Classification
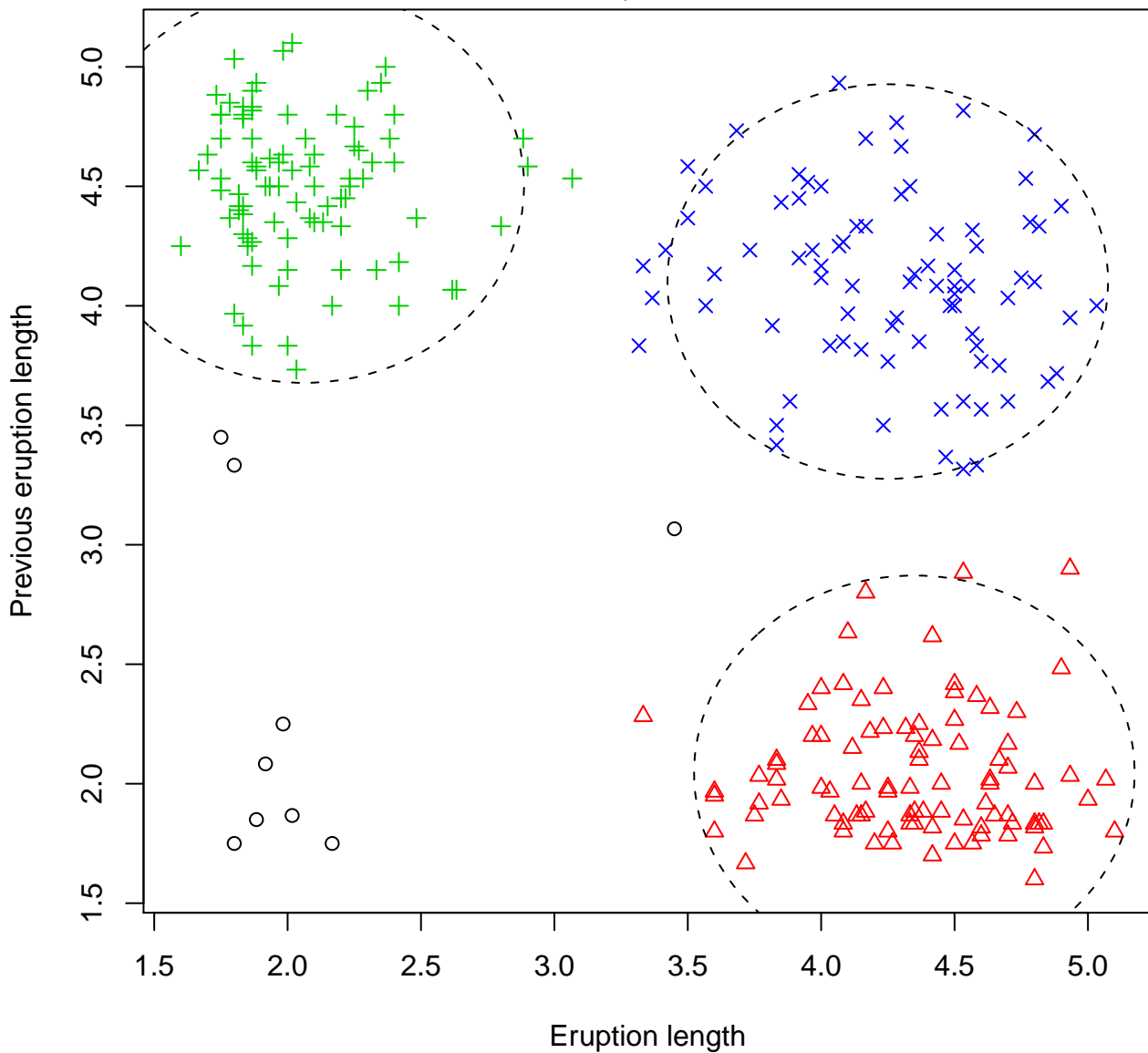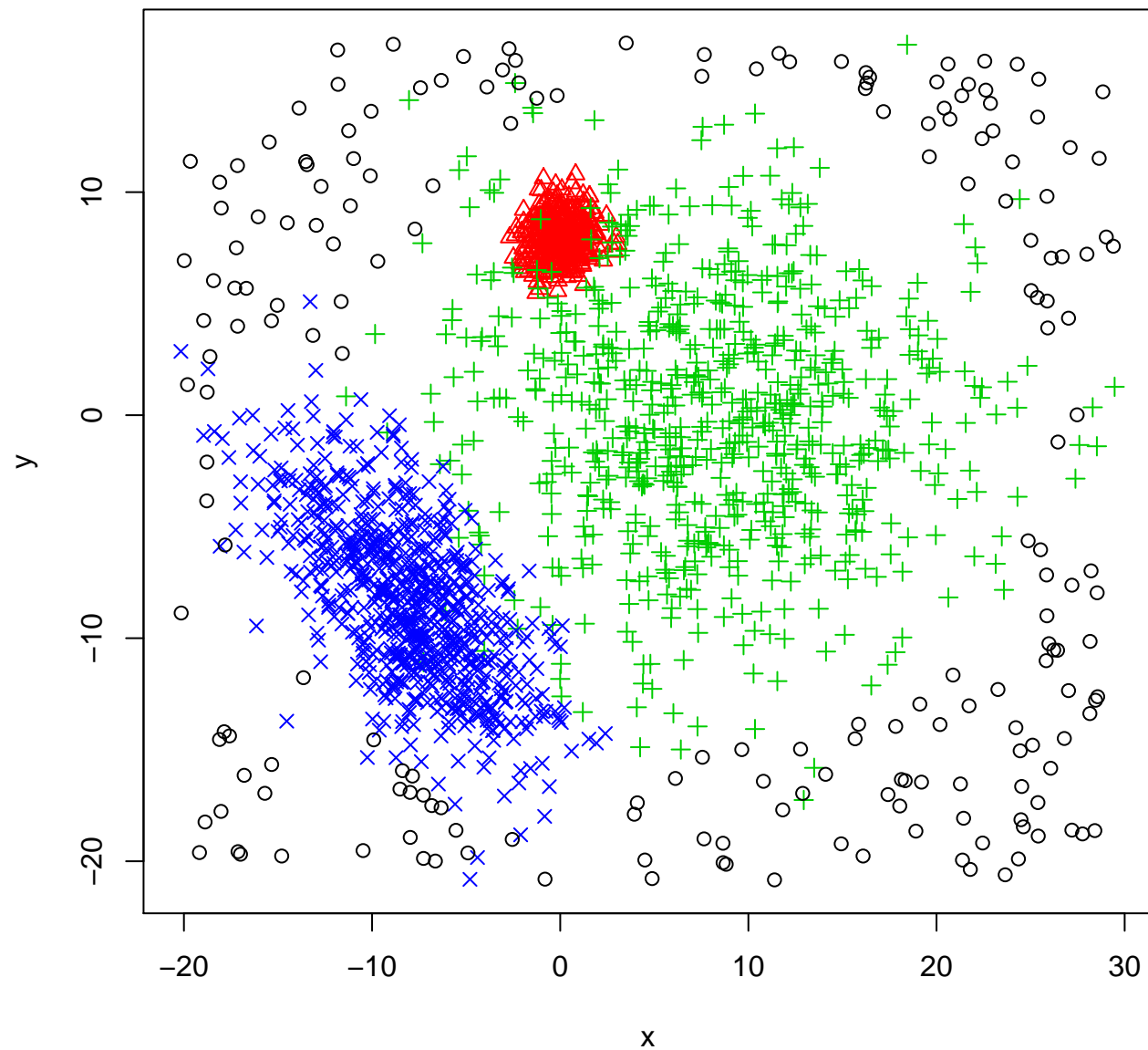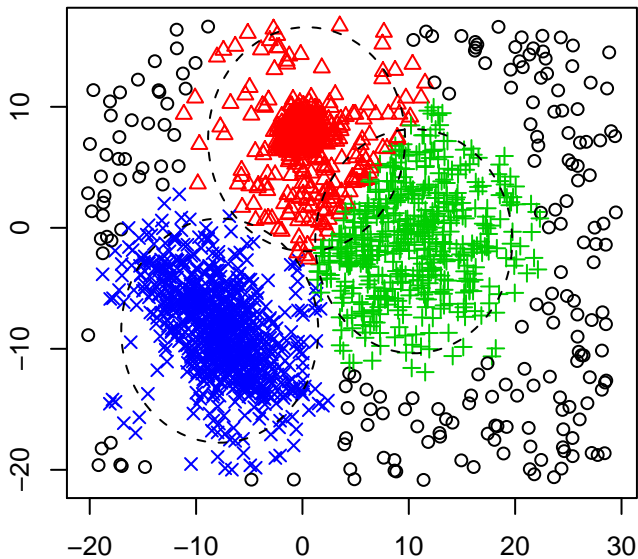
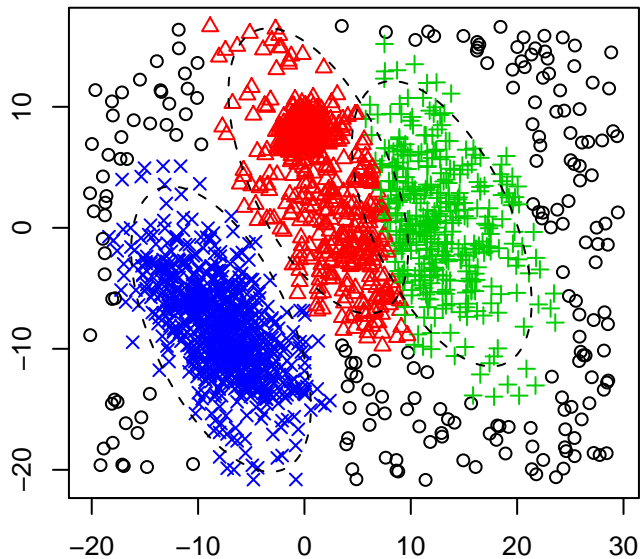$k = 3, \alpha = 0.03$

The M5data data set
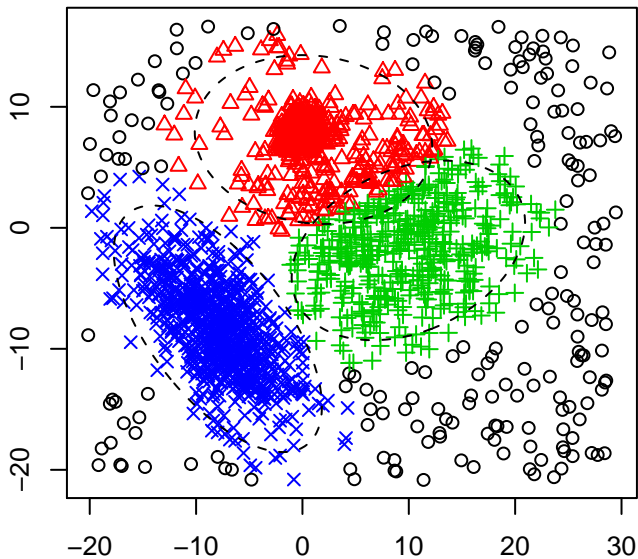
(a) Trimmed k−means

$k = 3, \alpha = 0.1$
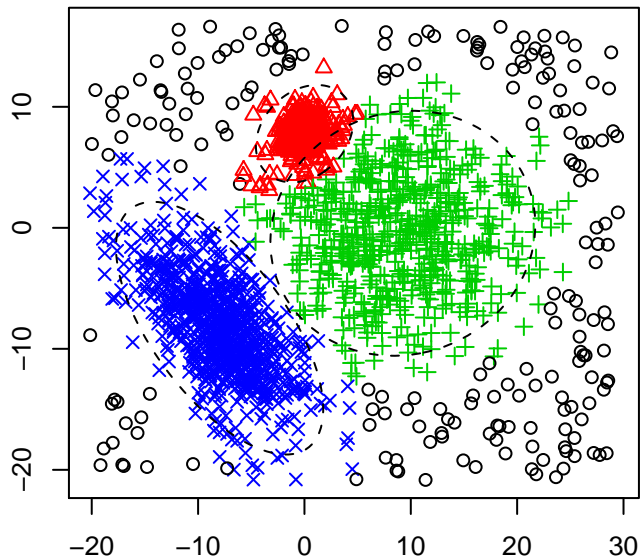
(b) Gallegos and Ritter (2005)

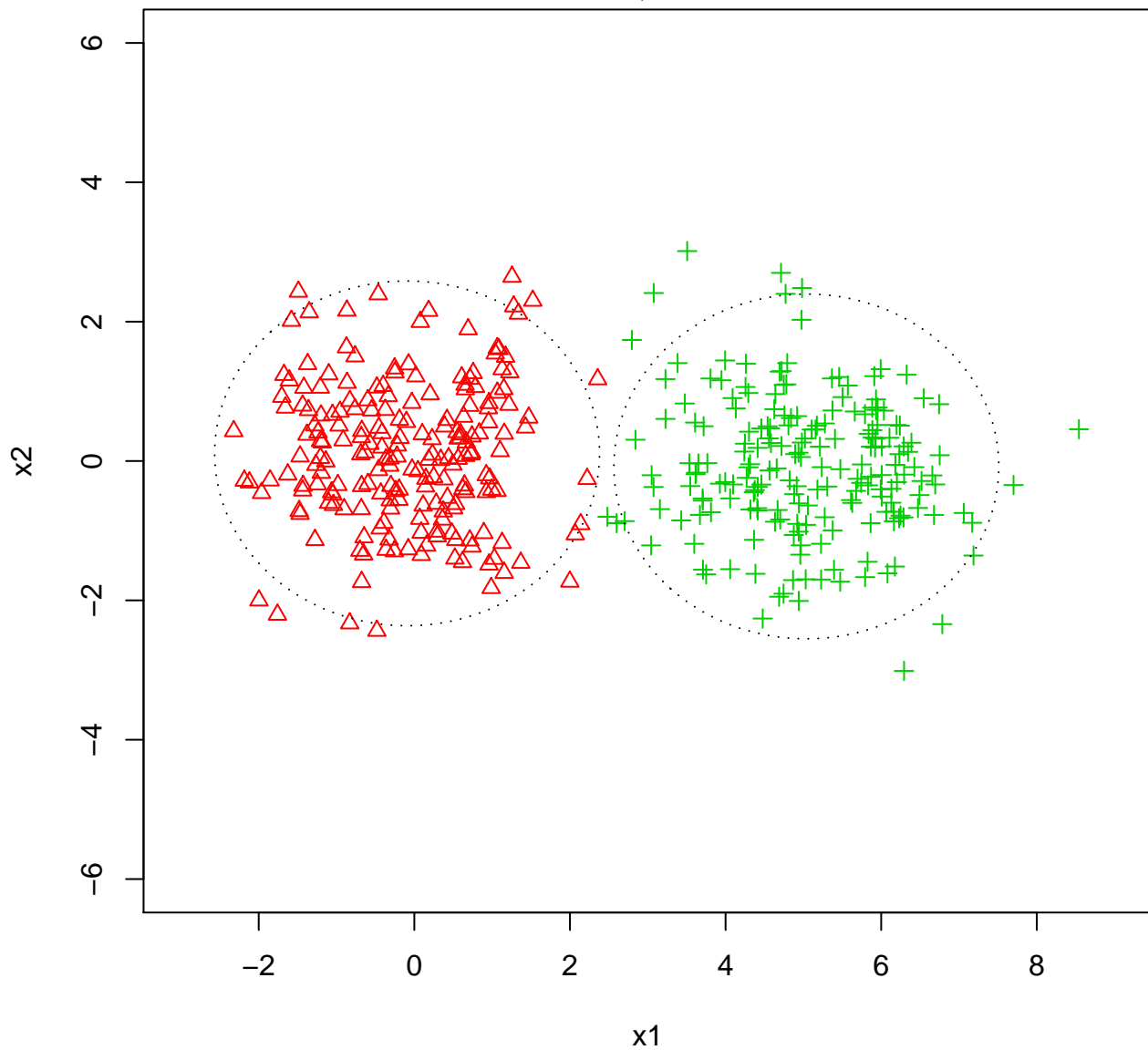$k = 3, \alpha = 0.1$

(c) Gallegos (2002)

$k = 3, \alpha = 0.1$

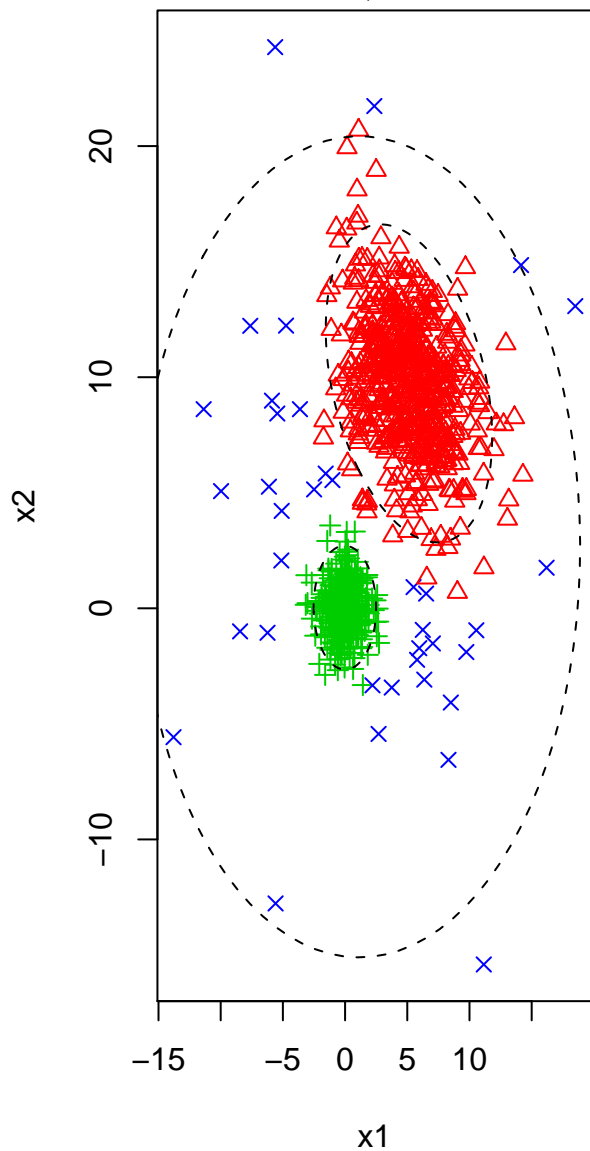**(d) Garcia−Escudero et al. (2008)**
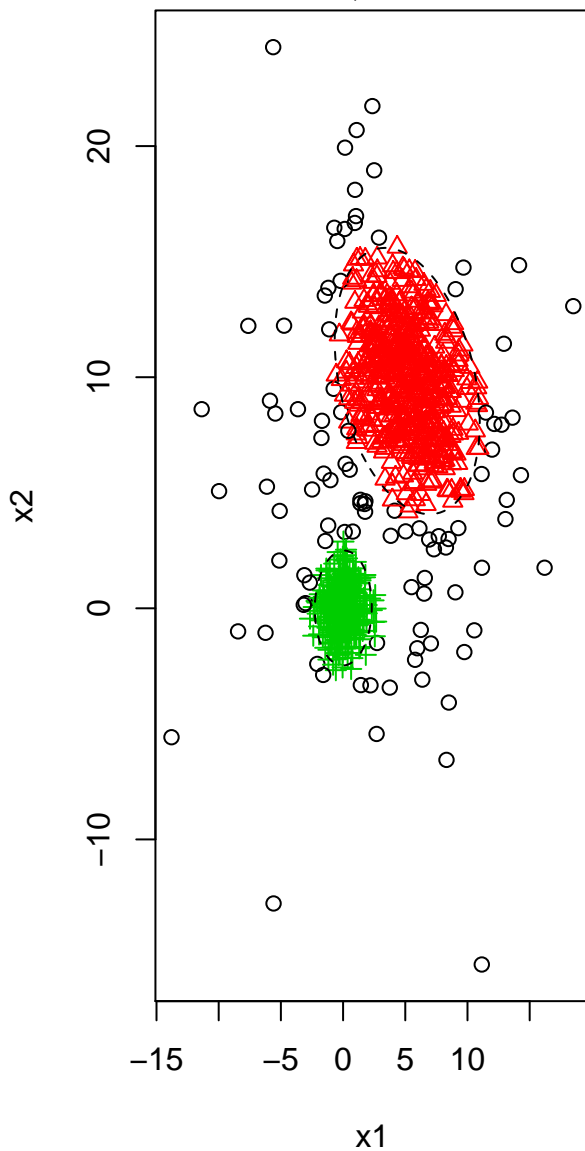
$k = 3, \alpha = 0.1$

Classification

k = 3, α = 0
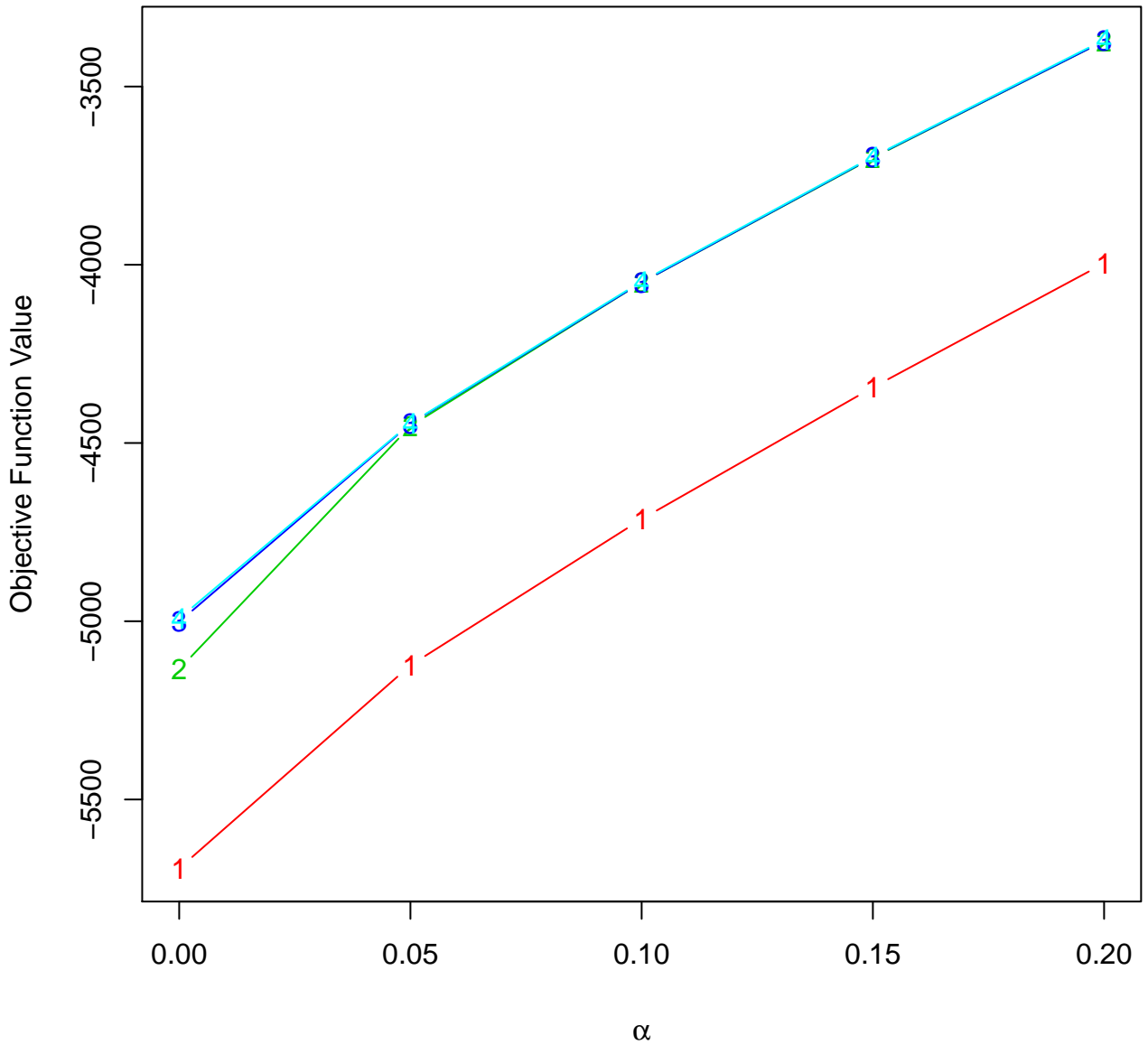
x2

x1

(a) Classification

$k = 3, \alpha = 0$

(b) Classification

$k = 2, \alpha = 0.1$

CTL−Curves

Restriction Factor = 50

(a) Classification

k = 2, α = 0.03

(b) Classification

k = 3, α = 0.03

(random jitter)

Eruption length

Second discriminant coord.

First discriminant coord.

(a) Classification

$k = 3$, $\alpha = 0.1$

(b) Silhouette Plot

Mean Discriminant Factors
- −4.645
- −4.798
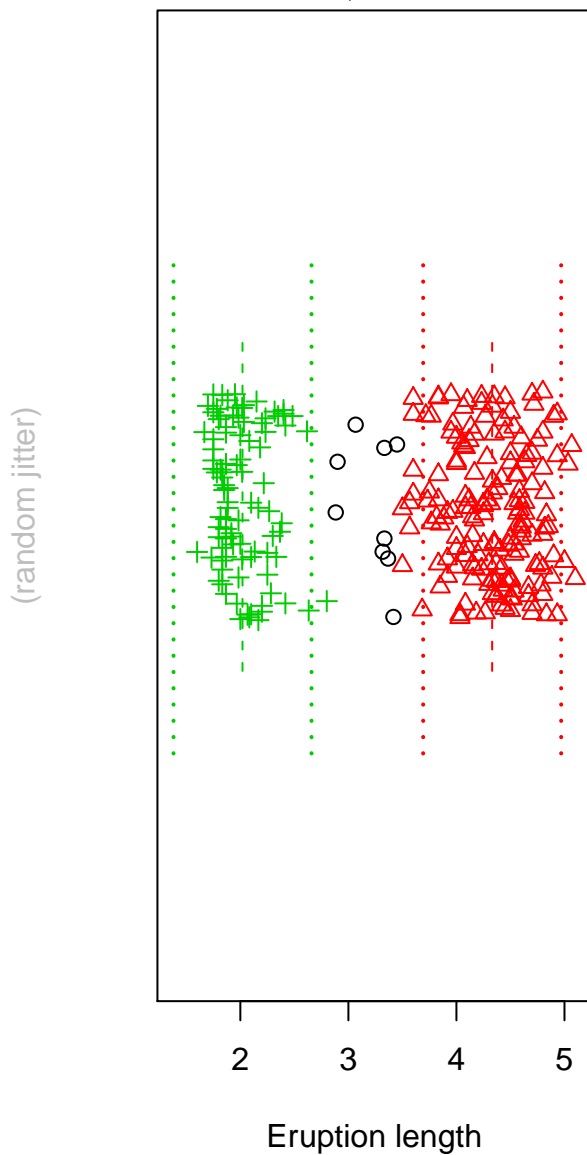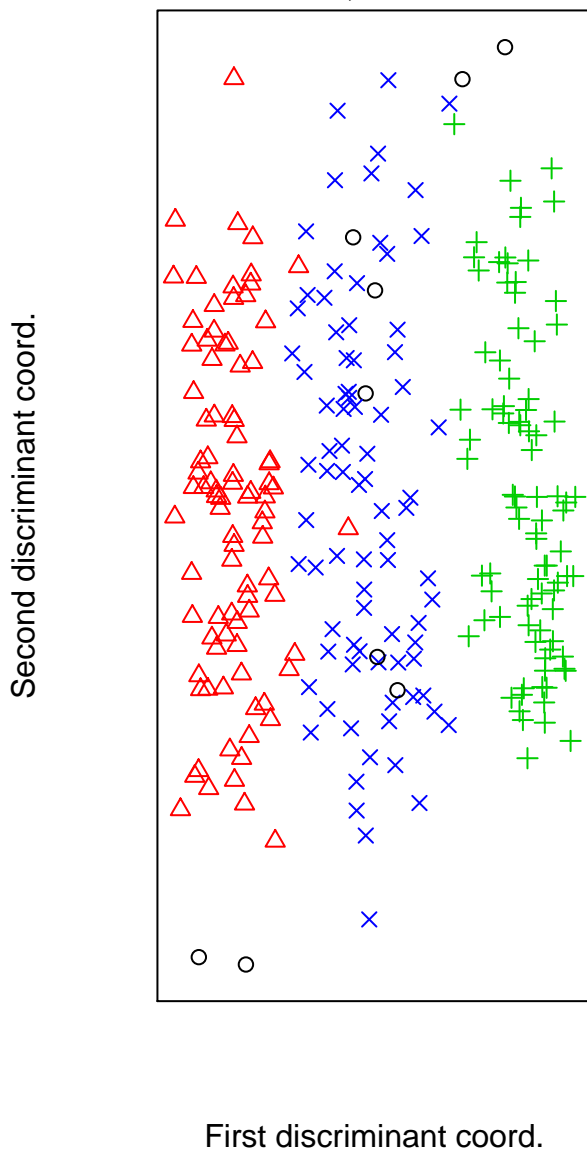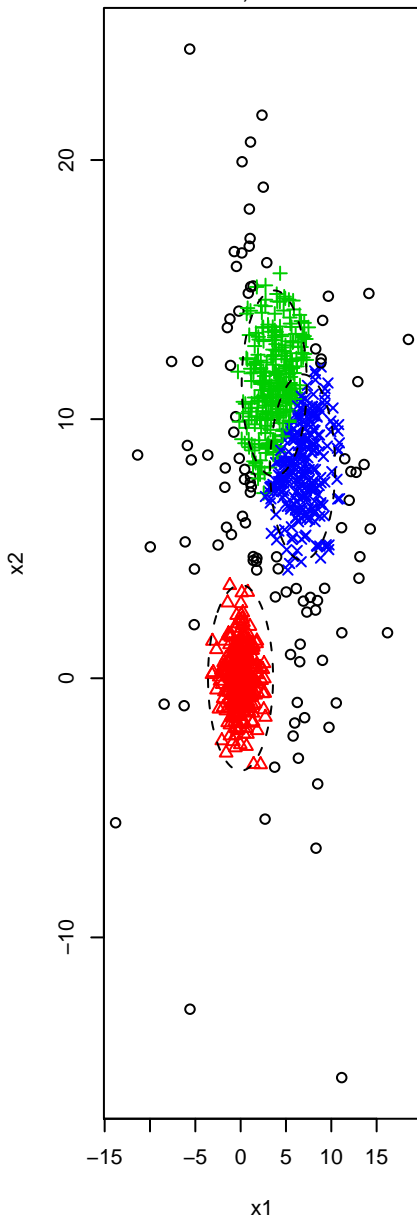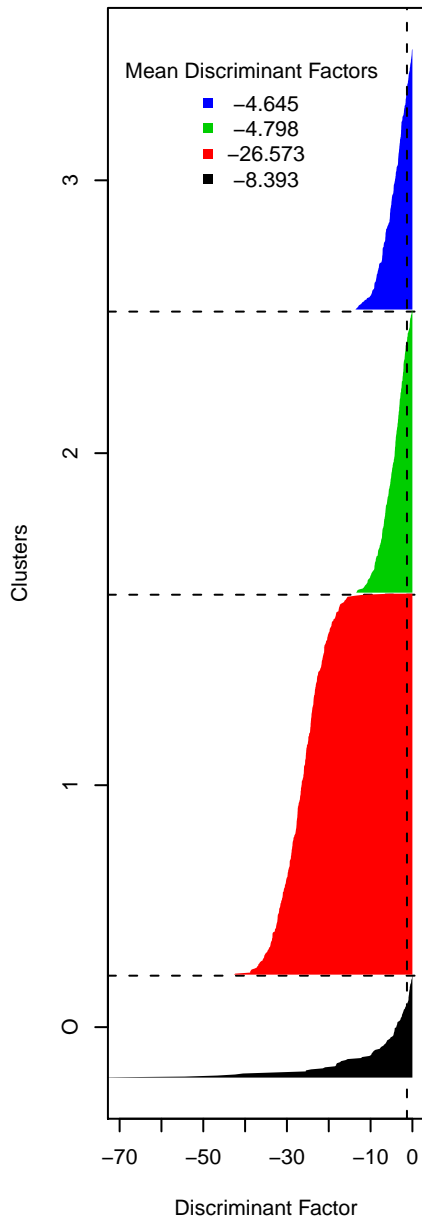- −26.573
- −8.393

(c) Doubtful Assignments
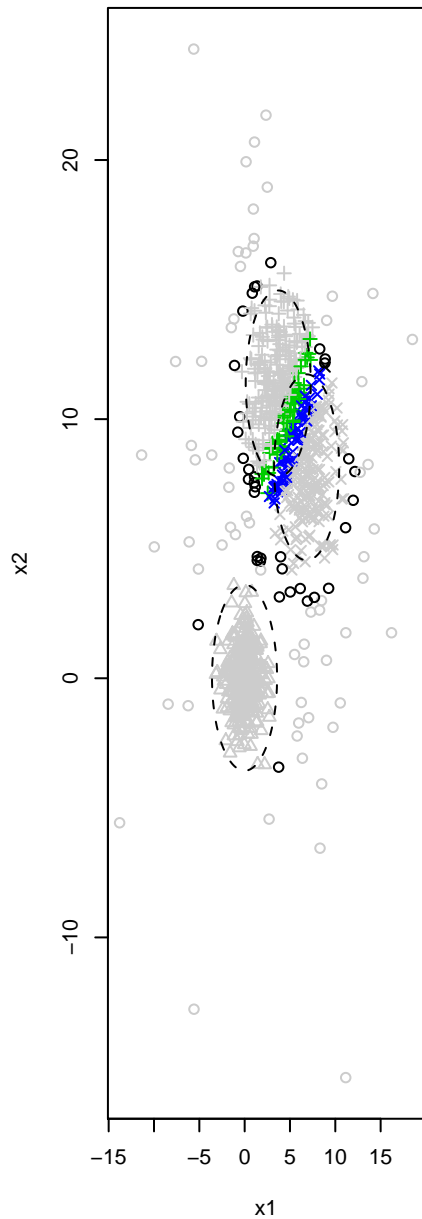
CTL−Curves

Restriction Factor = 50

(a) Classification

k = 2, α = 0.1

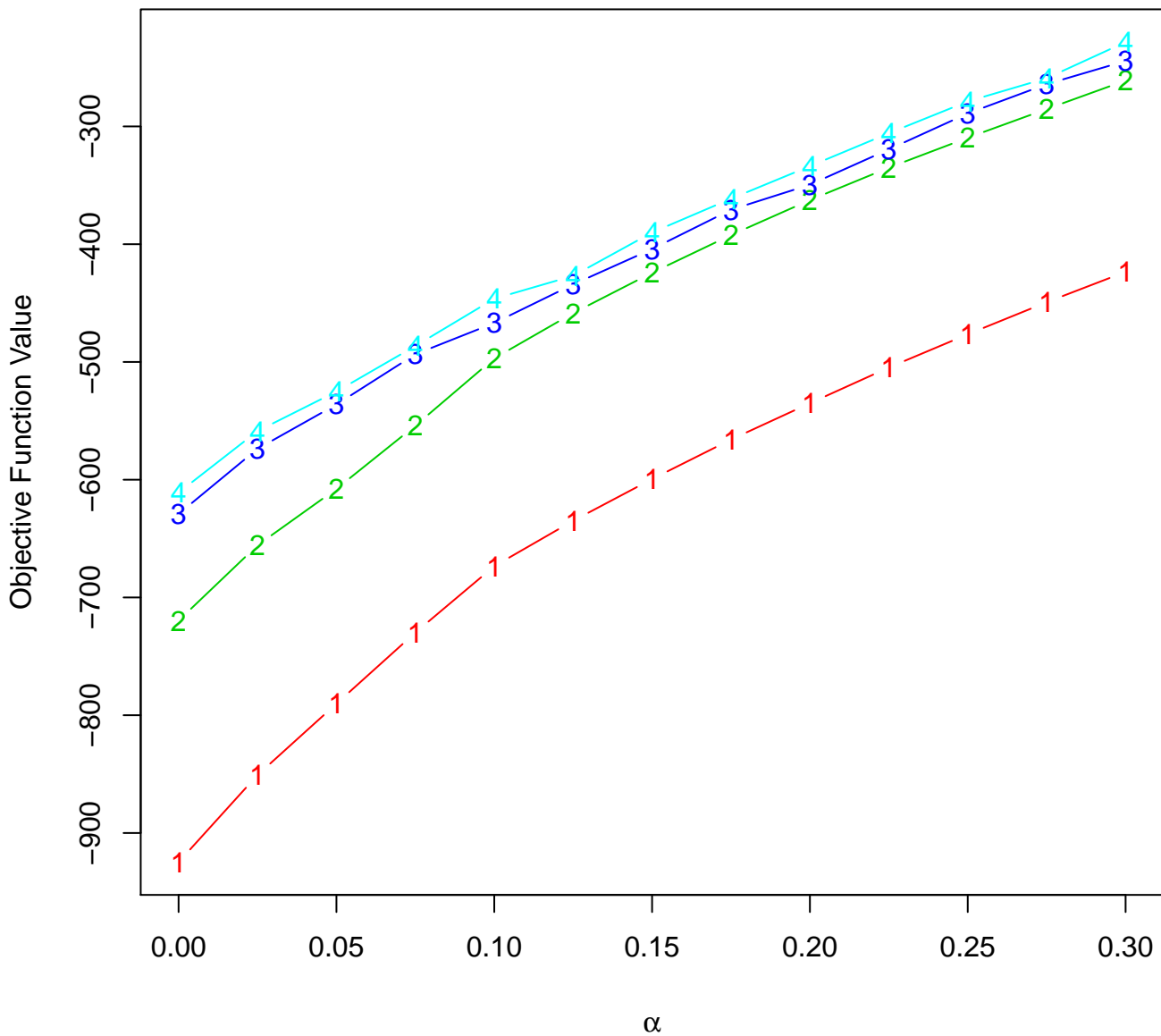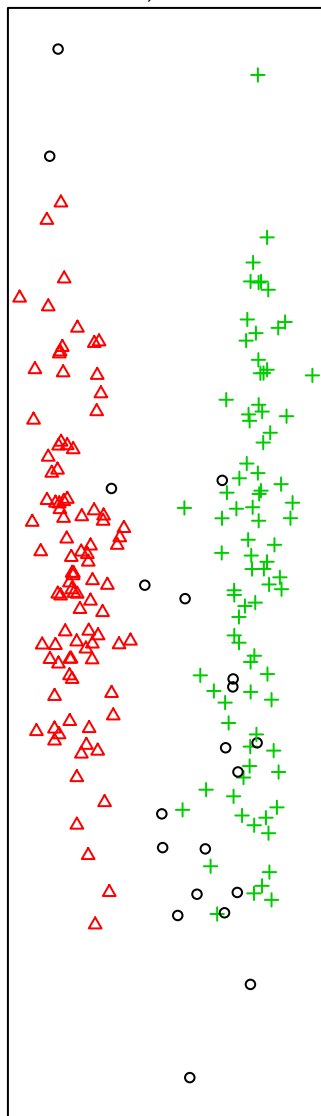Second discriminant coord.

First discriminant coord.

(b) Silhouette Plot

Mean Discriminant Factors

■ −37.26
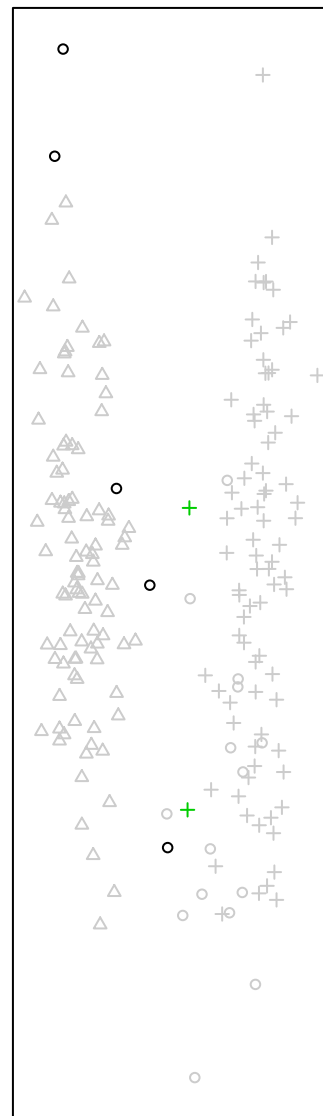■ −41.66
■ −21.94

Clusters

2

1

0

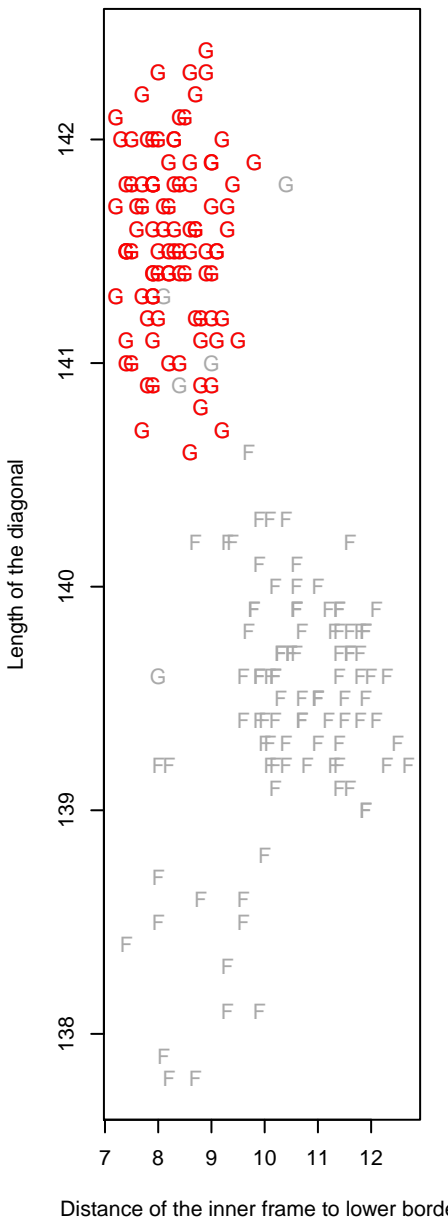−100   −60   −20   0
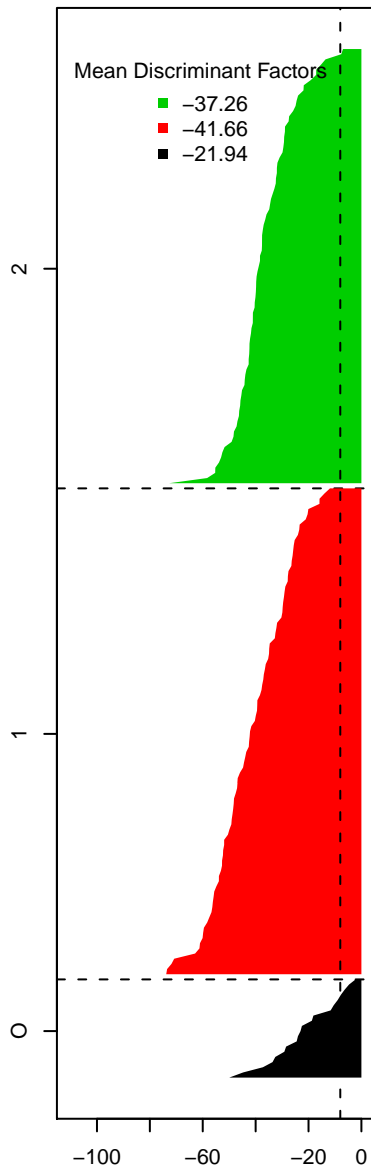
Discriminant Factor

(c) Doubtful Assignments
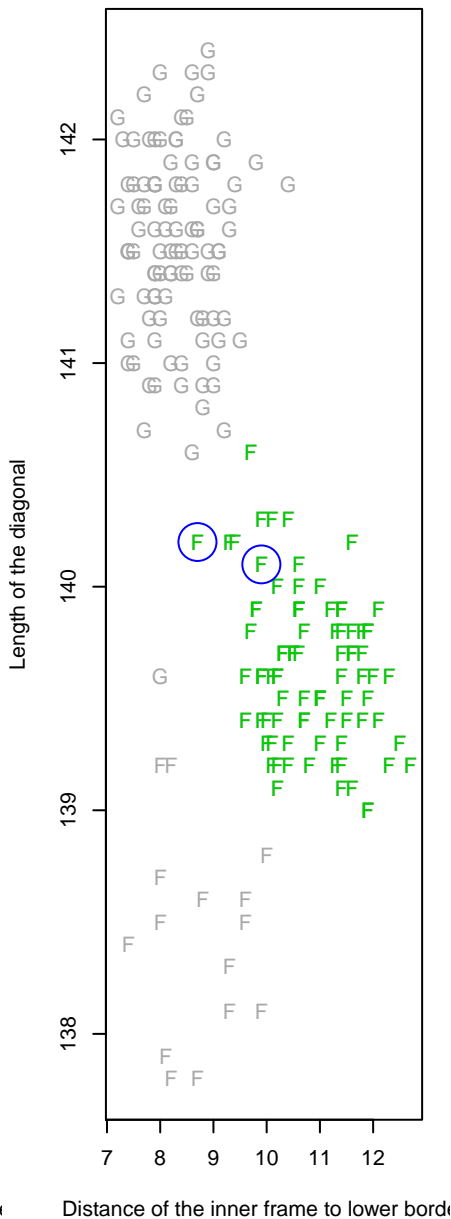
Second discriminant coord.

First discriminant coord.

(a) Cluster1 **(b) Cluster2** **(c) Trimmed**

Length of the diagonal

Distance of the inner frame to lower border