
Subject: Reading Multiple .sav files with same variable names for graphing

Posted by [morganlsilverman](#) on Mon, 07 Jul 2014 14:40:58 GMT

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Hello,

I have 9 .sav files each containing a different days data but with the same set of variable names. I am trying to figure out a better method to read each of these files and save the variables to different named arrays or structures so that I can then plot several days of data in the same graph. The method i've been using right now involves a lot of coding (shown below for first 2 files). Is there a better way to do this so that I can then plot multiple arrays from different .save files on the same graph? Thank you.

Sincerely,
Morgan

```
restore, './DAQPadonia_AvgBackTraj_Flight7.sav'
Flight7 = {Avg500Lat: fltarr(73), Avg500Lon: fltarr(73), Avg1000Lat: fltarr(73), Avg1000Lon:
fltarr(73), $
    Avg1500Lat: fltarr(73), Avg1500Lon: fltarr(73), Avg2000Lat: fltarr(73), Avg2000Lon: fltarr(73),
Avg2500Lat: fltarr(73), $
    Avg2500Lon: fltarr(73), Avg3000Lat: fltarr(73), Avg3000Lon: fltarr(73), Avg3500Lat: fltarr(73),
Avg3500Lon: fltarr(73)}
Flight7.Avg500Lat = Avg500Lat
Flight7.Avg500Lon = Avg500Lon
Flight7.Avg1000Lat = Avg1000Lat
Flight7.Avg1000Lon = Avg1000Lon
Flight7.Avg1500Lat = Avg1500Lat
Flight7.Avg1500Lon = Avg1500Lon
Flight7.Avg2000Lat = Avg2000Lat
Flight7.Avg2000Lon = Avg2000Lon
Flight7.Avg2500Lat = Avg2500Lat
Flight7.Avg2500Lon = Avg2500Lon
Flight7.Avg3000Lat = Avg3000Lat
Flight7.Avg3000Lon = Avg3000Lon
Flight7.Avg3500Lat = Avg3500Lat
Flight7.Avg3500Lon = Avg3500Lon
restore, './DAQPadonia_AvgBackTraj_Flight6.sav'
Flight6 = {Avg500Lat: fltarr(73), Avg500Lon: fltarr(73), Avg1000Lat: fltarr(73), Avg1000Lon:
fltarr(73), $
    Avg1500Lat: fltarr(73), Avg1500Lon: fltarr(73), Avg2000Lat: fltarr(73), Avg2000Lon: fltarr(73),
Avg2500Lat: fltarr(73), $
    Avg2500Lon: fltarr(73), Avg3000Lat: fltarr(73), Avg3000Lon: fltarr(73), Avg3500Lat: fltarr(73),
Avg3500Lon: fltarr(73)}
Flight6.Avg500Lat = Avg500Lat
Flight6.Avg500Lon = Avg500Lon
Flight6.Avg1000Lat = Avg1000Lat
Flight6.Avg1000Lon = Avg1000Lon
```

```
Flight6.Avg1500Lat = Avg1500Lat  
Flight6.Avg1500Lon = Avg1500Lon  
Flight6.Avg2000Lat = Avg2000Lat  
Flight6.Avg2000Lon = Avg2000Lon  
Flight6.Avg2500Lat = Avg2500Lat  
Flight6.Avg2500Lon = Avg2500Lon  
Flight6.Avg3000Lat = Avg3000Lat  
Flight6.Avg3000Lon = Avg3000Lon  
Flight6.Avg3500Lat = Avg3500Lat  
Flight6.Avg3500Lon = Avg3500Lon
```
