General Outline of Workflow for Data Preparation for Scientific Computing Practical

A dataset on the HUC catchment 13010001 (Rio Grande headwaters in Colorado, USA) was produced as part of the Scientific Computing Practical. The dataset consist of daily recording of mean snow cover, temperature and river discharge at the site, over a 2 year period. The dataset was built using the following information:-

1. mean snow cover (0.0 to 1.0) for HUC catchment 13010001 for each day of the year
2. temperature (in degrees Celcius) at the Del Norte monitoring station for each day of the year
3. river discharge at the Del Norte monitoring station for each day of the year

From this information, graphs and tables of summary statistics were produced to summarise dataset. 2 'npz' file was the used to store the 3 datasets, 1 for each year. Finally, images of snow cover spatial data for the catchment were produced. The image sets consists of 13 samples (taken from equally spaced dates through the year) for each dataset year. The images were produced using pre-interpolated and post-interpolated data.

General Disclaimer

The code used below to obtain, generate and visualize the data was generated independently by the author of this notebook. Where pieces of code from external reference sources were used (either from the course material or from webpages), it is explicitely mentioned in the comment sections of the code. Otherwise, the code can be interpreted as origional production by the notebook author

Year Selection of Dataset

The time period selected for the dataset was 2001 to 2002. This period was choosen as an interesting change in stream flow discharge at the studied site was observed in 2001, where stream flow was consistently low throughout the year (lacking the typical high flow discharge in the summer). This would be compared against a more typical stream flow pattern, using 2002 as an example.

Section 1: Aquisition of Data for building dataset

As mentioned above, the dataset was built using snow cover, temperature and river discharge data over the period of 2015-2016. The code sections below outline where and how each component of the dataset was aquired.

In [576]:
```
# import revelent module for coursework
import requests
import numpy as np
import io
import pandas as pd
from datetime import datetime, timedelta
import matplotlib.pylab as plt
%matplotlib inline
import geog0111.nasa_requests as nasa_requests # function written by Professor
 Lewis as part of Scientific Computing course
                                               # used to ease log in process t
o access NASA data products
from bs4 import BeautifulSoup
from pathlib import Path
from geog0111.cylog import cylog # function written by Professor Lewis as part
 of Scientific Computing course
                                 # used to ease log in process to access NASA
 data products
import gdal
import scipy
import scipy.ndimage.filters
```

1.1 River Discharge Data

The code below outlines how to acquire stream flow data for the Del Norte Monitoring station. The data is available in the form of a html file, taken from the url http://waterdata.usgs.gov (http://waterdata.usgs.gov). The data is read in as a large string, from which data for specific years can be aquired. The code below aims to achieve the following:-

1. Download the whole html file
2. Seperate the stream flow data based on the year
3. Produce a single simple line plot of the stream flow data for all the years within the html file

The line plot is used to identify typical behaviours of the stream flow data. From this, 2 years will be selected, 1 to represent typical stream flow, and another to represent unusual (either high or low) stream flow. These years will then be used to select the data for the remaining data to build the dataset for the HUC catchment 13010001.

We begin with an exploration of the stream flow dataset as a whole. We first download the whole dataset, seperate the years and it's associated stream flow data using a dictionary, before visualizing it in a simple line plot. Our initial approach is to identify (both visually and numerically) which years have the highest and lowest stream flow discharge, and will be our ideal choice for selection of the river discharge data

In [577]:
```
# this specific code below follows the general code structure layout in Chapte
r_1_Python_introduction (Section 1.5)
# and Chapter_4_Practical_Part_1 (Section 4.2.3.3)
# the code has been modified using suitable variable names, url address & filt
ering criteria

# aquisition of data in form of html using a url, a typical example of webs sc
raping
url = 'https://waterservices.usgs.gov/nwis/dv/?sites=08220000&format=rdb&start
DT=2001-01-01&parameterCd=00060'

# grabing the URL data as a string
raw_txt= requests.get(url).text

# specify index within string where flow data is
# don't need to specify end index as am using all data for now
start_index = raw_txt.find('USGS\t')

# complete data, with unnecessary columns 0 & 1 included
data = raw_txt[start_index:].splitlines()
```

In [578]:
```
# create a dictionary to store the day of year information & associated stream
 flow data for each year in the whole dataset
stream_flow = {}
```

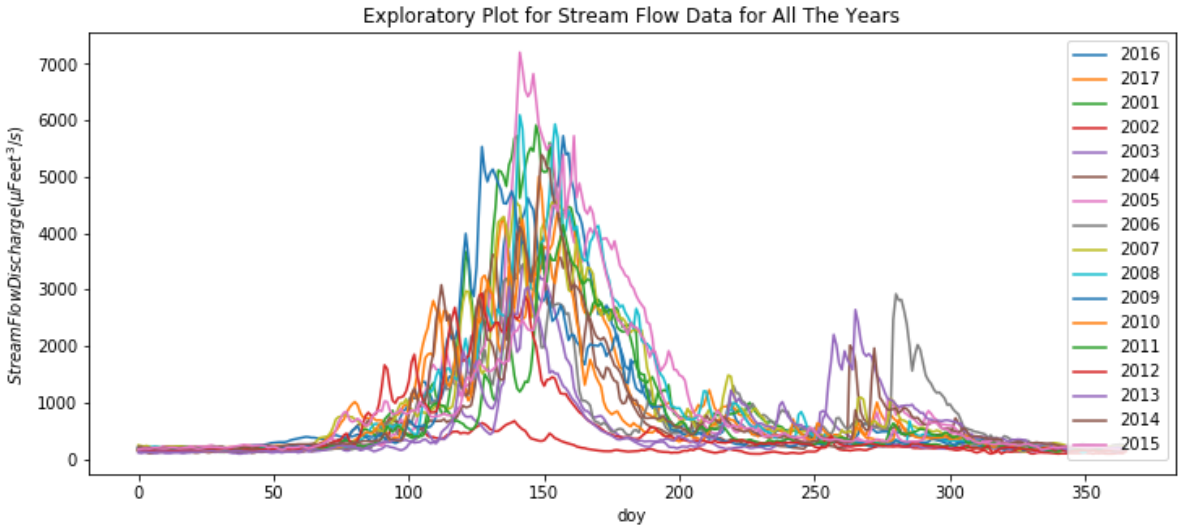
In [579]:
```
# create lists to store information on date and stream flow data for each year
 in dataset
dates = []
stream_data = []

# modify datetime string in data to an integer format (year+doy)
for i, row in enumerate(data):
    # split the strings in each row to access each column of the dataset
    row_data = row.split()

    # access the dates data in the 3nd column of each row
    date_column = row_data[2]

    # converting the strings in the date column into a date object
    date_column = datetime.strptime(date_column, '%Y-%m-%d')

    # saving date objects into appropriate list
    dates.append(date_column)

    # access the stream flow data in the 4th column of each row
    stream_column = float(row_data[3])

    # sacing stream flow data into appropriate list
    stream_data.append(stream_column)
```

In [580]:
```
# putting the data into the appropriate keys in the dictionary

# generate unique keys for the dictionary

# step 1: generate a list to store the dictionary keys
dic_key = []

# step 2: loop over the entries in the dates list
for i in dates:

    # access the year component of each date object stored inside the dates li
st
    year = i.year

    # append the year data in the dictionary keys list
    dic_key.append(year)

# step 3: retain only unique values in  the dictionary key list
dic_key = list(set(dic_key))
```

In [581]:
```
# filling the dictionary with keys and associated values
# the keys are the years
# the values are tuples of doy & the stream flow data for that doy

# going through each key for the dictionary
for key in dic_key:

    # create empty list to store doy data and associated stream data
    doy_data = []
    strm_data = []

    # create starting value for doy
    doy = 0

    # going through the dates list
    for i,date in enumerate(dates):

        # checking if the year component of the date object corresponds to the
 correct key
        if date.year == key:

            # grabbing the doy data associated with this doy
            doy+= 1
            doy_data.append(doy)

            # grabbing the stream data associated with this doy
            strm_data.append(stream_data[i])

    # creating a tuple to store the doy & associated stream data for specific
 year
    data = (doy_data, strm_data)

    # updating the dictionary with right key & value pairing
    stream_flow[key] = data
```

In [582]:
```
# ok, so the dictionary method works
# lets visualize the flow data
plt.figure(figsize=(12,5))
for key in stream_flow:
    plt.plot(stream_flow[key][1], label=key)
plt.xlabel('doy')
plt.ylabel(r'$Stream Flow Discharge ( \mu Feet^3/s)$')
plt.title('Exploratory Plot for Stream Flow Data for All The Years')
plt.legend(loc='best')
```

Out[582]: <matplotlib.legend.Legend at 0x7ff2ba3c01d0>



In [583]:
```
# ok, so which year has the highest and lowest discharge stream discharge
highest_discharge = stream_data.index(max(stream_data))
lowest_discharge = stream_data.index(min(stream_data))
year_highest_discharge = dates[highest_discharge]
year_lowest_discharge = dates[lowest_discharge]

# printing out which year has the highest & lowest discharge respetively
print(f'Date of Highest Recorded Stream Discharge: {year_highest_discharge}')
print(f'Date of Lowest Recorded Stream Discharge: {year_lowest_discharge}')
```

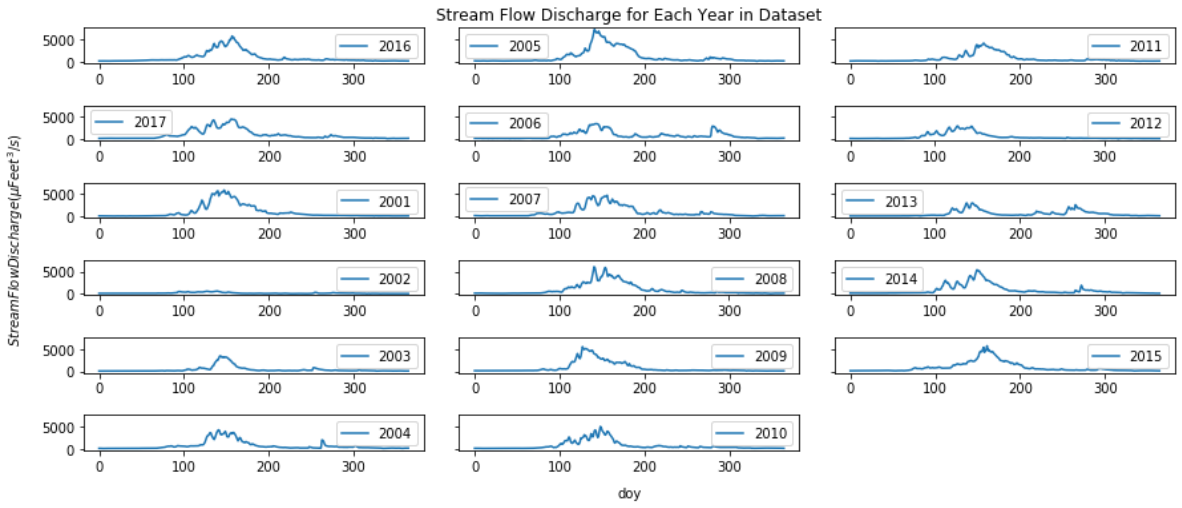
```
Date of Highest Recorded Stream Discharge: 2005-05-22 00:00:00
Date of Lowest Recorded Stream Discharge: 2002-08-16 00:00:00
```

The above plot was a good starting point for visualizing the stream discharge, but it was a bit too cluttered to see the underlying pattern. Printing out which year had the highest and lowest recorded stream discharge was also a good approach to deciding which year would like to use for dataset.

Unfortunately, the year with the highest discharge is a year we can't use (due to being a previously used example in the course notes). Lets now try to visualize the stream flow for each year in seperate plots to see which year we would like to use, keeping in mind that we can still use the data from 2002 (year with the lowest recorded stream discharge)

In [584]:
```
# the above plot was a good starting point for visualizing the stream discharg
e
# but is a bit cluttered to see the underlying pattern
# try now producing individual plots of the river discharge
fig, axs = plt.subplots(6,3, sharey=True, figsize=(12,5)) # for the 18 years o
f data

# create equal spacing between subplots
fig.tight_layout() # code

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # (code derived from Chapter3_3GDAL_masking pr
epared by Professor Lewis)

# plot each year stream flow individually
for i,key in enumerate(stream_flow):
    axs[i].plot(stream_flow[key][1], label=key)
    axs[i].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Stream Flow Discharge for Each Year in Dataset')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel(r'$Stream Flow Discharge ( \mu Feet^3/s)$', labelpad=20)

# remove the empty subplot
fig.delaxes(axs.flatten()[17])
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```



Looking at the plot above, lets choose year 2014 and 2015 for our data for discharge data to build up the dataset for the HUC catchment 13010001. The rational of the choice is as follows:-

Both years represent 2 different stream flow discharge patterns. Multiple surges in flow discharge are observed during spring/summer & with 1 minor spike in autumn for the 2014 dataset. For the 2015 dataset, only a single spike in flow discharge is observed, which takes place during in late spring.

Initially, the dataset for year 2001 and 2002 was of interest due to the usually low and consistent stream flow discharge observed throughout the 2001 year. The typical surge in flow discharge between doy 100 to 200 (summer time snow melt) and smaller surge in flow discharge between doy 200 to 300 was absent. However, upon checking the available temperature data on the website 'http://climate.colostate.edu/data_access.html (http://climate.colostate.edu/data_access.html)', most of the information on maximum temperature data was absent for both 2001 and 2002.

As such, a decision was made to use a more recent and still interesting dataset of the year 2014 and 2015.

The code below aims to do the following:-

1. download the data, selecting years 2014 and 2015.
2. save the data for each year as a seperate file
3. load saved data for each year
4. visualize the data using a simple line plot
5. produce some summary statistics on the stream flow discharge (mean, minimum, maximum, timing of minimum & maximum stream flow discharge)

In [585]:
```
# Step 1 & 2: Downloading the data for selected years & save the data in seper
ate files(code wrapped in a function)

# the code below is a modified version of the code written by Professor Lewis
 in Chapter_4_Practical_Part_1
# and Chapter_1_python_introduction

# specify start and ending index of where data for year of interest found
year_1_start = '2014-01-01'
year_1_end = '2015-01-01'
year_2_start = '2015-01-01'
year_2_end = '2016-01-01'

# specify filename where want to save file for stream flow data
filename_01 = 'strm_flw_2014.npz'
filename_02 = 'strm_flw_2015.npz'

# function to download stream flow data for year of choice, saving into a file
def download_and_save_strm(start, end, filename):
    '''
    Function to download stream flow data from a preset url and save only the
 datetime and stream flow discharge data columns
    for the year on interest.

    The code is a modification of the code written by Professor Lewis in Chapt
er_1_Python_introduction(section 1.35)
    and Chapter_4_Practical_Part_1(section 4.2.3.3). Modifications to the vari
able specifying where to select the
    header & data from, as well as the output filename have been made to the o
rigional code.

    Parameters
    ----------
    start: a string
        Start date for the stream flow discharge year of interest

    end: a string
        End date for the stream flow discharge year of interest

    filename: a string
        Filename want to save generated npz file as

    Returns
    -------
    Nothing. The dataset is saved into a file which can be accessed after usin
g this function using the glob fucntion
    (require the glob module)
    '''
    # fixed parameters used in the function
    # specify url getting html data from
    url = 'https://waterservices.usgs.gov/nwis/dv/?sites=08220000&format=rdb&s
tartDT=2001-01-01&parameterCd=00060'

    # specific start and ending index of where header of dataset found
    header_start = 'datetime'
    header_end = '225201_00060_00003_cd'
```

```
    # getting the whole dataset first using the get function in the request mo
dule
    txt = requests.get(url).text

    # extract the header information from the dataset
    header_start = txt.find(header_start)
    header_end = txt.find(header_end)

    header = txt[header_start:header_end].split() # retrieving the header as a
 long string, before seperating
                                                  # the indivudual column head
ings as individual strings

    # extract the datetime data & stream flow discharge data for the year of i
nterest
    # first need to specify where to extract data from
    data_start = txt.find(f'USGS\t08220000\t{start}')
    data_end = txt.find(f'USGS\t08220000\t{end}')

    data = np.loadtxt(io.StringIO(txt[data_start:data_end]),\
                      unpack=True, usecols=(2,3), dtype=str) # only interested
 in data from column 2 & 3
                                                           # load the data t
ype is as a string, to ensure
                                                           # can load in bot
h the datetime & stream flow data

    # use zip to load into a dictionary
    data_dict = dict(zip(header, data))

    # save the dataset
    np.savez_compressed(filename, **data_dict)

    return None

# Applying function written to acquire data for 2001 and 2002, and save the da
ta
download_and_save_strm(year_1_start, year_1_end, filename_01) # acquire data f
or  2001
download_and_save_strm(year_2_start, year_2_end, filename_02) # acquire data f
or  2002
```

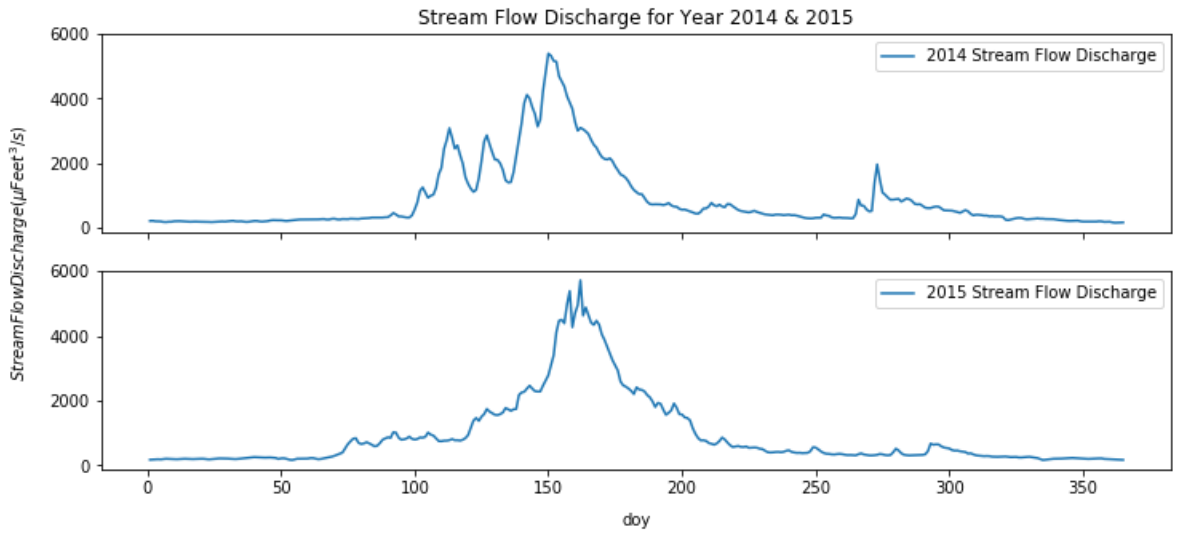
In [586]:
```
# Step 3: Load the downloaded data for each year

# create a function to load & extract data from saved npz file
def extract_data(filename, key_1, key_2):
    '''Function for extracting data stored in npz file, returning the datetime
 information(in the form of year & doy)
    and associated data, stored in a single numpy array.

    The function is adopted from Professor Lewis's code in Chapter1_Python_int
roduction (section 1.3.6)
    and Chapter4_Practical_Part_1, with modification made to the filename load
ed to allow for the correct data to
    be extracted.

    Parameters
    ----------
    filename: a string
        Specifies the file name of the npz file want to load in & extract info
rmation from.

    key_1: a string
        Specifies the key name used in the npz file to access the datetime dat
a

    key_2: a string
        Specifies the key name used in the npz file to access the data associa
ted with the datetime data
        (can be mean snow cover, daily mean temperature or stream flow dischar
ge)

    Returns
    -------
    A single numpy array is returned, containing both the doy information & i
t's associated stream flow discharge
    '''
    # loading in the npz file
    file = np.load(filename)

    # Part1: Extract datetime information

    # extract the datetime information stored inside the npz file, specificall
y interested in doy
    # datetime is the key paired with the datetime list
    dates = file[key_1]

    # generate an empty list to store the doy information
    doys = []

    # looping through the dates data to extract the doy information
    for date in dates:
        # putting each date information into a numpy array to convert from a s
ingle string
        # to multiple strings, before converting them into integers
        try:
            date_data = np.array(date.split('-')).astype(int)  # adopted direc
tly from section 4.2.3.3
```

```
                                                        # from Chapter_4_Pract
ical_Part_1
                                                        # by Professor Lewis

            # extracting the year and doy information from each date data
            year, doy = datetime(date_data[0], date_data[1],\
                                 date_data[2]).strftime('%Y %j').split()

            # append this information to the empty list doys
            doys.append (float(doy))

        except AttributeError:
            '''Date already in doy format for daily mean temperature data '''
            doys.append(date)

    # Part2: Extract data associated with datetime information
    #(can be mean snow cover, daily mean temperature or stream flow discharge)

    # use the appropriate key to access the data
    data_list = file[key_2]

    # generate an empty list to store the data
    modified_data = []

    # looping through the list to extract the data
    for data in data_list:
        # converting from a string to a floating point value
        flt_data = float(data)

        # appending this information to the empty modified_data list created a
bove
        modified_data.append(flt_data)

    # generating a single numpy array to store information on the doy & it's a
ssociated data
    data_arr = np.column_stack((doys, modified_data)) # all data inside the nu
mpy array stored as a floating point number

    return data_arr

# Applying function to extract datetime information (in form of doy) & associa
ted stream flow discharge
# from files downloaded and saved
flw_filename_01 = 'strm_flw_2014.npz'
flw_filename_02 = 'strm_flw_2015.npz'
flw_data_arr_01 = extract_data(flw_filename_01, 'datetime', '225201_00060_0000
3')
flw_data_arr_02 = extract_data(flw_filename_02, 'datetime', '225201_00060_0000
3')
```

In [667]:
```
# Step 4: Use loaded data to visualize the data through line plot

# produce 2 subplots (within a single plot), where they share the same x & y a
xis (hence sharey & sharex = True)
fig, axs = plt.subplots(2,1, sharey=True, sharex =True,\
                        figsize=(12,5))

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # code derived from Chapter3_3GDAL_masking pre
pared by Professor Lewis

# plotting stream flow discharge data for year 2014
axs[0].plot(flw_data_arr_01[:,0], flw_data_arr_01[:,1], label='2014 Stream Flo
w Discharge')
axs[0].legend(loc='best')

# plotting stream flow discharge data for year 2015
axs[1].plot(flw_data_arr_02[:,0], flw_data_arr_02[:,1], label='2015 Stream Flo
w Discharge')
axs[1].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Stream Flow Discharge for Year 2014 & 2015')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel(r'$Stream Flow Discharge ( \mu Feet^3/s)$', labelpad=20)
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```

Out[667]: `Text(0,0.5,'$Stream Flow Discharge ( \\mu Feet^3/s)$')`



A visual inspection of the graph above indicates that there are no invalid observation present in the stream flow discharge data for the year 2014 and 2015.

In [588]:
```
# Step 5: Produce a summary table of statistics for stream flow discharge

# creaating a function to calculate summary statistics
def summary_statistics(data_1, data_2, type_of_data):
    '''
    Function to calculate the mean, maximum value (and the doy it occurs) and
 the minumum value (and the doy it occurs)
    of the data in the 2nd dimension of the data array passed.

    Parameters
    ----------
    data_1: a numpy array
        A numpy array containing information on the doy and the associated mea
surement values for the first year in the dataset
        (can be snow cover, temperature or stream flow discharge).

    data_2: a numpy array
        A numpy array containing information on the doy and the associated mea
surement values for the second year in the dataset
        (can be snow cover, temperature or stream flow discharge).

    type_of_data: a string
        A string that specifies the data being loaded to calculate it summary
 statistics. Possible options includes
        mean snow cover, max temperature & stream flow discharge.

    Returns
    -------
    A pandas dataframe table displaying the calculated statistics for each yea
r
    '''
    # calculate the mean value for the 2nd column of the data passed
    mean_01 = np.mean(data_1[:,1])# year 2014
    mean_02 = np.mean(data_2[:,1])# year 2015

    # calculate the maximum value for the 2nd column of the data passed & iden
tifies the index position where it occurs
    # the index position for the 2nd column is used to calculate the doy when
 the maximum value for the 2nd column occurs

    # year 2014
    max_data_01, index_max_data_01 = np.max(data_1[:,1]), data_1[:,1].argmax()
 # np.max() used to get maximum value

 # in an array passed

 #.argmax() used to get index position

 # for the maxiumum value in an array
    doy_max_data_01 = data_1[:,0][index_max_data_01]

    # year 2015
    max_data_02, index_max_data_02 = np.max(data_2[:,1]), data_2[:,1].argmax()
    doy_max_data_02 = data_2[:,0][index_max_data_02]

    # calculate the minimum value for the 2nd column of the data passed & iden
```

```
tifies the index position where it occurs
    # the index position for the 2nd column is used to calculate the doy when
 the minimum value for the 2nd column occurs

    # year 2014
    min_data_01, index_min_data_01 = np.min(data_1[:,1]), data_1[:,1].argmin()
 # np.min() used to get the minimum value

 # in an array passed

 #.argmin() used to get index position

 # for the minimum value in an array
    doy_min_data_01 = data_1[:,0][index_min_data_01]

    # year 2015
    min_data_02, index_min_data_02 = np.min(data_2[:,1]), data_2[:,1].argmin()
    doy_min_data_02 = data_2[:,0][index_min_data_02]

    # calculate sum for all values for the 2nd column of the data passed

    # year 2014
    sum_data_01 = np.sum(data_1[:,1])

    # year 2015
    sum_data_02 = np.sum(data_2[:,1])

    # calculates the standard deviation for the 2nd column of the data passed,
 up to 2 decimal places

    # year 2014
    std_data_01 = np.std(data_1[:,1])
    std_data_01 = float("{0:.2f}".format(std_data_01))

    # year 2015
    std_data_02 = np.std(data_2[:,1])
    std_data_02 = float("{0:.2f}".format(std_data_02))

    # put everything together into a pandas dataframe
    # use a dictionary to layout format of display of data in dataframe

    # setting up the dictionary
    # special case where not reporting summary statistics for Daily Mean Tempe
rature
    # as it doesn't make sense to include sum of daily mean temperature as a s
ummary statistic
    if type_of_data != 'Daily Mean Temperature':
        summary = {'Year':[2014, 2015],
                   f'Mimumum {type_of_data}':[min_data_01, min_data_02],
                   f'Doy of Minimum {type_of_data}':[doy_min_data_01, doy_min_
data_02],
                   f'Maximum {type_of_data}':[max_data_01, max_data_02],
                   f'Doy of Maximum {type_of_data}':[doy_max_data_01, doy_max_
data_02],
                   f'Sum of {type_of_data}': [sum_data_01, sum_data_02],
                   f'Standard Deviation of {type_of_data}':[std_data_01, std_d
ata_02]}
```

```
    else:
        summary = {'Year':[2014, 2015],
                   f'Mimumum {type_of_data}':[min_data_01, min_data_02],
                   f'Doy of Minimum {type_of_data}':[doy_min_data_01, doy_min_
data_02],
                   f'Maximum {type_of_data}':[max_data_01, max_data_02],
                   f'Doy of Maximum {type_of_data}':[doy_max_data_01, doy_max_
data_02],
                   f'Standard Deviation of {type_of_data}':[std_data_01, std_d
ata_02]}

    # set up the dataframe
    df = pd.DataFrame.from_dict(summary)

    return df

# using the function above to derive summary statistics
# for the stream flow discharge for the year 2014 & 2015
df_discharge = summary_statistics(flw_data_arr_01, flw_data_arr_02, 'Stream Fl
ow Discharger')

# visualizing the dataframe
df_discharge
```

Out[588]:

	Year	Mimumum Stream Flow Discharger	Doy of Minimum Stream Flow Discharger	Maximum Stream Flow Discharger	Doy of Maximum Stream Flow Discharger	Sum of Stream Flow Discharger	Standard Deviation of Stream Flow Discharger
0	2014	155.0	362.0	5390.0	150.0	322049.0	1065.54
1	2015	160.0	54.0	5720.0	162.0	335232.0	1117.06

1.2 Temperature Data

Having produced the discharge data using the year 2014 and 2015, we will now proceed to acquire the temperature data for the HUC catchment 13010001. The data was aquired from the url http://climate.colostate.edu/data_access.html (http://climate.colostate.edu/data_access.html) using web interface to generate the data. The following information was inputed into the web interface:-

1. Station selection = DEL NORTE 6 W station
2. Frequency of data values = daily
3. Time period:- a) 2014:-

```
                Start Date = 01/01/2014
                End Date = 12/31/2014
        b) 2015:-
                Start Date = 01/01/2015
                End Date = 12/31/2015
```

4. Variables requested = maximum temperature, minimum temperature

Once generated, the following operations were performed:-

1. the data for each year was copied directly into a text file (1 for each year)
2. loading the data from the text files
3. convert the minimum & maximum daily temperature from Fahrenheit to Celcius
4. calculating the mean daily temperature using the maximum and minimum daily temperature, saving the data in a npz file
5. visualize the data using a simple line plot
6. produce some summary statistics on the temperature (mean, minimum, maximum, timing of minimum & maximum stream flow discharge)

The daily minimum and maximum temperature for 2014 and 2015 were copied and saved in a txt file. They were named temperature_2014.txt and temperature_2015.txt respectively.

In [589]:
```
# Step 2: load the data from the text files

# specify the text files to load
txt_file_1 = 'temperature_2014.txt'
txt_file_2 = 'temperature_2015.txt'

# write function for loading in text file as pandas dataframe
def load_temperature_txt(txt_file):
    '''
    Function for loading saved text file containing information for daily mini
mum &
    maximum temperature for either 2014 or 2015

    Parameters
    ----------
    txt_file: a string
        String specifying the name of the text file to load as a pandas datafr
ame

    Returns
    -------
    a pandas dataframe for daily minimum & maximum temperature for the year 20
14 or 2015
    '''
    df = pd.read_csv(txt_file, delimiter='\t') # specify delimeter in text fil
e to be tab space
    return df

# use function above to load temperature text files for year 2014 and 2015 as
 2 seperate pandas dataframes
temp_01 = load_temperature_txt(txt_file_1) # year 2014
temp_02 = load_temperature_txt(txt_file_2) # year 2015
```

In [590]:
```
# previewing the loaded 2014 temperature dataframe
temp_01.head(10)
```

Out[590]:

	DEL NORTE 6 W	maxt	mint
0	2014-01-01	22	18
1	2014-01-02	22	18
2	2014-01-03	22	18
3	2014-01-04	21	18
4	2014-01-05	21	18
5	2014-01-06	20	15
6	2014-01-07	21	15
7	2014-01-08	21	15
8	2014-01-09	21	16
9	2014-01-10	21	16

In [591]:
```
# previewing the loaded 2015 temperature dataframe
temp_02.head(10)
```

Out[591]:

	DEL NORTE 6 W	maxt	mint
0	2015-01-01	19	-9
1	2015-01-02	21	-6
2	2015-01-03	20	-8
3	2015-01-04	38	-5
4	2015-01-05	30	-6
5	2015-01-06	33	2
6	2015-01-07	45	12
7	2015-01-08	43	11
8	2015-01-09	39	8
9	2015-01-10	33	6

In [592]:
```
# Step 3: Convert the stored minimum & maximum daily temperature from Fahrenhe
it to Celcius

# create a function to convert from Fahrenheit to Celcius
# this function was adapted from Chapter2_Numpy_matplotlib, written by Profess
or Lewis
# a modification was made to the origional function, to ensure a 2 decimal pla
ce floating point number is returned
def fahrenheit_to_centigrade(deg_fahrenheit):
    """A function to convert from degrees Fahrenheit to degrees Centigrade

    Parameters
    ----------
    deg_fahrenheit: float
        Temperature in degrees F

    Returns
    -------
    Temperature converted to degrees C
    """
    deg_c = (deg_fahrenheit - 32.)*5./9.

    # modification to origional code
    # ensure only 2 decimal place floating point number is returned by the fun
ction
    deg_c = float("{0:.2f}".format(deg_c)) # perhaps returning the value as an
 integer would be better
                                           # as the origional data was a whole
 integer (up to debate?)
    return deg_c

# create a function to iterate over the minimum and maximum temperature data e
ntries
# in the text files to convert from degrees Fahrenheit to degrees Celcius
def update_min_max_data(dataframe):
    '''
    Function for converting the entries in the minimum and maximum temperature
 columns from degrees Fahrenheit
    to degrees Celcius

    Parameters
    ----------
    dataframe: a pandas dataframe
        Pandas dataframe containing temperature data (both minimum and maximum
 temperature) for year of interest

    Returns
    -------
    Nothing. The origional dataframe is now updated, with temperature values
 (in the minimum & maximum temperature columns)
    updated from degrees Fahrenheit to degrees Celcius
    '''
    # looping through the dataframe to convert the maximum & minimum temperatu
re data
    for i in range(len(dataframe)):
        # grab the value stored in specific row of the maximum & minimum tempe
```

```
rature column
        min_temp = dataframe.at[i, 'mint'] # minimum temperature data
        max_temp = dataframe.at[i, 'maxt'] # maximum temperature data

        # update the minimum & maximum temperatue (to degrees Celcius) and ins
ert back into dataframe
        # use the fahrenheit_to_centigrade function (Chapter2_Numpy_matplotli
b, written by Professor Lewis)
        dataframe.loc[i, 'mint'] = fahrenheit_to_centigrade(min_temp)
        dataframe.loc[i, 'maxt'] = fahrenheit_to_centigrade(max_temp)

    return None

# applying function to update temperature units in the 2014 & 2015 dataframes
update_min_max_data(temp_01) # for year 2014
update_min_max_data(temp_02) # for year 2015
```

In [593]:
```
# preview the updated 2014 dataframe after applying step 3
temp_01.head(10)
```

Out[593]:

	DEL NORTE 6 W	maxt	mint
0	2014-01-01	-5.56	-7.78
1	2014-01-02	-5.56	-7.78
2	2014-01-03	-5.56	-7.78
3	2014-01-04	-6.11	-7.78
4	2014-01-05	-6.11	-7.78
5	2014-01-06	-6.67	-9.44
6	2014-01-07	-6.11	-9.44
7	2014-01-08	-6.11	-9.44
8	2014-01-09	-6.11	-8.89
9	2014-01-10	-6.11	-8.89

In [594]:
```
# preview the updated 2015 dataframe after applying step 3
temp_02.head(10)
```

Out[594]:

	DEL NORTE 6 W	maxt	mint
0	2015-01-01	-7.22	-22.78
1	2015-01-02	-6.11	-21.11
2	2015-01-03	-6.67	-22.22
3	2015-01-04	3.33	-20.56
4	2015-01-05	-1.11	-21.11
5	2015-01-06	0.56	-16.67
6	2015-01-07	7.22	-11.11
7	2015-01-08	6.11	-11.67
8	2015-01-09	3.89	-13.33
9	2015-01-10	0.56	-14.44

In [595]:
```
# Step 4: Calculate the mean daily temperature using the minimum and maximum d
aily temperature

# create a function that creates a new column in the 2014 & 2015 dataframe
# values used to populate the column are the mean of daily minimum & maximum t
emperature
def daily_mean_temp(dataframe):
    '''
    Function for calculating the mean daily temperature for the loaded datafra
me. The calculated value
    is an average of the minimum & maximum daily temperature values. Once calc
ulated, these are used
    to create a new column in the loaded dataframe.

    Parameters
    ----------
    dataframe: a pandas dataframe
        Pandas dataframe containing temperature data (both minimum and maximum
 temperature) for year of interest

    Returns
    -------
    Nothing. The loaded dataframe is updated, and nowcontaining a new column,
    with values of daily mean temperature inside the column
    '''
    # create an empty list to store the calculated daily mean temperature
    daily_mean_temp = []

    # looping over the dataframe to calculate the daily mean temperature for e
ach doy
    for i in range(len(dataframe)):
        # grab the value stored in specific row of the maximum & minimum tempe
rature column
        min_temp = dataframe.at[i, 'mint'] # minimum temperature data
        max_temp = dataframe.at[i, 'maxt'] # maximum temperature data

        # calculate the daily mean temperature for each doy, ensuring only to
 2 decimal places
        mean_temp = (min_temp+max_temp)/2
        mean_temp= float("{0:.2f}".format(mean_temp))

        # update the list used to store the daily mean temperature
        daily_mean_temp.append(mean_temp)

    # create new column in dataframe, populated with newly calculated daily me
an temperature
    dataframe['meanT'] = daily_mean_temp

    return None

# applying function to dataframes to create daily mean temperature column
daily_mean_temp(temp_01) # for year 2014
daily_mean_temp(temp_02) # for year 2015

# create a npz file to store the data on mean daily temperature
# 1 npz file for each year (2014, 2015)
```

```
# create a function that write the npz file
def create_temp_npz(dataframe, filename):
    '''
    Function for creating a npz file for the daily mean temperature data.

    Parameters
    ----------
    dataframe: a pandas dataframe
         Pandas dataframe containing temperature data for year of interest

    filename: a string
        Filename want to save generated npz file as

    Returns
    -------
    Nothing. A npz file is created, with doy & associated daily mean temperatu
re data stored inside
    '''
    # create 2 empty list to store the doy information & mean daily temperatur
e data from the dataset
    doys = []
    mean_temps = []

    # looping over the dataframe to extract the doy information
    for i in range(len(dataframe)):
        # grab the value stored in specific row of the DEL NORTE 6 column (whe
re datetime data stored)
        # and the meanT column (where daily mean temperature stored)
        date = dataframe.at[i, 'DEL NORTE 6 W'] # datetime data
        mean_temp = dataframe.at[i, 'meanT'] # daily mean temperature data

        # putting each date information into a numpy array to convert from a s
ingle string
        # to multiple strings, before converting them into integers
        # code taken from earlier written function extract_data & from notes f
rom Scientific Computing (further details below)
        date_data = np.array(date.split('-')).astype(int)  # adopted directly
 from section 4.2.3.3
                                                           # from Chapter_4_Pr
actical_Part_1
                                                           # by Professor Lewi
s
        # extracting the year and doy information from each date data
        year, doy = datetime(date_data[0], date_data[1],\
                             date_data[2]).strftime('%Y %j').split()

        # append this information to the empty list doys
        doys.append (float(doy))

        # appending extracted daily mean temperature data to empty list mean_t
emps
        mean_temps.append(mean_temp)

    # storing data in for of npz involves creation of dictonary
    # create keys to pair with doys & mean_temps list created above
    keys = ['doy', 'daily_mean_temperature']
```

```
    # store data to be paired with keys in a list
    data = [doys, mean_temps]

    # pairing keys with associated list in a dictionary
    data_dict = dict(zip(keys, data))

    # saving the dataset
    np.savez_compressed(filename, **data_dict)

    return None

# applying the function to produce the npz files for 2014 and 2015 temperature
 data
filename_1 = 'daily_mean_temperature_2014.npz'
filename_2 = 'daily_mean_temperature_2015.npz'
create_temp_npz(temp_01, filename_1) # creates npz file for 2014 temperature d
ata
create_temp_npz(temp_02, filename_2)# creates npz file for 2015 temperature da
ta
```

In [596]:
```
# preview the updated 2014 dataframe after applying step 4
temp_01.head(10)
```

Out[596]:

	DEL NORTE 6 W	maxt	mint	meanT
0	2014-01-01	-5.56	-7.78	-6.67
1	2014-01-02	-5.56	-7.78	-6.67
2	2014-01-03	-5.56	-7.78	-6.67
3	2014-01-04	-6.11	-7.78	-6.95
4	2014-01-05	-6.11	-7.78	-6.95
5	2014-01-06	-6.67	-9.44	-8.05
6	2014-01-07	-6.11	-9.44	-7.78
7	2014-01-08	-6.11	-9.44	-7.78
8	2014-01-09	-6.11	-8.89	-7.50
9	2014-01-10	-6.11	-8.89	-7.50

In [597]:
```
# preview the updated 2015 dataframe after applying step 4
temp_02.head(10)
```

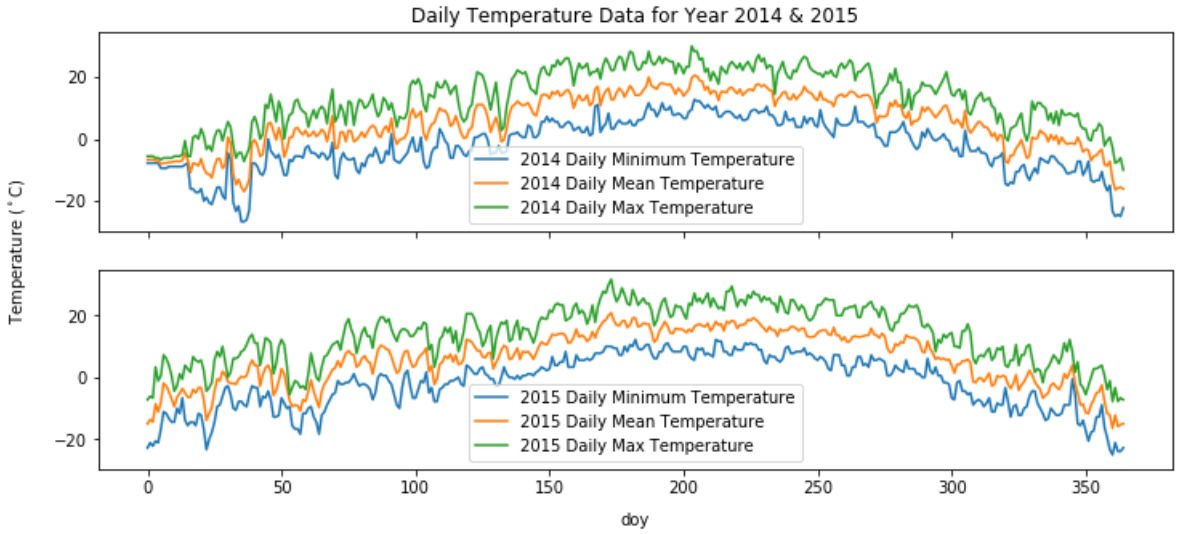
Out[597]:

	DEL NORTE 6 W	maxt	mint	meanT
0	2015-01-01	-7.22	-22.78	-15.00
1	2015-01-02	-6.11	-21.11	-13.61
2	2015-01-03	-6.67	-22.22	-14.45
3	2015-01-04	3.33	-20.56	-8.61
4	2015-01-05	-1.11	-21.11	-11.11
5	2015-01-06	0.56	-16.67	-8.06
6	2015-01-07	7.22	-11.11	-1.94
7	2015-01-08	6.11	-11.67	-2.78
8	2015-01-09	3.89	-13.33	-4.72
9	2015-01-10	0.56	-14.44	-6.94

In [598]:
```
# Step 5: Visualize the data using a simple line plot

# code was adapted from step 4 of section 1.1, which was used to visualize the
 change in stream flow discharge over a year
# changes were made to the data plotted, number of lines plotted, label & axis
 names and title used for the plot
# produce 2 subplots (within a single plot), where they share the same x & y a
xis (hence sharey & sharex = True)
fig, axs = plt.subplots(2,1, sharey=True, sharex =True,\
                        figsize=(12,5))

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # code derived from Chapter3_3GDAL_masking pre
pared by Professor Lewis

# plotting temperature data for year 2014
axs[0].plot(temp_01['mint'], label='2014 Daily Minimum Temperature')
axs[0].plot(temp_01['meanT'], label='2014 Daily Mean Temperature')
axs[0].plot(temp_01['maxt'], label='2014 Daily Max Temperature')
axs[0].legend(loc='best')

# plotting temperature data for year 2015
axs[1].plot(temp_02['mint'], label='2015 Daily Minimum Temperature')
axs[1].plot(temp_02['meanT'], label='2015 Daily Mean Temperature')
axs[1].plot(temp_02['maxt'], label='2015 Daily Max Temperature')
axs[1].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Daily Temperature Data for Year 2014 & 2015')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel('Temperature ($^\circ$C)', labelpad=20)
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```

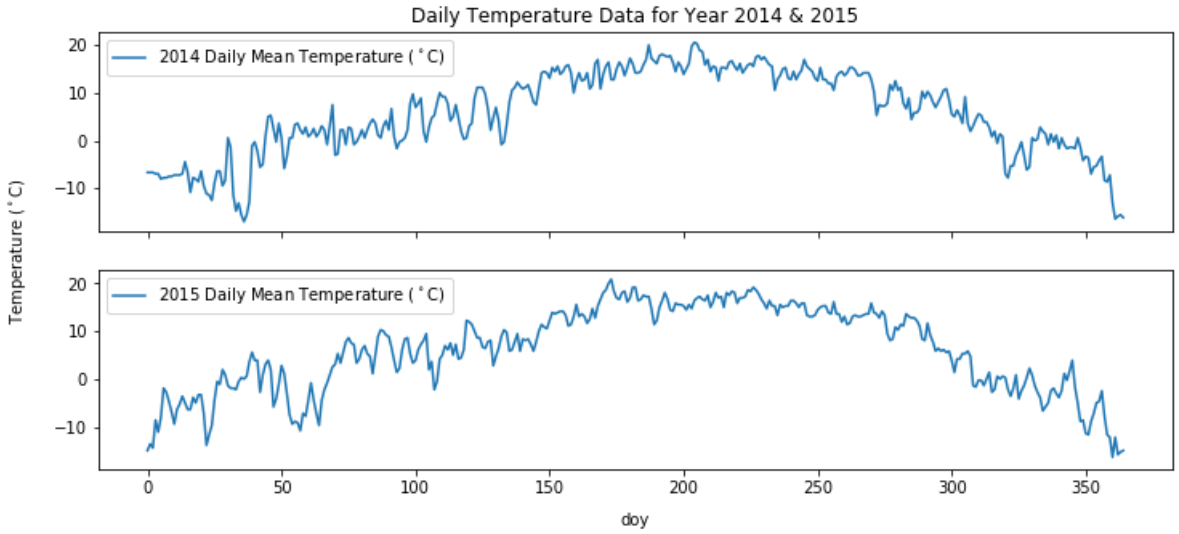
Out[598]: Text(0,0.5,'Temperature ($^\\circ$C)')



In [657]:
```
# producing only single line plots for the daily mean temperature data

# code was adapted from step 4 of section 1.1, which was used to visualize the
 change in stream flow discharge over a year
# changes were made to the data plotted, number of lines plotted, label & axis
 names and title used for the plot
# produce 2 subplots (within a single plot), where they share the same x & y a
xis (hence sharey & sharex = True)
fig, axs = plt.subplots(2,1, sharey=True, sharex =True,\
                        figsize=(12,5))

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # code derived from Chapter3_3GDAL_masking pre
pared by Professor Lewis

# plotting temperature data for year 2014
axs[0].plot(temp_01['meanT'], label='2014 Daily Mean Temperature ($^\circ$C)')
axs[0].legend(loc='best')

# plotting temperature data for year 2015
axs[1].plot(temp_02['meanT'], label='2015 Daily Mean Temperature ($^\circ$C)')
axs[1].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Daily Temperature Data for Year 2014 & 2015')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel('Temperature ($^\circ$C)', labelpad=20)
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```

Out[657]: `Text(0,0.5,'Temperature ($^\\circ$C)')`



A visual inspection of the daily mean temperature graphs for the year 2014 and 2015 seem to indicate that there are no invalid datapoints present.

In [600]:
```
# Step 6: Produce a summary table of statistics for daily mean temperature

# first need to extract information stored in npz files to get data in the for
m of a numpy array
# where 1st dimension stores information on doy & dimension stores information
 on daily mean temperature
temp_filename_01 = 'daily_mean_temperature_2014.npz'
temp_filename_02 = 'daily_mean_temperature_2015.npz'
temp_data_arr_01 = extract_data(temp_filename_01, 'doy', 'daily_mean_temperatu
re')
temp_data_arr_02 = extract_data(temp_filename_02, 'doy', 'daily_mean_temperatu
re')

# using the function created in step 5 of section 1.1 to derive summary statis
tics
# for daily mean temperature for the year 2014 & 2015
df_temperature = summary_statistics(temp_data_arr_01, temp_data_arr_02, 'Daily
 Mean Temperature')

# visualizing the dataframe
df_temperature
```

Out[600]:

	Year	Mimumum Daily Mean Temperature	Doy of Minimum Daily Mean Temperature	Maximum Daily Mean Temperature	Doy of Maximum Daily Mean Temperature	Standard Deviation of Daily Mean Temperature
0	2014	-16.95	37.0	20.55	205.0	8.76
1	2015	-16.39	361.0	20.84	174.0	8.84

1.3 Snow Cover Data

The mean snow cover data was derived using data from 2 MODIS Data Products :- MOD10A1 product (data from the Terra sensor) & MYD10A1 (data from the Aqua sensor). This choice of using 2 MODIS Data Products to generate the snow cover data was done in the interest of producing dataset of high reliability (in the event that the data from 1 of the sensor was of poor quality or completely absent, at least this would be offset by data from the other sensor).

The exercise to calculate the mean snow cover over the year 2014 and 2015 can be broken down into the following steps:-

1. Download the MOD10A1 & MYD10A1 data product for every day in the year 2014 & 2015 for the Rio Grande headwaters site
2. Mask, crop & extract data from donwloaded data products, storing the raw form of the data (not interpolated) in a 3D numpy array
3. Processes the raw data, to produce an interpolated dataset (removing the invalid or empty data entries)
4. Produce an image plot of 13 images of the snow cover dataset (at equal time interval throughout the year) for each form of the data (raw and interpolated). These will be plotted along side imagas plots showcasing the weighting of each pixel value within the produced snow cover dataset.
5. Calculate the mean snow cover for the 2 years, using the interpolated data & the weightings associated with the dataset
6. Produce 2 line graph illustrating the change in mean snow cover over the course of the year, for 2014 & 2015
7. Produce a summary table of statistics for the mean snow cover

In [116]:
```
# Step 1: Download the MODIS Snow Cover Data for both MOD10A1 & MYD10A1 for th
e year 2014 & 2015
# requires 4 functions to achieve process:-
# function 1 = generate url for either Terra or Aqua daily snow cover dataset
# function 2 = returns a list of MODIS tile urls, that will specify
# MODIS 500m Daily Snow Cover product for site of interest (specified by tile
 argument) for a specified date
# function 3 = download and saves snowcover dataset to local file on computer
# function 4 = wrapping function 1 to 3 in a single function call
# to obtain either Terra or Aqua Daily Snow Cover Data for years of interest

# writing function 1 = generate url for either Terra or Aqua daily snow cover
 dataset
def get_url(year, doy, server,
            base_url='https://n5eil01u.ecs.nsidc.org', version = 6):
    '''
    Function for generating full directory URL for MODIS dataset, with directo
ry path specified by function user.
    Function was initially prepared as part of exercise in Chapter_3_2_MODIS
 (under Exercise 3.2.1), and was initially
    designed to get MODIS Lai products. Function has since been modified to ge
t MODIS Daily Snow Cover products (either
    from Terra or Aqua, depending on specified sensor input in function parame
ter)

    Parameters
    ----------
    year: an integer
        Year of MODIS Daily Snow Cover dataset interested in

    doy: an integer
        Integer between 0 to 365/366(for leap year) that specifies month and d
ate for MODIS Daily Snow Cover dataset interest in

    base_url: a string
        Base url for obtaining MODIS dataset, set as default value. Can change
 it to specify other base url want
        to get information from

    server: a string
        Specifies the MODIS sensor want to get data from.
        Choose from MOST (for Terra data products) or MOSA (for Aqua data prod
ucts)

    version: an integer
        Specifies version of dataset wish to obtain. Set to default value of 6
 for latest version.

    Returns
    -------
    Printed full directory URL for MODIS dataset of interets to function user
    '''
    # set up datetime information for use in the full dictory url
    d = datetime(year,1,1) + timedelta(doy-1)
    datestr = f'{d.year:4d}.{d.month:02d}.{d.day:02d}'
```

```
    # creates full directory url
    # depending on which data product want (from which MODIS sensor)
    if server == 'MOST': # getting data from Terra sensor
        product = 'MOD10A1'
    else:# getting data from Aqua sensor
        product = 'MYD10A1'
    full_dir_url = f'{base_url}/{server}/{product}.{version:03d}/{datestr}/'

    return full_dir_url
```

In [118]:
```
# writing function_2 = returns a list of MODIS tile urls, that will specify
# MODIS 500m Daily Snow Cover product for site of interest (specified by tile
 argument) for a specified date
def modis_tiles(doy, year, tile, server):
    '''
    Function for retrieving MODIS tile URL of hdf files for specified location
 on Earth Surface for specific date.
    Function is a modification of code previously prepared by notebook author
 in exercise E3.2.4 from Chapter3_2_MODIS.
    The function was previously designed to retrieve MODIS LAI tile url of hdf
 file for specified location on Earth Surface
    for specified date. The function has since been modified to retrieve MODIS
 500m Daily Snow Cover product tile url of
    hdf file for specified location on Earth Surface for specified date.

    Parameters:
    -----------
    doy: an integer
        day of year for date of dataset

    year: an integer
        year for date of dataset

    tile: a list with a single entry
        specified location on Earth surface in terms of lat and lon (reference
s a MODIS tile)

    server: a string
        Specifies the MODIS sensor want to get data from.
        Choose from MOST (for Terra data products) or MOSA (for Aqua data prod
ucts)

    Returns:
    --------
    URLs for hdf files for tile location and date of interest for MODIS data
    '''
    # starting date from 1st January
    date= datetime(year,1,1) + timedelta(doy-1)

    # changing datetime into string format
    datestr = f'{date.year:4d}.{date.month:02d}.{date.day:02d}'

    # specify url for accessing html file
    full_dir_url = get_url(year, doy, server) # utilize get_url function to sp
ecify url for daily snow cover dataset

    # get html file
    html = nasa_requests.get(full_dir_url).text

    # get specified links to URL of all files
    soup = BeautifulSoup(html,'lxml')
    links = [mylink.attrs['href'] for mylink in soup.find_all('a')]

    # getting URL links only for tiles of interest
    tile_filenames = [item for item in links\
                      if item.split('.')[-1] =='hdf' and \
```

```
                    item.split('.')[-4] in tile]

    # removing file duplicates
    tile_filenames = np.unique(tile_filenames)

    # finalizing URLs
    returned_URLs = [f'{full_dir_url}{URL}' for URL in tile_filenames]

    return returned_URLs
```

In [119]:
```
# writing function_3 = download and saves snowcover dataset to local file on c
omputer
def get_modis_files(doy, year, tile, server,
                    destination_folder='assessment_1_data',
                    base_url='https://n5eil01u.ecs.nsidc.org',
                    version = 6, default_modis_tiles=True):
    '''
    Downloads appropriate dataset (if they exist within the NASA server) and s
aves it in the destination folder.
    Function is a modification of code previously prepared by notebook author
 in exercise E3.2.8 from Chapter3_2_MODIS.
    The function was previously designed to retrieve and save MODIS LAI tile u
rl of hdf file for specified location
    on Earth Surface for specified date. The function has since been modified
 to retrieve and save MODIS 500m Daily Snow Cover
    product tile url of hdf file for specified location on Earth Surface for s
pecified date.

    Parameters
    ----------
    doy: an integer, with 3 values (fill in missing values with 0s)
        Day of the year for dataset of interest

    year: an integer, with 4 values (fill in missing values with 0s)
        Year for dataset of interest

    tile: a string
        specified location on Earth surface in terms of lat and lon (reference
s a MODIS tile)

    server: a string
        Specifies the MODIS sensor want to get data from.
        Choose from MOST (for Terra data products) or MOSA (for Aqua data prod
ucts)

    destination_folder: a string
        Specified location for where to save downloaded data, with default val
ue of 'assessment_1_data'

    version: an integer
        Specifies version of dataset wish to obtain. Set to default value of 6
 for latest version.

    default_modis_tiles: a boolean value
        URL to download dataset from, with default value being NASA website

    Returns
    -------
    List of output filenames
    '''
    # using same default values for modis_tile
    if default_modis_tiles == True:
        tile_url = modis_tiles(doy, year, tile, server)

        # looping over urls
        for url in tile_url:
```

```
            r = nasa_requests.get(url)

            # check response
            if r.ok: # if url and dataset exists
                print(f"{str(url)} and it's data found in NASA database")

                # get filename from URL
                filename = url.split('/')[-1]

                # define destination folder and make it if doesn't already exi
st
                dest_path = Path(destination_folder)
                if not dest_path.exists():
                    dest_path.mkdir()

                # checking if filename and data already been downloaded before
                output_fname = dest_path.joinpath(filename)
                if output_fname.exists():
                    print(f"{str(output_fname)} already exists")

                # if it doesn't exist, get the data and write to the file
                else:
                    data = r.content
                    with open(output_fname, 'wb') as fp:
                        d = fp.write(data)
                        fp.close()
                    print(filename)
            else:
                print(f"{str(url)} and it's data not found in NASA database")

            return None
    else:
        print('Using new values for modis_tiles()')
        tile_url = modis_tiles(doy, year, tile, server)

        # looping over urls
        for url in tile_url:
            print(url)
            r = nasa_requests.get(url)

            # check response
            if r.ok: # if url and dataset exists
                print(f"{str(url)} and it's data found in NASA database")

                # get filename from URL
                filename = url.split('/')[-1]

                # define destination folder and make it if doens't already exi
st
                dest_path = Path(destination_folder)
                if not dest_path.exists():
                    dest_path.mkdir()

                # checking if filename and data already been downloaded before
                output_fname = dest_path.joinpath(filename)
                if output_fname.exists():
                    print(f"{str(output_fname)} already exists")
```

```
                # if it doesn't exist, get the data and write to the file
                else:
                    data = r.content
                    with open(output_fname, 'wb') as fp:
                        d = fp.write(data)
                        fp.close()
                    print(filename)
            else:
                print(f"{str(url)} and it's data not found in NASA database")

            return None
```

In [120]:
```
# writing function_4 = wrapping function 1 to 3 in a single function call
# to obtain either Terra or Aqua Daily Snow Cover Data for years of interest
def generate_snow_cover_data(years, tile, server):
    '''
    Function that generates daily snow cover data for specified years and til
e, from 1 of the MODIS sensors.
    Function utilizes the get_url function, the get_modis_file function & the
 get_modis_files to carry out process.

    Parameters
    ----------
    years: a list of integers
        Years for dataset of interest

    tile: a string
        specified location on Earth surface in terms of lat and lon (reference
s a MODIS tile)

    server: a string
        Specifies the MODIS sensor want to get data from.
        Choose from MOST (for Terra data products) or MOSA (for Aqua data prod
ucts)

    Returns
    -------
    Nothing. Downloaded dataset are saved onto the local device.
    '''
    # looping over all years of interest
    for year in years:
        # looping all doys in year
        #note that selected year are not leap years, so don't need to consider
 leap year cases
        for doy in range(1,366):
            get_modis_files(doy, year, tile, server)
```

In [226]:
```
# can now download daily Snow Cover data for both Terra and Aqua for years 201
4 and 2015

# require login details to acquire dataset from NASA server
cylog(init=True)
cylog().login()

# set up general function inputs used for both sensors
years = [2014, 2015]
tile = ['h09v05']

# download Terra Daily Snow Cover Data for years 2014 & 2015
server = 'MOST'
generate_snow_cover_data(years, tile, server)

# download Aqua Daily Snow Cover Data for years 2014 & 2015
server = 'MOSA'
generate_snow_cover_data(years, tile, server)
```

```
Enter your username: ucfancy
........
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.01/MOD10A1.A2014001.h
09v05.006.2016166194155.hdf and it's data found in NASA database
MOD10A1.A2014001.h09v05.006.2016166194155.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.02/MOD10A1.A2014002.h
09v05.006.2016166194152.hdf and it's data found in NASA database
MOD10A1.A2014002.h09v05.006.2016166194152.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.03/MOD10A1.A2014003.h
09v05.006.2016166193456.hdf and it's data found in NASA database
MOD10A1.A2014003.h09v05.006.2016166193456.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.04/MOD10A1.A2014004.h
09v05.006.2016166205329.hdf and it's data found in NASA database
MOD10A1.A2014004.h09v05.006.2016166205329.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.05/MOD10A1.A2014005.h
09v05.006.2016166205422.hdf and it's data found in NASA database
MOD10A1.A2014005.h09v05.006.2016166205422.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.06/MOD10A1.A2014006.h
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MOD10A1.A2014006.h09v05.006.2016166210212.hdf
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MOD10A1.A2014007.h09v05.006.2016166220436.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.08/MOD10A1.A2014008.h
09v05.006.2016166222427.hdf and it's data found in NASA database
MOD10A1.A2014008.h09v05.006.2016166222427.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.09/MOD10A1.A2014009.h
09v05.006.2016166230859.hdf and it's data found in NASA database
MOD10A1.A2014009.h09v05.006.2016166230859.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.10/MOD10A1.A2014010.h
09v05.006.2016166220606.hdf and it's data found in NASA database
MOD10A1.A2014010.h09v05.006.2016166220606.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.11/MOD10A1.A2014011.h
09v05.006.2016167011055.hdf and it's data found in NASA database
MOD10A1.A2014011.h09v05.006.2016167011055.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.12/MOD10A1.A2014012.h
09v05.006.2016167015329.hdf and it's data found in NASA database
MOD10A1.A2014012.h09v05.006.2016167015329.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.13/MOD10A1.A2014013.h
09v05.006.2016167011036.hdf and it's data found in NASA database
MOD10A1.A2014013.h09v05.006.2016167011036.hdf
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MOD10A1.A2014015.h09v05.006.2016167022701.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.16/MOD10A1.A2014016.h
09v05.006.2016167032248.hdf and it's data found in NASA database
MOD10A1.A2014016.h09v05.006.2016167032248.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.17/MOD10A1.A2014017.h
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MOD10A1.A2014017.h09v05.006.2016166224119.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.18/MOD10A1.A2014018.h
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MOD10A1.A2014018.h09v05.006.2016166223822.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.19/MOD10A1.A2014019.h
```

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MOD10A1.A2014020.h09v05.006.2016167004929.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.21/MOD10A1.A2014021.h
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MOD10A1.A2014021.h09v05.006.2016167004702.hdf
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https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.23/MOD10A1.A2014023.h
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MOD10A1.A2014023.h09v05.006.2016167024037.hdf
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MOD10A1.A2014024.h09v05.006.2016167031928.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.01.25/MOD10A1.A2014025.h
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MOD10A1.A2014026.h09v05.006.2016167003512.hdf
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MOD10A1.A2014034.h09v05.006.2016168214957.hdf
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MOD10A1.A2014042.h09v05.006.2016168231414.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.02.12/MOD10A1.A2014043.h
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MOD10A1.A2014043.h09v05.006.2016169004930.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.02.13/MOD10A1.A2014044.h
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MOD10A1.A2014044.h09v05.006.2016169015359.hdf
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MOD10A1.A2014045.h09v05.006.2016169052933.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.02.15/MOD10A1.A2014046.h
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MOD10A1.A2014046.h09v05.006.2016169065035.hdf
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MOD10A1.A2014047.h09v05.006.2016169070015.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.02.17/MOD10A1.A2014048.h
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MOD10A1.A2014051.h09v05.006.2016169001246.hdf
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MOD10A1.A2014053.h09v05.006.2016169062238.hdf
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MOD10A1.A2014054.h09v05.006.2016169075634.hdf
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MOD10A1.A2014055.h09v05.006.2016169082254.hdf
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MOD10A1.A2014056.h09v05.006.2016169084226.hdf
https://n5eil01u.ecs.nsidc.org/MOST/MOD10A1.006/2014.02.26/MOD10A1.A2014057.h

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MOD10A1.A2014057.h09v05.006.2016168220348.hdf
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MOD10A1.A2014058.h09v05.006.2016168233142.hdf
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MOD10A1.A2014059.h09v05.006.2016169001249.hdf
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09v05.006.2016169040810.hdf and it's data found in NASA database
MOD10A1.A2014060.h09v05.006.2016169040810.hdf
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09v05.006.2016181153302.hdf and it's data found in NASA database
MYD10A1.A2015289.h09v05.006.2016181153302.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.17/MYD10A1.A2015290.h
09v05.006.2016181154721.hdf and it's data found in NASA database
MYD10A1.A2015290.h09v05.006.2016181154721.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.18/MYD10A1.A2015291.h
09v05.006.2016181155740.hdf and it's data found in NASA database
MYD10A1.A2015291.h09v05.006.2016181155740.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.19/MYD10A1.A2015292.h
09v05.006.2016181180031.hdf and it's data found in NASA database
MYD10A1.A2015292.h09v05.006.2016181180031.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.20/MYD10A1.A2015293.h
09v05.006.2016181184748.hdf and it's data found in NASA database
MYD10A1.A2015293.h09v05.006.2016181184748.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.21/MYD10A1.A2015294.h

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https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.22/MYD10A1.A2015295.h
09v05.006.2016181202934.hdf and it's data found in NASA database
MYD10A1.A2015295.h09v05.006.2016181202934.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.23/MYD10A1.A2015296.h
09v05.006.2016181205318.hdf and it's data found in NASA database
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09v05.006.2016181164135.hdf and it's data found in NASA database
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MYD10A1.A2015299.h09v05.006.2016181161130.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.27/MYD10A1.A2015300.h
09v05.006.2016181183126.hdf and it's data found in NASA database
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09v05.006.2016181190318.hdf and it's data found in NASA database
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https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.10.31/MYD10A1.A2015304.h
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https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.01/MYD10A1.A2015305.h
09v05.006.2016181161220.hdf and it's data found in NASA database
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https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.02/MYD10A1.A2015306.h
09v05.006.2016181164203.hdf and it's data found in NASA database
MYD10A1.A2015306.h09v05.006.2016181164203.hdf
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09v05.006.2016181164250.hdf and it's data found in NASA database
MYD10A1.A2015307.h09v05.006.2016181164250.hdf
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09v05.006.2016181165841.hdf and it's data found in NASA database
MYD10A1.A2015308.h09v05.006.2016181165841.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.05/MYD10A1.A2015309.h
09v05.006.2016181204715.hdf and it's data found in NASA database
MYD10A1.A2015309.h09v05.006.2016181204715.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.06/MYD10A1.A2015310.h
09v05.006.2016181211144.hdf and it's data found in NASA database
MYD10A1.A2015310.h09v05.006.2016181211144.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.07/MYD10A1.A2015311.h
09v05.006.2016181215925.hdf and it's data found in NASA database
MYD10A1.A2015311.h09v05.006.2016181215925.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.08/MYD10A1.A2015312.h
09v05.006.2016181211638.hdf and it's data found in NASA database
MYD10A1.A2015312.h09v05.006.2016181211638.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.09/MYD10A1.A2015313.h

09v05.006.2016181164720.hdf and it's data found in NASA database
MYD10A1.A2015313.h09v05.006.2016181164720.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.10/MYD10A1.A2015314.h
09v05.006.2016181164245.hdf and it's data found in NASA database
MYD10A1.A2015314.h09v05.006.2016181164245.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.11/MYD10A1.A2015315.h
09v05.006.2016181164757.hdf and it's data found in NASA database
MYD10A1.A2015315.h09v05.006.2016181164757.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.12/MYD10A1.A2015316.h
09v05.006.2016181181909.hdf and it's data found in NASA database
MYD10A1.A2015316.h09v05.006.2016181181909.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.13/MYD10A1.A2015317.h
09v05.006.2016181234531.hdf and it's data found in NASA database
MYD10A1.A2015317.h09v05.006.2016181234531.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.14/MYD10A1.A2015318.h
09v05.006.2016182003946.hdf and it's data found in NASA database
MYD10A1.A2015318.h09v05.006.2016182003946.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.15/MYD10A1.A2015319.h
09v05.006.2016182001622.hdf and it's data found in NASA database
MYD10A1.A2015319.h09v05.006.2016182001622.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.16/MYD10A1.A2015320.h
09v05.006.2016182012752.hdf and it's data found in NASA database
MYD10A1.A2015320.h09v05.006.2016182012752.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.17/MYD10A1.A2015321.h
09v05.006.2016181165822.hdf and it's data found in NASA database
MYD10A1.A2015321.h09v05.006.2016181165822.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.18/MYD10A1.A2015322.h
09v05.006.2016181170942.hdf and it's data found in NASA database
MYD10A1.A2015322.h09v05.006.2016181170942.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.19/MYD10A1.A2015323.h
09v05.006.2016181170948.hdf and it's data found in NASA database
MYD10A1.A2015323.h09v05.006.2016181170948.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.20/MYD10A1.A2015324.h
09v05.006.2016181171636.hdf and it's data found in NASA database
MYD10A1.A2015324.h09v05.006.2016181171636.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.21/MYD10A1.A2015325.h
09v05.006.2016182012956.hdf and it's data found in NASA database
MYD10A1.A2015325.h09v05.006.2016182012956.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.22/MYD10A1.A2015326.h
09v05.006.2016182014746.hdf and it's data found in NASA database
MYD10A1.A2015326.h09v05.006.2016182014746.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.23/MYD10A1.A2015327.h
09v05.006.2016182002012.hdf and it's data found in NASA database
MYD10A1.A2015327.h09v05.006.2016182002012.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.24/MYD10A1.A2015328.h
09v05.006.2016181234441.hdf and it's data found in NASA database
MYD10A1.A2015328.h09v05.006.2016181234441.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.25/MYD10A1.A2015329.h
09v05.006.2016181172311.hdf and it's data found in NASA database
MYD10A1.A2015329.h09v05.006.2016181172311.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.26/MYD10A1.A2015330.h
09v05.006.2016181172329.hdf and it's data found in NASA database
MYD10A1.A2015330.h09v05.006.2016181172329.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.27/MYD10A1.A2015331.h
09v05.006.2016181175102.hdf and it's data found in NASA database
MYD10A1.A2015331.h09v05.006.2016181175102.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.28/MYD10A1.A2015332.h

09v05.006.2016181183147.hdf and it's data found in NASA database
MYD10A1.A2015332.h09v05.006.2016181183147.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.29/MYD10A1.A2015333.h
09v05.006.2016181230831.hdf and it's data found in NASA database
MYD10A1.A2015333.h09v05.006.2016181230831.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.11.30/MYD10A1.A2015334.h
09v05.006.2016182022737.hdf and it's data found in NASA database
MYD10A1.A2015334.h09v05.006.2016182022737.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.01/MYD10A1.A2015335.h
09v05.006.2016182024324.hdf and it's data found in NASA database
MYD10A1.A2015335.h09v05.006.2016182024324.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.02/MYD10A1.A2015336.h
09v05.006.2016182015723.hdf and it's data found in NASA database
MYD10A1.A2015336.h09v05.006.2016182015723.hdf
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09v05.006.2016181072446.hdf and it's data found in NASA database
MYD10A1.A2015337.h09v05.006.2016181072446.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.04/MYD10A1.A2015338.h
09v05.006.2016181075300.hdf and it's data found in NASA database
MYD10A1.A2015338.h09v05.006.2016181075300.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.05/MYD10A1.A2015339.h
09v05.006.2016181090604.hdf and it's data found in NASA database
MYD10A1.A2015339.h09v05.006.2016181090604.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.06/MYD10A1.A2015340.h
09v05.006.2016181081233.hdf and it's data found in NASA database
MYD10A1.A2015340.h09v05.006.2016181081233.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.07/MYD10A1.A2015341.h
09v05.006.2016181083758.hdf and it's data found in NASA database
MYD10A1.A2015341.h09v05.006.2016181083758.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.08/MYD10A1.A2015342.h
09v05.006.2016181091017.hdf and it's data found in NASA database
MYD10A1.A2015342.h09v05.006.2016181091017.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.09/MYD10A1.A2015343.h
09v05.006.2016181094745.hdf and it's data found in NASA database
MYD10A1.A2015343.h09v05.006.2016181094745.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.10/MYD10A1.A2015344.h
09v05.006.2016181100842.hdf and it's data found in NASA database
MYD10A1.A2015344.h09v05.006.2016181100842.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.11/MYD10A1.A2015345.h
09v05.006.2016181075121.hdf and it's data found in NASA database
MYD10A1.A2015345.h09v05.006.2016181075121.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.12/MYD10A1.A2015346.h
09v05.006.2016181074924.hdf and it's data found in NASA database
MYD10A1.A2015346.h09v05.006.2016181074924.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.13/MYD10A1.A2015347.h
09v05.006.2016181085352.hdf and it's data found in NASA database
MYD10A1.A2015347.h09v05.006.2016181085352.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.14/MYD10A1.A2015348.h
09v05.006.2016181083922.hdf and it's data found in NASA database
MYD10A1.A2015348.h09v05.006.2016181083922.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.15/MYD10A1.A2015349.h
09v05.006.2016181090135.hdf and it's data found in NASA database
MYD10A1.A2015349.h09v05.006.2016181090135.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.16/MYD10A1.A2015350.h
09v05.006.2016181093537.hdf and it's data found in NASA database
MYD10A1.A2015350.h09v05.006.2016181093537.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.17/MYD10A1.A2015351.h

09v05.006.2016181093123.hdf and it's data found in NASA database
MYD10A1.A2015351.h09v05.006.2016181093123.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.18/MYD10A1.A2015352.h
09v05.006.2016181100222.hdf and it's data found in NASA database
MYD10A1.A2015352.h09v05.006.2016181100222.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.19/MYD10A1.A2015353.h
09v05.006.2016181075004.hdf and it's data found in NASA database
MYD10A1.A2015353.h09v05.006.2016181075004.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.20/MYD10A1.A2015354.h
09v05.006.2016181080050.hdf and it's data found in NASA database
MYD10A1.A2015354.h09v05.006.2016181080050.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.21/MYD10A1.A2015355.h
09v05.006.2016181085236.hdf and it's data found in NASA database
MYD10A1.A2015355.h09v05.006.2016181085236.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.22/MYD10A1.A2015356.h
09v05.006.2016181090027.hdf and it's data found in NASA database
MYD10A1.A2015356.h09v05.006.2016181090027.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.23/MYD10A1.A2015357.h
09v05.006.2016181085615.hdf and it's data found in NASA database
MYD10A1.A2015357.h09v05.006.2016181085615.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.24/MYD10A1.A2015358.h
09v05.006.2016181092456.hdf and it's data found in NASA database
MYD10A1.A2015358.h09v05.006.2016181092456.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.25/MYD10A1.A2015359.h
09v05.006.2016182135013.hdf and it's data found in NASA database
MYD10A1.A2015359.h09v05.006.2016182135013.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.26/MYD10A1.A2015360.h
09v05.006.2016182134750.hdf and it's data found in NASA database
MYD10A1.A2015360.h09v05.006.2016182134750.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.27/MYD10A1.A2015361.h
09v05.006.2016182135115.hdf and it's data found in NASA database
MYD10A1.A2015361.h09v05.006.2016182135115.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.28/MYD10A1.A2015362.h
09v05.006.2016182142905.hdf and it's data found in NASA database
MYD10A1.A2015362.h09v05.006.2016182142905.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.29/MYD10A1.A2015363.h
09v05.006.2016182141910.hdf and it's data found in NASA database
MYD10A1.A2015363.h09v05.006.2016182141910.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.30/MYD10A1.A2015364.h
09v05.006.2016182142614.hdf and it's data found in NASA database
MYD10A1.A2015364.h09v05.006.2016182142614.hdf
https://n5eil01u.ecs.nsidc.org/MOSA/MYD10A1.006/2015.12.31/MYD10A1.A2015365.h
09v05.006.2016182182249.hdf and it's data found in NASA database
MYD10A1.A2015365.h09v05.006.2016182182249.hdf

In [2]:
```
# Step 2: Mask, crop & extract data from donwloaded data products,
# storing the raw form of the data (not interpolated) in a 3D numpy array

# first need to write function to find downloaded hdf files
# since have 2 data products from 2 different sources (Terra & Aqua)
# created function must be able to handle both data products
def find_modis_files(file_type, doy, year, folder='assessment_1_data',
                     tile='h09v05'):
    """
    Functions that finds MYD files or MOD files in a given folder for a date a
nd set of tiles, based on the user's input.
    Adapted from written function find_mcdfiles() in exercise 3.4.1, Chapter3_
4_GDAL_stacking_and_interpolating.
    The function was written by either Jose or Professor Lewis.

    The following modifications to the original function were made:-
    1. Changing the function name and internal variable names to suit the file
s looking for
    2. Search entry in sel_files modified to suit looking for a both MYD or MO
D file
    3. looping over a list of doys instead of tiles
    4. Addition of file_type parameter in function to specify if searching for
 MYD or MOD file
    5. Setting folder, tile and doys to preset values, which can be changed by
 the user

    Parameters
    ----------
    file_type: a string
        Specifies the file type the function is looking for. Choose from MYD o
r MOD.

    doy: an integer
        Specifies day in the year want to get snow cover data

    year: an integer
        Specifies year for dataset of interest

    tile: a string
        Specifies tile location on Earth for dataset of interest.
        Set to preset location to cover Rio Grande headwaters, Colorado

    folder: a string
        Specifies file directory where MYD files are stored in. Preset to loca
tion where all MOD and MYD files stored.

    Returns
    -------
    A list of MYD or MOD files, depending on specified file type in the parame
ter file_type
    """
    # specifies directory to look for MYD files
    data_folder = Path(folder)

    # Find all MYD or MOD files
    modis_files = []
```

```
   # specify file type searching for
   if file_type == 'MYD':
       start_file_name = 'MYD10A1'

   elif file_type == 'MOD':
       start_file_name = 'MOD10A1'

   else:
       print('Wrong file type searched. Please enter either MYD or MOD as the
file_type parameter')
       return None

   # grab files that match the pattern of file_type, year and doy
   sel_files = data_folder.glob(
       f"{start_file_name}*.A{year:d}{doy:03d}.{tile}.*hdf") # modified code
to suit looking for MYD or MOD file

   for fich in sel_files:
       modis_files.append(fich)

   return modis_files
```

In [3]:
```
# second, need to specify the files within the MODIS files (either MYD or MOD)
 that want to read using GDAL
# in order to access data inside MODIS file (stored in layers)
def create_gdal_friendly_names(filenames, layer):
    """Given a list of HDF filenames, and a layer, create a list of GDAL point
ers to an internal layer in the
    filenames given. Adapted from written function create_gdal_friendly_names
() in exercise 3.4.1,
    Chapter3_4_GDAL_stacking_and_interpolating. The function was written by ei
ther Jose or Professor Lewis.

     The following modifications to the original function were made:-
    1. The search entry in fname was modified to suit for handling MODIS snow
 cover

    Parameters
    ----------
    filenames: a list of strings
        List of either MOD or MYD files, provided as an output from the find_m
odis_files function.

    layer: a string
        Specified layer within the MODIS file want to read.For snow cover data
set, can choose from either
        NDSI_Snow_Cover for the daily 500m Snow Cover data, or NDSI_Snow_Cover
_Basic_QA for the quality control data

    Returns
    -------
    A list of full paths in either the MYD or MOD files to access either the D
aily Snow Cover layer
    or the Quality Control layer.
    """
    # Create GDAL friendly-names...
    gdal_filenames = []

    for file_name in filenames:
        # Convert filename to a string. Could also do it with
        # str(file_name)
        fname = file_name.as_posix()
        # Create the GDAL pointer name
        fname = f'HDF4_EOS:EOS_GRID:"{fname:s}":MOD_Grid_Snow_500m:{layer:s}'
        gdal_filenames.append(fname)

    return gdal_filenames
```

In [302]:
```
# testing out function

# grabbing mod & myd files for year 2014 & 2015
MOD_2014 = find_modis_files('MOD', 2014)
MOD_2015 = find_modis_files('MOD', 2015)
MYD_2014 = find_modis_files('MYD', 2014)
MYD_2015 = find_modis_files('MYD', 2015)

# generating gdal friendly names for ease of accessing layer inside MODIS file
s

# generate for MOD 2014 and 2015 data (both snow cover and quality control lay
er)
gdal_filenames_MOD_2014_snow_cover = create_gdal_friendly_names(MOD_2014 , 'ND
SI_Snow_Cover')
gdal_filenames_MOD_2014_quality_control = create_gdal_friendly_names(MOD_2014
, 'NDSI_Snow_Cover_Basic_QA')
gdal_filenames_MOD_2015_snow_cover = create_gdal_friendly_names(MOD_2015 , 'ND
SI_Snow_Cover')
gdal_filenames_MOD_2015_quality_control = create_gdal_friendly_names(MOD_2015
, 'NDSI_Snow_Cover_Basic_QA')

# generate for MYD 2014 and 2015 data (both snow cover and quality control lay
er)
gdal_filenames_MYD_2014_snow_cover = create_gdal_friendly_names(MYD_2014 , 'ND
SI_Snow_Cover')
gdal_filenames_MYD_2014_quality_control = create_gdal_friendly_names(MYD_2014
, 'NDSI_Snow_Cover_Basic_QA')
gdal_filenames_MYD_2015_snow_cover = create_gdal_friendly_names(MYD_2015 , 'ND
SI_Snow_Cover')
gdal_filenames_MYD_2015_quality_control = create_gdal_friendly_names(MYD_2015
, 'NDSI_Snow_Cover_Basic_QA')
```

In [ ]:
```
# third, need to crop data in stored in the layers of the MODIS files (both MO
D & MYD)
# to match the site on interest (the Rio Grande headwaters, Colorado)
# write a function to do this
```

In [34]:
```
def mosaic_and_clip(file_type,
                    doy,
                    year,
                    layer,
                    tile = 'h09v05',
                    folder="assessment_1_data",
                    shpfile="data/Hydrological_Units/HUC_Polygons.shp",
                    HUC_code="13010001",
                    frmat="MEM"):
    """
    Function to crop data stored in loaded layer of interest in either the MOD
 of MYD file, to suit real-world location
    of interest. The function has been adapted from the mosaic_and_clip functi
on provided in the
    Chapter3_4_GDAL_stacking_and_interpolating, written by Professor Lewis & D
r. Jose Gonzalez.

    From the origional function written, the following modification were made
 to adapt the code for the user's purpose:-
    1. changing the preset value for the folder parameter
    2. changed the country_code parameter to the US (as want to visualize the
 Rio Grande Headwater site in Colorado)
    3. removed the preset value to the layer parameter, allowing to user to de
cide on layer wish to use
    4. inclusion of a file_type parameter to specify which MODIS file using (e
ither MYD or MOD)
    5. substitution of the default string in shpfile parameter, now directing
 towards a hylogical units code polygon shape file
    6. replacement of the country_code parameter with a HUC_code, to better re
flect working with a shape file,
    specific for hydrologic units


    Parameters
    ----------
    file_type: a string
        Specifies the file type the function is looking for. Choose from MYD o
r MOD.

    doy: an integers
        Specifies doy in year of interest want to extract data.

    year: an integer
        Specifies year of dataset using

    layer: a string
        Specifies layer inside the MOD/MYD file wish to access data for. Possi
ble choices include
        NDSI_Snow_Cover & NDSI_Snow_Cover_Basic_QA

    tile: a string
        Specifies tile location on Earth for dataset of interest.
        Set to preset value to cover Rio Grande headwaters, Colorado

    folder: a string
        Specifies the directory where MOD/MYD files are stored. Set to a prese
```

```
t value for the MOD/MYD files
        have been downloaded to

    shpfile: a string
        Specifies file location for shape file used to crop data in the file l
ayers of MOD/MTD files.
        Set to preset value to file location where HUC_Polygons shapefile has
 been downloaded, unpacked & stored at

    HUC_code: a string
        Specifies the hydrologic unit code for the Rio Grande headwater catchm
ent to use in the shape file to crop the data
        in the file layers of MOD/MYD files.Set to preset value of 13010001 as
 only interested in snow cover data in
        in the Rio Grande Headwaters

    frmat: a string
        Specifies file type created in this function. Currently preset to MEM
 to produce virtual data file, which will be lost
        once the jupyter notebook session is terminated. Can be changed to GTi
ff to create a GeoTIFF file
        with the mosaicked and clipped data

    Returns
    -------
    If frmat='MEM', will return a numpy array of the clipped data. If frmat='G
Tiff',
    will return a GeoTIFF file with the mosaicked and clipped data
    """
    # specify file directory to look for files
    folder_path = Path(folder)

    # Find all files to mosaic together
    hdf_files = find_modis_files(file_type, doy, year)

    # Create GDAL friendly-names...
    gdal_filenames = create_gdal_friendly_names(hdf_files, layer)

    # if want to produce a numpy array of the dataset cropped to the specified
 world location
    if frmat == "MEM":
        g = gdal.Warp(
            "",
            gdal_filenames,
            format="MEM",
            dstNodata=255,
            cutlineDSName=shpfile,
            cutlineWhere=f"HUC='{HUC_code:s}'",
            cropToCutline=True)
        data = g.ReadAsArray()
        return data

    # if want to produce a GeoTIFF file with the mosaicked and clipped data
    elif frmat == "GTiff":
        geotiff_fnamex = f"{layer:s}_{year:d}_{doy:03d}_{country_code:s}.tif"
# create file name
        geotiff_fname  = folder_path/geotiff_fnamex # specify full file addres
```

```
s to save to
        g = gdal.Warp(
            geotiff_fname.as_posix(),
            gdal_filenames,
            format=frmat,
            dstNodata=255,
            cutlineDSName=shpfile,
            cutlineWhere=f"HUC='{HUC_code:s}'",
            cropToCutline=True)
        return geotiff_fname.as_posix()
    else:
        raise ValueError("Only MEM or GTiff formats supported!")
```

In [60]:
```
# forth, need to take into account that not all data provided in dataset of eq
ual weighting.
# Hence, need to take into consideration the quality of the data available

# write a function that apples the appropriate scaling to each value in the qu
ality control numpy array
def get_scaling(qa_array, golden_ratio=0.61803398875):
    '''
    Function that applies the appropriate scaling to each value in the quality
 control numpy array
    Function modified function written from Exercise 3.4.4 in Chapter3_4_GDAL_
stacking_and_interpolating.

    Minor comments were added to clarify process in function. In addition, maj
or change in the function was made:-

        The function directly applied the golden_ratio power operation on the
 values stored inside the
        qa_array, and saves them in a new array called weight. The snow cover
 dataset does not have a bitfield
        information table to indicate the quality of the data. Instead, the qu
ality of the data is represented through
        whole integers, ranging from 0 to 4 (and also 255 for invalid reading
s) stored directly in the
        NDSI_Snow_Cover_Basic_QA file layer


    Parameters
    ----------
    qa_array: a numpy array
        Numpy array generated from output of mosaic_and_clip function using th
e layer argument NDSI_Snow_Cover_Basic_QA.
        Indicated the quality of the algorithm used to derive the value for th
at pixel in the dataset

    golden_ratio: a floating point number
        Used to apply the appropriate scaling to each value in the qa_array
    '''
    weight = np.zeros_like(qa_array, dtype=np.float) # create an array of zero
s of the same shape as sfc_qa,
                                                     # filled with filled with f
loating point numbers

    # get shape of qa_array
    n_rows = qa_array.shape[0]
    n_columns = qa_array.shape[1]

    # going through each row and column in the weight array to fill in with ri
ght scaling value
    for i in range(n_rows):
        for j in range(n_columns):
            weight[i][j] = np.power(golden_ratio, float(qa_array[i][j])) # pos
sible values inside the qa_array
                                                                             # ran
ge from 0 to 4 for valid measurements
                                                                             # wit
```

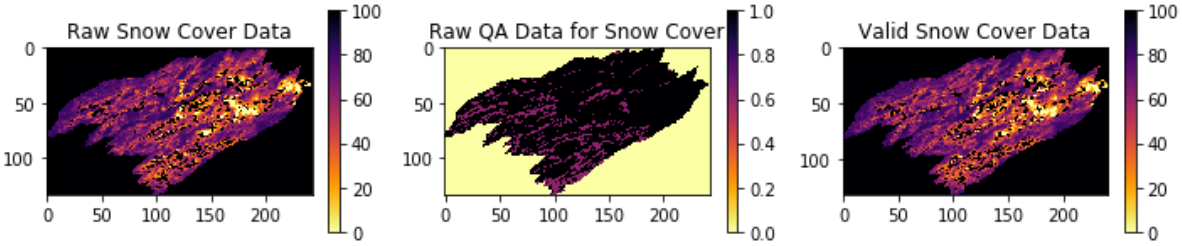
```
h 0 being the best and 4 being the worst data quality
                                                                                # and
 255 being invalid readings

    return weight
```

In [64]:
```
# now need to scale the snow cover data based on the weighting from the QA dat
a
# write a function to do this
def process_single_date(file_type,
                        doy,
                        year,
                        tile = 'h09v05',
                        folder="assessment_1_data",
                        shpfile="data/Hydrological_Units/HUC_Polygons.shp",
                        HUC_code="13010001",
                        frmat="MEM"):
    '''
    Function to produce a single layer in a 3-dimensional array used to store
 information on the snow cover at
    the HUC catchment 13010001, with the snow cover values, being adjusted for
 their quality, using information
    from the NDSI_Snow_Cover_Basic_QA file layer.

    The function was adapted from the function written by Professor Lewis & D
r. Jose Gonzalez in Exercise 3.4.5,
    Chapter3_4_GDAL_stacking_and_interpolating.

    The following modifications were made to the function:-
    1. a new parameter was introduced into the function. file_type specifies i
f the data being generated comes
    from the Terra or Aqua sensor.
    2. tile has been changed from a list to a string, as only 1 MODIS tile is
 needed to capture the area of interest
    3. the default values for folder and shpfile have been changed to suit app
lying the function for the MODIS Snow Cover data
    4. the country_code parameter has been replaced with HUC_code, as now usin
g a HUC Polygon shape file, not a TM_WORLD_BORDER
       shape file
    5. the scaling factor previous present in the function (to be multiplied t
o the lai_data) has been removed. Unlike Lai data,
       snow cover data does nor require a scaling factor to be applied to it.

    Parameters
    ----------
    file_type: a string
        Specifies the file type the function is looking for. Choose from MYD o
r MOD.

    doy: an integers
        Specifies doy in year of interest want to extract data.

    year: an integer
        Specifies year of dataset using

    tile: a string
        Specifies tile location on Earth for dataset of interest.
        Set to preset value to cover Rio Grande headwaters, Colorado

    folder: a string
        Specifies the directory where MOD/MYD files are stored. Set to a prese
t value for
```

```
        where the MOD/MYD files have been downloaded to

    shpfile: a string
        Specifies file location for shape file used to crop data in the file l
ayers of MOD/MTD files.
        Set to preset value to file location where HUC_Polygons shapefile has
 been downloaded, unpacked & stored at

    HUC_code: a string
        Specifies the hydrologic unit code for the Rio Grande headwater catchm
ent to use in the shape file to crop the data
        in the file layers of MOD/MYD files.Set to preset value of 13010001 as
 only interested in snow cover data in
        in the Rio Grande Headwaters

    frmat: a string
        Specifies file type created in this function. Currently preset to MEM
 to produce virtual data file, which will be lost
        once the jupyter notebook session is terminated. Can be changed to GTi
ff to create a GeoTIFF file
        with the mosaicked and clipped data
    '''
    # store snow cover data in a numpy array
    snow_cover_data = mosaic_and_clip(file_type,
                                      doy,
                                      year,
                                      layer='NDSI_Snow_Cover',
                                      tile = 'h09v05',
                                      folder="assessment_1_data",
                                      shpfile="data/Hydrological_Units/HUC_Pol
ygons.shp",
                                      HUC_code="13010001",
                                      frmat="MEM")

    # store qa data for the snow cover for the same doy in the year in a numpy
 array
    qa_data = mosaic_and_clip(file_type,
                              doy,
                              year,
                              layer='NDSI_Snow_Cover_Basic_QA',
                              tile = 'h09v05',
                              folder="assessment_1_data",
                              shpfile="data/Hydrological_Units/HUC_Polygons.sh
p",
                              HUC_code="13010001",
                              frmat="MEM")

    # apply the appropriate weighting to the qa data
    weights = get_scaling(qa_data)
    return snow_cover_data, weights
```

In [373]:
```
# testing function
year = 2014
doy = 20
fig, axs = plt.subplots(nrows=1, ncols=3, figsize=(12, 24))
snow, weights =  process_single_date('MOD', doy, year)

# applying a mask to show only true snow cover data (without invalid values)
snow_mask = np.where(snow<=100)

# creating bounds for valid mask
min_y = snow_mask[0].min()
max_y = snow_mask[0].max()

min_x = snow_mask[1].min()
max_x = snow_mask[1].max()

# slicing snow data array to only on snow data array, don't need to do for qa_
array
snow_valid = snow[min_y:max_y,
           min_x:max_x]

# produce plots
img1 = axs[0].imshow(snow, interpolation="nearest", vmin=0, vmax=100,
              cmap=plt.cm.inferno_r)
axs[0].set_title('Raw Snow Cover Data')

img2 = axs[1].imshow(weights, interpolation="nearest", vmin=0,
              cmap=plt.cm.inferno_r)
axs[1].set_title('Raw QA Data for Snow Cover')

img3 = axs[2].imshow(snow_valid, interpolation="nearest", vmin=0, vmax=100,
              cmap=plt.cm.inferno_r)
axs[2].set_title('Valid Snow Cover Data')


plt.colorbar(img1,ax=axs[0],shrink=0.1)
plt.colorbar(img2,ax=axs[1],shrink=0.1)
plt.colorbar(img3,ax=axs[2],shrink=0.1)
```

Out[373]:
```
<matplotlib.colorbar.Colorbar at 0x7ff2c9aa4be0>
```



Ok, we've now able to extract the data for the daily snow cover as well as the qa, and save it in a numpy array. The code written is able to handle data from both Terra and Aqua sensors. The data extracted is for single days only. Lets write a function to produce a 3D numpy array for all doys in a year (1 for 2014, 1 for 2015). We want to make sure that the function is able to work with qa data as well.

In [705]:
```
# essentially write a function to produce a 3D array to handle time series dat
a, where each layer is a doy in a year
def process_timeseries(year,
                       tile = 'h09v05',
                       folder="assessment_1_data",
                       shpfile="data/Hydrological_Units/HUC_Polygons.shp",
                       HUC_code="13010001",
                       verbose=True):
    '''
    Function for producing a 3D array to store time series information of eith
er daily snow cover (%)
    or qa for each doy in a specified year.

    The function was adopted from the function written in Exercise 3.4.6 in Ch
apter3_4_GDAL_stacking_and_interpolaing
    , written by Professor Lewis and Dr. Jose Gonzalez.

    The following modifications were made to the function:-
    1. the range used in the for loop was changed from 92 to 365 since Daily S
now Product is collected every day of the year
    2. additional comments were added to illustrate how function works
    3. existing input parameters for the function was modified. These include:
-
        a. setting a default value for tile, folder, shpfile
        b. replacing country_code with HUC_code (with a default value) to suit
 working with HUC shape file
    4. the data from both Terra and Aqua were used to derive the daily snow co
ver data and associated qa. This was done
       using the following logic:-
       i. the value stored in the qa array (after applying the get_scaling fun
ction tied inside the process_single_date
          function) is checked first to see the quality of the data for that d
oy.

              If only one of the sensors has a valid reading (value ranging fr
om 0.1 to 1),
              then only data for that pixel from that dataset is used to fill
 in the value in the numpy array (for both
              daily_snow_cover & weighted qa).

              Else if both qa values are valid reading (between 0.1 to 1.0), t
hen the MODIS sensor with the higher weighted
              qa data value for that pixel (hence better data quality) is used
 to fill in both the value of daily snow cover &
              weighted qa in their respective numpy arrays. If however the val
ue for the daily snow cover for the better
              resolution qa data is greater than 100, then daily snow cover da
ta from the other MODIS sensor is used.

              Else if both  qa values have exactly the same value & between 0.
1 to 1.0, then the same qa value (taken from
              either one of the MODIS sensors) will be used to fill in the wei
ghted qa numpy array. The value used to fill
              in the daily snow cover array will be an averaged value between
 the 2 MODIS sensors, taking into account that
              neither one of the daily cover data used to calculate the averag
```

```
ed value is greater than 100. If 1 of the values
            is greater than 100, then only the daily snow cover value less t
han 100 is inserted into the daily
            snow cover array. If both of the daily snow cover value is great
er than 100, then the value 255 is filled into
            the daily snow cover numpy array.

            Finally, if both sensors have invalid qa readings (less than 0.
1), then the value 255 is filled into the
            daily snow cover numpy array. The invalid qa readings from eithe
r MODIS sensors is filled into the
            weighted qa array.

    Parameters
    ----------
    year: an integer
        Specifies year of dataset using

    tile: a string
        Specifies tile location on Earth for dataset of interest.
        Set to preset value to cover Rio Grande headwaters, Colorado

    folder: a string
        Specifies the directory where MOD/MYD files are stored. Set to a prese
t value for
        where the MOD/MYD files have been downloaded to

    shpfile: a string
        Specifies file location for shape file used to crop data in the file l
ayers of MOD/MTD files.
        Set to preset value to file location where HUC_Polygons shapefile has
 been downloaded, unpacked & stored at

    HUC_code: a string
        Specifies the hydrologic unit code for the Rio Grande headwater catchm
ent to use in the shape file to crop the data
        in the file layers of MOD/MYD files.Set to preset value of 13010001 as
 only interested in snow cover data in
        in the Rio Grande Headwaters

    verbose: a boolean value
        A boolean value used to decide if want to have some print out informat
ion of which doy in the year working with
        while waiting for function to run. Set with default value of true

    '''
    # set the starting datetime
    today = datetime(year, 1, 1)

    # create list to store dates of when processed daily snow cover for
    dates = []

    # looping over all days in a non-leap year
    for i in range(365): # data collected 365 days in a non-leap year

        # print out some information while function is running to know that i
t's working
```

```
        if (i%10 == 0) and verbose:
            print(f"Doing {str(today):s}")

        if today.year != year: # stops for loop whe cross over into the next y
ear
            break

        # extract the doy information, for use in the process_single_date func
tion
        doy = int(today.strftime("%j")) # j refers to julian day

        # generate snow cover and qa data for MOD files (Terra Sensor)
        file_type = 'MOD'

        # in event that somehow the dataset was missing, try using data from 1
 day before or data from 1 day after
        try:
            MOD_snow_arr, MOD_weight_arr = process_single_date(file_type,
                                                               doy,
                                                               year,
                                                               tile=tile,
                                                               folder=folder,
                                                               shpfile=shpfile
,
                                                               HUC_code=HUC_co
de,
                                                               frmat="MEM")

        except AttributeError:
            # overcoming problem with missing dataset for doy 73 in year 2014
 for Terra Sensor
            file_type = 'MYD'

            # essentially using MYD dataset twice to find best values
            MOD_snow_arr, MOD_weight_arr = process_single_date(file_type,
                                                               doy,
                                                               year,
                                                               tile=tile,
                                                               folder=folder,
                                                               shpfile=shpfile
,
                                                               HUC_code=HUC_co
de,
                                                               frmat="MEM")


        # generate snow cover and qa data for MYD files (Aqua Sensor)
        file_type = 'MYD'

        # in event that somehow the dataset was missing
        try:
            MYD_snow_arr, MYD_weight_arr = process_single_date(file_type,
                                                               doy,
                                                               year,
                                                               tile=tile,
                                                               folder=folder,
                                                               shpfile=shpfile
```

```
,
                                                                HUC_code=HUC_co
de,
                                                                frmat="MEM")

        except AttributeError:
            # overcoming problem with missing dataset for doy 246 in year 2014
 for Aqua Sensor
            file_type = 'MOD'

            # essentially using MOD dataset twice to find best values
            MYD_snow_arr, MYD_weight_arr = process_single_date(file_type,
                                                                doy,
                                                                year,
                                                                tile=tile,
                                                                folder=folder,
                                                                shpfile=shpfile
,
                                                                HUC_code=HUC_co
de,
                                                                frmat="MEM")

        if doy == 1:
            # First day, create outputs! => A 3D Numpy array to store time ser
ies information for daily snow cover & qa weighted
            ny, nx = MOD_snow_arr.shape # get shape of 2 dimensional array to
 construct 3 dimensional array
                                        # can use any of the generated numpy array
 data above (not specifically a MYD product)

            snow_array = np.zeros((ny, nx, 365)) # becomes a 3 dimensional arr
ay to allow for time series
            weights_array = np.zeros((ny, nx, 365))

        # create 2 empty 2D arrays to be populated with best daily snow cover
 values & qa weighted from MOD & MYD
        snow_arr = np.zeros_like(MOD_snow_arr, dtype=np.float)
        qa_arr = np.zeros_like(MYD_weight_arr, dtype=np.float)

        # looping over entries in the MOD and MYD daily snow cover & qa weight
ed array to pick out best quality entries for
        # each pixel for each doy in the year
        for j in range(MOD_snow_arr.shape[0]): # going through every row
            for k in range(MOD_snow_arr.shape[1]): # going through every colum
n

                # get value stored inside MOD & MYD for daily snow cover & qa
 weight for comparison of quality
                MOD_snow = MOD_snow_arr[j][k] # daily snow cover for MOD
                MOD_weight = MOD_weight_arr[j][k] # qa weighted for MOD

                MYD_snow = MYD_snow_arr[j][k] # daily snow cover for MYD
                MYD_weight = MYD_weight_arr[j][k] # qa weighted for MYD

                # selection of best quality data begins
                # check if only 1 of the qa_weighted datasets has a valid valu
e at that specific position in the numpy array
```

```
                if(MOD_weight > 0.1) and (MYD_weight<0.1): # where values belo
w 0.1 in the qa_weighed are considered invalid
                    if MOD_snow <=100: # check if is snow cover value
                        snow_arr[j][k] = MOD_snow/100.0 # divide by 100.0 to g
et value range of 0 to 1
                        qa_arr[j][k] = MOD_weight

                elif (MYD_weight> 0.1) and (MOD_weight<0.1):
                    if MYD_snow <=100: # check if is snow cover value
                        snow_arr[j][k] = MYD_snow/100.0
                        qa_arr[j][k] = MYD_weight

                # now check for case when both qa weighted values are valid,
                # will select dataset that has the highest weighted qa value a
nd valid daily snow cover value
                elif(MOD_weight > 0.1) and (MYD_weight > 0.1):
                    if(MOD_weight > MYD_weight): # daily snow cover valid valu
es range from 0 to 100
                        if MOD_snow <=100: # check if is snow cover value
                            snow_arr[j][k] = MOD_snow/100.0
                            qa_arr[j][k] = MOD_weight

                        elif MYD_snow <=100: # check if is snow cover value
                            snow_arr[j][k] = MYD_snow/100.0
                            qa_arr[j][k] = MYD_weight

                    elif(MYD_weight > MOD_weight):
                        if MYD_snow <= 100: # check if is snow cover value
                            snow_arr[j][k] = MYD_snow/100.0
                            qa_arr[j][k] = MYD_weight

                        elif MOD_snow <= 100:
                            snow_arr[j][k] = MOD_snow/100.0
                            qa_arr[j][k] = MOD_weight

                    # now check for case when both qa weighted datasets have t
he same value
                    elif(MOD_weight == MYD_weight):
                        if(MOD_snow<=100 and MYD_snow<=100):
                            snow_arr[j][k] = (MOD_snow+MYD_snow)/200.0
                            qa_arr[j][k] = MOD_weight # could also have used M
YD_weight instead

                        elif(MOD_snow>100) and (MYD_snow<=100):
                            snow_arr[j][k] = MYD_snow/100.0
                            qa_arr[j][k] = MYD_weight

                        elif(MYD_snow>100) and (MOD_snow<=100):
                            snow_arr[j][k] = MOD_snow/100.0
                            qa_arr[j][k] = MOD_weight

                else: # take into consideration case when don't have valid pix
el value for that day
                    # for either MODIS sensors (Terra & Aqua)
                    snow_arr[j][k] = 50.0/100.0
                    qa_arr[j][k] = 1e-7
```

```
        # populating 3D array with best daily snow cover value & qa weighted

        snow_array[:, :, i] = snow_arr # storing 2 dimensional data map into 3
 dimensional array

        # first layer in 3rd dimension of 3d array = data for 1st january of s
pecified year
        # 2nd layer in 3rd dimension of 3d array = data for 2nd january of spe
cified year
        # etc. reprat until done all days in a year
        # essentially stacking images on top of 1 another in 3d dimension of a
rray
        weights_array[:, :, i] = qa_arr
        dates.append(today)
        today = today + timedelta(days=1)

    return dates, snow_array, weights_array
```

In [706]:
```
# testing out function
dates_2014, raw_snow_array_2014, weights_array_2014 = process_timeseries(2014,
                                                                         tile = 'h09v05',
                                                                         folder="assessment_
1_data",
                                                                         shpfile="data/Hydro
logical_Units/HUC_Polygons.shp",
                                                                         HUC_code="13010001"
,
                                                                         verbose=True)
dates_2015, raw_snow_array_2015, weights_array_2015 = process_timeseries(2015,
                                                                         tile = 'h09v05',
                                                                         folder="assessment_
1_data",
                                                                         shpfile="data/Hydro
logical_Units/HUC_Polygons.shp",
                                                                         HUC_code="13010001"
,
                                                                         verbose=True)
```

```
Doing 2014-01-01 00:00:00
Doing 2014-01-11 00:00:00
Doing 2014-01-21 00:00:00
Doing 2014-01-31 00:00:00
Doing 2014-02-10 00:00:00
Doing 2014-02-20 00:00:00
Doing 2014-03-02 00:00:00
Doing 2014-03-12 00:00:00
Doing 2014-03-22 00:00:00
Doing 2014-04-01 00:00:00
Doing 2014-04-11 00:00:00
Doing 2014-04-21 00:00:00
Doing 2014-05-01 00:00:00
Doing 2014-05-11 00:00:00
Doing 2014-05-21 00:00:00
Doing 2014-05-31 00:00:00
Doing 2014-06-10 00:00:00
Doing 2014-06-20 00:00:00
Doing 2014-06-30 00:00:00
Doing 2014-07-10 00:00:00
Doing 2014-07-20 00:00:00
Doing 2014-07-30 00:00:00
Doing 2014-08-09 00:00:00
Doing 2014-08-19 00:00:00
Doing 2014-08-29 00:00:00
Doing 2014-09-08 00:00:00
Doing 2014-09-18 00:00:00
Doing 2014-09-28 00:00:00
Doing 2014-10-08 00:00:00
Doing 2014-10-18 00:00:00
Doing 2014-10-28 00:00:00
Doing 2014-11-07 00:00:00
Doing 2014-11-17 00:00:00
Doing 2014-11-27 00:00:00
Doing 2014-12-07 00:00:00
Doing 2014-12-17 00:00:00
Doing 2014-12-27 00:00:00
Doing 2015-01-01 00:00:00
Doing 2015-01-11 00:00:00
Doing 2015-01-21 00:00:00
Doing 2015-01-31 00:00:00
Doing 2015-02-10 00:00:00
Doing 2015-02-20 00:00:00
Doing 2015-03-02 00:00:00
Doing 2015-03-12 00:00:00
Doing 2015-03-22 00:00:00
Doing 2015-04-01 00:00:00
Doing 2015-04-11 00:00:00
Doing 2015-04-21 00:00:00
Doing 2015-05-01 00:00:00
Doing 2015-05-11 00:00:00
Doing 2015-05-21 00:00:00
Doing 2015-05-31 00:00:00
Doing 2015-06-10 00:00:00
Doing 2015-06-20 00:00:00
Doing 2015-06-30 00:00:00
Doing 2015-07-10 00:00:00
```

```
Doing 2015-07-20 00:00:00
Doing 2015-07-30 00:00:00
Doing 2015-08-09 00:00:00
Doing 2015-08-19 00:00:00
Doing 2015-08-29 00:00:00
Doing 2015-09-08 00:00:00
Doing 2015-09-18 00:00:00
Doing 2015-09-28 00:00:00
Doing 2015-10-08 00:00:00
Doing 2015-10-18 00:00:00
Doing 2015-10-28 00:00:00
Doing 2015-11-07 00:00:00
Doing 2015-11-17 00:00:00
Doing 2015-11-27 00:00:00
Doing 2015-12-07 00:00:00
Doing 2015-12-17 00:00:00
Doing 2015-12-27 00:00:00
```

OK, now we have produced 3D numpy arrays storing time series information for daily snow cover & qa_control data for the year 2014 and 2015. Lets produced an interpolated version of the time series data before proceeding to produce 13 equally spaced in time image plots of the HUC catchment 13010001 site. This would allow us to visualize the difference between the raw daily snow cover data and the interpolateddaily snow cover data. Calculating the interpolated snow cover data would also allow us to generate a mean daily snow cover dataset for the HUC catchment 13010001 site for the year 2014 and 2015.

In [707]:
```
# Step 3: Producing an interpolated version of the daily snow cover data

# create a function which uses a gaussian filter to filter over the raw daily
 snow cover and qa weighted
def interpolation_of_snow_data(snow_array, qa_weight_array):
    '''
    Function for interpolating over raw daily snow cover and qa weighted data
 generated from the process_timeseries
    function.

    This function is packages the code written in section 3.4.4.1 Smoothing in

    Chapter3_4_GDAL_stacking_and_interpolating, written by Professor Lewis and
 Dr. Jose Gonzalez, into a function.

    The only modifications made to the code were changing the input and output
 variable names to suit the dataset
    working with.

    Parameters
    ----------
    snow_array: a numpy array
        A 3D numpy array containing timeseries data of raw daily snow cover da
ta for the HUC catchment 13010001
        site for the year 2014 or 2015

    qa_weight_array: a numpy array
        A 3D numpy array containing timeseries data of qa_weight data for the
 snow cover data for the
        HUC catchment 13010001 site for the year 2014 or 2015

    Returns
    -------
    A 3D numpy array, containing weighted interpolation of daily snow cover da
ta for the year 2014 or 2015.
    '''
    # setting up a gaussina filter
    sigma = 8

    # generating a gaussian filter
    x = np.arange(-3*sigma,3*sigma+1)
    gaussian = np.exp((-(x/sigma)**2)/2.0)

    # generate weighted interpolation of daily snow cover data
    # need to multiply snow_array by the qa_weigh_array, then apply the gaussi
an filter
    # scipy.ndimage used for processing multi-dimensional images
    # axis = allows application of filter per image (in 3rd dimension)
    # when reach the end of the image, will go back to starting position of th
e image (implied by mode='wrap')
    numerator = scipy.ndimage.filters.convolve1d(snow_array * qa_weight_array,
 gaussian, axis=2,mode='wrap')
    denominator = scipy.ndimage.filters.convolve1d(qa_weight_array, gaussian,
axis=2,mode='wrap')

    # to avoid problem of dividing by zero, setting all zero values of the den
```

```
ominator to not a number (NaN)
    denominator[denominator==0] = np.nan

    interpolated_daily_snow_cover = numerator/denominator

    return interpolated_daily_snow_cover
```

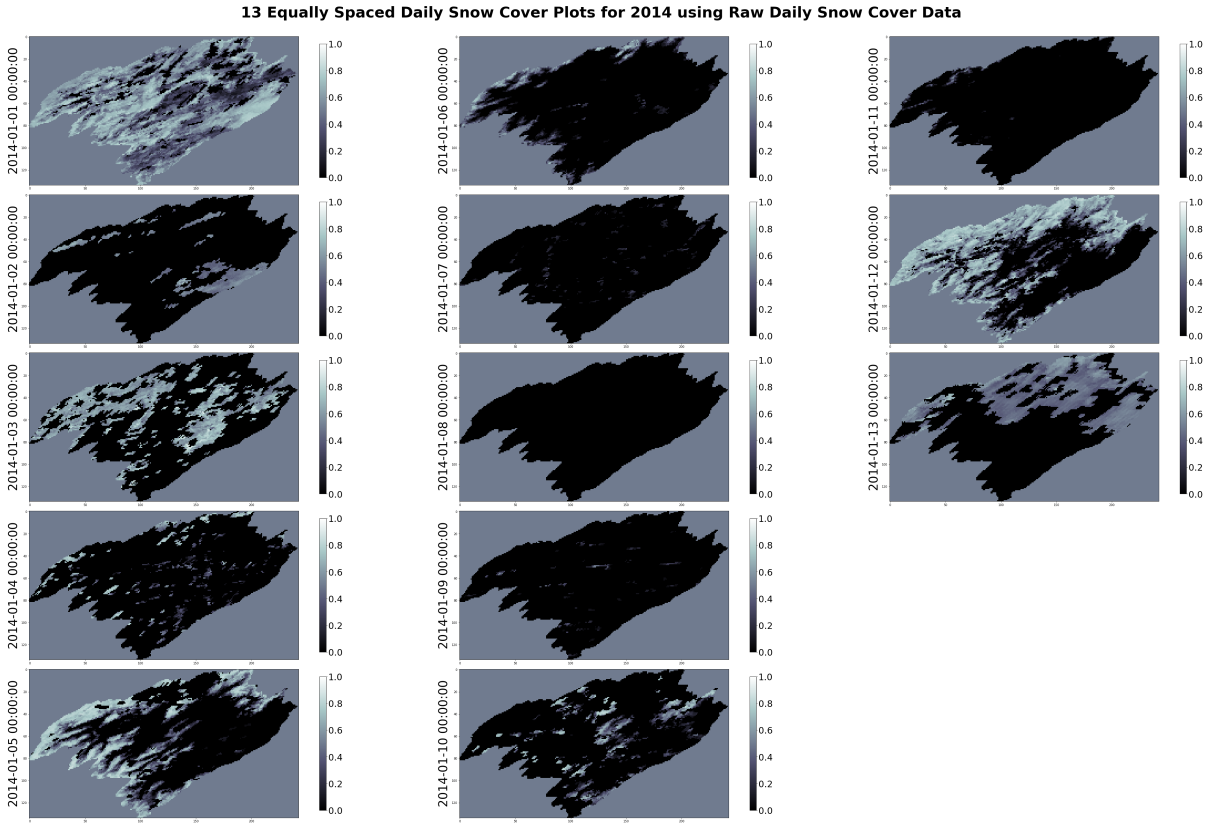
In [708]:
```
# testing out the function
snow_2014_interpolated = interpolation_of_snow_data(raw_snow_array_2014, weigh
ts_array_2014)
snow_2015_interpolated = interpolation_of_snow_data(raw_snow_array_2015, weigh
ts_array_2015)
```

OK, we've generated an weighted interpolated version of the daily snow cover data. Let's use this information & previously generated raw daily snow cover data for the year 2014 and 2015 to produce 13 equally spaced image plots of snow cover for the HUC catchment 13010001 site.

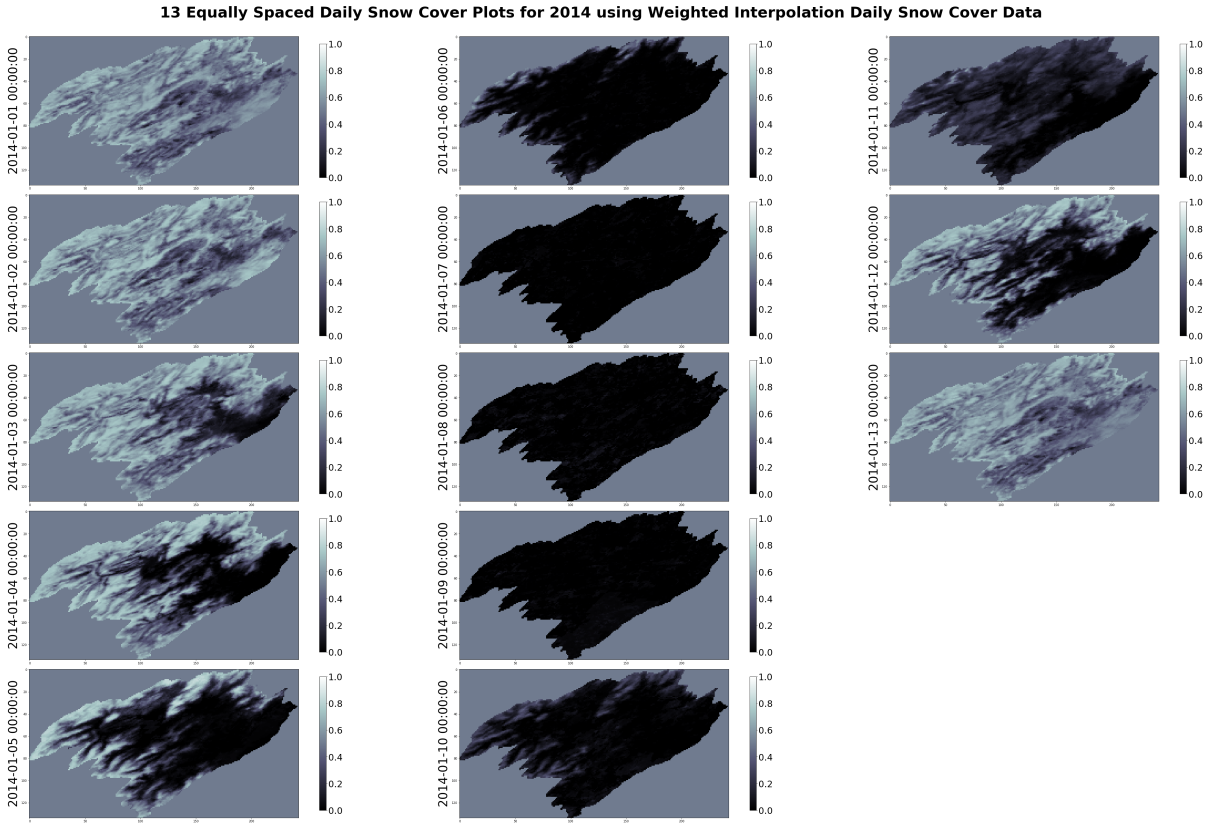
In [709]:
```
# Step 4: Produce 13 Equally Spaced Time Series Plots of Daily Snow Cover for
 the dataset, for the year 2014 and 2015
# both forms of the daily snow cover data (raw and weighted interpolation) wil
l be used here

# writing a function to do this task
def thirteen_image_plots(snow_array, dates, year, raw_data=True):
    '''
    Function for plotting 13 subplots of equally time-spaced snapshots of dail
y snow cover at the HUC catchment 13010001 site.

    The function adopts the code written by Professor Lewis and Dr. Jose Gonza
les in Exercise 3.4.6,
    Chapter3_4_GDAL_stacking_and_interpolating.

    Modifications in the form of input variable passed to put the image plots
 were made to allow for plots of daily snow cover
    to be produced. In addition, the number of plots and when doy used to prod
uce the plots were also modified, to ensure
    13 equally time-spaced plots could be produced.

    Note the absence of a mask in this function when plotting as the previous
 function process_timeseries has removed invalid
    snow cover values, replacing it with valid values from the Terra or Aqua d
ataset, or setting it to a default value of 50.0
    , with an extremely low weighting of 0.01.

    Parameters
    ----------
    snow_array: a numpy array
        A 3D numpy array containing time series data on daily snow cover (eith
er raw or weighter interpolated) to be
        used to produce the image plots

    dates: a list of datetime objects
        Specifies the date in datetime format for when the daily snow cover da
ta was captured

    year: a string
        Specifies the year for the daily snow fall wish to plot

    raw_data: a boolean value
        Specifies if the snow_array loaded into the function is a raw form of
 the daily snow cover(hence requires a mask
        to prevent visualization of invalid values) or a weighted interpolatio
n form of the daily snow cover (doesn't
        require a mask)

    Returns
    -------
    An image containing 13 subplots of equally-spaced in time plots of the dai
ly snow cover at the HUC catchment 13010001 site
    '''
    # set title for plot
    if raw_data:
        data_type = 'Raw Daily Snow Cover Data'
```

```
    else:
        # set title for plot
        data_type = 'Weighted Interpolation Daily Snow Cover Data'

    # set up size of figure and number of subplots to produce
    fig, axs = plt.subplots(nrows=5, ncols=3, figsize=(60, 40))

    # force axs to collapse to a 2D array
    axs = np.array(axs).T.flatten()

    # adjust the format of the figure layout
    plt.tight_layout(rect=[0, 0.03, 1, 0.95])

    for i, tstep in enumerate(np.linspace(0,363,13)):
        # plotting specific dates
        img = axs[i].imshow(snow_array[:, :, int(tstep)],
                        interpolation="nearest", vmin=0.0, vmax=1.0,
                  cmap=plt.cm.bone)

        # plotting a colorbar
        col_bar = plt.colorbar(img,ax=axs[i],shrink=0.9)
        # setting up the fontsize of the ylabels in the color bar plot so can
 see them
        col_bar.ax.set_yticklabels(col_bar.ax.get_yticklabels(), fontsize=30)
        axs[i].set_ylabel(dates[i], fontsize=40)

    # remove the empty subplot
    fig.delaxes(axs.flatten()[13])
    fig.delaxes(axs.flatten()[14])

    # add a commmon plot title
    fig.suptitle(f'13 Equally Spaced Daily Snow Cover Plots for {year} using
{data_type}', fontsize=50, fontweight='bold')
```

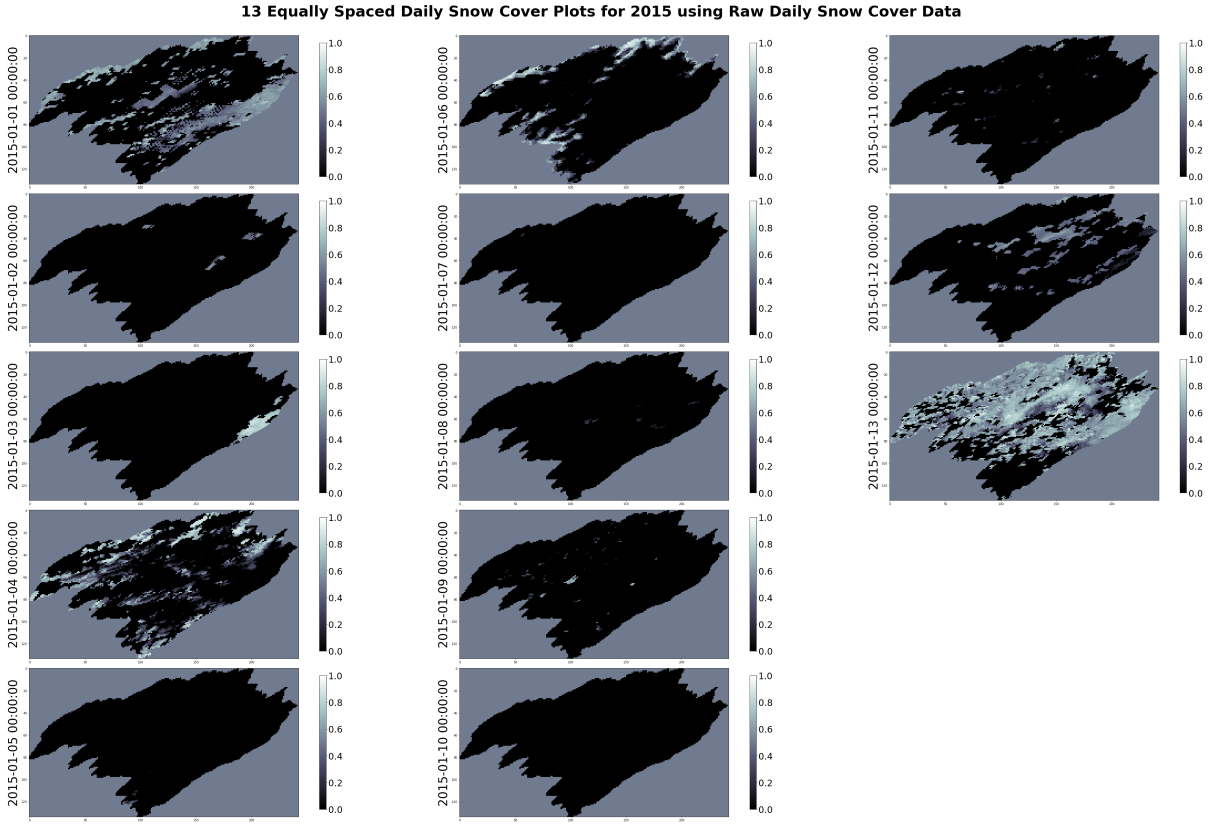
In [710]:
```
# testing out the function
# producing raw daily snow cover plot for 2014
thirteen_image_plots(raw_snow_array_2014, dates_2014, '2014', raw_data=True)
```



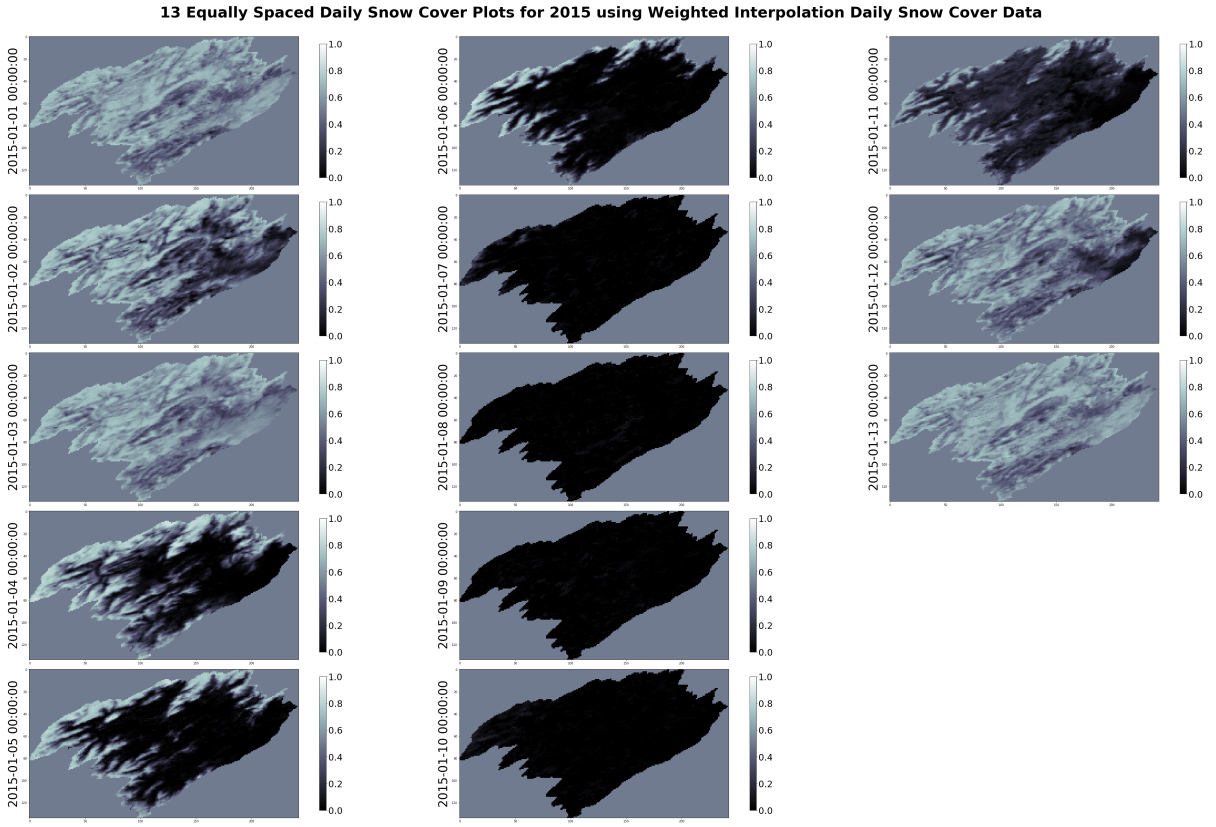
In [711]:
```
# producing weighted interpolation daily snow cover plot for 2014
thirteen_image_plots(snow_2014_interpolated, dates_2014, '2014', raw_data=False)
```



In [712]:
```
# producing raw daily snow cover plot for 2015
thirteen_image_plots(raw_snow_array_2015, dates_2015, '2015', raw_data=True)
```



In [713]:
```
# producing weighted interpolation daily snow cover plot for 2015
thirteen_image_plots(snow_2015_interpolated, dates_2015, '2015', raw_data=False)
```



Having accomplished the image plots, lets move on to calculating the mean daily snow cover for both years. The interpolation method introduced above isn't perfect, as it crudely substitutes a default value of 50.0% snow cover value with a weighting of 0.01 to pixels that do not have a valid value. Ideally, it would be bext to try and use a pixel measurement from a previous day or the next day, with also a low weighting value (maybe 0.1 instead?). This approach will be attempted time-permitting.

For now, lets calculate the mean daily snow cover for each doy in a year for both 2014 and 2015. From this, we can calculate some summary statistics and produce a simple line plot of the data.

Out of the interest of observing how well the interpolation approach used above fairs compared to just using the raw data alone, line plots of both the raw and interpolated data will be produced for the year 2014 and 2015.

In [714]:
```
# step 5: calculating the mean snow cover value for the HUC catchment 13010001
 site for each doy in a year

# lets write a function to do this
def mean_snow_cover_calculation(snow_array):
    '''
    Function calculates the mean snow cover value for HUC catchment 13010001 s
ite as a whole for each doy in a year.

    The function can be applied onto both the raw data and the interpolated da
ta.

    Parameters
    ----------
    snow_array: a numpy array
        A 3D numpy array containing the time series data of either the interpo
lated snow cover values or the raw snow cover
        values

    Returns
    -------
    A 1 dimensional numpy array, containing the mean snow cover value for the
 HUC catchment 13010001 site for each doy in a year
    '''
    # create an empty array to store the mean values
    mean_snows = np.zeros((365)) # to contain 365 values (using non-leap year)

    # looping over the snow cover array to calculate the mean snow cover value
 for the site for each doy
    for i in range(365):
        mean_snow_cover = snow_array[:,:,i].mean()
        # updating the empty array with the calculated value
        mean_snows[i] = mean_snow_cover

    return mean_snows
```

In [715]:
```
# applying function to calculate the mean snow cover value for the site for ea
ch doy in 2014 and 2015
# 2014
mean_raw_2014 = mean_snow_cover_calculation(raw_snow_array_2014) # using the r
aw data
mean_interpolated_2014 = mean_snow_cover_calculation(snow_2014_interpolated) #
 using interpolated data

# 2015
mean_raw_2015 = mean_snow_cover_calculation(raw_snow_array_2015) # using the r
aw data
mean_interpolated_2015 = mean_snow_cover_calculation(snow_2015_interpolated) #
 using interpolated data
```

Lets create a npz file to save the snow cover data

In [716]:
```
# write a function save the snow cover data
def create_snow_npz(snow_array, year, raw=True):
    '''
    Function to save mean snow cover data in a npz file

    Parameters:
    -----------
    snow_array: a numpy array
        A 1-dimensional numpy array with the mean snow cover for every doy in
 a non-leap year for the
        HUC catchment 13010001 site

    year: an integer
        Year of mean snow cover dataset. Used to set filename

    raw: a boolean value
        A boolean value to indicate data type being used. If True, then using
 raw data.
        If False, then using interpolated data. Value only affects filename fo
r saving purposes.
        Preset to False.

    Returns
    -------
    Nothing. A npz file is create with the data loaded
    '''
    # create keys for dictionary for npz file
    keys = ['doy', 'mean_snow_cover']

    # create entries for the dictionary
    # doy values for doy key
    doy_data = range(1,366)
    snow_data = snow_array

    # putting the values into a list to be zipped with their keys
    dict_data = [doy_data, snow_data]
    snow_file = dict(zip(keys, dict_data))

    # creating the filename based on data type used (raw or interpolated)
    if raw:
        filename = f'raw_mean_snow_cover_{year}.npz'
    else:
        filename = f'interpolated_mean_snow_cover_{year}.npz'

    # save the dataset
    np.savez_compressed(filename,**snow_file)
```

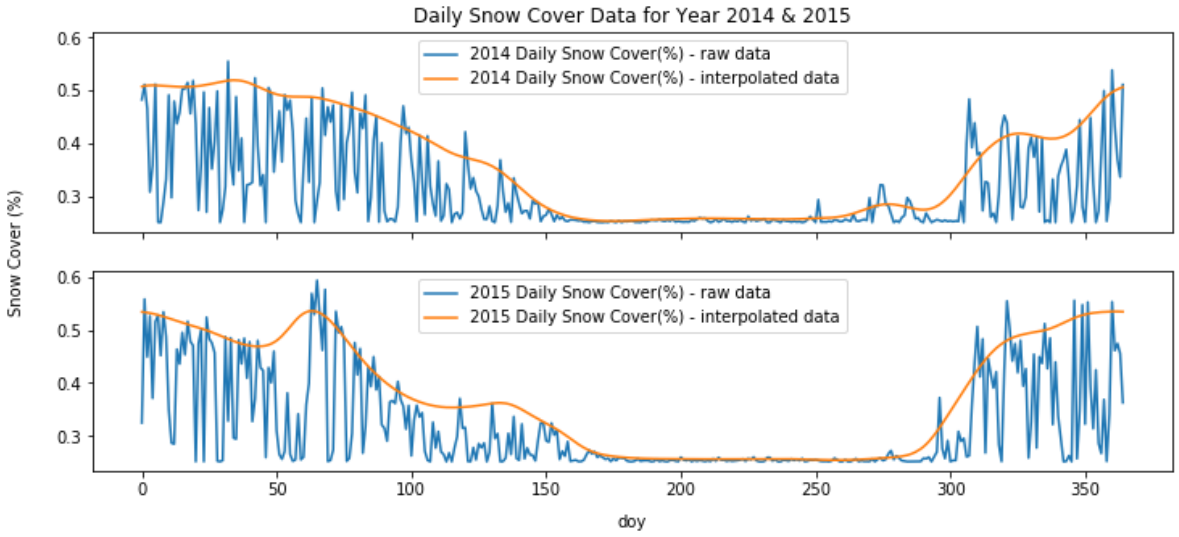
In [717]:
```
# saving a npz file for the raw and interpolated data for both years
create_snow_npz(mean_raw_2014, 2014)
create_snow_npz(mean_raw_2015, 2015)
create_snow_npz(mean_interpolated_2014, 2014, raw=False)
create_snow_npz(mean_interpolated_2015, 2015, raw=False)
```

Lets now produce some line plots showcasing the snow cover data. The raw and interpolated data will be used for both year to see how different they are.

In [718]:
```
# Step 6: Producing line plots for the mean snow cover data
# create a graphical representation of mean daily snow cover for 2014 and 2015
fig, axs = plt.subplots(2,1, sharey=True, sharex =True,\
                        figsize=(12,5))

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # code derived from Chapter3_3GDAL_masking pre
pared by Professor Lewis

# plotting mean daily snow cover data for year 2014
axs[0].plot(mean_raw_2014, label='2014 Daily Snow Cover(%) - raw data')
axs[0].plot(mean_interpolated_2014, label='2014 Daily Snow Cover(%) - interpol
ated data')
axs[0].legend(loc='best')

# plotting mean daily snow cover data for year 2015
axs[1].plot(mean_raw_2015, label='2015 Daily Snow Cover(%) - raw data')
axs[1].plot(mean_interpolated_2015, label='2015 Daily Snow Cover(%) - interpol
ated data')
axs[1].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Daily Snow Cover Data for Year 2014 & 2015')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel('Snow Cover (%)', labelpad=20)
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```

Out[718]: Text(0,0.5,'Snow Cover (%)')



As seen from the plots, a lot of the variation seen in the raw data has been iron out using the interpolated data.

Lets now produce some summary statistics, but only for the interpolated data.

In [719]:
```
# Step 6: Produce a summary table of statistics for daily mean snow cover

# first need to extract information stored in npz files to get data in the for
m of a numpy array
# where 1st dimension stores information on doy & dimension stores information
 on daily mean temperature
snow_filename_01 = 'interpolated_mean_snow_cover_2014.npz'
snow_filename_02= 'interpolated_mean_snow_cover_2015.npz'
snow_data_arr_01 = extract_data(snow_filename_01, 'doy', 'mean_snow_cover')
snow_data_arr_02 = extract_data(snow_filename_02, 'doy', 'mean_snow_cover')

# using the function created in step 5 of section 1.1 to derive summary statis
tics
# for daily mean temperature for the year 2014 & 2015
df_snow = summary_statistics(snow_data_arr_01, snow_data_arr_02, 'Daily Mean S
now Cover (%)')

# visualizing the dataframe
df_snow
```

Out[719]:

	Year	Mimumum Daily Mean Snow Cover (%)	Doy of Minimum Daily Mean Snow Cover (%)	Maximum Daily Mean Snow Cover (%)	Doy of Maximum Daily Mean Snow Cover (%)	Sum of Daily Mean Snow Cover (%)	Standard Deviation of Daily Mean Snow Cover (%)
0	2014	0.254419	176.0	0.519665	35.0	133.641259	0.10
1	2015	0.254743	259.0	0.535507	64.0	137.326324	0.11

Finally, let's save all the data (temperature, flow discharge and snow cover) in a single npz file. Following this, let's produce a plot of all the 3 data together as 3 line plots on a single plot (1 for each year)

In [720]:
```
# saving all the data into a single noz file

# making a dictionary in a dictionary apporach
# dictionary will have 2 layers, first layers refers to which year want to loo
k at data for
# second layer, refers to the data stored in each year (temperature, stream fl
ow, snow cover)

# generate the keys for the first layer of the dictionary
year_keys = ['2014', '2015']

# generate the keys for the second layer of the dictionary
data_keys = ['doy', 'temperature', 'river_discharge', 'snow_cover']
data_2014 = [range(1,366), temp_01['meanT'], flw_data_arr_01[:,1], mean_interp
olated_2014]
data_2015 = [range(1,366), temp_02['meanT'], flw_data_arr_02[:,1], mean_interp
olated_2015]

# pairing the keys and values up, creating the second layer for the dictionary
dict_2014 = dict(zip(data_keys, data_2014))
dict_2015 = dict(zip(data_keys, data_2015))
second_layer = [dict_2014, dict_2015]

# creating the top layer of the dictionary
first_layer = dict(zip(year_keys, second_layer))

# create the output file
np.savez_compressed('dataset_scientific_computing_practical_part.npz',**first_
layer)
```

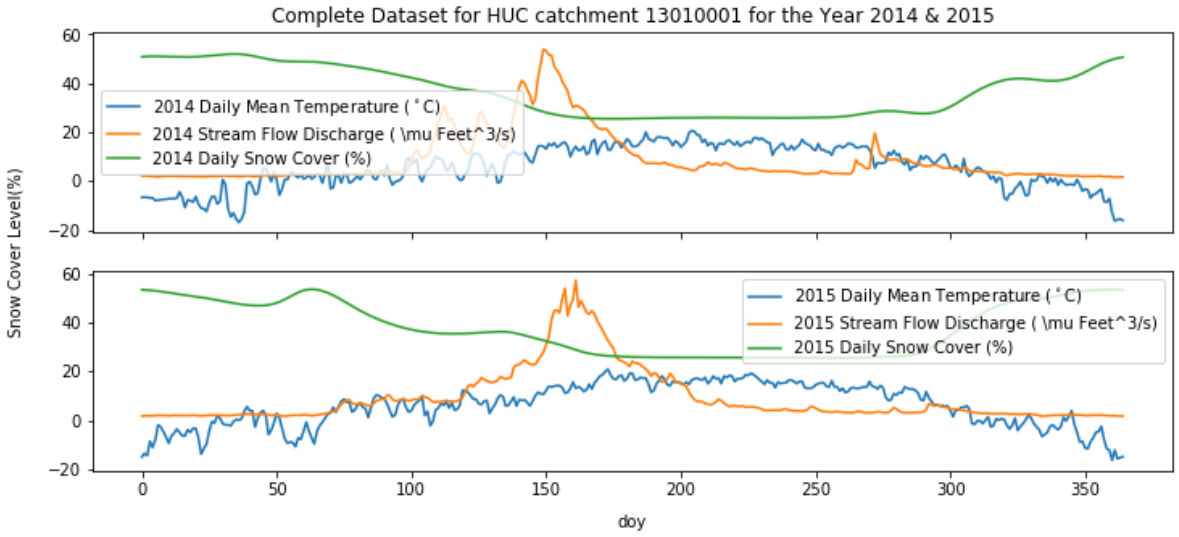
Let's load up the file and check that the data is correct. We'll be using the data inside the files to create the final graph plots for this practical

In [721]:
```
# load the data
file = np.load('dataset_scientific_computing_practical_part.npz')

# extract the data for 2014 and 2015 respectively
data_2014 = file['2014'].tolist() # use of .tolist() to extract the data insid
e
data_2015 = file['2015'].tolist() # converting from a numpy array to a list, s
o can access keys and data inside

# extract the temperature data
temp_2014 = data_2014['temperature']
temp_2015 = data_2015['temperature']

# extract the river discharge data
discharge_2014 = data_2014['river_discharge']
discharge_2015 = data_2015['river_discharge']

# extract the mean snow cover data
snow_2014 = data_2014['snow_cover']
snow_2015 = data_2015['snow_cover']
```

In [723]:
```
# producing some line graphs to summarize this information
fig, axs = plt.subplots(2,1, sharey=True, sharex =True,\
                        figsize=(12,5))

# force axs to collapse to a 2D array
axs = np.array(axs).T.flatten() # code derived from Chapter3_3GDAL_masking pre
pared by Professor Lewis

# plotting all the data for year 2014
axs[0].plot(temp_2014, label='2014 Daily Mean Temperature ($^\circ$C)')
axs[0].plot(discharge_2014/100.0, label='2014 Stream Flow Discharge ( \mu Feet
^3/s)')
axs[0].plot(snow_2014*100.0, label='2014 Daily Snow Cover (%)')
axs[0].legend(loc='best')

# plotting all the data for year 2014
axs[1].plot(temp_2015, label='2015 Daily Mean Temperature ($^\circ$C)')
axs[1].plot(discharge_2015/100.0, label='2015 Stream Flow Discharge ( \mu Feet
^3/s)')
axs[1].plot(snow_2015*100.0, label='2015 Daily Snow Cover (%)')
axs[1].legend(loc='best')

# adding general x and y axis labels & plot title, code modified from  submiss
ion by SparkAndShine
# on stackoverflow posting (https://stackoverflow.com/questions/42372509/how-t
o-add-a-shared-x-label-and-y-label-to-a-plot-created-with-pandas-plot)
ax = fig.add_subplot(111, frameon=False)
# hide tick and tick label of the big axes
plt.tick_params(labelcolor='none', top='off', bottom='off', left='off', right=
'off')
ax.set_title('Complete Dataset for HUC catchment 13010001 for the Year 2014 &
 2015')
ax.set_xlabel('doy', labelpad=10) # Use argument `labelpad` to move label down
wards.
ax.set_ylabel('Snow Cover Level(%)', labelpad=20)
```

```
/opt/anaconda/envs/jupyterhub/lib/python3.6/site-packages/matplotlib/cbook/de
precation.py:107: MatplotlibDeprecationWarning: Passing one of 'on', 'true',
'off', 'false' as a boolean is deprecated; use an actual boolean (True/False)
instead.
  warnings.warn(message, mplDeprecation, stacklevel=1)
```

Out[723]: Text(0,0.5,'Snow Cover Level(%)')



Final Comments

The sequences of code above has achieve the task of aquiring the data for temperature, river discharge, and mean snow cover (between 0 to 1) for every day of the year, for the year 2014 and 2015. Line plots and summary statistics tables have been produced for this exercise. The main issue with the produced dataset is the daily snow cover data, which should show a greater deal of variation, and possibly should be much lower. This the higher and smoother line seen for the daily snow cover is due to the approach taken of assigning a set value of 0.5 for the daily snow cover value instead of having the value be NaN. Despite the very low weighting assigned to pixels that have been filled in this way, the approach still clearly has had an effect onto the mean snow cover dataset.

Perhaps a better approach to overcome this is to look at the pixel's value at time points close to it (either 1 day forward or backwards) to fill in the value. Another solution that can serve as a stand alone, or as an add on to the above mentioned approach is to assign the pixel value the mean value of all the viable (non-NaN) values for that doy.