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```
lat = latitude
lon = longitude
```

```
Error using evalin
Undefined function or variable 'Geo_Physics_Code'.
```

Converted latitude and longitude to same scale

```
mstruct = defaultm('sinusoid');
[x,y] = projfwd(mstruct,lat,lon);
mstruct.maplonlimit = [-150 -30];
mstruct.geoid = referenceEllipsoid('grs80','kilometers');
mstruct = defaultm(mstruct);
mstruct.origin;
plot(x,y,'.');
```

Converted Dates to a number

```
t = time;
a = regexprep(t,['T Z]+',' ');
DateNumber = datenum(a);
Z = DateNumber;
```

Convert Energy of EQ's into joules

```
M = 10.^((mag+6)*(1.5));
plot(Z,M,'.');
```

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