: Edinburgh Airport country: United Kingdom
         elevation: 135ft
         type: large airport
         plane: g450
BGTL NA GL (2330 mi / 4.8 hrs / 484 mph)
         name: Thule Air Base
         country: Greenland
elevation: 251ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: BGSF, 756.79 mi
                  Kangerlussuaq Airport, GL
nearest alternate large_airport: None
UHHH AS RU (4105 mi / 7.1 hrs / 574 mph)
name: Khabarovsk-Novy Airport
         country: Russia
         elevation: 244ft
         type: large_airport
plane: g450
WAJJ AS ID (3900 mi / 7.4 hrs / 529 mph)
         name: Sentani Airport
         country: Indonesia
         elevation: 289ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: AYWK, 228.39 mi
                 Wewak International Airport, PG
         nearest alternate large airport: AYPY, 661.07 mi
                 Port Moresby Jacksons International Airport, PG
Total Distance: 21364.77 miles
Duration: 39.95
```

2/9/2020 sample.html



# **Coooli**

```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
          name: Novolazarevskaya Station
          country: n/a
          elevation: 335ft
          type: small_airport
          plane: n/a
          nearest alternate medium_airport: None
nearest alternate large_airport: None
SBSV SA BR (4969 mi / 9.5 hrs / 521 mph)
          name: Deputado Luiz Eduardo Magalhães International Airport
          country: Brazil
          elevation: 64ft
          type: large_airport plane: g550
GMML AF EH (3564 mi / 6.5 hrs / 551 mph)
          name: Hassan I Airport
          country: Western Sahara
          elevation: 207ft
          type: medium_airport
          plane: g450
          nearest alternate medium_airport: GMMA, 98.87 mi
                    Smara Airport, EH
          nearest alternate large_airport: GCLP, 143.30 mi
                    Gran Canaria Airport, ES
GMFO AF MA (936 mi / 1.7 hrs / 564 mph)
name: Angads Airport
country: Morocco
          elevation: 1535ft
          type: medium_airport
          plane: g450
          nearest alternate medium_airport: GMMW, 64.11 mi
Nador International Airport, MA
nearest alternate large_airport: GMMN, 338.71 mi
                    Mohammed V International Airport, MA
BGTL NA GL (3871 mi / 7.9 hrs / 489 mph)
          name: Thule Air Base
          country: Greenland
          elevation: 251ft
          type: medium_airport
          plane: g450
          nearest alternate medium_airport: BGSF, 756.79 mi
                    Kangerlussuaq Airport, GL
nearest alternate large_airport: None
UHKK AS RU (3953 mi / 6.9 hrs / 574 mph)
name: Komsomolsk-on-Amur Airport
          country: Russia
          elevation: 92ft
          type: medium_airport
          plane: g450
          nearest alternate medium_airport: ZYJM, 384.43 mi
Jiamusi Airport, CN
nearest alternate large_airport: UHHH, 151.77 mi
Khabarovsk-Novy Airport, RU
AYMO OC PG (4046 mi / 7.6 hrs / 533 mph)
```

```
name: Momote Airport
country: Papua New Guinea
elevation: 12ft
type: medium_airport
plane: g450
nearest alternate medium_airport: AYWK, 279.65 mi
Wewak International Airport, PG
nearest alternate large_airport: AYPY, 510.20 mi
Port Moresby Jacksons International Airport, PG
Total Distance: 21338.20 miles
Duration: 40.00
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
        name: Novolazarevskaya Station
        country: n/a
        elevation: 335ft
        type: small_airport
        plane: n/a
        nearest alternate medium_airport: None
nearest alternate large_airport: None YCAR OC AU (5348 mi / 9.0 hrs / 594 mph)
        name: Carnarvon Airport
        country: Australia
        elevation: 13ft
        {\tt type:} \ {\tt medium\_airport}
        plane: g550
        nearest alternate medium airport: YSHK, 70.29 mi
                 Shark Bay Airport, AU
        nearest alternate large_airport: None
VOTV AS IN (3719 mi / 7.6 hrs / 487 mph)
        name: Trivandrum International Airport
        country: India
elevation: 15ft
        type: large_airport
        plane: g450
HEAX AF EG (3737 mi / 7.8 hrs / 480 mph)
        name: El Nouzha Airport
        country: Egypt
        elevation: -6ft
        type: medium_airport
        plane: g450
        nearest alternate medium_airport: HEBA, 23.70 mi
                 Borg El Arab International Airport, EG
        nearest alternate large_airport: LICC, 952.14 mi
                 Catania-Fontanarossa Airport, IT
LIPO EU IT (1586 mi / 3.2 hrs / 488 mph)
        name: Brescia Airport
        country: Italy
        elevation: 355ft
        type: medium_airport
        plane: g450
nearest alternate medium_airport: LIMP, 41.79 mi
```

```
Parma Airport, IT
        nearest alternate large_airport: LEPA, 560.31 mi
                 Palma De Mallorca Airport, ES
LFVP NA PM (3398 mi / 7.2 hrs / 475 mph)
        name: St Pierre Airport
        country: Saint Pierre and Miquelon elevation: 27ft
        type: medium_airport
        plane: g450
         nearest alternate medium_airport: CYJT, 165.47 mi
                 Stephenville Airport, CA
        nearest alternate large_airport: CYHZ, 376.21 mi
Halifax / Stanfield International Airport, CA
TNCA SA AW (2751 mi / 5.4 hrs / 508 mph)
        name: Queen Beatrix International Airport
         country: Aruba
        elevation: 60ft
        type: medium_airport
plane: g450
        nearest alternate medium airport: SKCC, 358.70 mi
                 Camilo Daza International Airport, CO
         nearest alternate large_airport: None
Total Distance: 20540.14 miles
Duration: 40.21
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
name: Novolazarevskaya Station
           country: n/a
           elevation: 335ft
           type: small_airport
           plane: n/a
nearest alternate medium_airport: None
nearest alternate large_airport: None
SBRF SA BR (5251 mi / 10.0 hrs / 524 mph)
           name: Guararapes - Gilberto Freyre International Airport
           country: Brazil
           elevation: 33ft
           type: medium_airport
           plane: g550
           nearest alternate medium airport: SBJP, 67.78 mi
                     Presidente Castro Pinto International Airport, BR
nearest alternate large_airport: None
GOOY AF SN (2179 mi / 3.9 hrs / 555 mph)
name: Léopold Sédar Senghor International Airport
           country: Senegal
           elevation: 85ft
           type: large_airport
           plane: g450
EGNC EU GB (3176 mi / 5.9 hrs / 539 mph)
           name: Carlisle Airport
          country: United Kingdom elevation: 190ft
```

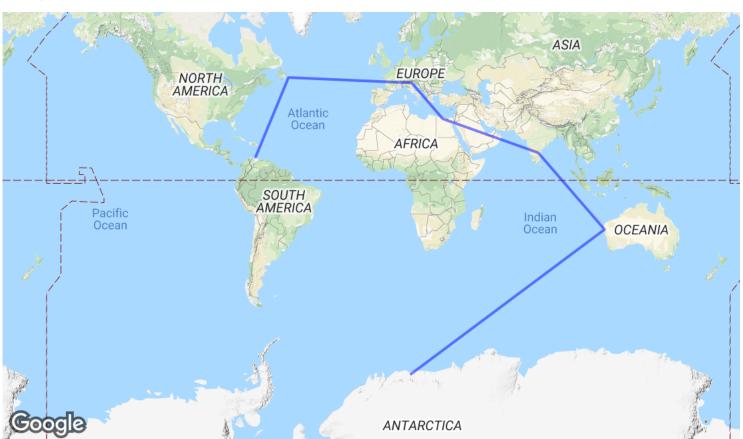
type: medium\_airport plane: g450 nearest alternate medium\_airport: EGQL, 99.20 mi RAF Leuchars, GB nearest alternate large\_airport: EINN, 293.24 mi Shannon Airport, IE
PABR NA US (3985 mi / 8.4 hrs / 475 mph) name: Wiley Post Will Rogers Memorial Airport country: United States elevation: 44ft type: medium\_airport plane: g450 nearest alternate medium\_airport: PASC, 203.44 mi Deadhorse Airport, US nearest alternate large\_airport: None RJAH AS JP (3599 mi / 6.4 hrs / 562 mph) name: Hyakuri Airport country: Japan
elevation: 105ft type: medium\_airport plane: g450 nearest alternate medium\_airport: RJTO, 113.44 mi Oshima Airport, JP nearest alternate large\_airport: RJFK, 632.00 mi Kagoshima Airport, JP AYKV OC PG (3037 mi / 5.7 hrs / 537 mph) name: Kavieng Airport country: Papua New Guinea elevation: 7ft type: medium\_airport plane: g450 nearest alternate medium\_airport: AYTK, 162.97 mi Tokua Airport, PG nearest alternate large\_airport: AYPY, 534.44 mi Port Moresby Jacksons International Airport, PG Total Distance: 21226.88 miles Duration: 40.26

#### Route #7



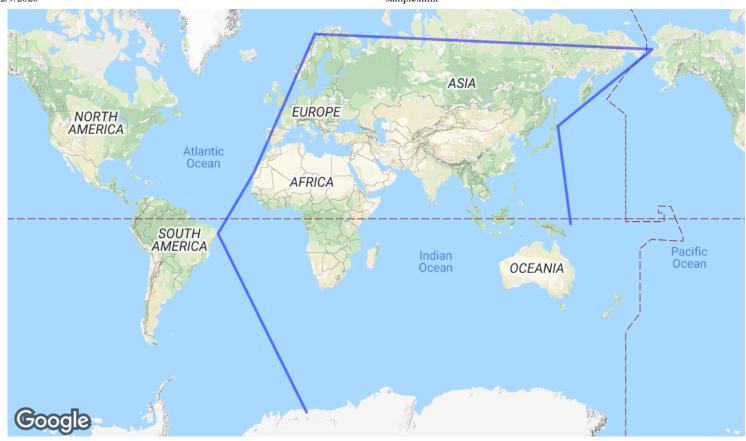
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
name: Novolazarevskaya Station
country: n/a
elevation: 335ft
type: small\_airport
plane: n/a
nearest alternate medium\_airport: None
nearest alternate large\_airport: None
SNAM SA BR (4531 mi / 8.8 hrs / 517 mph)
name: Santo Antônio do Amparo Airport
country: Brazil
elevation: 3601ft
type: small\_airport
plane: g550

```
nearest alternate medium airport: SBTA, 152.26 mi
                   Base de Aviação de Taubaté Airport, BR
         nearest alternate large_airport: SBCT, 419.00 mi
                   Afonso Pena Airport, BR
GOOY AF SN (3395 mi / 6.1 hrs / 555 mph)
name: Léopold Sédar Senghor International Airport
         country: Senegal
         elevation: 85ft
          type: large_airport
          plane: g450
BGBW NA GL (3844 mi / 7.6 hrs / 503 mph)
name: Narsarsuaq Airport
         country: Greenland
         elevation: 112ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: BGSF, 434.31 mi
                   Kangerlussuaq Airport, GL
nearest alternate large_airport: None ENAN EU NO (1958 mi / 3.4 hrs / 573 mph)
         name: Andøya Airport
          country: Norway
         elevation: 43ft
         type: medium_airport
         plane: q450
         nearest alternate medium_airport: ENNA, 218.31 mi
                   Banak Airport, NO
          nearest alternate large_airport: ENBO, 146.99 mi
                   Bodø Airport, NO
ZYHB AS CN (4127 mi / 7.2 hrs / 573 mph)
         name: Taiping Airport country: China
         elevation: 457ft
          type: large_airport
         plane: g450
AYMO OC PG (3895 mi / 7.2 hrs / 544 mph)
         name: Momote Airport
country: Papua New Guinea
         elevation: 12ft
         type: medium_airport
         plane: g450
          nearest alternate medium_airport: AYWK, 279.65 mi
         Wewak International Airport, PG
nearest alternate large_airport: AYPY, 510.20 mi
Port Moresby Jacksons International Airport, PG
Total Distance: 21749.43 miles
Duration: 40.28
```

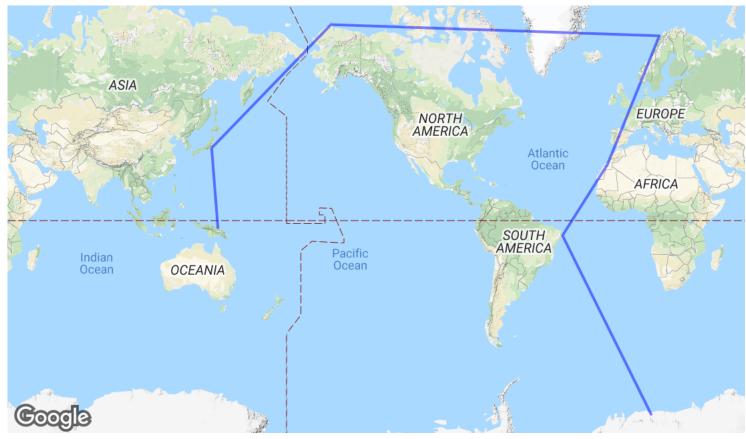


AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
name: Novolazarevskaya Station
country: n/a
elevation: 335ft

```
type: small_airport
          plane: n/a
          nearest alternate medium_airport: None
nearest alternate large_airport: None YCAR OC AU (5348 mi / 9.0 hrs / 594 mph)
          name: Carnarvon Airport
          country: Australia
          elevation: 13ft
          type: medium_airport
          plane: g550
nearest alternate medium_airport: YSHK, 70.29 mi
Shark Bay Airport, AU
nearest alternate large_airport: None
VOCP AS IN (3956 mi / 8.0 hrs / 491 mph)
          name: Kadapa Airport
          country: India
          elevation: 430ft
type: medium_airport
plane: g450
          nearest alternate medium airport: VORY, 270.67 mi
                    Rajahmundry Airport, IN
          nearest alternate large_airport: VOTV, 434.95 mi
Trivandrum International Airport, IN
HEAL AF EG (3706 mi / 7.8 hrs / 477 mph)
name: El Alamein International Airport
          country: Egypt
elevation: 143ft
          type: medium_airport
          plane: g450
          nearest alternate medium_airport: HEBA, 73.20 mi
Borg El Arab International Airport, EG
          nearest alternate large_airport: LICC, 887.68 mi
Catania-Fontanarossa Airport, IT
LIPH EU IT (1475 mi / 3.0 hrs / 492 mph)
          name: Treviso-Sant'Angelo Airport
          country: Italy
          elevation: 59ft
type: large_airport
          plane: g450
CYYT NA CA (3291 mi / 6.9 hrs / 475 mph)
          name: St. John's International Airport
          country: Canada
          elevation: 461ft
          type: large_airport
          plane: g450
TNCA SA AW (2886 mi / 5.7 hrs / 505 mph)
          name: Queen Beatrix International Airport
          country: Aruba
          elevation: 60ft
          type: medium_airport
          plane: g450
          nearest alternate medium airport: SKCC, 358.70 mi
                   Camilo Daza International Airport, CO
          nearest alternate large_airport: None
Total Distance: 20663.49 miles
Duration: 40.44
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
         name: Novolazarevskaya Station
         country: n/a
         elevation: 335ft
         type: small_airport
         plane: n/a
         nearest alternate medium_airport: None
nearest alternate large_airport: None
SIPE SA BR (5285 mi / 10.1 hrs / 524 mph)
         name: Itapessoca Airport
         country: Brazil
         elevation: 16ft
         type: small_airport plane: g550
         nearest alternate medium airport: SBJP, 35.81 mi
                   Presidente Castro Pinto International Airport, BR
         nearest alternate large_airport: None
GMMH AF EH (2768 mi / 5.0 hrs / 550 mph)
name: Dakhla Airport
         country: Western Sahara
         elevation: 36ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: GMMA, 337.34 mi
         Smara Airport, \overline{\text{EH}} nearest alternate large_airport: GCLP, 293.10 mi
                   Gran Canaria Airport, ES
ENAN EU NO (3756 mi / 6.9 hrs / 547 mph)
         name: Andøya Airport
         country: Norway
         elevation: 43ft
         type: medium_airport plane: g450
         nearest alternate medium airport: ENNA, 218.31 mi
                   Banak Airport, NO
         nearest alternate large_airport: ENBO, 146.99 mi
Bodø Airport, NO
PASH NA US (3378 mi / 7.1 hrs / 475 mph)
name: Shishmaref Airport
         country: United States
         elevation: 12ft
         type: medium_airport
         plane: g450
         nearest alternate medium_airport: PAOM, 121.46 mi
Nome Airport, US nearest alternate large_airport: None RJCM AS JP (2638 mi / 4.7 hrs / 565 mph)
         name: Memanbetsu Airport
         country: Japan
         elevation: 135ft
         type: medium_airport
         plane: g450
         nearest alternate medium airport: RJEB, 47.73 mi
                   Monbetsu Airport, JP
```



```
AT17 AN RU (0 mi / 0.0 hrs / 0 mph)
        name: Novolazarevskaya Station
        country: n/a
        elevation: 335ft
        type: small_airport plane: n/a
        nearest alternate medium_airport: None
        nearest alternate large_airport: None
SIPE SA BR (5285 mi / 10.1 hrs / 524 mph)
        name: Itapessoca Airport
        country: Brazil
        elevation: 16ft
        type: small_airport
        plane: g550
        nearest alternate medium_airport: SBJP, 35.81 mi
                Presidente Castro Pinto International Airport, BR
nearest alternate large_airport: None
GMAT AF MA (3248 mi / 5.9 hrs / 552 mph)
        name: Tan Tan Airport
        country: Morocco
        elevation: 653ft
        type: medium_airport
        plane: g450
        nearest alternate medium_airport: GMMA, 122.85 mi
                 Smara Airport, EH
        nearest alternate large_airport: GCLP, 259.76 mi
                 Gran Canaria Airport, ES
ENAN EU NO (3328 mi / 6.1 hrs / 545 mph)
        name: Andøya Airport
        country: Norway
        elevation: 43ft
        type: medium_airport
        plane: g450
        nearest alternate medium_airport: ENNA, 218.31 mi
                 Banak Airport, NO
        nearest alternate large_airport: ENBO, 146.99 mi
Bodø Airport, NO
```