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INTRODUCTION:

These merges were created using the data in the NASA DC3 archive (<http://www-air.larc.nasa.gov>) as of May 09, 2018. Files were created for DC3 flights 1-18 on the DC8 aircraft. Names of the merge files are as:

```
dataID_locationID_YYYYMMDD_R#[_comments].extension
  where dataID="dc3-mrgWAS-dc8" for the merge of the data on
the DC8 aircraft to the WAS dataset time reference
  locationID="merge"
  YYYYMMDD=aircraft flight date
  R#=R0, R1, or appropriate revision number
  [_comments] = optional comments
  extension = ict
```

In addition, a "grand merge" will be provided. This will include data from all the individual merged flights throughout the mission. This grand merge will follow the name convention above (i.e. "dc3-mrgWAS-dc8\_merge\_20120518\_R7\_thru20120622.ict", with the comment "\_thru20120622" indicating the last flight date included).

If any portion of the averaging period contains a Limit of Detection (LOD) value for a given measurement, the average is marked with an LOD flag. For the merge, all missing data = -999999, Lower LOD=-888888 and Upper LOD=-777777.

The merge is in the ICARTT format. Information on the LOD values are included in the header of the individual flight merges. This information is not included in the merges because calculation varies from flight to flight and species to species.

In some cases, variable names have been amended (e.g. to clarify the PI in the case of duplicate measurements). Additionally, units have been standardized throughout the merge. See below for the specific variable name or unit changes.

We welcome any comments and suggestions for making the merges as user-friendly as possible. Please direct any feedback to Michael Shook ([michael.shook@nasa.gov](mailto:michael.shook@nasa.gov), 757-864-5793) with a cc to Gao Chen ([Gao.Chen@nasa.gov](mailto:Gao.Chen@nasa.gov), 757-864-2290).

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DATA COMMENTS:

R0 changes:

-Merge files now incorporate data added/modified by PIs as of February 05, 2013.

R1 changes:

-Merge files now incorporate data added/modified by PIs as of March 26, 2013.

-New datasets have been added (e.g. DC3-BrnC, DC3-CIT-GLYC, DC3-GFS-FNL-TROP)

-Two typos in the LARGE-APS-PSL units have been corrected (# cm-3 --> um2 cm-3, # cm-3 ---> um3 cm-3)

-A typo in the NOAA-RH\_UHSASstats variables has been corrected (AsymmetryParam\_70to1200nmDopt\_NOAA-RH ---> AsymmetryParam\_70to1200nmDopt\_NOAA-RH-UHSAS)

R2 changes:

-Merge files now incorporate data added/modified by PIs as of November 25, 2013 for later flights (2012/05/25 and later).

-Merges for earlier flights will be uploaded as DACOM data is added to the archive

-Grand merges (other than for the 01 second merges) will be added after all DACOM data is added to the archive

-Fixed an error where BrnC and PINEPH data were erroneously excluded from previous merge

-Fixed some renames of complicated compounds (e.g. CIT-HAC as "Hydroxyacetone", PAA-CIT, PROPNN-CIT)

-Incorporated Paul Bui's MMS scaling factors into the merge (MMS data in the merge no longer needs to be scaled)

R3 changes:

-Merge files now incorporate data added/modified by PIs as of November 26, 2013 (includes updated versions of DACOM for the entire campaign).

-Merges include preliminary NOyO3 data, with permission from Tom Ryerson.

R4 changes:

-Merge files now incorporate data added/modified by PIs as of March 03, 2014 (includes updated NOyO3 and PTRMS datasets).

R5 changes:

-Merge files now incorporate data added/modified by PIs as of June 09, 2014 (includes updated DLH, PALMS, and PINEPH-SCAT datasets).

-Updated the processing for OMI O3 column data (now interpolates missing data within a larger domain, replaces missing data with -9999s instead of 0s).

R6 changes:

-Merge files now incorporate data added/modified by PIs as of May 19, 2015 (includes updated CIT-HCN, DACOM, DLH, and NOAA-AeroExt files).

-Per Jose Jimenez, fixed rename of OM\_OC\_lt\_lum\_AMS (changed from "OMtoO-Cratio-ratio-lt-lum\_AMS" to "OAtOOC\_ratio-lt-lum\_AMS" in the merge)

R7 changes:

-Merge files now incorporate data added/modified by PIs as of January 12, 2016.

-Updated datasets include WAS and DASH-HYGRO.

R8 changes:

-Merge files now incorporate data added/modified by PIs as of January 17, 2017.

R9 changes:

-Merge files now incorporate data added/modified by PIs as of November 29, 2017.

-Updated datasets include LARGE-APS-PSL, LARGE-LAS-PSL, LARGE-UHSAS-PSL, and LARGE-UHSAS-AmmSO4.

R10 changes:

-Merge files now incorporate data added/modified by PIs as of May 09, 2018.

-Updated datasets include HOx and OHReactivity.

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DC3-DC8 MERGE VARIABLES

(variables listed in order of merge)

VARIABLE NAME,Unit Conversion (if changed)\*,Original Name,DATA ID

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- 1.UTC, ("seconds" to "s"),Start.UTC,dc3-dc8Hskping
- 2.JDAY,,,
- 3.INDEX,,,
- 4.FLIGHT,,,
- 5.LOCAL\_SUN\_TIME,,,
- 6.LATITUDE,,Latitude,dc3-dc8Hskping
- 7.LONGITUDE,,Longitude,dc3-dc8Hskping
- 8.ALTP, ("feet" to "km"),Pressure\_Altitude,dc3-dc8Hskping
- 9.PRESSURE, ("mb" to "hPa"),Static\_Pressure,dc3-dc8Hskping
- 10.TEMPERATURE, ("Celsius" to "K"),Static\_Air\_Temp,dc3-dc8Hskping
- 11.THETA,,,
- 12.O3COLUMN,,,
- 13.SZA,,,
- 14.WNS,,Wind\_Speed,dc3-dc8Hskping
- 15.WND, ("deg (0-360)" to "deg"),Wind\_Direction,dc3-dc8Hskping
- 16.GPS\_ALT, ("m" to "km"),GPS\_Altitude,dc3-dc8Hskping
- 17.RadarAlt, ("feet" to "km"),Radar\_Altitude,dc3-dc8Hskping
- 18.GRD\_SPD, ("m/s" to "m s-1"),Ground\_Speed,dc3-dc8Hskping
- 19.TAS, ("m/s" to "m s-1"),True\_Air\_Speed,dc3-dc8Hskping
- 20.IAS, ("kts" to "m/s"),Indicated\_Air\_Speed,dc3-dc8Hskping
- 21.MachNumber,,Mach\_Number,dc3-dc8Hskping
- 22.VerticalSpeed, ("m/s" to "m s-1"),Vertical\_Speed,dc3-dc8Hskping
- 23.HDG, ("deg (0-360)" to "degs"),True\_Heading,dc3-dc8Hskping
- 24.TRK, ("deg (0-360)" to "degs"),Track\_Angle,dc3-dc8Hskping
- 25.DriftAngle, ("deg" to "degs"),Drift\_Angle,dc3-dc8Hskping
- 26.PITCH, ("deg (+-180)" to "degs"),Pitch\_Angle,dc3-dc8Hskping

27.ROLL, ("deg (+-180)" to "degs"), Roll\_Angle, dc3-dc8Hskping  
28.Dewpoint, ("Celsius" to "K"), Dew\_Point\_3-Stage, dc3-dc8Hskping  
29.TotalTemp\_Aircraft, ("Celsius" to "K"), TAT\_Aircraft, dc3-dc8Hskping  
30.IR\_SurfTemp, ("Celsius" to "K"), IR\_Surf\_Temp, dc3-dc8Hskping  
31.CabinPressure, ("mb" to "hPa"), Cabin\_Pressure, dc3-dc8Hskping  
32.SolarZenithAngle, ("deg" to "degs"), Solar\_Zenith\_Angle, dc3-dc8Hskping  
33.AircraftSunElevation, ("deg" to "degs"), Aircraft\_Sun\_Elevation, dc3-dc8Hskping  
34.SunAzimuth, ("deg" to "degs"), Sun\_Azimuth, dc3-dc8Hskping  
35.AircraftSunAzimuth, ("deg" to "degs"), Aircraft\_Sun\_Azimuth, dc3-dc8Hskping  
36.MixingRatio, ("g/kg" to "g kg-1"), Mixing\_Ratio, dc3-dc8Hskping  
37.VaporPresWater, ("mb" to "hPa"), Part\_Press\_Water\_Vapor, dc3-dc8Hskping  
38.SatVaporPresWater, ("mb" to "hPa"), Sat\_Vapor\_Press\_H2O, dc3-dc8Hskping  
39.SatVaporPresIce, ("mb" to "hPa"), Sat\_Vapor\_Press\_Ice, dc3-dc8Hskping  
40.RelativeHumidity, ("Percent" to "%"), Relative\_Humidity\_H2O, dc3-dc8Hskping  
41.StaticPressure\_MMS, , P, dc3-MMS-MetData  
42.StaticTemp\_MMS, , T, dc3-MMS-MetData  
43.TAS\_MMS, ("m/s" to "m s-1"), TAS, dc3-MMS-MetData  
44.U\_MMS, ("m/s" to "m s-1"), U, dc3-MMS-MetData  
45.V\_MMS, ("m/s" to "m s-1"), V, dc3-MMS-MetData  
46.W\_MMS, ("m/s" to "m s-1"), W, dc3-MMS-MetData  
47.TurbDissipationRate\_MMS, ("kW/kg" to "kW kg-1"), TEDR, dc3-MMS-MetData  
48.ReynoldsNumber\_MMS, ("/m" to "m-1"), REYN, dc3-MMS-MetData  
49.GPS\_LAT\_MMS, ("deg +N" to "degs"), G\_LAT, dc3-MMS-MetData  
50.GPS\_LON\_MMS, ("deg +E" to "degs"), G\_LONG, dc3-MMS-MetData  
51.GPS\_ALT\_MMS, ("m" to "km"), G\_ALT, dc3-MMS-MetData  
52.THETA\_MMS, , POT, dc3-MMS-MetData  
53.ROLL\_MMS, ("deg" to "degs"), ROLL, dc3-MMS-MetData  
54.HDG\_MMS, ("deg" to "degs"), HDG, dc3-MMS-MetData  
55.PITCH\_MMS, ("deg" to "degs"), PITCH, dc3-MMS-MetData  
56.GFS\_TROP\_HGT, ("m" to "km"), GFS\_TROP\_HGT, DC3-GFS-FNL-TROP  
57.GFS\_TROP\_PRESS, ("Pa" to "hPa"), GFS\_TROP\_PRESS, DC3-GFS-FNL-TROP  
58.GFS\_TROP\_TEMP, , GFS\_TROP\_TEMP, DC3-GFS-FNL-TROP  
59.GFS\_2PVU\_HGT, ("m" to "km"), GFS\_2PVU\_HGT, DC3-GFS-FNL-TROP  
60.GFS\_2PVU\_PRESS, ("Pa" to "hPa"), GFS\_2PVU\_PRESS, DC3-GFS-FNL-TROP  
61.GFS\_2PVU\_TEMP, , GFS\_2PVU\_TEMP, DC3-GFS-FNL-TROP  
62.CO2\_MixingRatio, , CO2, dc3-co2  
63.CO\_DACOM, , CO\_ppbv\_DACOM, DC3-DACOM  
64.CH4\_DACOM, , CH4\_ppbv\_DACOM, DC3-DACOM  
65.N2O\_DACOM, , N2O\_ppbv\_DACOM, DC3-DACOM  
66.H2O\_vapor\_DLH, ("Water Vapor Mixing Ratio" to "ppmv"), H2O\_ppmv, DC3-DLH  
67.CH2O\_LIF, , CH2O\_LIF, DC3-ISAF-H2CO  
68.CH2O\_DFGAS, , CH2O\_pptv, DC3-CU-DFGAS-CH2O  
69.NO2\_ESRL, , NO2\_CL, DC3-NOyO3-NO2  
70.NOy\_ESRL, , NOy\_CL, DC3-NOyO3-NOy  
71.NO\_ESRL, , NO\_CL, DC3-NOyO3-NO  
72.O3\_ESRL, , O3\_CL, DC3-NOyO3-O3  
73.NO2\_TDLIF, , NO2\_LIF, DC3-TDLIF-NO2  
74.MPN\_TDLIF, , MPN, DC3-TDLIF-NO2  
75.PNs\_TDLIF, , PNs, DC3-TDLIF-NO2  
76.ANs\_TDLIF, , ANs, DC3-TDLIF-NO2  
77.HNO3\_SAGA, , HNO3\_SAGA, DC3-SAGA

78.Sulfate\_lt\_1um\_MCIC\_SAGA,,Sulfate\_lt\_1um\_MCIC,DC3-SAGA  
79.PAN\_GTCIMS,,PAN\_GTCIMS,DC3-GTCIMS-PANS  
80.PPN\_GTCIMS,,PPN\_GTCIMS,DC3-GTCIMS-PANS  
81.SO2\_GTCIMS,,SO2\_GTCIMS,DC3-GTCIMS-SO2  
82.HCl\_GTCIMS,,HCl\_GTCIMS,DC3-GTCIMS-SO2  
83.HNO4\_GTCIMS,,HNO4\_GTCIMS,DC3-GTCIMS-SO2  
84.OH\_HOx,,OH\_pptv,DC3-HOx  
85.HO2\_HOx,,HO2\_pptv,DC3-HOx  
86.OH\_Reactivity,("1/s" to "s-1"),OHReactivity,DC3-OHReactivity  
87.OH\_Reactivity\_TubeTemp,("Kelvin" to "K"),TubeTemp,DC3-OHReactivity  
88.OH\_Reactivity\_TubePress,,TubePress,DC3-OHReactivity  
89.J[O3->O2+O(1D)],("/s" to "s-1"),J[O3->O2+O(1D)],DC3-CAFS  
90.J[NO2->NO+O(3P)],("/s" to "s-1"),J[NO2->NO+O(3P)],DC3-CAFS  
91.J[N2O5->NO3+NO2],("/s" to "s-1"),J[N2O5->NO3+NO2],DC3-CAFS  
92.J[H2O2->2OH],("/s" to "s-1"),J[H2O2->2OH],DC3-CAFS  
93.J[HNO2->OH+NO],("/s" to "s-1"),J[HNO2->OH+NO],DC3-CAFS  
94.J[HNO3->OH+NO2],("/s" to "s-1"),J[HNO3->OH+NO2],DC3-CAFS  
95.J[CH2O->H+HCO],("/s" to "s-1"),J[CH2O->H+HCO],DC3-CAFS  
96.J[CH2O->H2+CO],("/s" to "s-1"),J[CH2O->H2+CO],DC3-CAFS  
97.J[CH3CHO->CH3+HCO],("/s" to "s-1"),J[CH3CHO->CH3+HCO],DC3-CAFS  
98.J[C2H5CHO->C2H5+HCO],("/s" to "s-1"),J[C2H5CHO->C2H5+HCO],DC3-CAFS  
99.J[CHOCHO->CH2O+CO],("/s" to "s-1"),J[CHOCHO->CH2O+CO],DC3-CAFS  
100.J[CHOCHO->HCO+HCO],("/s" to "s-1"),J[CHOCHO->HCO+HCO],DC3-CAFS  
101.J[CHOCHO->H2+2CO],("/s" to "s-1"),J[CHOCHO->H2+2CO],DC3-CAFS  
102.J[CH3COCHO->products],("/s" to "s-1"),J[CH3COCHO->products],DC3-CAFS  
103.J[CH3COCH3->CH3CO+CH3],("/s" to "s-1"),J[CH3COCH3->CH3CO+CH3],DC3-CAFS  
104.J[CH3OOH->CH3O+OH],("/s" to "s-1"),J[CH3OOH->CH3O+OH],DC3-CAFS  
105.J[CH3ONO2->CH3O+NO2],("/s" to "s-1"),J[CH3ONO2->CH3O+NO2],DC3-CAFS  
106.J[PAN->CH3COO2+NO2],("/s" to "s-1"),J[PAN->CH3COO2+NO2],DC3-CAFS  
107.J[CH3CH2CH2CHO->C3H7+HCO],("/s" to "s-1"),J[CH3CH2CH2CHO->C3H7+HCO],DC3-CAFS  
108.J[CH3CH2CH2CHO->C2H4+CH2CHOH],("/s" to "s-1"),J[CH3CH2CH2CHO->C2H4+CH2CHOH],DC3-CAFS  
109.J[CH3COCH2CH3->Products],("/s" to "s-1"),J[CH3COCH2CH3->Products],DC3-CAFS  
110.J[CH3CH2ONO2->Products],("/s" to "s-1"),J[CH3CH2ONO2->Products],DC3-CAFS  
111.J[HO2NO2->HO2+NO2],("/s" to "s-1"),J[HO2NO2->HO2+NO2],DC3-CAFS  
112.J[HO2NO2->OH+NO3],("/s" to "s-1"),J[HO2NO2->OH+NO3],DC3-CAFS  
113.J[BrCl->Br+Cl],("/s" to "s-1"),J[BrCl->Br+Cl],DC3-CAFS  
114.J[HOBr->HO+Br],("/s" to "s-1"),J[HOBr->HO+Br],DC3-CAFS  
115.J[BrO->Br+O],("/s" to "s-1"),J[BrO->Br+O],DC3-CAFS  
116.J[Br2->Br+Br],("/s" to "s-1"),J[Br2->Br+Br],DC3-CAFS  
117.J[Br2O->Products],("/s" to "s-1"),J[Br2O->Products],DC3-CAFS  
118.J[BrONO2->Br+NO3],("/s" to "s-1"),J[BrONO2->Br+NO3],DC3-CAFS  
119.J[BrONO2->BrO+NO2],("/s" to "s-1"),J[BrONO2->BrO+NO2],DC3-CAFS  
120.J[ClONO2->Cl+NO3],("/s" to "s-1"),J[ClONO2->Cl+NO3],DC3-CAFS  
121.J[ClONO2->ClO+NO2],("/s" to "s-1"),J[ClONO2->ClO+NO2],DC3-CAFS  
122.J[Cl2->Cl+Cl],("/s" to "s-1"),J[Cl2->Cl+Cl],DC3-CAFS  
123.Org\_lt\_1um\_AMS,,Org\_lt\_1um\_AMS,DC3-AMS  
124.Sulfate\_lt\_1um\_AMS,,Sulfate\_lt\_1um\_AMS,DC3-AMS  
125.Nitrate\_lt\_1um\_AMS,,Nitrate\_lt\_1um\_AMS,DC3-AMS  
126.Ammonium\_lt\_1um\_AMS,,Ammonium\_lt\_1um\_AMS,DC3-AMS

127.Chloride\_lt\_lum\_AMS,,Chloride\_lt\_lum\_AMS,DC3-AMS  
128.STP2AMB\_factor\_AMS, (" to "none"),StdtoVol\_AMS,DC3-AMS  
129.IceFlag\_AMS, (" to "#"),IceFlag\_AMS,DC3-AMS  
130.OtoC\_ratio\_lt\_lum\_AMS, (" to "none"),O\_C\_lt\_lum\_AMS,DC3-AMS  
131.HtoC\_ratio\_lt\_lum\_AMS, (" to "none"),H\_C\_lt\_lum\_AMS,DC3-AMS  
132.OAtoOC\_ratio\_lt\_lum\_AMS, (" to "none"),OM\_OC\_lt\_lum\_AMS,DC3-AMS  
133.f43\_lt\_lum\_AMS, (" to "none"),f43\_lt\_lum\_AMS,DC3-AMS  
134.f44\_lt\_lum\_AMS, (" to "none"),f44\_lt\_lum\_AMS,DC3-AMS  
135.f57\_lt\_lum\_AMS, (" to "none"),f57\_lt\_lum\_AMS,DC3-AMS  
136.f60\_lt\_lum\_AMS, (" to "none"),f60\_lt\_lum\_AMS,DC3-AMS  
137.OrgNitrateFraction\_lt\_lum\_AMS, (" to  
"fraction"),OrgNitrate\_Fraction\_lt\_lum\_AMS,DC3-AMS  
138.Na\_SAGAAERO, ("ug/m3" to "ug m-3"),Na\_ug/m3,DC3-SAGAAERO  
139.NH4\_SAGAAERO, ("ug/m3" to "ug m-3"),NH4\_ug/m3,DC3-SAGAAERO  
140.K\_SAGAAERO, ("ug/m3" to "ug m-3"),K\_ug/m3,DC3-SAGAAERO  
141.Mg\_SAGAAERO, ("ug/m3" to "ug m-3"),Mg\_ug/m3,DC3-SAGAAERO  
142.Ca\_SAGAAERO, ("ug/m3" to "ug m-3"),Ca\_ug/m3,DC3-SAGAAERO  
143.Cl\_SAGAAERO, ("ug/m3" to "ug m-3"),Cl\_ug/m3,DC3-SAGAAERO  
144.Br\_SAGAAERO, ("ug/m3" to "ug m-3"),Br\_ug/m3,DC3-SAGAAERO  
145.NO3\_SAGAAERO, ("ug/m3" to "ug m-3"),NO3\_ug/m3,DC3-SAGAAERO  
146.SO4\_SAGAAERO, ("ug/m3" to "ug m-3"),SO4\_ug/m3,DC3-SAGAAERO  
147.C2O4\_SAGAAERO, ("ug/m3" to "ug m-3"),C2O4\_ug/m3,DC3-SAGAAERO  
148.WSOC, ("ugC/m3" to "ug m-3"),WSOC\_ug\_m3,dc3-BrnC  
149.ABS-WS365nm\_BrnC,,WS\_Abs365\_Mm\_1,dc3-BrnC  
150.ABS-MS365nm\_BrnC,,MS\_Abs365\_Mm\_1,dc3-BrnC  
151.BCmass\_AccumMode\_HDSP2,,BC\_AccumMode\_mass\_HDSP2,DC3-HDSP2-BC  
152.CCNconc\_STP, ("cm-3" to "# cm-3"),Number\_Concentration\_STP,dc3-CCN  
153.CCNconc\_AMB, ("cm-3" to "# cm-3"),Number\_Concentration,dc3-CCN  
154.CCNinst\_supersaturation,,Supersaturation,dc3-CCN  
155.CNgt3nm,,CNgt3nm,DC3-LARGE-CNC  
156.CNgt10nm,,CNgt10nm,DC3-LARGE-CNC  
157.CNgt10nm\_nonvol,,CNgt10nm\_nonvol,DC3-LARGE-CNC  
158.IntegNdryPSL50to7000nmDaero\_APS, ("#/cm3" to "# cm-  
3"),IntegN\_Daero50to7000nm\_PSL\_APS\_LARGE,DC3-LARGE-APS-PSL  
159.IntegSdryPSL50to7000nmDaero\_APS, ("um2/cm3" to "# cm-  
3"),IntegS\_Daero50to7000nm\_PSL\_APS\_LARGE,DC3-LARGE-APS-PSL  
160.IntegVdryPSL50to7000nmDaero\_APS, ("um3/cm3" to "# cm-  
3"),IntegV\_Daero50to7000nm\_PSL\_APS\_LARGE,DC3-LARGE-APS-PSL  
161.IntegNdryPSL90to7500nmDopt\_LAS, ("#/cm3" to "# cm-  
3"),IntegN\_Dopt90to7500nm\_PSL\_LAS\_LARGE,DC3-LARGE-LAS-PSL  
162.IntegSdryPSL90to7500nmDopt\_LAS, ("um2/cm3" to "um2 cm-  
3"),IntegS\_Dopt90to7500nm\_PSL\_LAS\_LARGE,DC3-LARGE-LAS-PSL  
163.IntegVdryPSL90to7500nmDopt\_LAS, ("um3/cm3" to "um3 cm-  
3"),IntegV\_Dopt90to7500nm\_PSL\_LAS\_LARGE,DC3-LARGE-LAS-PSL  
164.IntegNdry10to340nmDmob\_SMPS\_PSL, ("#/cm3" to "# cm-  
3"),IntegN\_Dmob10to340nm\_PSL\_SMPS\_LARGE,DC3-LARGE-SMPS-PSL  
165.IntegSdry10to340nmDmob\_SMPS\_PSL, ("um2/cm3" to "um2 cm-  
3"),IntegS\_Dmob10to340nm\_PSL\_SMPS\_LARGE,DC3-LARGE-SMPS-PSL  
166.IntegVdry10to340nmDmob\_SMPS\_PSL, ("um3/cm3" to "um3 cm-  
3"),IntegV\_Dmob10to340nm\_PSL\_SMPS\_LARGE,DC3-LARGE-SMPS-PSL  
167.IntegNdry60to1000nmDopt\_AmmSO4\_UHSAS, ("#/cm3" to "# cm-  
3"),IntegN\_Dopt60to1000nm\_AmmSO4\_UHSAS\_LARGE,DC3-LARGE-UHSAS-AmmSO4  
168.IntegSdry60to1000nmDopt\_AmmSO4\_UHSAS, ("um2/cm3" to "um2 cm-  
3"),IntegS\_Dopt60to1000nm\_AmmSO4\_UHSAS\_LARGE,DC3-LARGE-UHSAS-AmmSO4

169. IntegVdry60to1000nmDopt\_AmmSO4\_UHSAS, ("um3/cm3" to "um3 cm-3"), IntegV\_Dopt60to1000nm\_AmmSO4\_UHSAS\_LARGE, DC3-LARGE-UHSAS-AmmSO4  
170. IntegNdryPSL60to1000nmDopt\_UHSAS, ("#/cm3" to "# cm-3"), IntegN\_Dopt60to1000nm\_PSL\_UHSAS\_LARGE, DC3-LARGE-UHSAS-PSL  
171. IntegSdryPSL60to1000nmDopt\_UHSAS, ("um2/cm3" to "um2 cm-3"), IntegS\_Dopt60to1000nm\_PSL\_UHSAS\_LARGE, DC3-LARGE-UHSAS-PSL  
172. IntegVdryPSL60to1000nmDopt\_UHSAS, ("um3/cm3" to "um3 cm-3"), IntegV\_Dopt60to1000nm\_PSL\_UHSAS\_LARGE, DC3-LARGE-UHSAS-PSL  
173. stdPT-to-AMB\_Conversion\_DIVISOR\_NOAA-RH-UHSAS, ("none" to "unitless"), STP\_conv, DC3-NOAA-RH-UHSASstats  
174. MeasurementRH\_NOAA-RH-UHSAS, ("percent" to "%"), Meas\_RH, DC3-NOAA-RH-UHSASstats  
175. AsymmetryParam\_70to1000nmDopt\_NOAA-RH-UHSAS, , Asym\_Param\_070to1000nm\_RH\_NOAA, DC3-NOAA-RH-UHSASstats  
176. IntegN70to1000nmDopt\_NOAA-RH-UHSAS, ("#/cc STP" to "# cm-3"), IntegN\_Dopt070to1000nm\_RH\_NOAA, DC3-NOAA-RH-UHSASstats  
177. IntegS70to1000nmDopt\_NOAA-RH-UHSAS, ("um2/cc STP" to "um2 cm-3"), IntegS\_Dopt070to1000nm\_RH\_NOAA, DC3-NOAA-RH-UHSASstats  
178. IntegV70to1000nmDopt\_NOAA-RH-UHSAS, ("um3/cc STP" to "um3 cm-3"), IntegV\_Dopt070to1000nm\_RH\_NOAA, DC3-NOAA-RH-UHSASstats  
179. SampleVolume\_TDS, , sv, DC3-TDS  
180. ParticleConc\_TDS, ("#/L" to "# L-1"), conc, DC3-TDS  
181. ParticleExt\_TDS, ("1/km" to "km-1"), ext, DC3-TDS  
182. IWC\_TDS, ("g/m3" to "g m-3"), iwc, DC3-TDS  
183. IrregularCNT\_TDS, , irregularCNT, DC3-TDS  
184. Count5to55um\_TDS, , number\_of\_5to55um, DC3-TDS  
185. Count55to255um\_TDS, , number\_of\_55to255um, DC3-TDS  
186. CountGT255um\_TDS, , number\_of\_GT\_255um, DC3-TDS  
187. ABSdry470nm\_PSAP\_LARGE, , Abs\_blue\_dry\_PSAP\_LARGE, DC3-LARGE-ABS  
188. ABSdry532nm\_PSAP\_LARGE, , Abs\_green\_dry\_PSAP\_LARGE, DC3-LARGE-ABS  
189. ABSdry660nm\_PSAP\_LARGE, , Abs\_red\_dry\_PSAP\_LARGE, DC3-LARGE-ABS  
190. ABSdry404nm\_PAS\_NOAA, ("Mm-1\_STP" to "Mm-1"), abs\_404nm\_dry, DC3-NOAA-AeroAbs  
191. ABSdry532nm\_PAS\_NOAA, ("Mm-1\_STP" to "Mm-1"), abs\_532nm\_dry, DC3-NOAA-AeroAbs  
192. ABSdry532nm\_PSAP, , Abs\_green\_dry\_PSAP\_LARGE, DC3-LARGE-EXT  
193. EXTamb532nm\_TSI\_PSAP, , Ext\_green\_ambient\_TSI&PSAP\_LARGE, DC3-LARGE-EXT  
194. EXTdry532nm\_TSI\_PSAP, , Ext\_green\_dry\_TSI&PSAP\_LARGE, DC3-LARGE-EXT  
195. SCATamb532nm\_TSI, , Scat\_green\_ambient\_TSI\_LARGE, DC3-LARGE-EXT  
196. SCATdry532nm\_TSI, , Scat\_green\_dry\_TSI\_LARGE, DC3-LARGE-EXT  
197. EXTdry405nm\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_dry\_405nm, DC3-NOAA-AeroExt  
198. EXTdry532nm\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_dry\_532nm, DC3-NOAA-AeroExt  
199. EXTdry662nm\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_dry\_662nm, DC3-NOAA-AeroExt  
200. EXT532nm\_RH70\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_RH70\_532nm, DC3-NOAA-AeroExt  
201. EXT532nm\_RH75\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_RH75\_532nm, DC3-NOAA-AeroExt  
202. EXT532nm\_RH85\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_RH85\_532nm, DC3-NOAA-AeroExt  
203. EXT532nm\_RH90\_AeroExt, ("Mm-1\_STP" to "Mm-1 STP"), ext\_RH90\_532nm, DC3-NOAA-AeroExt

204.stdPT-to-AMB\_Conversion\_NOAA-AeroExt,,stp\_to\_amb\_corr,DC3-NOAA-AeroExt  
205.SCATdry450nm\_TSI3563,,Scat\_blue\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
206.SCATdry550nm\_TSI3563,,Scat\_green\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
207.SCATdry700nm\_TSI3563,,Scat\_red\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
208.SUBlum\_SCATdry450nm\_TSI3563,,Sublum\_Scat\_blue\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
209.SUBlum\_SCATdry550nm\_TSI3563,,Sublum\_Scat\_green\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
210.SUBlum\_SCATdry700nm\_TSI3563,,Sublum\_Scat\_red\_dry\_TSI3563\_LARGE,DC3-LARGE-SCAT  
211.AngstromExponenetSCAT\_450to700nm,,AE\_Scattering\_450to700nm\_LARGE,DC3-LARGE-OPT  
212.AngstromExponenetSCAT\_450to550nm,,AE\_Scattering\_450to550nm\_LARGE,DC3-LARGE-OPT  
213.AngstromExponenetABS\_450to700nm,,AE\_Absorption\_450to700nm\_LARGE,DC3-LARGE-OPT  
214.AngstromExponenetABS\_450to550nm,,AE\_Absorption\_450to550nm\_LARGE,DC3-LARGE-OPT  
215.SingleScatAlbedo\_dry450nm\_TSI3563,,SSA\_dry\_450nm\_LARGE,DC3-LARGE-OPT  
216.SingleScatAlbedo\_dry550nm\_TSI3563,,SSA\_dry\_550nm\_LARGE,DC3-LARGE-OPT  
217.SingleScatAlbedo\_dry700nm\_TSI3563,,SSA\_dry\_700nm\_LARGE,DC3-LARGE-OPT  
218.SingleScatAlbedo\_amb550nm\_TSI3563,,SSA\_ambient\_550nm\_LARGE,DC3-LARGE-OPT  
219.RHamb,,RHamb,DC3-LARGE-frh  
220.RHdry,,RHdry,DC3-LARGE-frh  
221.RHwet,,RHwet,DC3-LARGE-frh  
222.SCATdry550nm\_TSI3563,,Scat\_green\_dry\_TSI3563\_LARGE,DC3-LARGE-frh  
223.SCATwet550nm\_TSI3563,,Scat\_green\_wet\_TSI3563\_LARGE,DC3-LARGE-frh  
224.gamma550nm,,gamma\_550nm\_LARGE,DC3-LARGE-frh  
225.frh550nm\_RH20to80,,frh\_550nm\_RH20to80\_LARGE,DC3-LARGE-frh  
226.SCATamb550nm\_TSI3563,,Scat\_green\_ambient\_TSI3563\_LARGE,DC3-LARGE-frh  
227.stdPT-to-AMB\_Conversion\_LARGE,,stdPT,DC3-LARGE-frh  
228.SCAT532nm\_PINEPH,("1/Mm" to "Mm-1"),SCAT,DC3-PINEPH-SCAT  
229.AsymParam\_PINEPH,,G,DC3-PINEPH-SCAT  
230.MeasurementPres\_PINEPH,("Pa" to "hPa"),PRES,DC3-PINEPH-SCAT  
231.InletTemp\_PINEPH,("deg C" to "K"),TEMP\_INLET,DC3-PINEPH-SCAT  
232.OutletTemp\_PINEPH,("deg C" to "K"),TEMP\_OUTLET,DC3-PINEPH-SCAT  
233.InletRH\_PINEPH,,RH\_INLET,DC3-PINEPH-SCAT  
234.OutletRH\_PINEPH,,RH\_OUTLET,DC3-PINEPH-SCAT  
235.SelectedDryDiameter\_DASH,("nm" to "km"),Dp,DC3-DASH-HYGRO  
236.RH\_DASH,("Percent" to "%"),RH,DC3-DASH-HYGRO  
237.GrowthFactor\_DASH,,GF,DC3-DASH-HYGRO  
238.SulfOrgNitFrac\_PALMS,,SulfOrgNitFrac\_PALMS,DC3-PALMS  
239.BioBurnFrac\_PALMS,,BioBurnFrac\_PALMS,DC3-PALMS  
240.SootFrac\_PALMS,,SootFrac\_PALMS,DC3-PALMS  
241.MineralFrac\_PALMS,,MineralFrac\_PALMS,DC3-PALMS  
242.MeteoriticFrac\_PALMS,,MeteoriticFrac\_PALMS,DC3-PALMS  
243.SeaSaltFrac\_PALMS,,SeaSaltFrac\_PALMS,DC3-PALMS  
244.OilCombFrac\_PALMS,,OilCombFrac\_PALMS,DC3-PALMS  
245.UnclassFrac\_PALMS,,UnclassFrac\_PALMS,DC3-PALMS

246.OrgSulfMassFrac\_PALMS, ("mass fraction" to "unitless"), OrgSulfMF\_PALMS, DC3-PALMS  
247.IEPOXFrac\_PALMS, , IEPOXmf\_PALMS, DC3-PALMS  
248.GASFrac\_PALMS, , GASmf\_PALMS, DC3-PALMS  
249.SulfNeut\_PALMS, ("molar ratio" to "unitless"), SulfNeut\_PALMS, DC3-PALMS  
250.NPos\_PALMS, ("counts" to "#"), Npos\_PALMS, DC3-PALMS  
251.NNeg\_PALMS, ("counts" to "#"), NNeg\_PALMS, DC3-PALMS  
252.NAcid\_PALMS, ("counts" to "#"), NAcid\_PALMS, DC3-PALMS  
253.C5O3H10\_CIT, , C5O3H10\_CIT, DC3-CIT-C5O3H10  
254.C5O3H8\_CIT, , C5O3H8\_CIT, DC3-CIT-C5O3H8  
255.CH3OOH\_CIT, , CH3OOH\_pptv, DC3-CIT-CH3OOH  
256.EthanalNitrate\_CIT, , ETHLN\_CIT, DC3-CIT-ETHLN  
257.GLYC\_CIT, , GLYC\_pptv, DC3-CIT-GLYC  
258.H2O2\_CIT, , H2O2\_CIT, DC3-CIT-H2O2  
259.Hydroxyacetone\_CIT, , HAC\_CIT, DC3-CIT-HAC  
260.HCN\_CIT, , HCN\_CIT, DC3-CIT-HCN  
261.HNO3\_CIT, , HNO3\_CIT, DC3-CIT-HNO3  
262.IEPOX\_CIT, , IEPOX\_pptv, DC3-CIT-IEPOX  
263.ISOPN\_CIT, , ISOPN\_CIT, DC3-CIT-ISOPN  
264.ISOPOOH\_CIT, , ISOPOOH\_pptv, DC3-CIT-ISOPOOH  
265.PeroxyaceticAcid\_CIT, , PAA\_CIT, DC3-CIT-PAA  
266.PropanoneNitrate\_CIT, , PROPNN\_CIT, DC3-CIT-PROPNN  
267.Acetaldehyde\_PTRMS, , Acetaldehyde\_ppbv, dc3-ptrms-acetaldehyde  
268.AcetonePropanal\_PTRMS, , Acetone\_Propanal\_ppbv, dc3-ptrms-acetone-propanal  
269.Acetonitrile\_PTRMS, , Acetonitrile\_ppbv, dc3-ptrms-acetonitrile  
270.Benzene\_PTRMS, , Benzene\_ppbv, dc3-ptrms-benzene  
271.C8-Aromatics-Benzaldehyde\_PTRMS, , C8-Aromatics\_Benzaldehyde\_ppbv, dc3-ptrms-c8aromatics-benzaldehyde  
272.Isoprene\_PTRMS, , Isoprene\_ppbv, dc3-ptrms-isoprene  
273.Methanol\_PTRMS, , Methanol\_ppbv, dc3-ptrms-methanol  
274.Monoterpenes\_PTRMS, , Monoterpenes\_ppbv, dc3-ptrms-monoterpenes  
275.MVK-MAC\_PTRMS, , MVK\_MAC\_ppbv, dc3-ptrms-mvk-macr  
276.Toluene\_PTRMS, , Toluene\_ppbv, dc3-ptrms-toluene  
277.DMS\_WAS, , DMS\_pptv, dc3-WAS  
278.OCS\_WAS, , OCS\_pptv, dc3-WAS  
279.CFC-12\_WAS, , CFC-12\_pptv, dc3-WAS  
280.CFC-11\_WAS, , CFC-11\_pptv, dc3-WAS  
281.CFC-113\_WAS, , CFC-113\_pptv, dc3-WAS  
282.CFC-114\_WAS, , CFC-114\_pptv, dc3-WAS  
283.H-1211\_WAS, , H-1211\_pptv, dc3-WAS  
284.H-1301\_WAS, , H-1301\_pptv, dc3-WAS  
285.H-2402\_WAS, , H-2402\_pptv, dc3-WAS  
286.HFC-134a\_WAS, , HFC-134a\_pptv, dc3-WAS  
287.HFC-152a\_WAS, , HFC-152a\_pptv, dc3-WAS  
288.HCFC-22\_WAS, , HCFC-22\_pptv, dc3-WAS  
289.HCFC-142b\_WAS, , HCFC-142b\_pptv, dc3-WAS  
290.HCFC-141b\_WAS, , HCFC-141b\_pptv, dc3-WAS  
291.HCFC-124\_WAS, , HCFC-124\_pptv, dc3-WAS  
292.CH3I\_WAS, , CH3I\_pptv, dc3-WAS  
293.CH3Br\_WAS, , CH3Br\_pptv, dc3-WAS  
294.CH3Cl\_WAS, , CH3Cl\_pptv, dc3-WAS  
295.CH2Cl2\_WAS, , CH2Cl2\_pptv, dc3-WAS  
296.CH2Br2\_WAS, , CH2Br2\_pptv, dc3-WAS

297. CC14\_WAS,, CC14\_pptv, dc3-WAS  
298. CH3CC13\_WAS,, CH3CC13\_pptv, dc3-WAS  
299. CHBrCl2\_WAS,, CHBrCl2\_pptv, dc3-WAS  
300. CHBr2Cl\_WAS,, CHBr2Cl\_pptv, dc3-WAS  
301. C2HC13\_WAS,, C2HC13\_pptv, dc3-WAS  
302. C2C14\_WAS,, C2C14\_pptv, dc3-WAS  
303. CHCl3\_WAS,, CHCl3\_pptv, dc3-WAS  
304. CHBr3\_WAS,, CHBr3\_pptv, dc3-WAS  
305. 1-2-DCE\_WAS,, 1-2-DCE\_pptv, dc3-WAS  
306. MeONO2\_WAS,, MeONO2\_pptv, dc3-WAS  
307. EtONO2\_WAS,, EtONO2\_pptv, dc3-WAS  
308. i-PrONO2\_WAS,, i-PrONO2\_pptv, dc3-WAS  
309. n-PrONO2\_WAS,, n-PrONO2\_pptv, dc3-WAS  
310. 2-BuONO2\_WAS,, 2-BuONO2\_pptv, dc3-WAS  
311. 3-Methyl-2-BuONO2\_WAS,, 3-Methyl-2-BuONO2\_pptv, dc3-WAS  
312. 3-PeONO2\_WAS,, 3-PeONO2\_pptv, dc3-WAS  
313. 2-PeONO2\_WAS,, 2-PeONO2\_pptv, dc3-WAS  
314. Ethane\_WAS,, Ethane\_pptv, dc3-WAS  
315. Ethene\_WAS,, Ethene\_pptv, dc3-WAS  
316. Ethyne\_WAS,, Ethyne\_pptv, dc3-WAS  
317. Propane\_WAS,, Propane\_pptv, dc3-WAS  
318. Propene\_WAS,, Propene\_pptv, dc3-WAS  
319. i-Butane\_WAS,, i-Butane\_pptv, dc3-WAS  
320. n-Butane\_WAS,, n-Butane\_pptv, dc3-WAS  
321. trans-2-Butene\_WAS,, trans-2-Butene\_pptv, dc3-WAS  
322. cis-2-Butene\_WAS,, cis-2-Butene\_pptv, dc3-WAS  
323. i-Pentane\_WAS,, i-Pentane\_pptv, dc3-WAS  
324. n-Pentane\_WAS,, n-Pentane\_pptv, dc3-WAS  
325. Isoprene\_WAS,, Isoprene\_pptv, dc3-WAS  
326. Cyclopentane\_WAS,, Cyclopentane\_pptv, dc3-WAS  
327. 2-3-Dimethylbutane\_WAS,, 2-3-Dimethylbutane\_pptv, dc3-WAS  
328. 2-Methylpentane\_WAS,, 2-Methylpentane\_pptv, dc3-WAS  
329. 3-Methylpentane\_WAS,, 3-Methylpentane\_pptv, dc3-WAS  
330. Methylcyclopentane\_WAS,, Methylcyclopentane\_pptv, dc3-WAS  
331. 2-4-Dimethylpentane\_WAS,, 2-4-Dimethylpentane\_pptv, dc3-WAS  
332. Cyclohexane\_WAS,, Cyclohexane\_pptv, dc3-WAS  
333. 2-Methylhexane\_WAS,, 2-Methylhexane\_pptv, dc3-WAS  
334. 2-3-Dimethylpentane\_WAS,, 2-3-Dimethylpentane\_pptv, dc3-WAS  
335. 3-Methylhexane\_WAS,, 3-Methylhexane\_pptv, dc3-WAS  
336. 2-2-4-Trimethylpentane\_WAS,, 2-2-4-Trimethylpentane\_pptv, dc3-WAS  
337. Methylcyclohexane\_WAS,, Methylcyclohexane\_pptv, dc3-WAS  
338. n-Hexane\_WAS,, n-Hexane\_pptv, dc3-WAS  
339. n-Heptane\_WAS,, n-Heptane\_pptv, dc3-WAS  
340. Benzene\_WAS,, Benzene\_pptv, dc3-WAS  
341. Toluene\_WAS,, Toluene\_pptv, dc3-WAS  
342. Ethylbenzene\_WAS,, Ethylbenzene\_pptv, dc3-WAS  
343. m+p-Xylene\_WAS,, m+p-Xylene\_pptv, dc3-WAS  
344. o-Xylene\_WAS,, o-Xylene\_pptv, dc3-WAS  
345. alpha-Pinene\_WAS,, alpha-Pinene\_pptv, dc3-WAS  
346. beta-Pinene\_WAS,, beta-Pinene\_pptv, dc3-WAS  
347. DN\_IR\_Irrad, ("W m^-2" to "W m-2"), DN\_IR\_Irrad, DC3-BBR  
348. UP\_IR\_Irrad, ("W m^-2" to "W m-2"), UP\_IR\_Irrad, DC3-BBR  
349. DN\_Solar\_Irrad, ("W m^-2" to "W m-2"), DN\_SOLAR\_Irrad, DC3-BBR  
350. UP\_Solar\_Irrad, ("W m^-2" to "W m-2"), UP\_SOLAR\_Irrad, DC3-BBR

351.DN500nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), DN500, DC3-SSFR  
 352.DN650nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), DN650, DC3-SSFR  
 353.DN936nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), DN936, DC3-SSFR  
 354.DN1600nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), DN1600, DC3-SSFR  
 355.DN350to700nm\_SSFR, ("W m<sup>-2</sup>" to "W m-2"), DN\_SW350\_700, DC3-SSFR  
 356.DN350to2150nm\_SSFR, ("W m<sup>-2</sup>" to "W m-2"), DN\_SW350\_2150, DC3-SSFR  
 357.UP500nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), UP500, DC3-SSFR  
 358.UP650nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), UP650, DC3-SSFR  
 359.UP936nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), UP936, DC3-SSFR  
 360.UP1600nm\_SSFR, ("W m<sup>-2</sup> nm<sup>-1</sup>" to "W m-2 nm-1"), UP1600, DC3-SSFR  
 361.UP350to700nm\_SSFR, ("W m<sup>-2</sup>" to "W m-2"), UP\_SW350\_700, DC3-SSFR  
 362.UP350to2150nm\_SSFR, ("W m<sup>-2</sup>" to "W m-2"), UP\_SW350\_2150, DC3-SSFR  
 363.CloudIndicator, ("unitless" to "none"), CloudIndicator, DC3-CloudFlag  
 \*The "Unit Conversion" field shows one unit "to" another unit contained  
 in parentheses (e.g. "(degC to K)") if the units changed between  
 the PI data and the merge file at all, even if just the case differs. If  
 the units of a variable changed but no conversion was  
 necessary, the unit text was changed or clarified from that in the raw  
 file (e.g. to standardize units across a variable/measurement type).  
 Where the field is empty, no unit change was made from the raw file.

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FILES USED TO CREATE MERGE:  
 (files listed in alphabetical order)

FILE NAME, DATE UPLOADED/MODIFIED (YYYY-MM-DD)

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 DC3-AMS\_DC8\_20120514\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120518\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120519\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120521\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120525\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120526\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120529\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120530\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120601\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120602\_R1.ict, 2013-06-29  
 DC3-AMS\_DC8\_20120605\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120606\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120607\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120611\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120615\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120616\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120617\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120621\_R1.ict, 2013-06-30  
 DC3-AMS\_DC8\_20120622\_R2.ict, 2013-06-30  
 DC3-BBR\_DC8\_20120504\_R2.ict, 2013-06-24  
 DC3-BBR\_DC8\_20120508\_R2.ict, 2013-06-24  
 DC3-BBR\_DC8\_20120511\_R2.ict, 2013-06-24  
 DC3-BBR\_DC8\_20120514\_R2.ict, 2013-06-24  
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