3SDW NEPA Data Package File Download Manifest

Base Case (Base08b)

Table 2. Emissions data

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| **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/ | 380380380 | 104G58G14G |

Table 2 (cont.). Meteorology data

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| **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/36kmftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/12km | 61756184 | 191G599G |

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

Table 2 (cont). Chemistry-Transport Model data

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| **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.gzftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/software/3SAQS\_postproc\_B08b.tar.gzftp://viking.cira.colostate.edu/3SDW/3SAQS/2008/Base08b/AQ/CAMx/software/site\_compare.tar.gz | 111 | 23M1.5G3.1M |
| 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/36kmftp://viking.cira.colostate.edu/3SDW/WestJumpAQMS/MET/WRFCAMx/12km | 61756184 | 191G599G |
| 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/ahomapBase08b/AQ/CAMx/inputs/chemBase08b/AQ/CAMx/inputs/landuseBase08b/AQ/CAMx/inputs/tuv | 2612417 | 27M20K86M32M |
| CAMx Output files | Concentrations | Daily CAMx.AVRG (UAM binary) | Base08b/AQ/CAMx/outputs/36km/avrgBase08b/AQ/CAMx/outputs/12km/avrg | 374317 | 519G1.5T |
| Deposition | Daily CAMx.depn | Base08b/AQ/CAMx/outputs/36km/depnBase08b/AQ/CAMx/outputs/12km/depn | 343203 | 84G161G |
| Restart file | Daily CAMx.inst | Base08b/AQ/CAMx/outputs/36km/instBase08b/AQ/CAMx/outputs/12km/inst | 343152 | 26G39G |

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

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| **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 |