## Performance of the Antarctic Observing Network (AntON) 2013 CLIMAT MESSAGES

## Surface stations

This chart shows the status of CLIMAT messages during 2013 for stations in the EC-PORS zone of interest, $\mathrm{M}=$ message on GTS, $\mathrm{B}=$ message generated from SYNOP by BAS, $\mathrm{S}=$ message received at a centre, but not on GTS, NIL = Insufficient SYNOP messages to generate a CLIMAT. Off green = Message on the GTS contains errors (GSN station, many are not significant), Pale green = 80\% or more SYNOP messages available, Yellow = NIL message received, Pale yellow = Less than $80 \%$ SYNOP messages available, Amber = Silent non GSN station, Red = Silent GSN station. NOTE monitoring does not distinguish between problems with generation and transmission of messages. Monitoring is manual and may have errors. See http://www.antarctica.ac.uk/met/jds/met/AntON_SYN_2013.pdf for percentages for stations with NIL reports.

| WMO no | Station | GSN | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sub Antarctic stations (in Region I, III or V) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61997 | Isle Crozet | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 61998 | Isle Kerguelen | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 68906 | Gough Island | X | M | M | M | 92 N | M | M | M | M | M | M | M | M |
| 68992 | Bouvetoya | X |  |  |  |  |  |  |  |  |  | 0 | 0 |  |
| 68994 | Marion Island | X | M | M | M | 92 N | M | M | M | M | M | M | M | M |
| 88878 | Pebble Island |  | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 88883 | Weddell Island |  | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 88889 | Mount Pleasant Airport | X | M | 100 | M | M | 100 | M | M | M | M | M | M | M |
| 88892 | Sapper Hill |  |  | 18 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 88897 | Sea Lion Island |  | NIL |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NIL |
| 88900 | Bird Island |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 88903 | Grytviken | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 88986 | South Thule Island |  | B | B | B | B | B | B | B | 5 | 0 | 0 | 0 |  |
| 93929 | Enderby Island AWS |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 93947 | Campbell Island AWS | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 94997 | Heard Island (The Spit) |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 94998 | Macquarie Island | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 95997 | Heard Island (Atlas Cove) |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Antarctic stations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WMO no | Station |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88963 | Esperanza | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 88968 | Orcadas | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89002 | Neumayer | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89003 | Halvfarryggen EP11 |  | NIL | B | B | B | B | B | B | B | B | B | B | B |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 89004 | SANAE | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89009 | Amundsen-Scott | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89013 | Baldrick AWS |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89014 | Nordenskiold |  | NIL | NIL | NIL | NIL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89016 | Wasa EP5 |  | NIL |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89018 | Svea EP6 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89020 | Brunt | Closed |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89022 | Halley | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89034 | Belgrano II |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89049 | AGO-2 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89050 | Bellingshausen | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89053 | Jubany |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89054 | Dinamet |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89055 | Marambio | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89056 | Frei | X | M | M | M | M | S | M | S | M | M | M | M | M |
| 89057 | Arturo Prat |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89058 | Great Wall |  | B | B | B | B | B | B | NIL | B | B | B | B | B |
| 89059 | O'Higgins |  | M | M | M | M | S | M | S | M | M | M | M | M |
| 89061 | Palmer |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89062 | Rothera | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89063 | Vernadsky | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89064 | Juan Carlos |  | 45 | 58 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89065 | Fossil Bluff | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89066 | San Martin |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89087 | Thiel Mountains |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89108 | Henry |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89132 | Russkaya |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89251 | King Sejong |  | B | B | B | B | B | B | NIL | B | B | B | B | B |
| 89252 | Comandante Ferraz |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89253 | Joinville Island |  | NIL | NIL | NIL | NIL | NIL | NIL | NIL | 0 | 0 | 0 | 0 | 0 |
| 89257 | Limbert |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89262 | Larsen Ice Shelf | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89266 | Butler Island | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89269 | Bonaparte Point |  |  |  |  | 0 | 0 | M | M | M | M | M | M | M |
| 89272 | Sky Blu | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89314 | Theresa |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89324 | Byrd Station | X | M | M | M | M | M | M | M | M | M | M | M | M |


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| 89327 | Mount Siple | X | M | M | M | M | 0 | 0 | 0 | M | M | M | M | 0 |
| 89329 | Harry | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89332 | Elizabeth |  | M | M | M | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89345 | Siple Dome | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89376 | Gill | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89377 | Lettau | X |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89504 | Troll |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89507 | Kohnen EP9 |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89512 | Novolazarevskaya | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89514 | Maitri |  | B | NIL | NIL | B | B | B | B | B | B | B | B | B |
| 89528 | AGO-3 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89532 | Syowa | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89542 | Molodeznaja |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89564 | Mawson | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89570 | Davis (Whoop Whoop) |  | B | B | B | B | NIL | NIL | 0 | NIL | NIL | NIL | B | NIL |
| 89571 | Davis | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89573 | Zhongshan | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89574 | Progress | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89575 | Druzhnaya 4 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89577 | Dome A | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89578 | Eagle |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89586 | Davis (Mount Brown) |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89592 | Mirnyj | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89598 | AGO-4 |  |  |  | 13 | 0 | 0 | 9 | 14 | 12 | 8 | 0 | 0 | 0 |
| 89606 | Vostok | X | M | M | M | S | M | S | M | S | M | M | M | M |
| 89610 | Casey (Cape Poinsett) |  | B | NIL | NIL | NIL | NIL | 6 | 7 | NIL | NIL | 0 | 0 | 0 |
| 89611 | Casey | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89614 | Wilkins Runway West |  | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 89615 | Wilkins Runway East |  | B | NIL | NIL | NIL | NIL | NIL | NIL | 0 | 0 | 0 | NIL | B |
| 89625 | Concordia | X | NIL | NIL | NIL | 79 N | 83 N | 78 N | B | B | 80 N | B | 89 N | 84 N |
| 89628 | AGO-1 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89642 | Dumont d'Urville | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89643 | Port Martin |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89646 | Sitry (Irene) |  | B | NIL | NIL | 0 | 0 | NIL | 5 | NIL | NIL | NIL | NIL | B |
| 89648 | Mid Point |  | B | B | B | NIL | NIL | NIL | NIL | NIL | NIL | B | B | B |
| 89657 | Leningradskaya |  | 32 |  | 29 | 36 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89659 | Priestley (Nevee) |  | NIL | B | B | NIL | B | B | B | NIL | NIL | B | B | B |


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| 89661 | Cape Phillips |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89662 | Mario Zuchelli Station | X | NIL | NIL | B | B | B | B | B | B | B | B | B | B |
| 89664 | McMurdo | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89665 | Scott Base |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89666 | Cape Ross |  | B | B | B | B | B | B | B | B | B | B | B | B |
| 89667 | Pegasus North |  | M | M | M | M | M | M | M | M | M | M | M | M |
| A20629 | Plateau |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89734 | Dome Fuji |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89744 | Relay Station | X | M | M | M | M | M | M | M | M | M | M | M | M |
| A20631 | Pole of olative <br> Inaccessibility  |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89767 | Amery Ice Shelf AWS (G3) |  | B | NIL | B | B | B | B | B | B | B | B | B | B |
| 89768 | Minna Bluff |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89769 | Linda |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89799 | Nico |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89807 | Casey (Snyder Rocks) |  | 86 | 78 | 78 | 72 | 84 | 87 | 90 | 89 | 91 | 91 | 90 | 87 |
| 89809 | Casey Skiway South |  | NIL | NIL | NIL | NIL | 7 | NIL | 5 | NIL | B | NIL | NIL | NIL |
| 89811 | Casey (Law Dome Summit) |  | B | B | NIL | NIL | NIL | 0 | NIL | NIL | NIL | B | B | B |
| 89815 | Casey (Haupt Nunatak) |  | NIL | NIL | NIL | NIL | NIL | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89828 | Dome C II | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89832 | D-10 |  | M | M | M | M | M | M | M | M | 0 | M | M | M |
| 89834 | D-47 |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89836 | D-85 |  |  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89864 | Manuela |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89865 | Whitlock | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89866 | Marble Point | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89868 | Schwerdtfeger |  |  |  | M | M | M | M | M | M | M | M | M | M |
| 89869 | Marilyn | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89872 | Ferrell | X | M | M | M | M | M | M | M | M | M | M | M | M |
| 89873 | Elaine |  | M | M | M | M | M | M | M | M | M | M | M | M |
| 89879 | Possession Island | X | M | M | M | M | M | M | 0 | M | M | M | M | M |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | GSN messages (\% of 42) |  | 93 | 93 | 95 | 95 | 93 | 93 | 93 | 98 | 95 | 98 | 95 | 93 |
|  | Total Antarctic messages |  | 73 | 70 | 72 | 70 | 69 | 70 | 68 | 71 | 70 | 74 | 74 | 74 |

Notes on GSN stations:
68992 - AWS failed. Replacement not expected before 2011.

89327 - Batteries no longer hold charge over the winter. Recovers in late September with the return of sunlight. No immediate prospect of repair.
89377 - AWS failed
89573 - Message occasionally not passed from station
89625 - Not always enough SYNOP messages to generate CLIMAT
89662 - Not always enough SYNOP messages to generate CLIMAT
89879 - Batteries no longer hold sufficient charge to transmit fully over the winter.

