```
In [1]: import os
        import pandas as pd
        import scipy
        import numpy as np
        from datetime import datetime
        import pytz
```

```
In [2]: os.getcwd()
        os.chdir("/srv/scratch/NOAA/GOES_Hourly_Statistics/stats_result/")
        os.getcwd()
```

Out[2]: '/srv/scratch/NOAA/GOES_Hourly_Statistics/stats_result'

```
In [3]: bc = pd.read_csv('04_binned_lat_lon_opencv_12f13s_lake_0.csv')
        bc
```

Out[3]:

	Date	Time	Mean	Centroid_lon	Centroid_lat	Std_lon	Std_lat	Skewness
0	20121001	'0000	0.002072	-86.752929	43.923511	0.639071	1.237059	0.60
1	20121001	'0100	0.002062	-86.728658	43.974460	0.649581	1.229103	0.53
2	20121001	'0200	0.001969	-86.699729	43.960722	0.648726	1.232952	0.6
3	20121001	'0300	0.002174	-86.705638	43.999584	0.650913	1.224924	0.64
4	20121001	'0400	0.001981	-86.739749	43.931393	0.642790	1.237874	0.56
...	...	...	...	...	...	...	...	
4363	20130331	'1900	0.648055	-86.687703	44.158626	0.683053	1.114840	0.60
4364	20130331	'2000	0.652018	-86.728355	44.033899	0.663874	1.183935	0.63
4365	20130331	'2100	0.651398	-86.736160	43.869670	0.648019	1.247759	0.63
4366	20130331	'2200	0.536269	-86.736688	43.877154	0.649552	1.236114	0.61
4367	20130331	'2300	0.320154	-86.777215	43.870197	0.647365	1.212050	0.70

4368 rows × 16 columns

```
In [4]: h_list = []
        m_list = []
        for t in bc['Time']:
            h_list.append(int(t[1:3]))
            m_list.append(int(t[-2:]))
        bc['Hour'] = h_list
        bc['Min'] = m_list
        bc
```

Out[4]:

	Date	Time	Mean	Centroid_lon	Centroid_lat	Std_lon	Std_lat	Skewness
0	20121001	'0000	0.002072	-86.752929	43.923511	0.639071	1.237059	0.60
1	20121001	'0100	0.002062	-86.728658	43.974460	0.649581	1.229103	0.53
2	20121001	'0200	0.001969	-86.699729	43.960722	0.648726	1.232952	0.6
3	20121001	'0300	0.002174	-86.705638	43.999584	0.650913	1.224924	0.64
4	20121001	'0400	0.001981	-86.739749	43.931393	0.642790	1.237874	0.56
...	...	...	...	...	...	...	...	
4363	20130331	'1900	0.648055	-86.687703	44.158626	0.683053	1.114840	0.60
4364	20130331	'2000	0.652018	-86.728355	44.033899	0.663874	1.183935	0.63
4365	20130331	'2100	0.651398	-86.736160	43.869670	0.648019	1.247759	0.63
4366	20130331	'2200	0.536269	-86.736688	43.877154	0.649552	1.236114	0.61
4367	20130331	'2300	0.320154	-86.777215	43.870197	0.647365	1.212050	0.70

4368 rows × 18 columns

In [5]:
```python
y_list = []
mon_list = []
day_list = []
for d in bc['Date']:
    d = str(d)
    y_list.append(int(d[:4]))
    mon_list.append(int(d[4:6]))
    day_list.append(int(d[6:]))
bc['Year'] = y_list
bc['Month'] = mon_list
bc['Day'] = day_list
bc
```

	Date	Time	Mean	Centroid_lon	Centroid_lat	Std_lon	Std_lat	Skewness
0	20121001	'0000	0.002072	-86.752929	43.923511	0.639071	1.237059	0.60
1	20121001	'0100	0.002062	-86.728658	43.974460	0.649581	1.229103	0.53
2	20121001	'0200	0.001969	-86.699729	43.960722	0.648726	1.232952	0.6
3	20121001	'0300	0.002174	-86.705638	43.999584	0.650913	1.224924	0.64
4	20121001	'0400	0.001981	-86.739749	43.931393	0.642790	1.237874	0.56
...	...	...	...	...	...	...	...	
4363	20130331	'1900	0.648055	-86.687703	44.158626	0.683053	1.114840	0.60
4364	20130331	'2000	0.652018	-86.728355	44.033899	0.663874	1.183935	0.63
4365	20130331	'2100	0.651398	-86.736160	43.869670	0.648019	1.247759	0.63
4366	20130331	'2200	0.536269	-86.736688	43.877154	0.649552	1.236114	0.61
4367	20130331	'2300	0.320154	-86.777215	43.870197	0.647365	1.212050	0.70

4368 rows × 21 columns

In [6]:
```python
print(int(bc.iloc[1, 1][1:]))
```

100

In [15]:
```python
nd_list = []
nt_list = []
for i in range(len(bc)):
    print(bc.iloc[i, 18], bc.iloc[i, 19], bc.iloc[i, 20], bc.iloc[i, 16], bc
    my_datetime = datetime(bc.iloc[i, 18], bc.iloc[i, 19], bc.iloc[i, 20], b
    #my_datetime_utc = my_datetime.strftime('%Y-%m-%d %H:%M:%S %Z%z')
    #print(my_datetime_utc)
    my_datetime_cst = my_datetime.astimezone(pytz.timezone('Etc/GMT+6')).str
#     print(my_datetime_cst)
#     print(my_datetime_cst[:8])
#     print(my_datetime_cst[-4:])
    #print(type(my_datetime_cst))
    nd_list.append(my_datetime_cst[:8])
    nt_list.append(my_datetime_cst[-4:])
```

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2013 3 25 19 0
2013 3 25 20 0
2013 3 25 21 0
2013 3 25 22 0
2013 3 25 23 0
2013 3 26 0 0
2013 3 26 1 0
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2013 3 26 22 0
2013 3 26 23 0
2013 3 27 0 0
2013 3 27 1 0
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2013 3 29 16 0
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2013 3 29 18 0
2013 3 29 19 0
2013 3 29 20 0
2013 3 29 21 0
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2013 3 29 23 0
2013 3 30 0 0
2013 3 30 1 0
2013 3 30 2 0
2013 3 30 3 0
2013 3 30 4 0
2013 3 30 5 0
2013 3 30 6 0
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2013 3 30 8 0
2013 3 30 9 0
2013 3 30 10 0
2013 3 30 11 0
2013 3 30 12 0
2013 3 30 13 0
2013 3 30 14 0
2013 3 30 15 0
2013 3 30 16 0
2013 3 30 17 0
2013 3 30 18 0
2013 3 30 19 0
2013 3 30 20 0
2013 3 30 21 0
2013 3 30 22 0
2013 3 30 23 0
2013 3 31 0 0
2013 3 31 1 0
2013 3 31 2 0
2013 3 31 3 0
2013 3 31 4 0
2013 3 31 5 0
2013 3 31 6 0
2013 3 31 7 0
2013 3 31 8 0
2013 3 31 9 0
2013 3 31 10 0
2013 3 31 11 0
2013 3 31 12 0
2013 3 31 13 0
2013 3 31 14 0
2013 3 31 15 0
2013 3 31 16 0
2013 3 31 17 0
2013 3 31 18 0
2013 3 31 19 0
2013 3 31 20 0
2013 3 31 21 0
2013 3 31 22 0
2013 3 31 23 0
```

```
In [8]: bc['CST_Date'] = nd_list
        bc['CST_Time'] = nt_list
```

```
In [9]: bc
```

Out[9]:

	Date	Time	Mean	Centroid_lon	Centroid_lat	Std_lon	Std_lat	Skewness
0	20121001	'0000	0.002072	-86.752929	43.923511	0.639071	1.237059	0.60
1	20121001	'0100	0.002062	-86.728658	43.974460	0.649581	1.229103	0.53
2	20121001	'0200	0.001969	-86.699729	43.960722	0.648726	1.232952	0.6
3	20121001	'0300	0.002174	-86.705638	43.999584	0.650913	1.224924	0.64
4	20121001	'0400	0.001981	-86.739749	43.931393	0.642790	1.237874	0.56
...	...	...	...	...	...	...	...	
4363	20130331	'1900	0.648055	-86.687703	44.158626	0.683053	1.114840	0.60
4364	20130331	'2000	0.652018	-86.728355	44.033899	0.663874	1.183935	0.63
4365	20130331	'2100	0.651398	-86.736160	43.869670	0.648019	1.247759	0.63
4366	20130331	'2200	0.536269	-86.736688	43.877154	0.649552	1.236114	0.61
4367	20130331	'2300	0.320154	-86.777215	43.870197	0.647365	1.212050	0.70

4368 rows × 23 columns

```
In [10]: bc['CST_Date'] = bc['CST_Date'].astype(int)
```

```
In [11]: bc.dtypes
```

```
Out[11]:  Date                   int64
          Time                  object
          Mean                 float64
          Centroid_lon         float64
          Centroid_lat         float64
          Std_lon              float64
          Std_lat              float64
          Skewness_lon         float64
          Skewness_lat         float64
          Kurtosis_lon         float64
          Kurtosis_lat         float64
          Cloud_Cover_Count    float64
          Total_Lake_Pixel     float64
          Percent_Cloud_Cover  float64
          Sample Number          int64
          Selected              object
          Hour                   int64
          Min                    int64
          Year                   int64
          Month                  int64
          Day                    int64
          CST_Date               int64
          CST_Time              object
          dtype: object
```

In [12]:
```python
bc.columns
```

Out[12]:
```
Index(['Date', 'Time', 'Mean', 'Centroid_lon', 'Centroid_lat', 'Std_lon',
       'Std_lat', 'Skewness_lon', 'Skewness_lat', 'Kurtosis_lon',
       'Kurtosis_lat', 'Cloud_Cover_Count', 'Total_Lake_Pixel',
       'Percent_Cloud_Cover', 'Sample Number', 'Selected', 'Hour', 'Min',
       'Year', 'Month', 'Day', 'CST_Date', 'CST_Time'],
      dtype='object')
```

In [13]:
```python
binned = pd.DataFrame(data = bc[['CST_Date','Date','CST_Time','Time', 'Mean'
        'Std_lat', 'Skewness_lon', 'Skewness_lat', 'Kurtosis_lon',
        'Kurtosis_lat', 'Cloud_Cover_Count', 'Total_Lake_Pixel', 'Percent_Clo
binned.to_csv('05_cst_binned_lat_lon_opencv_12f13s_lake_0.csv',index = False
```

In [14]:
```python
binned.head(20)
```

	CST_Date	Date	CST_Time	Time	Mean	Centroid_lon	Centroid_lat	Std_lon
0	20120930	20121001	1800	'0000	0.002072	-86.752929	43.923511	0.639071
1	20120930	20121001	1900	'0100	0.002062	-86.728658	43.974460	0.649581
2	20120930	20121001	2000	'0200	0.001969	-86.699729	43.960722	0.648726
3	20120930	20121001	2100	'0300	0.002174	-86.705638	43.999584	0.650913
4	20120930	20121001	2200	'0400	0.001981	-86.739749	43.931393	0.642790
5	20120930	20121001	2300	'0500	0.001995	-86.741598	43.912148	0.634964
6	20121001	20121001	0000	'0600	0.001884	-86.729698	43.914525	0.629728
7	20121001	20121001	0100	'0700	0.002057	-86.746007	43.911337	0.616982
8	20121001	20121001	0200	'0800	0.005349	-86.722623	43.935386	0.647530
9	20121001	20121001	0300	'0900	0.002011	-86.713386	43.997175	0.677146
10	20121001	20121001	0400	'1000	0.008033	-86.767443	43.782982	0.628149
11	20121001	20121001	0500	'1100	0.002336	-86.750091	43.867968	0.641718
12	20121001	20121001	0600	'1200	0.093741	-86.665788	43.957646	0.656218
13	20121001	20121001	0700	'1300	0.233224	-86.701315	43.635068	0.654155
14	20121001	20121001	0800	'1400	0.213931	-86.841971	43.221093	0.564466
15	20121001	20121001	0900	'1500	0.230073	-86.846569	43.153066	0.547286
16	20121001	20121001	1000	'1600	0.236649	-86.855148	43.160257	0.546929
17	20121001	20121001	1100	'1700	0.253988	-86.797922	43.321599	0.554657
18	20121001	20121001	1200	'1800	0.285595	-86.651881	43.641236	0.576144
19	20121001	20121001	1300	'1900	0.247918	-86.586281	44.015611	0.601199

In [ ]: