In [11]:
```
pip install pandas
```

```
Requirement already satisfied: pandas in c:\users\samil\anaconda3\lib\site-packages (2.0.3)
Requirement already satisfied: pytz>=2020.1 in c:\users\samil\anaconda3\lib\site-packages (from pandas) (2020.1)
Requirement already satisfied: numpy>=1.20.3; python_version < "3.10" in c:\users\samil\anaconda3\lib\site-packages (from panda
s) (1.24.4)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\samil\anaconda3\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: tzdata>=2022.1 in c:\users\samil\anaconda3\lib\site-packages (from pandas) (2023.3)
Requirement already satisfied: six>=1.5 in c:\users\samil\anaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.1
5.0)
Note: you may need to restart the kernel to use updated packages.
```

In [60]:
```
pip install plotly
```

```
Requirement already satisfied: plotly in c:\users\samil\anaconda3\lib\site-packages (5.18.0)
Requirement already satisfied: tenacity>=6.2.0 in c:\users\samil\anaconda3\lib\site-packages (from plotly) (8.2.3)
Requirement already satisfied: packaging in c:\users\samil\anaconda3\lib\site-packages (from plotly) (20.4)
Requirement already satisfied: pyparsing>=2.0.2 in c:\users\samil\anaconda3\lib\site-packages (from packaging->plotly) (2.4.7)
Requirement already satisfied: six in c:\users\samil\anaconda3\lib\site-packages (from packaging->plotly) (1.15.0)
Note: you may need to restart the kernel to use updated packages.
```

In [61]:
```
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
from matplotlib.animation import FuncAnimation
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

In [62]:
```
raw_dataset=pd.read_csv("Doublet_EAF_35F2.csv",sep=",")
```

In [90]:

```
 Doublet_EAF_35F2= raw_dataset.copy()
Doublet_EAF_35F2.head()
```

Out[90]:

	Date	Longitude	Latitude	Depth	Magnitude
0	05/02/2023 19:21:54	38.873	38.330	7.00	1.0
1	05/02/2023 18:21:36	35.387	37.362	10.91	1.4
2	05/02/2023 17:10:36	35.053	37.923	7.00	1.3
3	05/02/2023 16:33:47	35.068	37.936	7.02	1.3
4	05/02/2023 15:43:16	35.070	37.937	7.00	1.3

In [91]:

```
Doublet_EAF_35F2.shape
```

Out[91]:

```
(13930, 5)
```

In [92]:

```
x = Doublet_EAF_35F2.iloc[:,1].values
y = Doublet_EAF_35F2.iloc[:,2].values
z = Doublet_EAF_35F2.iloc[:,3].values
colors = Doublet_EAF_35F2.iloc[:,4].values
sizes = Doublet_EAF_35F2.iloc[:,4].values*8
```

In [101]:

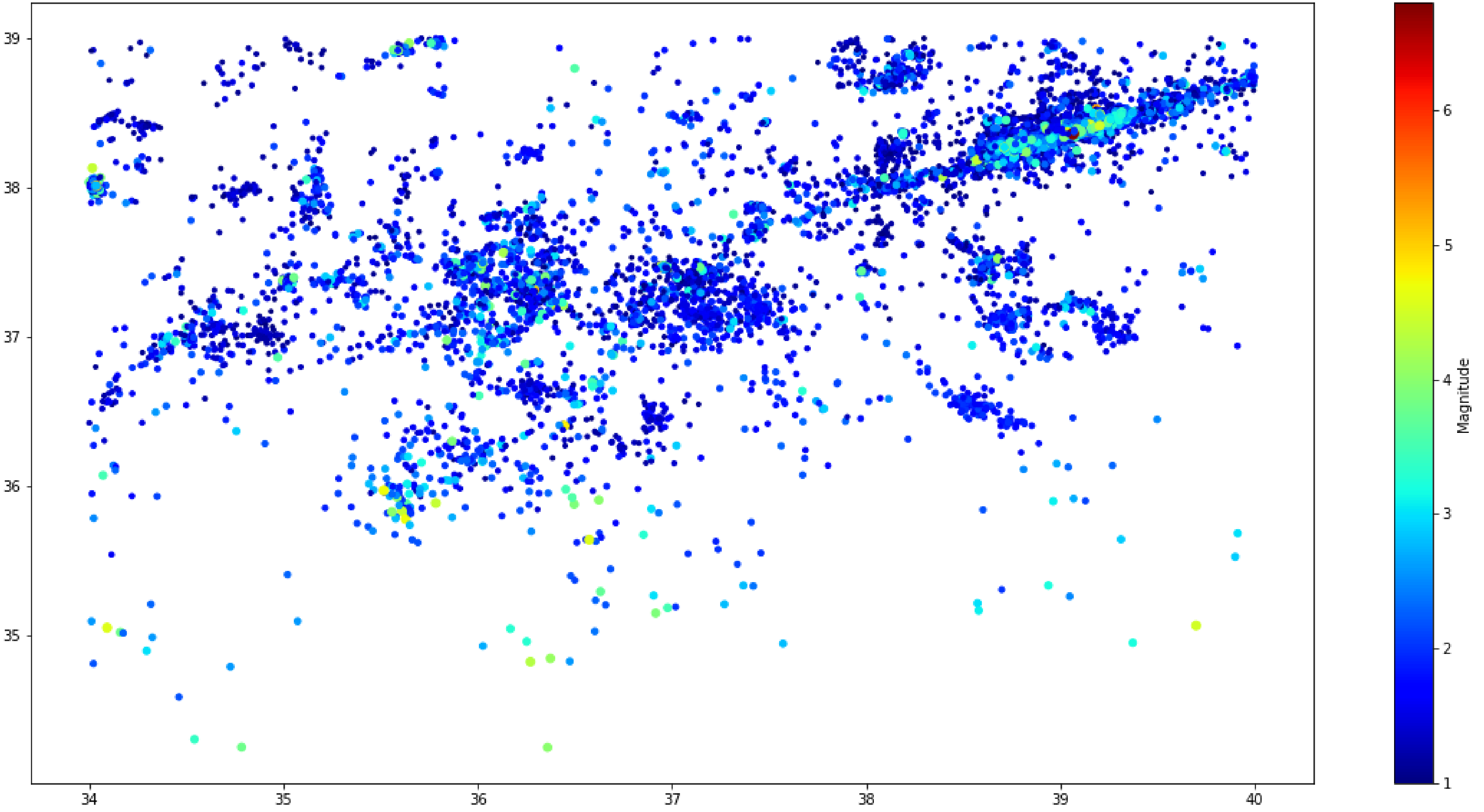
```
fig = plt.figure(figsize=(20, 10))
my_cmap = plt.get_cmap('jet')

plt.scatter(x, y, c=colors, s=sizes, cmap= 'jet')
ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet')
cbar = plt.colorbar(ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet'))

ax.set_xlabel('Longitude')
ax.set_ylabel('Latitude')
cbar.set_label('Magnitude')
ax.set_zlabel('Depth_km')

font_size = 700
dpi = (5000)

plt.show()
```


39
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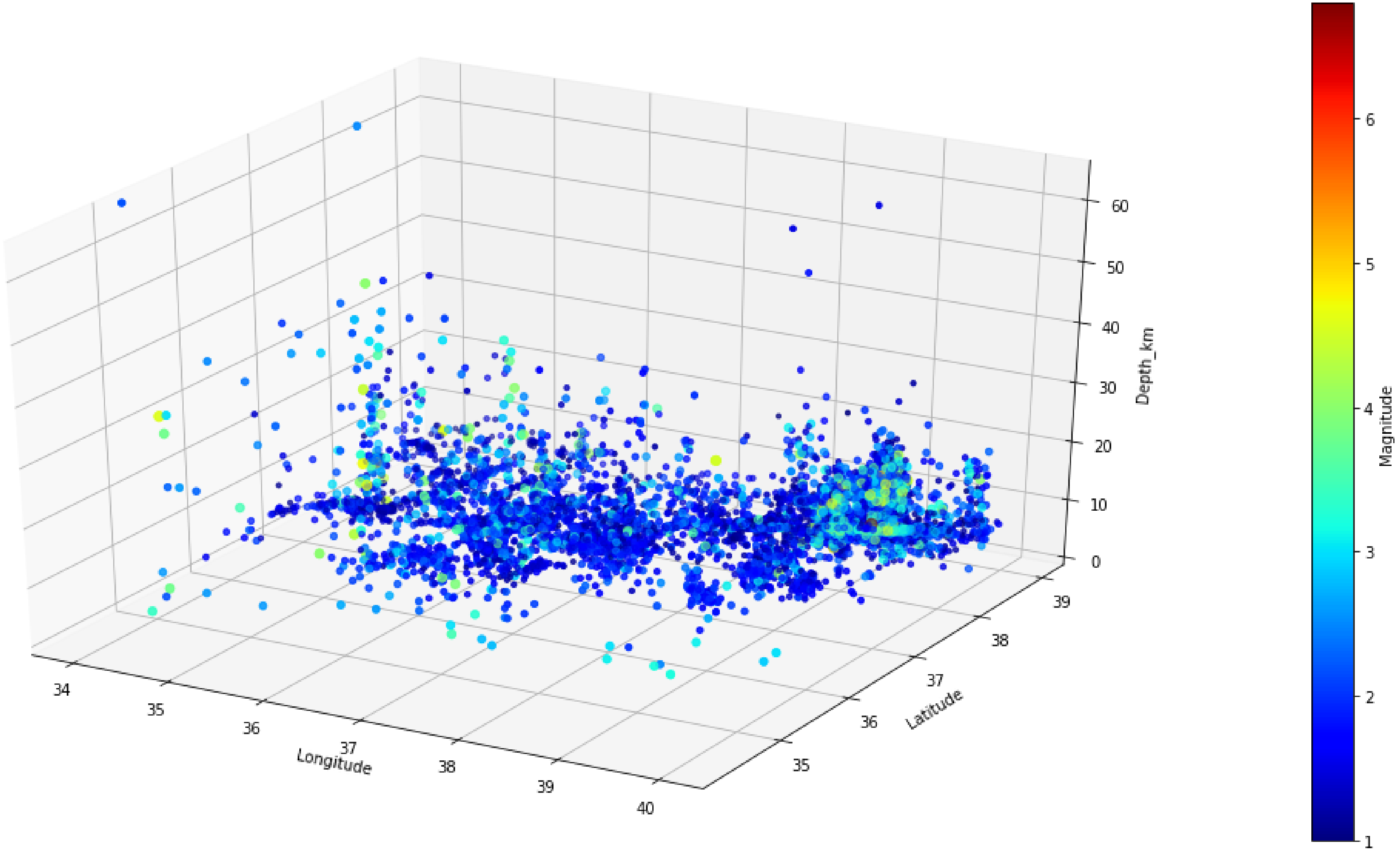
1
Magnitude

In [102]:

```
import plotly.graph_objects as go
# Yüksek çözünürlüklü dünya haritası verilerini çevrimiçi olarak alın
fig = go.Figure(go.Choroplethmapbox(
 geojson="https://raw.githubusercontent.com/johan/world.geo.json/master/countries.geo.json",
 locations=["USA", "CAN", "MEX", "RUS", "CHN"], # Örnek ülke kodları (ABD, Kanada, Meksika, Rusya, Çin)
 z=[1, 1, 1, 1, 1], # Ülkelere atanacak değerler (hepsi 1 olarak ayarlanmıştır)
 colorscale='Jet', # Renk skalası adı (Viridis, YlGnBu, Jet vb.)
 zmin=3,
 zmax=8,
 marker_opacity=0.9, # Ülke sınırlarının opaklığı
 marker_line_width=1, # Ülke sınırlarının kenarlık kalınlığı
))
# Örnek deprem verilerini oluşturun
deprem_verileri = {
 'Longitude': x,
 'Latitude': y,
 'Magnitude': colors,
 }
# Scatter plot ile deprem verilerini ekleyin
fig.add_trace(go.Scattermapbox(
 lat=deprem_verileri['Latitude'],
 lon=deprem_verileri['Longitude'],
 mode='markers',
 marker=dict(
 size=deprem_verileri['Magnitude'] * 2, # Magnitude değerine göre nokta boyutlarını belirleme
 color=deprem_verileri['Magnitude'], # Magnitude değerine göre renk skalasını belirleme
 colorscale='Jet', # Renk skalası adı (Viridis, YlGnBu, Jet vb.)
 ),
 ))
# Harita düzenini ve stilini belirleyin
fig.update_layout(
 mapbox_style="carto-positron", # Harita stilini belirleme (diğer stiller için: "open-street-map", "stamen-terrain" vb.)
 mapbox_zoom=6, # Harita yakınlaştırma düzeyini belirleme
 mapbox_center={"lat": 30.000, "lon": 30.0000}, # Harita merkezini belirleme (ABD'nin merkezi)
)
dpi = (9000)
font_size = 1000
# Grafiği görüntüleyin
fig.show()
```

In [103]:

```
fig = plt.figure(figsize=(20, 10))

ax = fig.add_subplot(111, projection='3d')

ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet')


cbar = plt.colorbar(ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet'))

cbar.set_label('Magnitude')


ax.set_xlabel('Longitude')
ax.set_ylabel('Latitude')
ax.set_zlabel('Depth_km')




dpi = (5000)
font_size = 1000

ax.set_zlim(0, 65)


plt.show()
```



In [78]:
```
x = Doublet_EAF_35F2.iloc[:,1].values
y = Doublet_EAF_35F2.iloc[:,2].values
z = Doublet_EAF_35F2.iloc[:,0].values
colors = Doublet_EAF_35F2.iloc[:,4].values
sizes = Doublet_EAF_35F2.iloc[:,4].values*8
```

In [79]:

```
z
```

Out[79]:

```
array(['05/02/2023 19:21:54', '05/02/2023 18:21:36',
       '05/02/2023 17:10:36', ..., '02/01/2020 00:56:49',
       '01/01/2020 20:36:53', '01/01/2020 19:37:04'], dtype=object)
```

In [81]:

```
from datetime import datetime
# Verileri oluştur
timestamps = z
# Zaman damgalarını aylara dönüştür
years = [datetime.strptime(timestamp, '%d/%m/%Y %H:%M:%S').year for timestamp in timestamps]
print(years) # Ay bilgilerini görüntüle
```

```
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2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020, 2020]
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In [82]:
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years
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Out[82]:
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[2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
 2023,
```
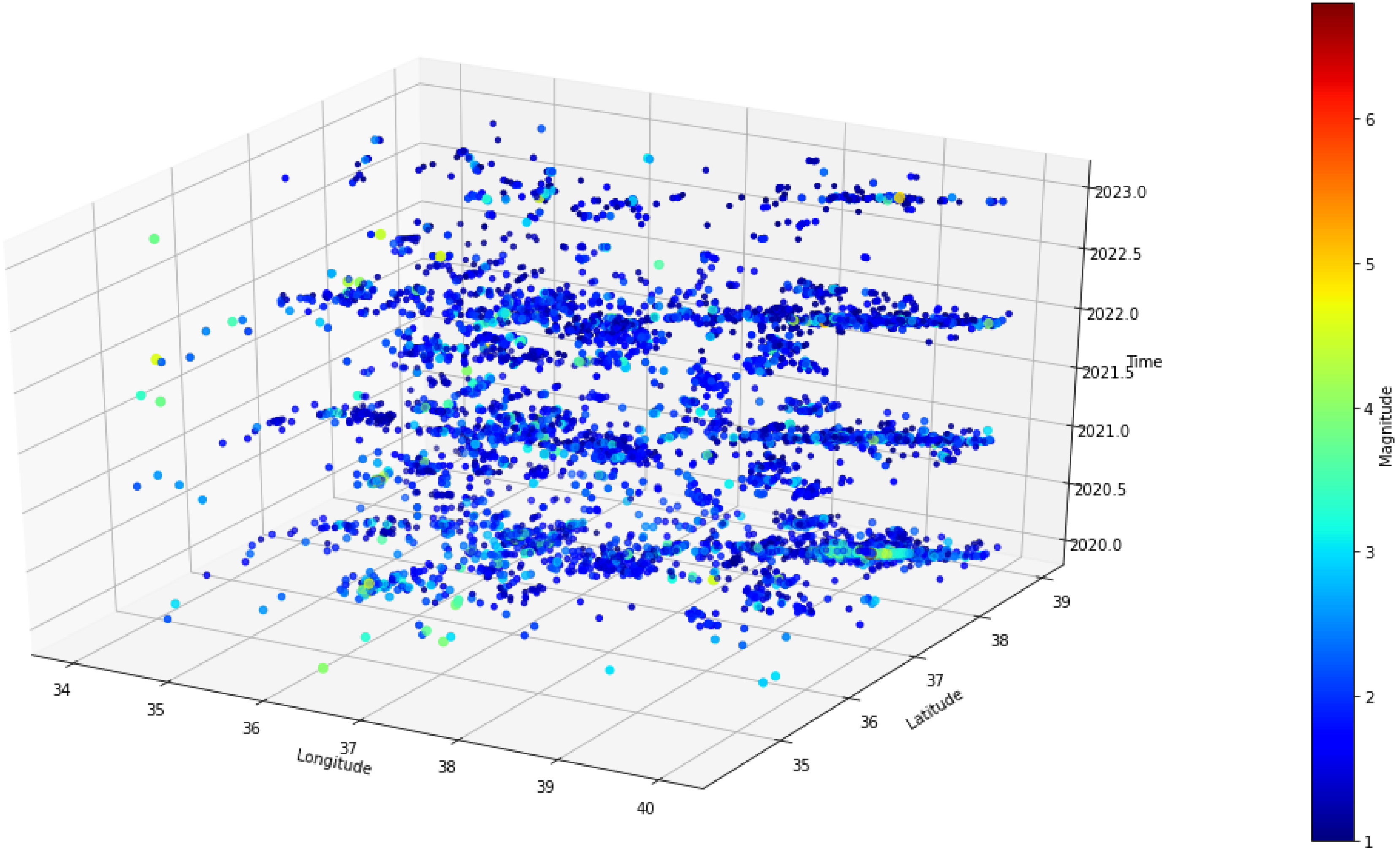

In [83]:
```
x = Doublet_EAF_35F2.iloc[:,1].values
y = Doublet_EAF_35F2.iloc[:,2].values
z = years
colors = Doublet_EAF_35F2.iloc[:,4].values
sizes = Doublet_EAF_35F2.iloc[:,4].values*8
```

In [84]:

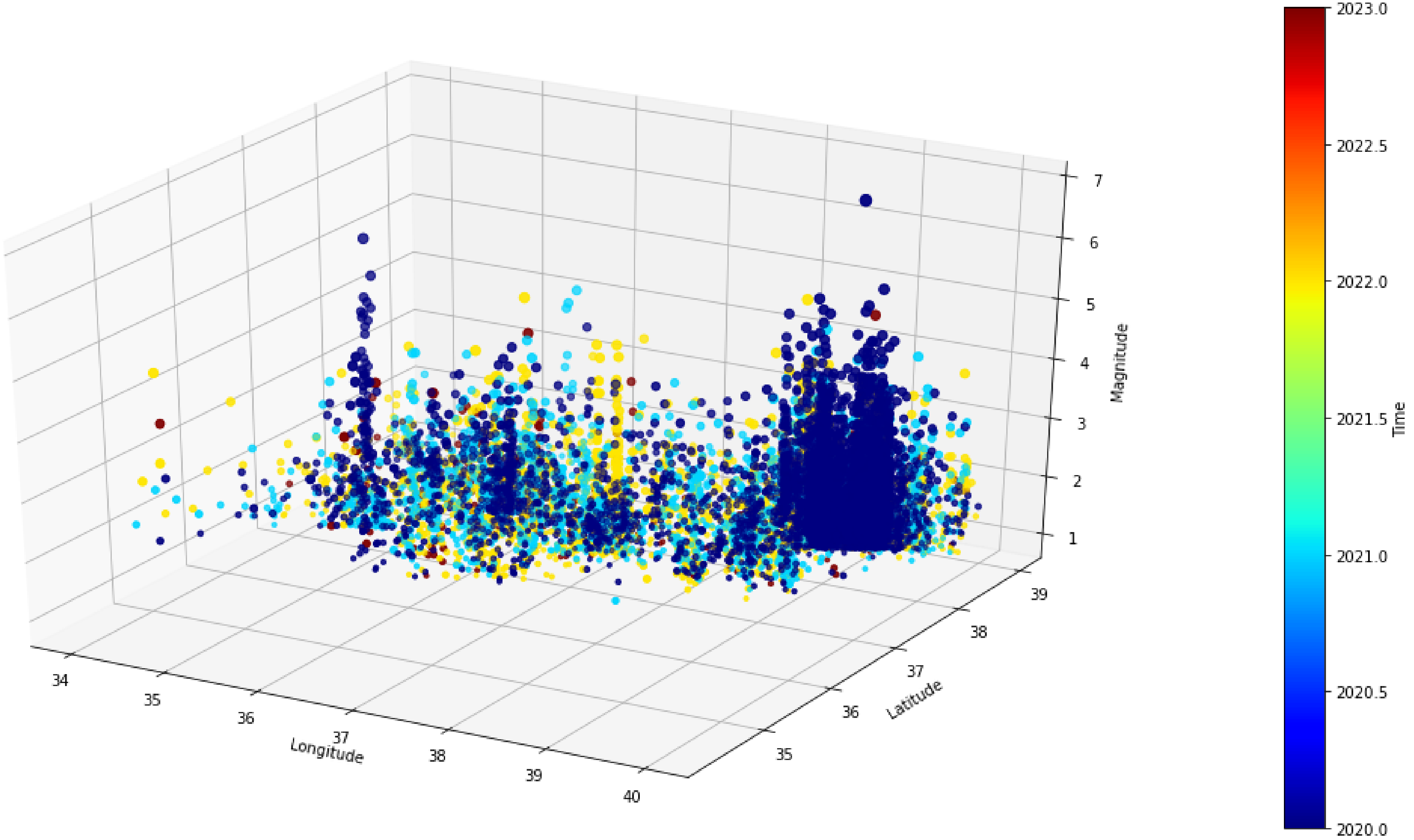
```
fig = plt.figure(figsize=(20, 10))

ax = fig.add_subplot(111, projection='3d')

ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet')


cbar = plt.colorbar(ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet'))

cbar.set_label('Magnitude')


ax.set_xlabel('Longitude')
ax.set_ylabel('Latitude')
ax.set_zlabel('Time')

font_size = 700

dpi = (5000)
font_size = 1000




plt.show()
```



```
In [85]: x = Doublet_EAF_35F2.iloc[:,1].values
         y = Doublet_EAF_35F2.iloc[:,2].values
         z = Doublet_EAF_35F2.iloc[:,4].values
         colors = years
         sizes = Doublet_EAF_35F2.iloc[:,4].values*8
```

In [86]:

```
fig = plt.figure(figsize=(20, 10))

ax = fig.add_subplot(111, projection='3d')

ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet')


cbar = plt.colorbar(ax.scatter(x, y, z, c=colors, s=sizes, cmap='jet'))

cbar.set_label('Time')


ax.set_xlabel('Longitude')
ax.set_ylabel('Latitude')
ax.set_zlabel('Magnitude')

font_size = 700

dpi = (5000)
font_size = 1000




plt.show()
```


Longitude
34
35
36
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Latitude
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36
37
38
39
Magnitude
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3
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6
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Time
2020.0
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2021.0
2021.5
2022.0
2022.5
2023.0

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In [ ]:
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In [ ]:
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