```
1    p=[Temp S pH TUR Chl-a]
2    %Temp:Water temperature
3    %S:Salinity
4    %Turb: Turbidity
5    [n,m]=size(p);
6    %Zscore normalize
7    p=zscore(p);
8    y=pdist(p,'euclid');
9    %pdist:Pairwise distance between pairs of observations
10   z=linkage(y,'ward');
11   %linkage:Agglomerative hierarchical cluster tree
12   h=dendrogram(z,0)
13   xlabel('Station')
14   ylabel('Distance between clusters')
15   axis([0 16 0 8])
16   hold on
17   plot([0 16],[8 8],'-k')
18   hold on
19   plot([16 16],[8 8],'-k')
```

Figure S1. The matlab code of agglomerative hierarchical cluster analysis.