

## Loading HOST data onto Arc/Info

Example for a rectangle of 5 columns by 2 rows of SW corner 500 km, 400 km.

The following describes both (i) the files giving the percentage distribution (\_items.one and \_items.two) and (ii) the file giving the dominant class (\_dom). Normally you will have either (i) or (ii), but not both.

### file: host\_classes\_xy

**description:** a matrix of all the 1km squares (each identified by its grid reference e.g. 3010601 for 301 km E, 601 km N) in Arc/Info gridascii format.

#### example:

```
NCOLS 5
NROWS 2
XLRCORNER 500000
YLLCORNER 400000
CELLSIZE 1000
NODATA_VALUE -1
    5000401    5010401    5020401    5030401    5040401
    5000400    5010400    5020400    5030400    5040400
END
```

### file: host\_classes\_dom

**description:** a file containing one record for each of the 1 km squares, giving the dominant HOST class.

#### example:

```
5000400, 9
5000401, 9
5010400, 9
5010401, 9
5020400, 25
5020401, 25
5030400, 25
5030401, 24
5040400, 24
5040401, 24
```

### file: host\_classes\_items.one

**description:** a file containing one record for each of the 1 km squares, giving the percentage of the square occupied by HOST classes 1 to 15.

#### example:

```
5000400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 90, 4, 6, 0, 0, 0, 0
5000401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 100, 0, 0, 0, 0, 0, 0
5010400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 53, 19, 28, 0, 0, 0, 0
5010401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 58, 8, 11, 0, 0, 0, 0
5020400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 19, 7, 11, 0, 0, 0, 0
5020401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 3, 5, 0, 0, 0, 0
5030400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0
5030401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5040400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5040401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
```

### file: host\_classes\_items.two

**description:** a file containing one record for each of the 1 km squares, giving the percentage of the square occupied by HOST classes 16 to 29 and 98 (lake) and 99 (unclassified).

**example:**

```
5000400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5000401, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5010400, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5010401, 0, 0, 0, 0, 4, 0, 0, 2, 0, 17, 0, 0, 0, 0, 0, 0
5020400, 0, 0, 0, 0, 11, 0, 0, 7, 0, 45, 0, 0, 0, 0, 0, 0
5020401, 0, 0, 0, 0, 14, 0, 0, 9, 0, 61, 0, 0, 0, 0, 0, 0
5030400, 0, 0, 0, 0, 11, 0, 0, 7, 33, 46, 0, 0, 0, 0, 0, 0
5030401, 0, 0, 0, 0, 7, 0, 0, 4, 61, 28, 0, 0, 0, 0, 0, 0
5040400, 0, 0, 0, 0, 0, 0, 0, 0, 100, 0, 0, 0, 0, 0, 0, 0
5040401, 0, 0, 0, 0, 0, 0, 0, 0, 99, 1, 0, 0, 0, 0, 0, 0
```

The following example shows how to create an Arc/Info grid from the two \_items files and the \_xy matrix.

```
Arc: asciigrid host_classes_xy host_grid

Arc: grid
Grid: buildvat host_grid
Grid: q

Arc: tables
Enter Command: define HOST_GRID_ONE
1
Item Name: VALUE,4,10,B
5
Item Name: HOSTCODE1,4,4,I
9
Item Name: HOSTCODE2,4,4,I
13
Item Name: HOSTCODE3,4,4,I
17
Item Name: HOSTCODE4,4,4,I
21
Item Name: HOSTCODE5,4,4,I
25
Item Name: HOSTCODE6,4,4,I
29
Item Name: HOSTCODE7,4,4,I
33
Item Name: HOSTCODE8,4,4,I
37
Item Name: HOSTCODE9,4,4,I
41
Item Name: HOSTCODE10,4,4,I
45
Item Name: HOSTCODE11,4,4,I
49
Item Name: HOSTCODE12,4,4,I
53
Item Name: HOSTCODE13,4,4,I
57
Item Name: HOSTCODE14,4,4,I
61
Item Name: HOSTCODE15,4,4,I
65
Item Name:

Enter Command: add from host_classes_items.one

Enter Command: define HOST_GRID_TWO
1
Item Name: VALUE,4,10,B
5
Item Name: HOSTCODE16,4,4,I
9
Item Name: HOSTCODE17,4,4,I
13
```

```

Item Name: HOSTCODE18,4,4,I
17
Item Name: HOSTCODE19,4,4,I
21
Item Name: HOSTCODE20,4,4,I
25
Item Name: HOSTCODE21,4,4,I
29
Item Name: HOSTCODE22,4,4,I
33
Item Name: HOSTCODE23,4,4,I
37
Item Name: HOSTCODE24,4,4,I
41
Item Name: HOSTCODE25,4,4,I
45
Item Name: HOSTCODE26,4,4,I
49
Item Name: HOSTCODE27,4,4,I
53
Item Name: HOSTCODE28,4,4,I
57
Item Name: HOSTCODE29,4,4,I
61
Item Name: HOSTCODE98,4,4,I
65
Item Name: HOSTCODE99,4,4,I
69
Item Name:

Enter Command: add from host_classes_items.two

Enter Command: q

Arc: joinitem host_grid.vat host_grid_one host_grid.vat value count

Arc: joinitem host_grid.vat host_grid_two host_grid.vat value hostcode15

```

Institute of Hydrology, 16 July 1998