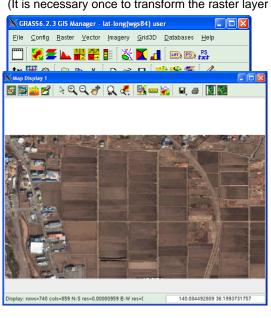
7 Extract Attribute Value at given POINT.

The way how to convert the information loaded as a raster layer to the attribute of a vector layer and save into a table of PostgreSQL is described.

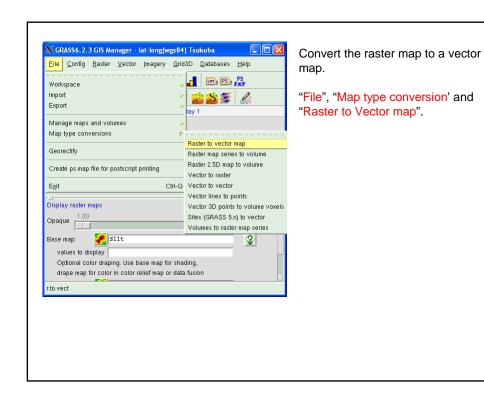
- 7.1 Transform Raster layer to Vector layer (POLYGON) using GRASS.
- 7.2 Export the transformed Vector layer (POLYGON) to PostgreSQL and POINT data to which the attributes values will be allocated.
- 7.3 Add column to POINT data to store the attributes values.
- 7.4 Store the attributes values into the added column using PostGIS function.

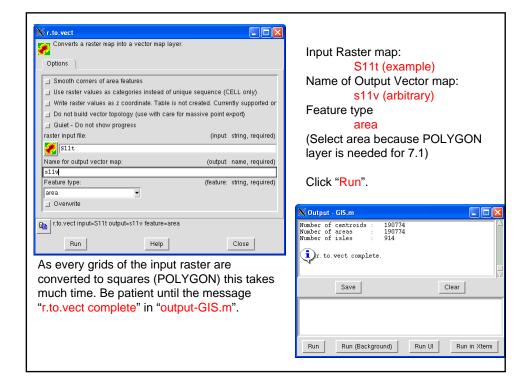


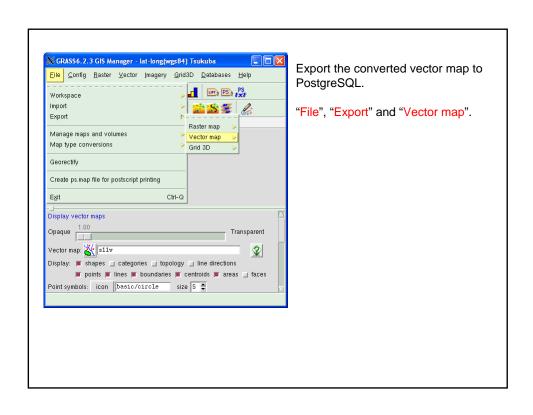
7.1 Transform Raster layer to Vector layer (POLYGON) using GRASS. (It is necessary once to transform the raster layer to a vector layer (POLYGON)).

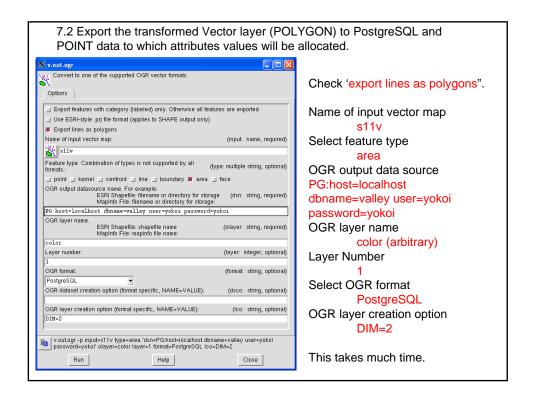
Open GRASS with LOCATION=latlon(wgs84), MAPSET=Tsukuba.

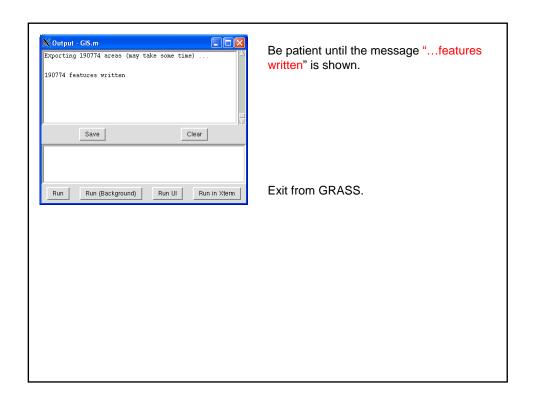
Display the raster "s11t".

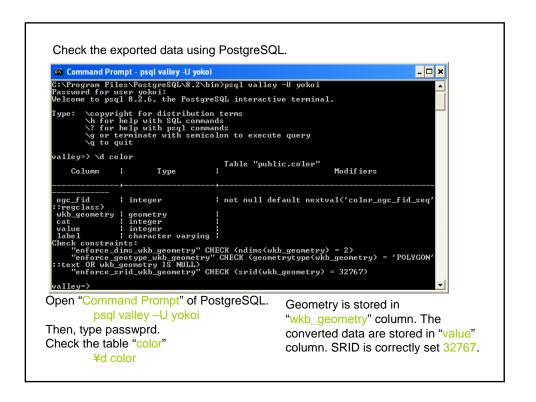


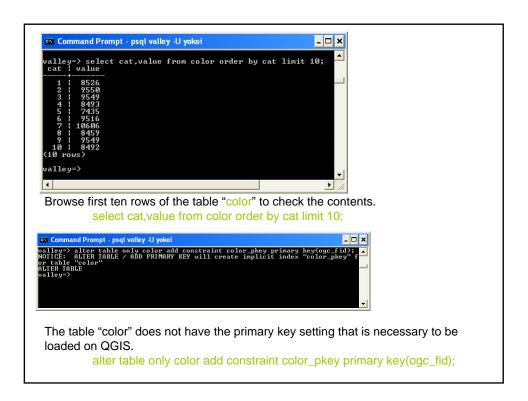


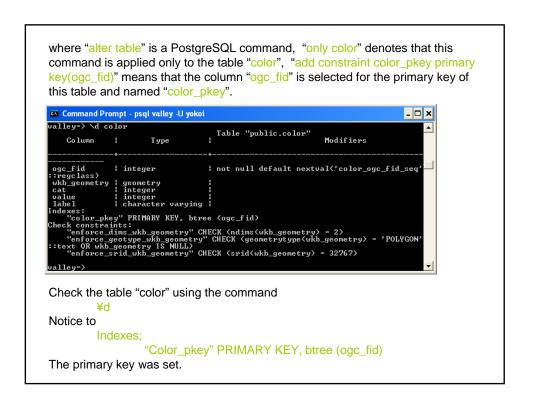


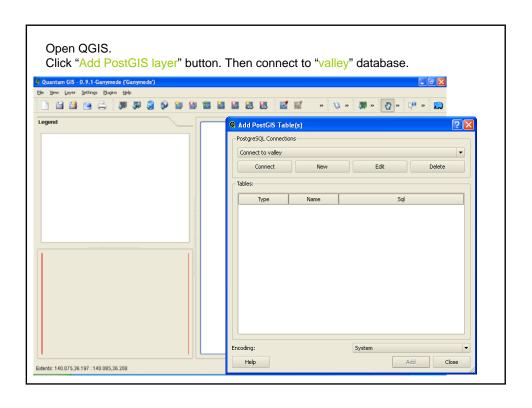


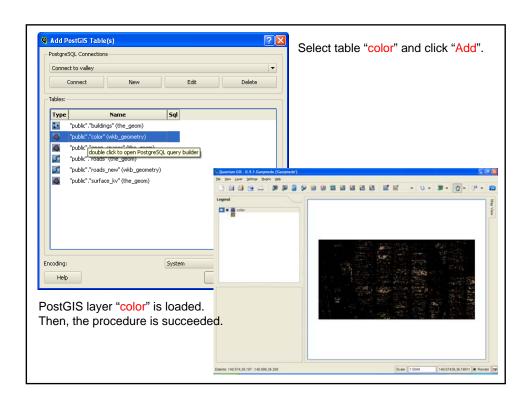












Make a POINT data layer (if you have target POINT data layer already, this procedure can be skipped) Add new table "obspoints" in the database "valley". This procedure has been described in "2_creating_vecor_layer.ppt". Copy the sql batch file "D:/batch_sql/mkpoint.sql" to "C:/TEMP/mkvalley.sql". Edit "C:/TEMP/mkvalley.sql" using WordPad as shown below. CREATE TABLE obspoints (id1 integer NOT NULL, CONSTRAINT obspoints_pkey PRIMARY KEY (id1)) WITHOUT OIDS; ALTER TABLE obspoints OWNER TO yokoi; select AddGeometryColumn('obspoints', 'the_geom', 32767, 'POINT', 2); where the changed parts are shown blue, SRID "32767" is set as same as that of the table "color". Execute the sql batch file "C:/TEMP/mkvalley.sql" using "¥i" command. ¥i C:/TEMP/mkvalley.sql Command Prompt - psql valley -U yokoi _ 🗆 🗙 ey=> ey=> \i C:/TEMP/mkvalley.sql :C:/TEMP/mkvalley.sql:1: NOTICE: CREATE TABLE / PRIMARY KEY will create imp t index "obspoints_pkey" for table "obspoints" addgeometrycolumn public.obspoints.the_geom SRID:32767 TYPE:POINT DIMS:2 (1 row) alley=> _

