3SDW NEPA Data Package File Download Manifest

Base Case (Base08b)

Table 2. Emissions data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Emissions** | | | | | |
| **File Type** | | **File Description/ Format** | **3SDW File Path/Sample file name** | **Number of Files** | **Total File Size** |
| Emissions input files | Inventories | ASCII | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/inputs/  3SAQS\_Base08b\_OG\_EmissionsData\_17July2014.tar.gz | 1 | 1.6G |
| Ancillary Data | ASCII |
| Gridded Data | binary netCDF |
| Emissions Processing Software | SMOKE Scripts/Executables | ASCII and Linux binaries | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/software/  3SAQS\_Base08b\_SMOKE\_17July2014.tar.gz | 1 | 34M |
| CAMx Emission Utilities | ASCII and Linux binaries | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/software/  3SAQS\_Base08b\_camxutil\_17July2014.tar.gz | 1 | 2M |
| Log files | ASCII | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/inputs/  3SAQS\_Base08b\_SMOKE\_Logs.tar.gz | 1 | 646M |
| Documentation | modeling protocol (PDF) |  |  |  |
| Emissions Data | CAMx-ready unmerged emissions | UAM binary elevated and low-level | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/premerged/ |  | 639G |
| CAMx-ready SMOKE output | UAM binary (elevated and low-level) | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/CAMx/no\_OG/elev/  ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/CAMx/no\_OG/low\_12km/  ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/EMIS/CAMx/no\_OG/low\_36km/ | 380  380  380 | 104G  58G  14G |

Table 2 (cont.). Meteorology data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meteorology** | | | | | |
| **File Type** | | **File Description/ Format** | **3SDW File Path/Sample file name** | **Number of Files** | **Total File Size** |
| \*WRF | Source | WRF source code (ASCII/Fortran)  WRF Namelist (ASCII)  Makefile/configure (ASCII) |  |  |  |
| Scripts | C-shell/ASCII |  |  |  |
| WRF Output | Daily WRFOUT (netCDF)  Annual GEOGRID (netCDF) |  |  |  |
| Log files | rsl.error and rsl.out (ASCII) |  |  |  |
| Documentation | WRF MPE document (PDF)  WRF modeling protocol (PDF) |  |  |  |
| Model-ready meteorology (WRFCAMx) | Source | Makefile (ASCII)  WRFCAMx code (ASCII/Fortran) |  |  |  |
| Scripts | C-shell/ASCII |  |  |  |
| Output | UAM binary 2d, 3d, cr, kv, lu, uv, wv, tp, zp | <ftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/36km>  <ftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/12km> | 6175  6184 | 191G  599G |

\*The WestJumpAQMS 2008 WRF Modeling Platform is currently not available on the 3SDW

Table 2 (cont). Chemistry-Transport Model data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Chemistry-Transport Model** | | | | | |
|  | **File Type** | **File Description/ Format** | **3SDW File Path/Sample file name** | **Number of Files** | **Total File Size** |
| CAMx | Source and scripts | CAMx source code (ASCII/Fortran)  Makefile (ASCII) | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/software/3SAQS\_CAMxv5.41\_B08b.tar.gz  ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/software/3SAQS\_postproc\_B08b.tar.gz  ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/software/site\_compare.tar.gz | 1  1  1 | 23M  1.5G  3.1M |
| Log Files | ASCII | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/12km/logs/ | 1460 | 500M |
| Documentation | CTM MPE document (PDF)  CTM modeling protocol (PDF) | 3SDW\_CAMx\_v5.41\_Benchmark\_README.docx |  |  |
| Input Files | Meteorology | see above WRFCAMx | <ftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/36km>  <ftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/12km> | 6175  6184 | 191G  599G |
| Initial Conditions | UAM binary (CAMx) | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/icbc/ | 4 | 344M |
| Boundary conditions | UAM binary (CAMx) | ftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/icbc/ | 376 | 4.1G |
| Ancillary CAMx | O3map, ahomap, chem, landuse, tuv files | Base08b/AQ/CAMx/inputs/ahomap  Base08b/AQ/CAMx/inputs/chem  Base08b/AQ/CAMx/inputs/landuse  Base08b/AQ/CAMx/inputs/tuv | 26  1  24  17 | 27M  20K  86M  32M |
| CAMx Output files | Concentrations | Daily CAMx.AVRG (UAM binary) | Base08b/AQ/CAMx/outputs/36km/avrg  Base08b/AQ/CAMx/outputs/12km/avrg | 374  317 | 519G  1.5T |
| Deposition | Daily CAMx.depn | Base08b/AQ/CAMx/outputs/36km/depn  Base08b/AQ/CAMx/outputs/12km/depn | 343  203 | 84G  161G |
| Restart file | Daily CAMx.inst | Base08b/AQ/CAMx/outputs/36km/inst  Base08b/AQ/CAMx/outputs/12km/inst | 343  152 | 26G  39G |

**Appendix A.** Directory listing of files included in 2008b NEPA download script: *wget\_3SAQS\_Base08b\_NEPA.csh*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Directory Path** | **Total File Size** | **Subdirectories** | **Total files** |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/Benchmark | size: 4.0K | subdirs: 0 | files: 0 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/ahomap | size: 27M | subdirs: 0 | files: 26 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/icbc | size: 4.3G | subdirs: 0 | files: 380 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/tuv | size: 32M | subdirs: 0 | files: 17 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/landuse | size: 86M | subdirs: 1 | files: 24 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/chem | size: 20K | subdirs: 0 | files: 1 |
| 3SDW/3SAQS/2008/Base08b/EMIS/CAMx/no\_OG | size: 79G | subdirs: 3 | files: 757 |
| 3SDW/3SAQS/2008/Base08b/EMIS/inputs/3SAQS\_Base08b\_OG\_EmissionsData\_17July2014.tar.gz | Size: 1.6G | subdirs: 0 | files: 1 |
| 3SDW/3SAQS/2008/Base08b/EMIS/software | size: 34M | subdirs: 0 | files: 2 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/inputs/met | size: 72G | subdirs: 2 | files: 384 |
| 3SDW/WestJumpAQMS/MET/WRFCAMx/36km | size: 191G | subdirs: 8 | files: 6175 |
| 3SDW/WestJumpAQMS/MET/WRFCAMx/12km | size: 599G | subdirs: 9 | files: 6184 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/software | size: 1.5G | subdirs: 0 | files: 3 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/12km/avrg | size: 1.5T | subdirs: 0 | files: 317 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/12km/depn | size: 161G | subdirs: 0 | files: 203 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/12km/inst | size: 39G | subdirs: 0 | files: 152 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/36km/avrg | size: 519G | subdirs: 0 | files: 374 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/36km/depn | size: 84G | subdirs: 0 | files: 343 |
| 3SDW/3SAQS/2008/Base08b/AQ/CAMx/outputs/36km/inst | size: 26G | subdirs: 0 | files: 343 |