In [5]:
```
import requests
import folium
from datetime import datetime
import time
```

In [10]:
```
lat=0
long=0
def getdata():
    api_link = "http://api.open-notify.org/iss-now.json"
    max_retries = 3
    retries = 0

    while retries < max_retries:
        response = requests.get(api_link)
        response.raise_for_status()
        data = response.json()
        time_stamp = data['timestamp']
        longitude = float(data['iss_position']['longitude'])
        latitude = float(data['iss_position']['latitude'])
        retries=retries+1
    lat=latitude
    long=longitude
    return time_stamp, longitude, latitude
```

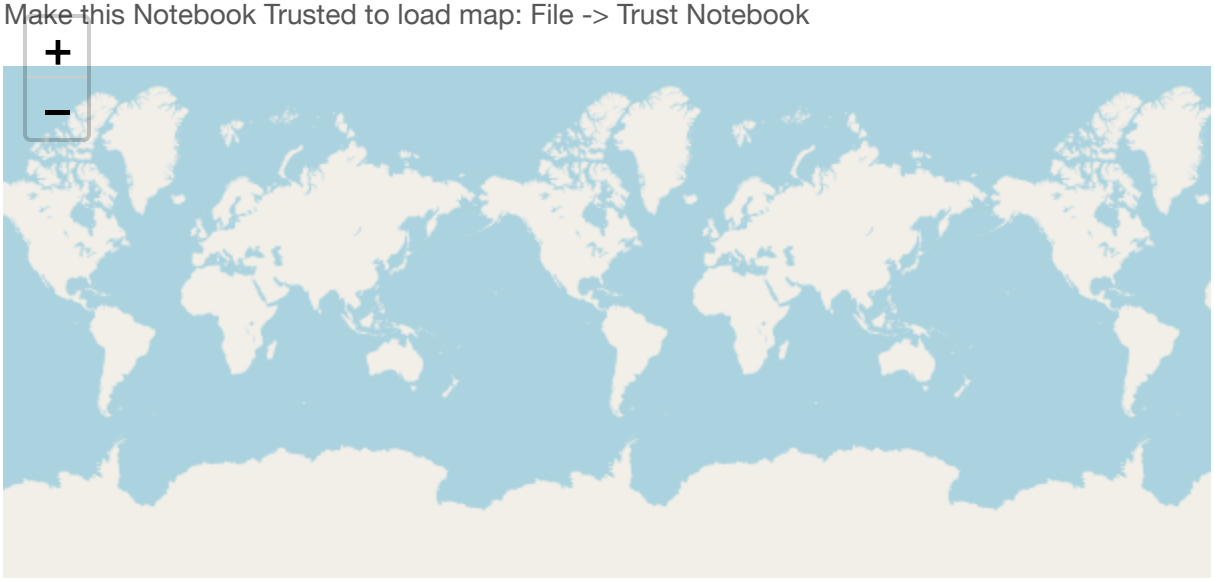
In [11]:
```
#finding the present time
t = datetime.now()
t
```

Out[11]:
```
datetime.datetime(2023, 11, 7, 21, 23, 36, 642773)
```

In [12]:
```
#displaying the normal map using folium
map = folium.Map(location=[lat,long], zoom_start=1)
map
```

Out[12]:

Make this Notebook Trusted to load map: File -> Trust Notebook



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In [13]:
```
def fetch_and_plot_data(map, start_time):
    while (datetime.now() - start_time).seconds < 3600:
        data = getdata()
        time_stamp, longitude, latitude = data
        folium.Marker([latitude, longitude], icon=None).add_to(map)
        time.sleep(5)
fetch_and_plot_data(map,t)
```

In [ ]:
```

```

In [14]:
```
#displaying the output map
map
```

Out[14]:

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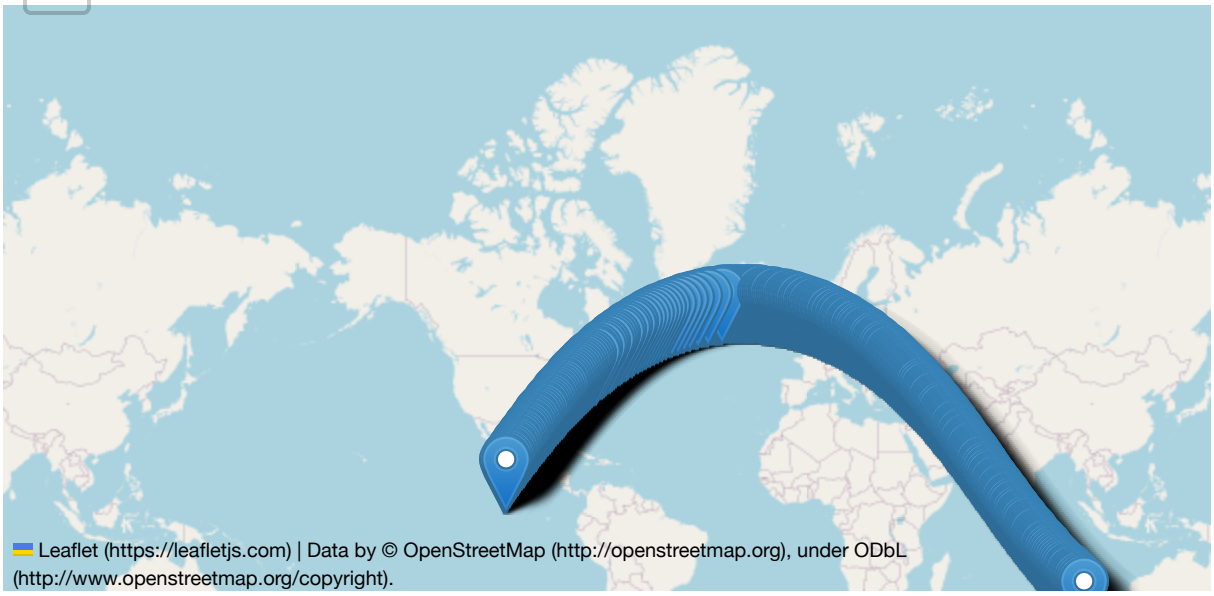

In [ ]: