

```
% load daily average wind speed data for 3 stations
```

```
clear all
```

```
load wspd_day_avg_groupone_97
```

```
% whos
```

```
%   Name                Size                Bytes   Class   Attributes
%   wspd_day_avg         3x365                8760   double
```

```
rho = corrcoef(wspd_day_avg)
```

```
%   1.0000    0.8318    0.8418
%   0.8318    1.0000    0.9361
%   0.8418    0.9361    1.0000
```

```
rho.^2
```

```
%   1.0000    0.6920    0.7087
%   0.6920    1.0000    0.8763
%   0.7087    0.8763    1.0000
```

```
wspd_day_avg_1 = wspd_day_avg;
```

```
load wspd_day_avg_grouptwo_97
```

```
rho = corrcoef(wspd_day_avg)
```

```
%   1.0000    0.8359    0.8206
%   0.8359    1.0000    0.9552
%   0.8206    0.9552    1.0000
%
```

```
rho.^2
```

```
%   1.0000    0.6987    0.6734
%   0.6987    1.0000    0.9124
%   0.6734    0.9124    1.0000
```

```
wspd_day_avg_2 = wspd_day_avg;
```

```
wspd_day_avg_all = [wspd_day_avg_1 wspd_day_avg_2];
```

```
rho = corrcoef(wspd_day_avg_all)
```

```
%   1.0000    0.8318    0.8418    0.8152    0.6844    0.6444
%   0.8318    1.0000    0.9361    0.6277    0.4914    0.4701
%   0.8418    0.9361    1.0000    0.6382    0.5267    0.5103
%   0.8152    0.6277    0.6382    1.0000    0.8359    0.8206
%   0.6844    0.4914    0.5267    0.8359    1.0000    0.9552
%   0.6444    0.4701    0.5103    0.8206    0.9552    1.0000
```

```
rho.^2
```

```
%      1.0000    0.6920    0.7087    0.6645    0.4684    0.4153
%      0.6920    1.0000    0.8763    0.3940    0.2415    0.2210
%      0.7087    0.8763    1.0000    0.4073    0.2774    0.2604
%      0.6645    0.3940    0.4073    1.0000    0.6987    0.6734
%      0.4684    0.2415    0.2774    0.6987    1.0000    0.9124
%      0.4153    0.2210    0.2604    0.6734    0.9124    1.0000
```

```
% scatter plots of all 6 combinations
```

```
group1 = [92 44 52];
group2 = [29 108 50];
station = [group1 group2 ];
```

```
% indices of station pairs
```

```
a = [1 2 4 5 2 1]
b = [2 3 6 6 6 4]
```

```
figure(3)
```

```
clf
```

```
for k = 1:6
```

```
subplot(2,3,k)
```

```
scatter(wspd_day_avg_all(:,a(k)), wspd_day_avg_all(:,b(k)),30,'.')
axis square
```

```
grid on
```

```
axis([0 12 0 12])
```

```
set(gca,'XTick',[0 : 2 : 12])
```

```
title(['Stations ' num2str(station(a(k))) ' & ' num2str(station(b(k)))])
```

```
end
```

```
hold off
```

```
orient landscape
```

```
print -dpsc2 scatter_6_pairs.ps
```