

**Description of Dataset entitled 'Nuclear and Chloroplast microsatellite and GPS data for the European beech (Fagus sylvatica L.) in Great Britain, Italy, France, and Germany.'**

Dataset filename: F.SYLVATICA\_SSR\_GPS\_DATA.xlsx

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Year dataset created: 2014

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Dataset abstract: This dataset contains fragment lengths for 13 nuclear microsatellites and three chloroplast microsatellites for European beech (*Fagus sylvatica*) collected in Great Britain, Italy, France, and Germany. The data is separated into three sheets on the excel file:

1. GB\_NUCLEAR\_SSR\_GPS\_DATA - nuclear microsatellite and GPS data from Great Britain
2. GB\_CHLOROPLAST\_SSR\_GPS\_DATA - chloroplast microsatellite and GPS data from Great Britain
3. EUROPE\_NUCLEAR\_SSR\_GPS\_DATA - nuclear microsatellite and GPS data from Italy, France, and Germany.

DNA was obtained from dried leaf or cambium samples. Column headings include sample name, site number, name and code, stand history (potential site origins as deduced from historical and palynological evidence); short (1) and long (2) fragment lengths for nuclear primers (fs1-03, fs1-15, fs3-04, fs4-46, fcm5 (Pastorelli *et al.* 2003, *Molecular Ecology Notes*, 96: 76–78), mfc7 (Tanaka *et al.* 1999, *Theoretical and Applied Climatology*, 99:11–15), mfs11 (Vornam *et al.* 2004, *Conservation Genetics*, 5: 561–570), sfc0007-2, sfc0018, sfc0036, sfc1143, sfc1061, and sfc1063 (Asuka *et al.* 2004, *Molecular Ecology Notes*, 4: 101–103); and, fragment lengths for chloroplast primers ccmp4, ccmp7 (Weising & Gardner 1999, *Genome*, 42: 9-19.), and cmcs3 (Sebastiani *et al.* 2004, *Molecular Ecology Notes*, 4: 259–261.). Samples with no peak observed for primer are marked as "NA". GPS data is given as latitude and longitude (decimal degrees), Ordnance Survey National Grid points for Great

Britain, and elevation (metres) for sites in Britain and UTM Easting and Northing for sites in continental Europe.

Description of headings for datasheet 'GB\_NUCLEAR\_SSR\_GPS\_DATA'

Heading	Description
Sample name	Sample identifier
Site number	Site identifier
Site code	Site code (first three letter of name)
Stand history	A priori designated site origins
fs3-04(1)	Short fragment length for primer fs3-04
fs3-04(2)	Long fragment length for primer fs3-04
sfc1143(1)	Short fragment length for primer sfc1143
sfc1143(2)	Long fragment length for primer sfc1143
fs4-46(1)	Short fragment length for primer fs4-46
fs4-46(2)	Long fragment length for primer fs4-46
mfc7(1)	Short fragment length for primer mfc7
mfc7(2)	Long fragment length for primer mfc7
sfc0007-2(1)	Short fragment length for primer sfc0007-2
sfc0007-2(2)	Long fragment length for primer sfc0007-2
fcm5(1)	Short fragment length for primer fcm5
fcm5(2)	Long fragment length for primer fcm5
fs1-15(1)	Short fragment length for primer fs1-15
fs1-15(2)	Long fragment length for primer fs1-15
sfc1063(1)	Short fragment length for primer sfc1063
sfc1063(2)	Long fragment length for primer sfc1063
sfc1061(1)	Short fragment length for primer sfc1061
sfc1061(2)	Long fragment length for primer sfc1061
fs1-03(1)	Short fragment length for primer fs1-03
fs1-03(2)	Long fragment length for primer fs1-03
mfs11(1)	Short fragment length for primer mfs11
mfs11(2)	Long fragment length for primer mfs11
sfc0036(1)	Short fragment length for primer sfc0036
sfc0036(2)	Long fragment length for primer sfc0036
sfc0018(1)	Short fragment length for primer sfc0018
sfc0018(2)	Long fragment length for primer sfc0018
Latitude (decimal degrees)	Latitude in decimal degrees
Longitude (decimal degrees)	Longitude in decimal degrees
Zone (National Grid UK)	OS National Grid UK Zone
Easting (National Grid UK)	OS National Grid UK Easting
Northing (National Grid UK)	OS National Grid UK Northing
Elevation (m)	Elevation

Description of headings for datasheet 'GB\_CHLOROPLAST\_SSR\_GPS\_DATA'

Heading	Description
Sample name	Sample identifier
Site number	Site identifier
Site name	Site name
Site code	Site code (first three letter of name)
Stand history	A priori designated site origins
ccmp4	Fragment length for primer ccmp4
ccmp7	Fragment length for primer ccmp7
cmcs3	Fragment length for primer cmcs3
Haplotype	Haplotype code
Latitude (decimal degrees)	Latitude in decimal degrees
Longitude (decimal degrees)	Longitude in decimal degrees
Zone (National Grid UK)	OS National Grid UK Zone
Easting (National Grid UK)	OS National Grid UK Easting
Northing (National Grid UK)	OS National Grid UK Northing
Elevation (m)	Elevation

Description of headings for datasheet 'EUROPE\_NUCLEAR\_SSR\_GPS\_DATA'

Heading	Description
Sample Name	Sample identifier
Site name	Site identifier
Site code	A priori designated site origins
fs3-04(1)	Short fragment length for primer fs3-04
fs3-04(2)	Long fragment length for primer fs3-04
sfc1143(1)	Short fragment length for primer sfc1143
sfc1143(2)	Long fragment length for primer sfc1143
mfc7(1)	Short fragment length for primer mfc7
mfc7(2)	Long fragment length for primer mfc7
sfc0007-2(1)	Short fragment length for primer sfc0007-2
sfc0007-2(2)	Long fragment length for primer sfc0007-2
sfc1063(1)	Short fragment length for primer sfc1063
sfc1063(2)	Long fragment length for primer sfc1063
sfc1061(1)	Short fragment length for primer sfc1061
sfc1061(2)	Long fragment length for primer sfc1061
fs1-03(1)	Short fragment length for primer fs1-03
fs1-03(2)	Long fragment length for primer fs1-03
mfs11(1)	Short fragment length for primer mfs11
mfs11(2)	Long fragment length for primer mfs11
sfc0036(1)	Short fragment length for primer sfc0036
sfc0036(2)	Long fragment length for primer sfc0036
sfc0018(1)	Short fragment length for primer sfc0018
sfc0018(2)	Long fragment length for primer sfc0018
Easting (UTM)	Easting UTM (WGS84)
Northing (UTM)	Northing UTM (WGS84)
Zone (UTM)	Zone UTM (WGS84)