**Update on CreateODB in OPS32**

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**20151203**

**Problem Summary (20151120)**

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**Types had problem in previous meeting:**

|  |  |  |
| --- | --- | --- |
| **ObsType** | **No. Obs in Bufr File** | **No. Obs in ODB** |
| AIRS | **88515** | 88515 (OK) |
| IASI | **16200** | **2490 (testing, took too long)** |
| ATOVS | **810208** | **57232 (testing, took too long)** |
| ATMS | **86400** | **86400 (OK)** |
| GPSRO | 586 | 586 (OK) |

1. **Obs Types are being disabled: CrIS,WindSat,MTsatClear**

**CriS is enabled in our OPS, createODB is working after running bufr\_split on cris.bufr Accoring to Tan. Being tested now.**

1. **Aircraft (ASDAR) appears to have higher rejection rate,**

**Some obs in ODB has missing dates. Need to check.**

**AMV is largely working OK now.**

**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

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     Total ODB Aircraft obs           =   221470

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    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.

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     Total Varobs Aircraft obs        =    25416

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APS3:

Total number of AIREPS           =     3196

Total number of AMDARS           =   221935

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Total ODB Aircraft obs           =   225131

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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.

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Total Varobs Aircraft obs        =    23393

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**2.  Sonde**

**APS2:**

     Total number of TEMP             =      638

     Total number of PILOT            =      255

     Total number of DROPSOND         =        0

     Total number of WINPRO           =     2633

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     Total ODB Sonde obs              =     3526

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    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.

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     Total Varobs Sonde obs           =     1124

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**APS3:**

Total number of PILOT            =      255

Total number of WINPRO           =     2643

Total number of TEMP             =      638

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Total ODB Sonde obs              =     3536

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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.

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Total Varobs Sonde obs           =     1171

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**3. AIRS**

**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.

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     Total Varobs AIRS obs            =    10761

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**APS3:**

**Ops\_QcStats**

**Total number of AIRSWF = 88515**

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**Total ODB AIRS obs = 88515**

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

**AIRS observations processed via SatRad**

**The following channel stats are computed prior to StationList Thinning**

**EOS2 AIRS <!-- St OPS SR OminB 784 2015 4 28 0 XX99 -->**

**=========**

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**Channel stats:**

**channel count mean O-B sd O-B**

**3 49439 0.1582 0.9679**

**6 50412 0.1781 0.9124**

**9 50431 0.1394 0.8398**

**10 50277 0.1412 0.9120**

**11 51270 0.2336 0.8396**

**13 50343 0.1702 0.8312**

**14 50915 0.2079 0.8027**

**18 50328 0.1439 0.7313**

**21 50334 0.1408 0.6957**

**29 51273 0.2182 0.6489**

**31 53445 0.3481 0.5911**

**44 50480 0.1653 0.6211**

**45 51025 0.1896 0.6170**

**46 50539 0.1529 0.6299**

**47 50911 0.1692 0.6036**

**49 50543 0.1546 0.6462**

**50 50835 0.1629 0.6624**

**52 50531 0.1671 0.6689**

**53 50727 0.1726 0.6646**

**55 50528 0.1689 0.6566**

**56 50694 0.1695 0.6746**

**57 50585 0.1690 0.6083**

**59 50303 0.1583 0.6629**

**60 50500 0.1486 0.6463**

**61 47614 0.1441 0.5180**

**62 47573 0.1269 0.5299**

**63 45893 0.0694 0.4733**

**64 46244 0.0855 0.5435**

**66 45312 0.0704 0.5484**

**67 42279 0.0193 0.4611**

**68 44266 0.0659 0.4897**

**70 40903 0.0152 0.4774**

**72 39445 0.0129 0.4515**

**73 41988 0.0476 0.4124**

**75 42950 0.1035 0.4108**

**76 37831 0.0154 0.3904**

**77 37891 0.0025 0.4184**

**78 39995 0.0257 0.4178**

**80 37373 0.0079 0.3968**

**81 36951 -0.0140 0.3875**

**83 37514 0.0124 0.4000**

**84 36241 -0.0259 0.4041**

**85 33998 -0.0161 0.3813**

**86 32793 -0.0440 0.3929**

**87 34672 0.0007 0.3807**

**88 21996 -0.0407 0.3518**

**89 22897 -0.0305 0.3484**

**90 20292 -0.0311 0.3537**

**91 22142 -0.0131 0.4028**

**92 19089 -0.0286 0.3874**

**93 21939 -0.0190 0.3454**

**94 17301 -0.0928 0.3633**

**95 19338 -0.0345 0.3554**

**96 18905 -0.0315 0.3444**

**98 21153 0.0270 0.3755**

**102 16493 -0.0467 0.3213**

**104 30954 -0.0842 0.3564**

**105 15868 -0.0985 0.3514**

**106 14558 -0.0842 0.3812**

**107 14534 -0.0486 0.3720**

**110 13363 0.0359 0.4763**

**111 13452 0.0132 0.4480**

**112 13457 0.0046 0.4585**

**113 13503 0.0100 0.4727**

**114 13637 0.0207 0.5055**

**115 13652 -0.0186 0.4124**

**117 13689 0.0085 0.4860**

**119 13585 -0.0195 0.4817**

**120 13704 0.0231 0.4800**

**122 15288 0.1906 0.6662**

**124 12969 0.1526 0.6081**

**125 12991 0.1892 0.6658**

**127 12958 0.2121 0.6696**

**128 12800 0.2819 0.8129**

**130 14768 0.2516 0.8951**

**132 12768 0.2503 0.8536**

**133 12763 0.3018 0.9140**

**134 12761 0.2916 0.8724**

**135 14815 0.2072 0.8129**

**136 14762 0.2096 0.8943**

**137 14760 0.1923 0.8531**

**139 14770 0.1555 0.7477**

**140 14767 0.1728 0.8995**

**141 12759 0.2329 0.7725**

**165 14758 0.2179 0.8475**

**166 12765 0.1836 0.6184**

**167 12760 0.2846 0.7624**

**168 14764 0.2114 0.9216**

**169 12777 0.2017 0.6803**

**170 12761 0.2415 0.7841**

**171 12760 0.2323 0.8026**

**172 12761 0.2312 0.8084**

**173 13381 0.1745 0.8102**

**174 12758 0.2098 0.7110**

**175 13609 0.2210 0.7959**

**176 13439 0.2310 0.7595**

**177 12758 0.2039 0.7101**

**178 12759 0.1895 0.7213**

**179 12778 0.1576 0.6199**

**180 12761 0.1914 0.6415**

**181 12796 0.1887 0.6597**

**182 13349 0.1260 0.6741**

**183 13447 0.0792 0.5379**

**188 14249 0.0950 0.7310**

**189 15603 0.0687 0.9730**

**190 13864 0.1331 0.8319**

**191 14632 0.1189 0.9476**

**192 21902 0.2478 1.4117**

**193 16162 0.0661 0.5966**

**194 14552 0.1171 0.9390**

**195 15030 0.0964 0.5853**

**196 15130 0.0958 0.7236**

**197 15170 0.1074 0.9849**

**198 15810 0.1330 1.1356**

**199 16671 0.1660 1.1798**

**200 16682 0.1333 1.2040**

**201 15434 0.1089 1.0680**

**202 17501 0.1452 1.3568**

**203 19738 0.2359 1.4770**

**204 17140 0.1419 1.3396**

**205 16439 0.1180 1.2337**

**207 17866 0.1573 1.4002**

**208 19289 0.2125 1.4599**

**210 17585 0.1503 1.3563**

**211 20001 0.2621 1.5927**

**214 19766 0.2403 1.5531**

**215 21283 0.3010 1.6201**

**217 22768 0.3514 1.6586**

**218 22267 0.3337 1.6002**

**219 24644 0.3857 1.5954**

**221 25364 0.3780 1.4926** **223 26511 0.3626 1.3756**

**224 22136 0.3368 1.5595**

**225 23354 0.3669 1.5806**

**228 23980 0.3698 1.6112**

**229 23309 0.3454 1.5858**

**231 22631 0.3665 1.6409**

**233 18366 0.2424 1.4529**

**234 18010 0.2522 1.4678**

**235 18489 0.2635 1.5253**

**-------------- <!-- Fi OPS SR OminB 784 2015 4 28 0 XX99 -->**

**Ops\_QcStats**

**2015 4 28 0 AIRS 88515 obs**

**AIRS 88515 observations**

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

**59444 were surplus (near-duplicate) reports and are not included below.**

**18269 had other reject of whole report, they are included below.**

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

**t 600839 0**

**rh 363298 0**

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

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

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

**Total Varobs AIRS obs = 10802**

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

**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.

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     Total Varobs GPSRO obs           =      495

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

**Total number of GPSRO = 586**

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

**Total ODB GPSRO obs = 586**

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

**Ops\_QcStats**

**2015 4 28 0 GPSRO 586 obs**

**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.**

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**Total Varobs GPSRO obs = 495**

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

**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.

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     Total Varobs Scatwind obs        =    11859

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**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.

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Total Varobs Scatwind obs        =    11825

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**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.

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     Total Varobs CrIS obs            =     9667

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**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.

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     Total Varobs ATMS obs            =    17680

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**APS3:**

**Total number of ATMS = 86400**

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

**Total ODB ATMS obs = 86400**

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

**ATMS observations processed via SatRad**

**The following channel stats are computed prior to StationList Thinning**

**JPSS0 ATMS <!-- St OPS SR OminB 224 2015 4 28 0 XX99 -->**

**==========**

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**Channel stats:**

**channel count mean O-B sd O-B**

**6 14852 0.0811 0.1593**

**7 23702 0.0994 0.1302**

**8 36361 0.0784 0.1275**

**9 36361 0.0848 0.1385**

**10 45693 0.0870 0.2003**

**11 45693 0.1553 0.2168**

**12 45693 0.2537 0.2409**

**13 45693 0.2824 0.3987**

**14 45693 -0.0048 0.6243**

**15 45693 1.5672 1.5213**

**18 13258 0.2761 0.9600**

**19 16611 0.0279 0.9700**

**20 16611 0.0830 1.0639**

**21 18669 0.0629 1.4528**

**22 18669 0.1972 1.5369**

**-------------- <!-- Fi OPS SR OminB 224 2015 4 28 0 XX99 -->**

**Ops\_QcStats**

**2015 4 28 0 ATMS 86400 obs**

**ATMS 86400 observations**

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

**63878 were surplus (near-duplicate) reports and are not included below.**

**4578 had other reject of whole report, they are included below.**

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

**t 771678 0**

**rh 466596 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 ATMS obs = 17944**

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

**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.

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     Total Varobs MTSATClear obs      =     8756

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**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.

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     Total Varobs IASI obs            =    17150

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**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.

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Total Varobs IASI obs            =     1570

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**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 ODB Satwind obs = 643130**

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

**Ops\_QcStats**

**2015 4 28 0 Satwind 643130 obs**

**GOES & MODIS 317855 observations**

**215039 had prior reject of whole report and are not included below.**

**96184 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 6632 0**

**u 6632 6632 20 ( 0.3%) 0 ( 0.0%) 20 ( 0.3%) 0 ( 0.0%)**

**v 6632 6632 20 ( 0.3%) 0 ( 0.0%) 20 ( 0.3%) 0 ( 0.0%)**

**NESDIS new 2493 observations**

**2493 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**

**JMAWINDS 115546 observations**

**108188 had prior reject of whole report and are not included below.**

**5943 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 1415 0**

**u 1415 1415 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%)**

**v 1415 1415 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%)**

**MSGWINDS 172833 observations**

**137046 had prior reject of whole report and are not included below.**

**31207 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 4580 0**

**u 4580 4580 29 ( 0.6%) 0 ( 0.0%) 29 ( 0.6%) 0 ( 0.0%)**

**v 4580 4580 29 ( 0.6%) 0 ( 0.0%) 29 ( 0.6%) 0 ( 0.0%)**

**ESACMW-IR 9009 observations**

**7547 had prior reject of whole report and are not included below.**

**885 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 577 0**

**u 577 577 2 ( 0.3%) 0 ( 0.0%) 2 ( 0.3%) 0 ( 0.0%)**

**v 577 577 2 ( 0.3%) 0 ( 0.0%) 2 ( 0.3%) 0 ( 0.0%)**

**ESAHRVW 267 observations**

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

**43 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 49 0**

**u 49 49 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%)**

**v 49 49 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%) 0 ( 0.0%)**

**ESAHRWVW 21282 observations**

**17489 had prior reject of whole report and are not included below.**

**2720 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 1073 0**

**u 1073 1073 19 ( 1.8%) 0 ( 0.0%) 19 ( 1.8%) 0 ( 0.0%)**

**v 1073 1073 19 ( 1.8%) 0 ( 0.0%) 19 ( 1.8%) 0 ( 0.0%)**

**ESACSWVW 3845 observations**

**3845 had prior reject of whole report and are not included below.**

**3845 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 Satwind obs = 14326**

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

**UV**

**Count TotPen Mean(U) RMS(U) Mean(V) RMS(V)**

**14256 0.5173E+04 -0.0866 3.0912 -0.1237 2.7318**

**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

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

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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