**Problem Summary:**

1. OPS bufr decode throw away the rest obs in the bufr file if a bad obs is found.

|  |  |  |
| --- | --- | --- |
| **ObsType** | **No. Obs in Bufr File** | **No. Obs in ODB** |
| AIRS | **88515** | 8750 |
| IASI | **16200** | **2490** |
| ATOVS | **810208** | **57232** |
| ATMS | **86400** | **71392** |
| GPSRO | 586 | 217 |

**Note:** These types appear to work correctly in OPS otherwise (See detail below)

1. **Obs Types are being disabled: CrIS,WindSat,MTsatClear**
2. **Aircraft (ASDAR) appears to have higher rejection rate, maybe something is wrong with ODB.**

**AMV is still to be checked.**

**Details:**

1. Aircraft : I do not think the difference in obs number is due to createodb. Need to look at bufr source.

However asdar in APS3 the rejection rate is higher.

**APS2:**

     Total number of AIREPS           =     3196

     Total number of AMDARS           =   218274

     --------------------------------------------------------------------

     Total ODB Aircraft obs           =   221470

     --------------------------------------------------------------------

    Ops\_QcStats

     2015  4 28  0  Aircraft         221470 obs

    AIREPS          3196 observations

                       0 had prior reject of whole report and are not included below.

                     694 were surplus (near-duplicate) reports and are not included below.

                      18 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t             2501    2441       5 (  0.2%)       6 (  0.2%)      25 (  1.0%)       0 (  0.0%)

     u             2499    2238       8 (  0.4%)       8 (  0.4%)      19 (  0.8%)       0 (  0.0%)

     v             2499    2238       8 (  0.4%)       8 (  0.4%)      19 (  0.8%)       0 (  0.0%)

    ASDAR         218274 observations

                      16 had prior reject of whole report and are not included below.

                  195049 were surplus (near-duplicate) reports and are not included below.

                     277 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t            23209   23077       2 (  0.0%)      10 (  0.0%)     426 (  1.8%)       0 (  0.0%)

     u            23177   23026      40 (  0.2%)      76 (  0.3%)     455 (  2.0%)       0 (  0.0%)

     v            23177   23026      40 (  0.2%)      76 (  0.3%)     455 (  2.0%)       0 (  0.0%)

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs Aircraft obs        =    25416

     --------------------------------------------------------------------

APS3:

Total number of AIREPS           =     3196

Total number of AMDARS           =   221935

--------------------------------------------------------------------

Total ODB Aircraft obs           =   225131

--------------------------------------------------------------------

Ops\_QcStats

2015  4 28  0  Aircraft         225131 obs

AIREPS          3196 observations

                   0 had prior reject of whole report and are not included below.

                 694 were surplus (near-duplicate) reports and are not included below.

                  18 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t             2501    2427       5 (  0.2%)       6 (  0.2%)      25 (  1.0%)       0 (  0.0%)

u             2499    2335       8 (  0.3%)       8 (  0.3%)      19 (  0.8%)       0 (  0.0%)

v             2499    2335       8 (  0.3%)       8 (  0.3%)      19 (  0.8%)       0 (  0.0%)

ASDAR         221935 observations

                  95 had prior reject of whole report and are not included below.

              194849 were surplus (near-duplicate) reports and are not included below.

                6082 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t            26991   26907       0 (  0.0%)       7 (  0.0%)    6171 ( 22.9%)       0 (  0.0%)

u            26946   26606      31 (  0.1%)      68 (  0.3%)    6176 ( 23.2%)       0 (  0.0%)

v            26946   26606      31 (  0.1%)      68 (  0.3%)    6176 ( 23.2%)       0 (  0.0%)

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs Aircraft obs        =    23393

--------------------------------------------------------------------

**2.  Sonde**

**APS2:**

     Total number of TEMP             =      638

     Total number of PILOT            =      255

     Total number of DROPSOND         =        0

     Total number of WINPRO           =     2633

     --------------------------------------------------------------------

     Total ODB Sonde obs              =     3526

     --------------------------------------------------------------------

    Ops\_QcStats

     2015  4 28  0  Sonde              3526 obs

    SONDES           893 observations

                       4 had prior reject of whole report and are not included below.

                     170 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t            34025   31040      26 (  0.1%)      22 (  0.1%)      22 (  0.1%)       0 (  0.0%)

     u            36238   33959      44 (  0.1%)      11 (  0.0%)      11 (  0.0%)       0 (  0.0%)

     v            36238   33959      44 (  0.1%)      11 (  0.0%)      11 (  0.0%)       0 (  0.0%)

     rh           28230   21293     247 (  1.2%)      98 (  0.5%)    1655 (  7.8%)       0 (  0.0%)

    PROFILER        2633 observations

                     859 had prior reject of whole report and are not included below.

                    1369 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     u             3220    1705       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     v             3220    1705       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs Sonde obs           =     1124

     --------------------------------------------------------------------

**APS3:**

Total number of PILOT            =      255

Total number of WINPRO           =     2643

Total number of TEMP             =      638

--------------------------------------------------------------------

Total ODB Sonde obs              =     3536

--------------------------------------------------------------------

SONDES           893 observations

                   4 had prior reject of whole report and are not included below.

                 165 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t            34348   33153      21 (  0.1%)      24 (  0.1%)      24 (  0.1%)       0 (  0.0%)

u            36469   34980      38 (  0.1%)      11 (  0.0%)      11 (  0.0%)       0 (  0.0%)

v            36469   34980      38 (  0.1%)      11 (  0.0%)      11 (  0.0%)       0 (  0.0%)

rh           28563   22712     321 (  1.4%)     123 (  0.5%)     679 (  3.0%)       0 (  0.0%)

PROFILER        2643 observations

                 873 had prior reject of whole report and are not included below.

                1323 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

u             4463    2501      12 (  0.5%)       4 (  0.2%)       4 (  0.2%)       0 (  0.0%)

v             4463    2501      12 (  0.5%)       4 (  0.2%)       4 (  0.2%)       0 (  0.0%)

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs Sonde obs           =     1171

--------------------------------------------------------------------

**3. AIRS  === Need to know why there is such a big difference in obs number? Again, maybe due to how bufr is constructed.**

**APS2: Total number of AIRSWF           =    88482**

    Ops\_QcStats

     2015  4 28  0  AIRS              88482 obs

    AIRS           88482 observations

                       0 had prior reject of whole report and are not included below.

                   59412 were surplus (near-duplicate) reports and are not included below.

                   18309 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t           579382       0

     rh          350324       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs AIRS obs            =    10761

     --------------------------------------------------------------------

**APS3: Total number of AIRSWF          =     8750 (bufr file has 88515 obs)**

**Ops\_QcStats**

**2015  4 28  0  AIRS               8750 obs**

**AIRS            8750 observations**

**0 had prior reject of whole report and are not included below.**

**5482 were surplus (near-duplicate) reports and are not included below.**

**1995 had other reject of whole report, they are included below.**

**Element        rep  usable   background       buddy            final            no-assim**

**t            59297       0**

**rh           35854       0**

**The usable reports are those without a prior reject flag.**

**"rep" = number reported, other columns only include "usable" observations.**

**--------------------------------------------------------------------**

**Total Varobs AIRS obs            =     1273**

**--------------------------------------------------------------------**

**4. GPSRO**

**APS2:** Total ODB GPSRO obs              =      586

    GPSRO            586 observations

                      91 had prior reject of whole report and are not included below.

                       0 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs GPSRO obs           =      495

     --------------------------------------------------------------------

**APS3:   Total BUFR Dir GPSRO obs         =      217   (bufr file has 586 obs)**

Ops\_QcStats

2015  4 28  0  GPSRO               217 obs

GPSRO            217 observations

                 144 had prior reject of whole report and are not included below.

                   0 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs GPSRO obs           =       73

--------------------------------------------------------------------

**5. scat wind**

**APS2:** Total number of ASCAT            =   241920

    Ops\_QcStats

     2015  4 28  0  Scatwind         241920 obs

    SCAT          241920 observations

                  111157 had prior reject of whole report and are not included below.

                   97025 were surplus (near-duplicate) reports and are not included below.

                   21879 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     u10alias     62195   62195     174 (  0.3%)       0 (  0.0%)   37210 ( 59.8%)       0 (  0.0%)

     v10alias     62195   62195     174 (  0.3%)       0 (  0.0%)   37210 ( 59.8%)       0 (  0.0%)

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs Scatwind obs        =    11859

     --------------------------------------------------------------------

**APS3: Total BUFR Dir Scatwind obs      =   241920**

Ops\_QcStats

2015  4 28  0  Scatwind         241920 obs

SCAT          241920 observations

              108553 had prior reject of whole report and are not included below.

               98236 were surplus (near-duplicate) reports and are not included below.

               23306 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

u10alias     64078   64078     130 (  0.2%)       0 (  0.0%)   39155 ( 61.1%)       0 (  0.0%)

v10alias     64078   64078     130 (  0.2%)       0 (  0.0%)   39155 ( 61.1%)       0 (  0.0%)

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs Scatwind obs        =    11825

--------------------------------------------------------------------

**6. CrIS**

**APS2:**Total ODB CrIS obs               =    78810

    Ops\_QcStats

     2015  4 28  0  CrIS              78810 obs

    CrIS           78810 observations

                       0 had prior reject of whole report and are not included below.

                   35162 were surplus (near-duplicate) reports and are not included below.

                   33981 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t           424797       0

     rh          256854       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs CrIS obs            =     9667

     --------------------------------------------------------------------

**APS3: disabled in create ODB**

**7. ATMS**

**APS2:** Total ODB ATMS obs               =    85440

    Ops\_QcStats

     2015  4 28  0  ATMS              85440 obs

    ATMS           85440 observations

                       0 had prior reject of whole report and are not included below.

                   63163 were surplus (near-duplicate) reports and are not included below.

                    4597 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t           760240       0

     rh          459680       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs ATMS obs            =    17680

     --------------------------------------------------------------------

**APS3: Total BUFR Dir ATMS obs          =    71392   (bufr file has 86400 obs)**

Ops\_QcStats

2015  4 28  0  ATMS              71392 obs

ATMS           71392 observations

                   0 had prior reject of whole report and are not included below.

               53184 were surplus (near-duplicate) reports and are not included below.

                3831 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t           618297       0

rh          373854       0

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs ATMS obs            =    14377

--------------------------------------------------------------------

**8. MtSatClear**

APS2: Total ODB MTSATClear obs         =    21204

    Ops\_QcStats

     2015  4 28  0  MTSATClear        21204 obs

    MTSATIm        21204 observations

                       0 had prior reject of whole report and are not included below.

                    6963 were surplus (near-duplicate) reports and are not included below.

                    5485 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t           376508       0

     rh          227656       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs MTSATClear obs      =     8756

     --------------------------------------------------------------------

**APS3: Disabled in OPS32  (20678 obs in bufr)**

**9. IASI: same problem as for AIRS?**

**APS2:** Total ODB IASI obs               =   162000

    Ops\_QcStats

     2015  4 28  0  IASI             162000 obs

    IASI          162000 observations

                       0 had prior reject of whole report and are not included below.

                   79512 were surplus (near-duplicate) reports and are not included below.

                   65338 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t           791028       0

     rh          478296       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs IASI obs            =    17150

     --------------------------------------------------------------------

**APS3: Total BUFR Dir IASI obs          =     2490 (bufr has 16200 obs)**

Ops\_QcStats

2015  4 28  0  IASI               2490 obs

IASI            2490 observations

                 920 had prior reject of whole report and are not included below.

                   0 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t            67510       0

rh           40820       0

  The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs IASI obs            =     1570

---------------------------------------------------------**-----------**

**11. ATOVS**

**APS2:** Total ODB ATOVS obs              =   766278  (**Include MtOp2**)

    Ops\_QcStats

     2015  4 28  0  ATOVS            766278 obs

    ATOVS         766278 observations

                       0 had prior reject of whole report and are not included below.

                  642410 were surplus (near-duplicate) reports and are not included below.

                   76072 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     t          2061420       0

     rh         1246440       0

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

     --------------------------------------------------------------------

     Total Varobs ATOVS obs           =    47796

     --------------------------------------------------------------------

**APS3: Total BUFR Dir ATOVS obs         =    57232   (810208 obs in bufr file)**

**Do not have Mtop2 obs**

Ops\_QcStats

2015  4 28  0  ATOVS             57232 obs

ATOVS          57232 observations

                   0 had prior reject of whole report and are not included below.

               38689 were surplus (near-duplicate) reports and are not included below.

               14033 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

t           195220       0

rh          118040       0

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

--------------------------------------------------------------------

Total Varobs ATOVS obs           =     4510

--------------------------------------------------------------------

**12. SatWind**

APS2:

     QS00 28/04/2015

     Total number of ESACMW           =    34403

     Total number of JMAWINDS         =    93426

     Total number of MSGWINDS         =   172833

     Total number of GOESBUFR         =   342473

     --------------------------------------------------------------------

     Total ODB Satwind obs            =   643135

     --------------------------------------------------------------------

     --------------------------------------------------------------------

     Total Varobs Satwind obs         =    15678

     --------------------------------------------------------------------

**APS3:**

Total number of MODIS            =        0

Total number of JMAWINDS         =    93421

Total number of MSGWINDS         =   172833

Total number of ESACMW           =    34403

Total number of GOESBUFR         =   342473

--------------------------------------------------------------------

Total BUFR Dir Satwind obs       =   643130

**--------------------------------------------------------------------**

**But obs in ODB are incorrect.**

**13. Surface: SHIP has problem in CreateODB**

**APS2:**

     QS00 28/04/2015

     Total number of LNDSYN           =    23762

     Total number of SHPSYN           =     4112

     Total number of BUOY             =     9157

     Total number of METARS           =     8450

     --------------------------------------------------------------------

     Total ODB Surface obs            =    45481

     --------------------------------------------------------------------

    Ops\_QcStats

     2015  4 28  0  Surface           45481 obs

    SYNOPS         23752 observations

                       2 had prior reject of whole report and are not included below.

                     680 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     Pstar        20359   19834      76 (  0.4%)     138 (  0.7%)     154 (  0.8%)       0 (  0.0%)

     Pstation     19136   18747     108 (  0.6%)       0 (  0.0%)     148 (  0.8%)       0 (  0.0%)

     Pstandard     1513    1513      26 (  1.7%)       0 (  0.0%)      54 (  3.6%)       0 (  0.0%)

     Pmsl         18489   17385      21 (  0.1%)       0 (  0.0%)      21 (  0.1%)       0 (  0.0%)

     t2           22648   20209      22 (  0.1%)      52 (  0.3%)      58 (  0.3%)       0 (  0.0%)

     rh2          22199   20401     222 (  1.1%)     206 (  1.0%)     206 (  1.0%)       0 (  0.0%)

     u10          22267   19115      15 (  0.1%)      32 (  0.2%)      34 (  0.2%)    3112 ( 16.3%)

     v10          22267   19115      15 (  0.1%)      32 (  0.2%)      34 (  0.2%)    3112 ( 16.3%)

     logvis       13653       0

    METARS          8018 observations

                    8018 had prior reject of whole report and are not included below.

                       0 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

    SHIPS           1316 observations

                       0 had prior reject of whole report and are not included below.

                       8 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     Pstar         1209    1192      28 (  2.3%)      52 (  4.4%)      53 (  4.4%)       0 (  0.0%)

     Pmsl          1209    1192      28 (  2.3%)       0 (  0.0%)      28 (  2.3%)       0 (  0.0%)

     t2            1167    1132       5 (  0.4%)      12 (  1.1%)      12 (  1.1%)       0 (  0.0%)

     rh2            944     854       8 (  0.9%)      10 (  1.2%)      10 (  1.2%)       0 (  0.0%)

     u10            984     979      11 (  1.1%)      15 (  1.5%)      16 (  1.6%)       0 (  0.0%)

     v10            984     979      11 (  1.1%)      15 (  1.5%)      16 (  1.6%)       0 (  0.0%)

     logvis         388       0

    DRIFTERS        8439 observations

                       0 had prior reject of whole report and are not included below.

                    1254 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     Pstar         4386    4360      13 (  0.3%)      16 (  0.4%)      17 (  0.4%)       0 (  0.0%)

     Pmsl          4386    4360      13 (  0.3%)       0 (  0.0%)      13 (  0.3%)       0 (  0.0%)

     t2              80       0

     rh2              5       0

     u10              5       0

     v10              5       0

**BUOY            2864 observations**

                       5 had prior reject of whole report and are not included below.

                     922 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     Pstar         1092    1086       0 (  0.0%)       5 (  0.5%)       5 (  0.5%)       0 (  0.0%)

     Pmsl          1092    1086       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     t2            1381    1364       0 (  0.0%)       1 (  0.1%)       1 (  0.1%)       0 (  0.0%)

     rh2            781     766       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     u10           1338    1307       1 (  0.1%)       4 (  0.3%)       4 (  0.3%)       0 (  0.0%)

     v10           1338    1307       1 (  0.1%)       4 (  0.3%)       4 (  0.3%)       0 (  0.0%)

     logvis          39       0

    PLAT/RIGG        650 observations

                       0 had prior reject of whole report and are not included below.

                       2 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

     Pstar          493     493       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     Pmsl           493     493       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     t2             538     538       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     rh2            495     483       2 (  0.4%)       2 (  0.4%)       2 (  0.4%)       0 (  0.0%)

     u10            322     322       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     v10            322     322       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

     logvis         413       0

    SurfaceCloud      10 observations

                      8 had prior reject of whole report and are not included below.

                       0 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

    DREGS            432 observations

                     432 had prior reject of whole report and are not included below.

                       0 were surplus (near-duplicate) reports and are not included below.

                       0 had other reject of whole report, they are included below.

     Element        rep  usable   background       buddy            final            no-assim

       The usable reports are those without a prior reject flag.

     "rep" = number reported, other columns only include "usable" observations.

Total Varobs Surface obs         =    34150

**APS3:**

Total number of LNDSYN           =    23762

Total number of SHPSYN           =     4112

Total number of BUOY             =     9157

Total number of METARS           =     8450

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Total ODB Surface obs            =    45481

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Ops\_QcStats

2015  4 28  0  Surface           45481 obs

SYNOPS         23762 observations

                   2 had prior reject of whole report and are not included below.

                 680 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

Pstar        20324   19835      51 (  0.3%)     126 (  0.6%)     134 (  0.7%)       0 (  0.0%)

Pstation     19136   18860      87 (  0.5%)       0 (  0.0%)     127 (  0.7%)       0 (  0.0%)

Pmsl         18489   17802      22 (  0.1%)       0 (  0.0%)      22 (  0.1%)       0 (  0.0%)

t2           22648   20898      14 (  0.1%)      40 (  0.2%)      46 (  0.2%)       0 (  0.0%)

rh2          22199   20587     224 (  1.1%)     183 (  0.9%)     183 (  0.9%)       0 (  0.0%)

u10          22267   19661      16 (  0.1%)      34 (  0.2%)      36 (  0.2%)    3213 ( 16.3%)

v10          22267   19661      16 (  0.1%)      34 (  0.2%)      36 (  0.2%)    3213 ( 16.3%)

logvis       13653       0

METARS          8450 observations

                8450 had prior reject of whole report and are not included below.

                   0 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

SHIPS           1316 observations

                   0 had prior reject of whole report and are not included below.

                   8 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

Pstar         1209    1181      12 (  1.0%)      16 (  1.4%)      17 (  1.4%)       0 (  0.0%)

Pmsl          1209    1181      12 (  1.0%)       0 (  0.0%)      12 (  1.0%)       0 (  0.0%)

t2            1167    1121       4 (  0.4%)       7 (  0.6%)       7 (  0.6%)       0 (  0.0%)

rh2            944     857       1 (  0.1%)       2 (  0.2%)       2 (  0.2%)       0 (  0.0%)

u10            984     963       9 (  0.9%)      11 (  1.1%)      12 (  1.2%)       0 (  0.0%)

v10            984     963       9 (  0.9%)      11 (  1.1%)      12 (  1.2%)       0 (  0.0%)

logvis         388       0

DRIFTERS        8439 observations

                   0 had prior reject of whole report and are not included below.

                1254 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

Pstar         4386    4352       7 (  0.2%)       8 (  0.2%)       9 (  0.2%)       0 (  0.0%)

Pmsl          4386    4352       7 (  0.2%)       0 (  0.0%)       7 (  0.2%)       0 (  0.0%)

t2              80       0

rh2             80       0

u10              5       0

v10              5       0

BUOY            2864 observations

                   5 had prior reject of whole report and are not included below.

                 922 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

Element        rep  usable   background       buddy            final            no-assim

Pstar         1092    1091       0 (  0.0%)       4 (  0.4%)       4 (  0.4%)       0 (  0.0%)

Pmsl          1092    1091       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

t2            1381    1361       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

rh2            895     872     462 ( 53.0%)     456 ( 52.3%)     462 ( 53.0%)       0 (  0.0%)

u10           1338    1298       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

v10           1338    1298       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

logvis          39       0

PLAT/RIGG        650 observations

                   0 had prior reject of whole report and are not included below.

                   2 were surplus (near-duplicate) reports and are not included below.

                   0 had other reject of whole report, they are included below.

Element        rep  usable   background       buddy            final            no-assim

Pstar          493     493       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

Pmsl           493     493       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

t2             538     532       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

rh2            495     489       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)       0 (  0.0%)

u10            322     317       0 (  0.0%)       1 (  0.3%)       1 (  0.3%)       0 (  0.0%)

v10            322     317       0 (  0.0%)       1 (  0.3%)       1 (  0.3%)       0 (  0.0%)

logvis         413       0

   The usable reports are those without a prior reject flag.

"rep" = number reported, other columns only include "usable" observations.

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Total Varobs Surface obs         =    34158

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