-bash-4.2\$ conda create --name floodmap python=3.6

```
Collecting package metadata (current_repodata.json): done
Solving environment: done
## Package Plan ##
```

environment location: /att/pubrepo/ILAB/lib/conda/envs/floodmap

added / updated specs:
 python=3.6

The following packages will be downloaded:

```
package | build | ca-certificates-2020.6.20 | hecda079_0 | 145 KB conda-forge | certifi-2020.6.20 | py36h9f0ad1d_0 | 151 KB conda-forge | ld_impl_linux-64-2.34 | h53a641e_7 | 616 KB conda-forge | ncurses-6.2 | he1b5a44_1 | 993 KB conda-forge | python_abi-3.6 | 1_cp36m | 4 KB conda-forge | readline-8.0 | he28a2e2_2 | 281 KB conda-forge | setuptools-49.2.0 | py36h9f0ad1d_0 | 910 KB conda-forge | sqlite-3.32.3 | hcee41ef_1 | 1.4 MB conda-forge | xz-5.2.5 | h516909a_1 | 343 KB conda-forge | Total: | 4.7 MB
```

The following NEW packages will be INSTALLED:

```
_libgcc_mutex conda-forge/linux-64::_libgcc_mutex-0.1-conda_forge
_openmp_mutex conda-forge/linux-64::_openmp_mutex-4.5-0_gnu
ca-certificates conda-forge/linux-64::ca-certificates-2020.6.20-hecda079 0
          conda-forge/linux-64::certifi-2020.6.20-py36h9f0ad1d 0
ld_impl_linux-64 conda-forge/linux-64::ld_impl_linux-64-2.34-h53a641e_7
libffi
          conda-forge/linux-64::libffi-3.2.1-he1b5a44 1007
libgcc-ng
           conda-forge/linux-64::libgcc-ng-9.2.0-h24d8f2e_2
libgomp
            conda-forge/linux-64::libgomp-9.2.0-h24d8f2e_2
libstdcxx-ng conda-forge/linux-64::libstdcxx-ng-9.2.0-hdf63c60_2
ncurses conda-forge/linux-64::ncurses-6.2-he1b5a44 1
openssl conda-forge/linux-64::openssl-1.1.1g-h516909a_0
pip conda-forge/noarch::pip-20.1.1-py_1
python
           conda-forge/linux-64::python-3.6.10-h8356626 1011 cpython
python_abi conda-forge/linux-64::python_abi-3.6-1_cp36m
readline
          conda-forge/linux-64::readline-8.0-he28a2e2_2
setuptools conda-forge/linux-64::setuptools-49.2.0-py36h9f0ad1d 0
          conda-forge/linux-64::sqlite-3.32.3-hcee41ef 1
sglite
tk
          conda-forge/linux-64::tk-8.6.10-hed695b0_0
          conda-forge/noarch::wheel-0.34.2-py_1
wheel
ΧZ
          conda-forge/linux-64::xz-5.2.5-h516909a 1
zlib
          conda-forge/linux-64::zlib-1.2.11-h516909a 1006
```

Proceed ([y]/n)?

```
xz-5.2.5
   | 343 KB |
| 281 KB |
readline-8.0
ca-certificates-2020 | 145 KB |
1 993 KB
setuptools-49.2.0 | 910 KB |
python_abi-3.6 | 4 KB |
certifi-2020.6.20 | 151 KB |
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
 $ conda activate floodmap
#
# To deactivate an active environment, use
 $ conda deactivate
-bash-4.2$ conda activate floodmap
(floodmap) -bash-4.2$ conda install -c conda-forge xarray numpy rioxarray shapely regionmask pandas bottleneck geopandas utm
Collecting package metadata (current repodata.json): done
Solving environment: done
## Package Plan ##
environment location: /att/pubrepo/ILAB/lib/conda/envs/floodmap
```

added / updated specs:

- bottleneck
- geopandas
- numpy
- pandas
- regionmask
- rioxarray
- shapely
- utm
- xarrav

The following packages will be downloaded:

```
package
                    build
bottleneck-1.3.2 | py36h785e9b2_1 131 KB conda-forge
cartopy-0.18.0
              py36hd60729c_0 1.9 MB conda-forge
cffi-1.14.0 | py36hd463f26_0 221 KB conda-forge
              py36h9f0ad1d_1006 188 KB conda-forge
chardet-3.0.4
curl-7.71.1
              he644dc0_2 141 KB conda-forge
              py36h70cb5cc_1 956 KB conda-forge
fiona-1.8.13
```

```
freexl-1.0.5
                 h516909a 1002
                                       46 KB conda-forge
gdal-3.0.4
                 | py36hd60729c 10
                                       1.3 MB conda-forge
geopandas-0.8.1
                          py_0 925 KB conda-forge
                     h6f030ca_0
glib-2.65.0
                                    3.5 MB conda-forge
idna-2.10
                    pyh9f0ad1d_0
                                      52 KB conda-forge
krb5-1.17.1
                     hfafb76e_1
                                    1.5 MB conda-forge
                      hbd6801e_0
                                     431 KB conda-forge
lcms2-2 11
libblas-3.8.0
                     17 openblas
                                     11 KB conda-forge
libcblas-3.8.0
                     17_openblas
                                      11 KB conda-forge
libcurl-7.71.1
                      hcdd3856_2
                                     303 KB conda-forge
libedit-3.1.20191231
                         h46ee950 1
                                         122 KB conda-forge
                      17_openblas
                                      11 KB conda-forge
liblapack-3.8.0
                    pthreads_hb3c22a3_2
libopenblas-0.3.10
                                              7.8 MB conda-forge
libpg-12.3
                     h5513abc_0
                                    2.6 MB conda-forge
libssh2-1.9.0
                      hab1572f_4
                                     225 KB conda-forge
matplotlib-base-3.2.2
                     py36hb8e4980_0
                                            7.2 MB conda-forge
                   py36h7314795_0
numpy-1.19.0
                                         5.2 MB conda-forge
owslib-0.20.0
                         py_0 127 KB conda-forge
pandas-1.0.5
                   | py36h830a2c2_0
                                        10.1 MB conda-forge
                                        670 KB conda-forge
pillow-7.2.0
                 | py36h8328e55_1
                    h8573dbc_0
postgresal-12.3
                                       5.0 MB conda-forge
                     h966b41f_5
                                    3.7 MB conda-forge
proj-7.0.0
pycparser-2.20
                      pyh9f0ad1d_2
                                        94 KB conda-forge
                         py_0
                                  31 KB conda-forge
pvshp-2.1.0
pysocks-1.7.1
                     py36h9f0ad1d_1
                                         27 KB conda-forge
pyyaml-5.3.1
                     py36h8c4c3a4_0
                                        186 KB conda-forge
                  | py36h70cb5cc_0
                                        8.1 MB conda-forge
rasterio-1.1.5
regionmask-0.5.0
                            py_1
                                     18 KB conda-forge
requests-2.24.0
                       pyh9f0ad1d_0
                                        47 KB conda-forge
                                   35 KB conda-forge
rioxarray-0.0.31
                          py_0
rtree-0.9.4
                   py36he053a7a_1
                                       43 KB conda-forge
scipy-1.5.1
                   py36h2d22cac_0
                                      18.5 MB conda-forge
                    py36h3d6ee9d_3
shapely-1.7.0
                                         435 KB conda-forge
tornado-6.0.4
                     py36h8c4c3a4 1
                                        639 KB conda-forge
utm-0.5.0
                         py_0
                                  8 KB conda-forge
xarray-0.16.0
                          py_0
                                  514 KB conda-forge
```

Total: 82.8 MB

The following NEW packages will be INSTALLED:

```
affine
            conda-forge/noarch::affine-2.3.0-py_0
attrs
           conda-forge/noarch::attrs-19.3.0-py 0
               conda-forge/linux-64::boost-cpp-1.72.0-h8e57a91 0
boost-cpp
bottleneck
               conda-forge/linux-64::bottleneck-1.3.2-py36h785e9b2_1
brotlipy
             conda-forge/linux-64::brotlipy-0.7.0-py36h8c4c3a4_1000
hzin2
            conda-forge/linux-64::bzip2-1.0.8-h516909a 2
            conda-forge/linux-64::cairo-1.16.0-hcf35c78 1003
cairo
cartopy
             conda-forge/linux-64::cartopy-0.18.0-py36hd60729c_0
           conda-forge/linux-64::cffi-1.14.0-py36hd463f26_0
cffi
cfitsio
            conda-forge/linux-64::cfitsio-3.470-h3eac812 5
chardet
             conda-forge/linux-64::chardet-3.0.4-py36h9f0ad1d_1006
click
           conda-forge/noarch::click-7.1.2-pyh9f0ad1d 0
              conda-forge/noarch::click-plugins-1.1.1-py_0
click-plugins
           conda-forge/noarch::cligj-0.5.0-py_0
cligj
cryptography
                conda-forge/linux-64::cryptography-2.9.2-py36h45558ae_0
           conda-forge/linux-64::curl-7.71.1-he644dc0 2
curl
cycler
            conda-forge/noarch::cycler-0.10.0-py_2
expat
            conda-forge/linux-64::expat-2.2.9-he1b5a44_2
            conda-forge/linux-64::fiona-1.8.13-py36h70cb5cc_1
fiona
fontconfig
              conda-forge/linux-64::fontconfig-2.13.1-h86ecdb6 1001
freetype
             conda-forge/linux-64::freetype-2.10.2-he06d7ca_0
freexl
            conda-forge/linux-64::freexl-1.0.5-h516909a_1002
            conda-forge/linux-64::gdal-3.0.4-py36hd60729c_10
gdal
geopandas
               conda-forge/noarch::geopandas-0.8.1-py_0
geos
            conda-forge/linux-64::geos-3.8.1-he1b5a44_0
```

```
conda-forge/linux-64::geotiff-1.6.0-h05acad5 0
geotiff
gettext
             conda-forge/linux-64::gettext-0.19.8.1-hc5be6a0 1002
           conda-forge/linux-64::giflib-5.2.1-h516909a_2
giflib
           conda-forge/linux-64::glib-2.65.0-h6f030ca 0
glib
hdf4
            conda-forge/linux-64::hdf4-4.2.13-hf30be14_1003
hdf5
            conda-forge/linux-64::hdf5-1.10.6-nompi\_h3c11f04\_100
icu
           conda-forge/linux-64::icu-64.2-he1b5a44_1
idna
            conda-forge/noarch::idna-2.10-pyh9f0ad1d 0
            conda-forge/linux-64::jpeg-9d-h516909a_0
ipeg
            conda-forge/linux-64::json-c-0.13.1-hbfbb72e_1002
ison-c
kealib
            conda-forge/linux-64::kealib-1.4.13-h33137a7 1
kiwisolver
              conda-forge/linux-64::kiwisolver-1.2.0-py36hdb11119_0
krb5
            conda-forge/linux-64::krb5-1.17.1-hfafb76e_1
lcms2
            conda-forge/linux-64::lcms2-2.11-hbd6801e 0
libblas
            conda-forge/linux-64::libblas-3.8.0-17_openblas
libcblas
            conda-forge/linux-64::libcblas-3.8.0-17_openblas
libcurl
            conda-forge/linux-64::libcurl-7.71.1-hcdd3856 2
libdap4
             conda-forge/linux-64::libdap4-3.20.6-h1d1bd15_0
libedit
            conda-forge/linux-64::libedit-3.1.20191231-h46ee950_1
libgdal
            conda-forge/linux-64::libgdal-3.0.4-he6a97d6_10
libgfortran-ng
              conda-forge/linux-64::libgfortran-ng-7.5.0-hdf63c60 6
libiconv
             conda-forge/linux-64::libiconv-1.15-h516909a_1006
libkml
            conda-forge/linux-64::libkml-1.3.0-hb574062_1011
liblapack
             conda-forge/linux-64::liblapack-3.8.0-17 openblas
libnetcdf
              conda-forge/linux-64::libnetcdf-4.7.4-nompi_h84807e1_104
libopenblas
               conda-forge/linux-64::libopenblas-0.3.10-pthreads_hb3c22a3_2
lihnng
            conda-forge/linux-64::libpng-1.6.37-hed695b0 1
libpq
            conda-forge/linux-64::libpq-12.3-h5513abc_0
libspatialindex conda-forge/linux-64::libspatialindex-1.9.3-he1b5a44_3
libspatialite
             conda-forge/linux-64::libspatialite-4.3.0a-h2482549 1038
libssh2
             conda-forge/linux-64::libssh2-1.9.0-hab1572f_4
libtiff
           conda-forge/linux-64::libtiff-4.1.0-hc7e4089 6
libuuid
            conda-forge/linux-64::libuuid-2.32.1-h14c3975_1000
libwebp-base
                conda-forge/linux-64::libwebp-base-1.1.0-h516909a 3
libxcb
            conda-forge/linux-64::libxcb-1.13-h14c3975 1002
libxml2
             conda-forge/linux-64::libxml2-2.9.10-hee79883_0
174-c
            conda-forge/linux-64::lz4-c-1.9.2-he1b5a44 1
matplotlib-base conda-forge/linux-64::matplotlib-base-3.2.2-py36hb8e4980 0
munch
              conda-forge/noarch::munch-2.5.0-py 0
numpy
              conda-forge/linux-64::numpy-1.19.0-py36h7314795_0
olefile
            conda-forge/noarch::olefile-0.46-py 0
               conda-forge/linux-64::openjpeg-2.3.1-h981e76c_3
openjpeg
owslib
             conda-forge/noarch::owslib-0.20.0-py 0
             conda-forge/linux-64::pandas-1.0.5-py36h830a2c2 0
pandas
            conda-forge/linux-64::pcre-8.44-he1b5a44_0
pcre
pillow
            conda-forge/linux-64::pillow-7.2.0-py36h8328e55_1
nixman
              conda-forge/linux-64::pixman-0.38.0-h516909a 1003
              conda-forge/linux-64::poppler-0.87.0-h4190859 1
poppler
poppler-data
                conda-forge/noarch::poppler-data-0.4.9-1
               conda-forge/linux-64::postgresql-12.3-h8573dbc_0
postgresql
proj
            conda-forge/linux-64::proj-7.0.0-h966b41f 5
pthread-stubs
                conda-forge/linux-64::pthread-stubs-0.4-h14c3975 1001
              conda-forge/noarch::pycparser-2.20-pyh9f0ad1d_2
pycparser
             conda-forge/noarch::pyepsg-0.4.0-py 0
pyepsg
               conda-forge/noarch::pyopenssl-19.1.0-py_1
pyopenssl
pyparsing
              conda-forge/noarch::pyparsing-2.4.7-pyh9f0ad1d_0
             conda-forge/linux-64::pyproj-2.6.1.post1-py36he34cbb8 0
pyproj
pyshp
             conda-forge/noarch::pyshp-2.1.0-py_0
pysocks
              conda-forge/linux-64::pysocks-1.7.1-py36h9f0ad1d_1
python-dateutil conda-forge/noarch::python-dateutil-2.8.1-py_0
            conda-forge/noarch::pytz-2020.1-pyh9f0ad1d 0
pvtz
pyyaml
              conda-forge/linux-64::pyyaml-5.3.1-py36h8c4c3a4_0
rasterio
             conda-forge/linux-64::rasterio-1.1.5-py36h70cb5cc_0
                conda-forge/noarch::regionmask-0.5.0-py_1
regionmask
requests
              conda-forge/noarch::requests-2.24.0-pyh9f0ad1d_0
rioxarray
              conda-forge/noarch::rioxarray-0.0.31-py_0
```

```
conda-forge/linux-64::rtree-0.9.4-py36he053a7a 1
rtree
     conda-forge/linux-64::scipy-1.5.1-py36h2d22cac 0
scipy
shapely
      conda-forge/linux-64::shapely-1.7.0-py36h3d6ee9d_3
     conda-forge/noarch::six-1.15.0-pyh9f0ad1d 0
six
      conda-forge/noarch::snuggs-1.4.7-py_0
snuggs
tbb
     conda-forge/linux-64::tbb-2020.1-hc9558a2_0
tiledb
     conda-forge/linux-64::tiledb-1.7.7-h8efa9f0 3
tornado
      conda-forge/linux-64::tornado-6.0.4-py36h8c4c3a4 1
tzcode
      conda-forge/linux-64::tzcode-2020a-h516909a_0
     conda-forge/noarch::urllib3-1.25.9-py_0
urllib3
     conda-forge/noarch::utm-0.5.0-py 0
utm
     conda-forge/noarch::xarray-0.16.0-py_0
xarray
xerces-c
      conda-forge/linux-64::xerces-c-3.2.2-h8412b87_1004
xorg-kbproto conda-forge/linux-64::xorg-kbproto-1.0.7-h14c3975_1002
xorg-libice conda-forge/linux-64::xorg-libice-1.0.10-h516909a_0
xorg-libsm
      conda-forge/linux-64::xorg-libsm-1.2.3-h84519dc_1000
xorg-libx11 conda-forge/linux-64::xorg-libx11-1.6.9-h516909a_0
xorg-libxau
      conda-forge/linux-64::xorg-libxau-1.0.9-h14c3975_0
xorg-libxdmcp conda-forge/linux-64::xorg-libxdmcp-1.1.3-h516909a_0
xorg-libxext conda-forge/linux-64::xorg-libxext-1.3.4-h516909a_0
xorg-libxrender conda-forge/linux-64::xorg-libxrender-0.9.10-h516909a 1002
xorg-renderproto conda-forge/linux-64::xorg-renderproto-0.11.1-h14c3975_1002
xorg-xextproto conda-forge/linux-64::xorg-xextproto-7.3.0-h14c3975_1002
      conda-forge/linux-64::xorg-xproto-7.0.31-h14c3975 1007
xorg-xproto
vaml
     conda-forge/linux-64::yaml-0.2.5-h516909a_0
zstd
     conda-forge/linux-64::zstd-1.4.4-h6597ccf_3
Proceed ([y]/n)?
Downloading and Extracting Packages
requests-2.24.0 | 47 KB |
matplotlib-base-3.2. | 7.2 MB |
chardet-3.0.4
      | 188 KB |
cartopy-0.18.0 | 1.9 MB |
libopenblas-0.3.10 | 7.8 MB |
rioxarray-0.0.31 | 35 KB |
1 514 KB |
rasterio-1.1.5 | 8.1 MB |
postgresal-12.3 | 5.0 MB |
shapely-1.7.0
      1 435 KB |
```

libpq-12.3

2.6 MB

```
lcms2-2.11
| 431 KB |
1 1.3 MB
| 11 KB |
| 27 KB
pysocks-1.7.1
libedit-3.1.20191231 | 122 KB |
| 956 KB |
| 127 KB |
| 639 KB |
| 46 KB |
bottleneck-1.3.2 | 131 KB |
| 225 KB |
rtree-0.9.4
1 43 KB | 1
| 186 KB |
I 670 KB |
| 10.1 MB |
| 3.7 MB |
| 925 KB |
geopandas-0.8.1
numpy-1.19.0
15.2 MB
pycparser-2.20
1 94 KB
```

libcblas-3.8.0 | 11 KB | regionmask-0.5.0 | 18 KB | krh5-1 17 1 1 1.5 MB pyshp-2.1.0 | 31 KB | | 221 KB | | 52 KB liblapack-3.8.0 | 11 KB |

Preparing transaction: done Verifying transaction: done Executing transaction: done

(floodmap) -bash-4.2\$ pip install wget

Collecting wget

Downloading wget-3.2.zip (10 kB)

Building wheels for collected packages: wget Building wheel for wget (setup.py) ... done

Created wheel for wget: filename=wget-3.2-py3-none-any.whl size=9681

sha256=3e3f6dcc150996a4f6f1d7b0e658b269a9c76b9a54ba982ddcfa92d5cab80706

Stored in directory: /att/gpfsfs/home/tpmaxwel/.cache/pip/wheels/90/1d/93/c863ee832230df5cfc25ca497b3e88e0ee3ea9e44adc46ac62

Successfully built wget Installing collected packages: wget Successfully installed wget-3.2

(floodmap) -bash-4.2\$ git clone https://github.com/nasa-nccs-cds/floodmap.git

Cloning into 'floodmap'...

remote: Enumerating objects: 97, done. remote: Counting objects: 100% (97/97), done. remote: Compressing objects: 100% (67/67), done.

remote: Total 97 (delta 42), reused 77 (delta 25), pack-reused 0

Unpacking objects: 100% (97/97), done.

(floodmap) -bash-4.2\$ cd floodmap/

(floodmap) -bash-4.2\$ python setup.py install

running install running bdist_egg running egg_info creating floodmap.egg-info writing floodmap.egg-info/PKG-INFO writing dependency_links to floodmap.egg-info/dependency_links.txt writing top-level names to floodmap.egg-info/top_level.txt writing manifest file 'floodmap.egg-info/SOURCES.txt' reading manifest file 'floodmap.egg-info/SOURCES.txt'

```
writing manifest file 'floodmap.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-x86 64/egg
running install lib
running build_py
creating build
creating build/lib
creating build/lib/floodmap
copying floodmap/__init__.py -> build/lib/floodmap
creating build/lib/exe
copying exe/production.py -> build/lib/exe
copying exe/__init__.py -> build/lib/exe
creating build/lib/floodmap/util
copying floodmap/util/__init__.py -> build/lib/floodmap/util
copying floodmap/util/crs.py -> build/lib/floodmap/util
copying floodmap/util/configuration.py -> build/lib/floodmap/util
copying floodmap/util/logs.py -> build/lib/floodmap/util
creating build/lib/floodmap/surfaceMapping
copying floodmap/surfaceMapping/mwp.py -> build/lib/floodmap/surfaceMapping
copying floodmap/surfaceMapping/tiles.py -> build/lib/floodmap/surfaceMapping
copying floodmap/surfaceMapping/__init__.py -> build/lib/floodmap/surfaceMapping
copying floodmap/surfaceMapping/processing.py -> build/lib/floodmap/surfaceMapping
copying floodmap/surfaceMapping/lakeExtentMapping.py -> build/lib/floodmap/surfaceMapping
creating build/lib/floodmap/xext
copying floodmap/xext/__init__.py -> build/lib/floodmap/xext
copying floodmap/xext/xgeo.py -> build/lib/floodmap/xext
copying floodmap/xext/xextension.py -> build/lib/floodmap/xext
copying floodmap/xext/xrio.py -> build/lib/floodmap/xext
copying floodmap/xext/grid.py -> build/lib/floodmap/xext
creating build/bdist.linux-x86_64
creating build/bdist.linux-x86_64/egg
creating build/bdist.linux-x86_64/egg/floodmap
creating build/bdist.linux-x86_64/egg/floodmap/util
copying build/lib/floodmap/util/__init__.py -> build/bdist.linux-x86_64/egg/floodmap/util
copying build/lib/floodmap/util/crs.py -> build/bdist.linux-x86_64/egg/floodmap/util
copying build/lib/floodmap/util/configuration.py -> build/bdist.linux-x86 64/egg/floodmap/util
copying build/lib/floodmap/util/logs.py -> build/bdist.linux-x86_64/egg/floodmap/util
creating build/bdist.linux-x86 64/egg/floodmap/surfaceMapping
copying build/lib/floodmap/surfaceMapping/mwp.py -> build/bdist.linux-x86 64/egg/floodmap/surfaceMapping
copying build/lib/floodmap/surfaceMapping/tiles.py -> build/bdist.linux-x86 64/egg/floodmap/surfaceMapping
copying\ build/lib/floodmap/surface Mapping/\_init\_\_.py -> build/bdist.linux-x86\_64/egg/floodmap/surface Mapping
copying build/lib/floodmap/surfaceMapping/processing.py -> build/bdist.linux-x86 64/egg/floodmap/surfaceMapping
copying build/lib/floodmap/surfaceMapping/lakeExtentMapping.py -> build/bdist.linux-x86_64/egg/floodmap/surfaceMapping
creating build/bdist.linux-x86_64/egg/floodmap/xext
copying build/lib/floodmap/xext/__init__.py -> build/bdist.linux-x86_64/egg/floodmap/xext
copying build/lib/floodmap/xext/xgeo.py -> build/bdist.linux-x86_64/egg/floodmap/xext
copying build/lib/floodmap/xext/xextension.py -> build/bdist.linux-x86_64/egg/floodmap/xext
copying build/lib/floodmap/xext/xrio.py -> build/bdist.linux-x86 64/egg/floodmap/xext
copying build/lib/floodmap/xext/grid.py -> build/bdist.linux-x86 64/egg/floodmap/xext
copying build/lib/floodmap/__init__.py -> build/bdist.linux-x86_64/egg/floodmap
creating build/bdist.linux-x86_64/egg/exe
copying build/lib/exe/production.py -> build/bdist.linux-x86_64/egg/exe
copying build/lib/exe/__init__.py -> build/bdist.linux-x86_64/egg/exe
byte-compiling build/bdist.linux-x86_64/egg/floodmap/util/__init__.py to __init__.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/util/crs.py to crs.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/util/configuration.py to configuration.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/util/logs.py to logs.cpython-36.pyc
byte-compiling build/bdist.linux-x86 64/egg/floodmap/surfaceMapping/mwp.py to mwp.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/surfaceMapping/tiles.py to tiles.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/surfaceMapping/__init__.py to __init__.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/surfaceMapping/processing.py to processing.cpython-36.pyc
byte-compiling build/bdist.linux-x86 64/egg/floodmap/surfaceMapping/lakeExtentMapping.py to lakeExtentMapping.py to lakeExtent
byte-compiling build/bdist.linux-x86_64/egg/floodmap/xext/_init__.py to __init__.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/xext/xgeo.py to xgeo.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/xext/xextension.py to xextension.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/xext/xrio.py to xrio.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/floodmap/xext/grid.py to grid.cpython-36.pyc
```

```
byte-compiling build/bdist.linux-x86_64/egg/floodmap/__init__.py to __init__.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/exe/production.py to production.cpython-36.pyc
byte-compiling build/bdist.linux-x86_64/egg/exe/__init__.py to __init__.cpython-36.pyc
creating build/bdist.linux-x86_64/egg/EGG-INFO
copying floodmap.egg-info/PKG-INFO -> build/bdist.linux-x86_64/egg/EGG-INFO
copying floodmap.egg-info/SOURCES.txt -> build/bdist.linux-x86_64/egg/EGG-INFO
copying floodmap.egg-info/dependency_links.txt -> build/bdist.linux-x86_64/egg/EGG-INFO
copying floodmap.egg-info/top_level.txt -> build/bdist.linux-x86_64/egg/EGG-INFO
zip_safe flag not set; analyzing archive contents...
creating dist
creating 'dist/floodmap-0.0.1-py3.6.egg' and adding 'build/bdist.linux-x86_64/egg' to it
removing 'build/bdist.linux-x86_64/egg' (and everything under it)
Processing floodmap-0.0.1-py3.6.egg
Copying floodmap-0.0.1-py3.6.egg to /att/gpfsfs/atrepo01/ILAB/lib/conda/envs/floodmap/lib/python3.6/site-packages
Adding floodmap 0.0.1 to easy-install.pth file
```

Installed /att/gpfsfs/atrepo01/ILAB/lib/conda/envs/floodmap/lib/python3.6/site-packages/floodmap-0.0.1-py3.6.egg Processing dependencies for floodmap==0.0.1 Finished processing dependencies for floodmap==0.0.1

1 245760 / 1133834

(floodmap) -bash-4.2\$ cp ./specs/sample-specs.yml ~/specs.yml

(floodmap) -bash-4.2\$ emacs -nw ~/specs.yml

20% [.....

21% [.....

(floodmap) -bash-4.2\$ python ./exe/production.py ~/specs.yml

2020-07-17 16:20:58,525 - master - INFO - Processing Lakes: [4, 5, 9, 11, 12, 14, 19, 21, 22, 26, 28, 37, 42, 43, 44, 51, 53, 60, 66, 67, 69, 73, 74, 76, 79, 81, 82, 85, 87, 88, 91, 93, 97, 99, 107, 110, 111, 112, 115, 118, 121, 135, 140, 141, 146, 152, 155, 156, 158, 163, 166, 170, 175, 176, 177, 178, 179, 180, 181, 182, 185, 189, 191, 199, 201, 202, 203, 205, 209, 216, 217, 218, 221, 222, 223, 224, 226, 232, 233, 234, 236, 238, 244, 252, 254, 258, 260, 264, 266, 268, 269, 275, 277, 278, 285, 291, 293, 310, 312, 314, 315, 316, 317, 318, 319, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 343, 344, 345, 346, 347, 348, 350, 351, 353, 356, 365, 368, 372, 385, 387, 388, 393, 394, 396, 397, 398, 402, 403, 405, 408, 409, 410, 411, 412, 413, 414, 416, 417, 420, 421, 423, 424, 425, 429, 430, 431, 432, 433, 434, 435, 436, 439, 440, 441, 442, 443, 448, 449, 453, 454, 527, 535, 542, 543, 546, 553, 554, 564, 574, 575, 580, 583, 587, 590, 592, 600, 601, 609, 610, 612, 615, 625, 628, 632, 639, 643, 645, 646, 652, 653, 661, 665, 669, 671, 673, 678, 680, 682, 684, 701, 706, 715, 716, 717, 720, 721, 726, 732, 741, 744, 745, 748, 749, 753, 754, 755, 762, 763, 773, 776, 777, 779, 780, 783, 785, 787, 793, 794, 795, 796, 798, 802, 803, 808, 809, 810, 828, 851, 873, 953, 955, 956, 958, 959, 963, 968, 969, 970, 972, 977, 998, 1000, 1005, 1009, 1016, 1017, 1019, 1025, 1031, 1042, 1053, 1081, 1111, 1112, 1115, 1118, 1121, 1155, 1161, 1164, 1168, 1171, 1219, 1238, 1240, 1241, 1247, 1261, 1273, 1278, 1279, 1285, 1287, 1289, 1290, 1291, 1295, 1297, 1302, 1341, 1342, 1376, 1377, 1378, 1393, 1413, 1418, 1419, 1420, 1422, 1431, 1432, 1437, 1438, 1439, 1440, 1442, 1450, 1451, 1454, 1457, 1460, 1462, 1465, 1466, 1468, 1469, 1470, 1471, 1478, 1479, 1486, 1490, 1493, 1495, 1499, 1500, 1516, 1523, 1533, 1534, 1546, 1547, 1548, 1551, 1553, 1554, 1567, 1568, 1577, 1589, 1597, 1598, 1602, 1603, 1604, 1617, 1618, 1619, 1621, 1669, 1670, 1680, 1712, 1723, 1765, 1778, 1779, 1824, 1829, 1830, 1861, 1905, 1947, 1958, 1976, 1978, 1986, 1995, 2032, 2280, 2282, 2284, 2309, 2311, 2313, 2314, 2315, 2316, 2319, 2328, 2329, 3849, 3871, 3949, 4033, 40341 07/17/2020, 16:21:03: Worker-32171 processing Lake 4 07/17/2020, 16:21:03: Worker-32174 processing Lake 85

204800 / 100632407/17/2020, 16:21:04: Worker-32172 processing Lake 238