

2.

raster2pgsql -e \* rasters.uk\_250k | psql -d postgis\_raster -h localhost -U postgres -p 5432

3.

```
231 ❗ select st_asgdalraster( rast: st_union(rast), format: 'GTiff') as rastgtiff from rasters.uk_250k uk limit 2
```

uk

```
[XX000] ERROR: invalid memory alloc request size 1152000000
```

5.

ogr2ogr -f "ESRI Shapefile" .temp.shp OS\_Open\_Zoomstack.gpkg

shp2pgsql -e national\_parks.shp public.uk\_lakes\_district | psql postgis\_raster -h localhost -U postgres -p 5432

6.

```
-- create table uk_lake_district as
-- select st_union(st_clip( rast: uk.rast, geom: uld.geom))
-- from rasters.uk_250k uk
-- inner join public.uk_lakes_district uld on st_intersects( geog1: uld.geom, geog2: uk.rast)
-- where uld.gid = 1;
```

7 problemy z gdal

```
262 ❗ CREATE TABLE tmp_out AS
263 SELECT lo_from_bytea(0,
264 ST_AsGDALRaster( rast: ST_Union(st_clip( rast: uk.rast, geom: uld.geom)), format: 'GTiff', options: ARRAY['COMPRESS=DEFLATE',
265 PREDICTOR=2', 'PZLEVEL=9']))
266 ) AS loid
267 from rasters.uk_250k uk inner join public.uk_lakes_district uld on st_intersects( geog1: uld.geom, geog2: uk.rast) where uld.gid = 1;
268 SELECT lo_export(loid, 'national_park.tiff') FROM tmp_out;
269 SELECT lo_unlink(loid)
270 FROM tmp_out;
```

```
[XX000] ERROR: rt_raster_to_gdal: Could not load the output GDAL driver
```

9.

raster2pgsql -e -t 8192x8192 \* rasters.sentinel | psql -d postgis\_raster -h localhost -U postgres -p 5432

10.

```

234 ✓ CREATE TABLE public.ndvi AS
235 WITH r AS (
236   select st_clip(rast: s.rast, geom: st_Transform(uld.geom , 32630)) as rast
237   from rasters.sentinel s
238   inner join public.uk_lakes_district uld on st_intersects( geom1: st_Transform(uld.geom , 32630), geom2: s.rast) where uld.gid = 1
239 )
240 SELECT
241   ST_MapAlgebra(
242     rastbandargset: r.rast, callbackfunc: 1,
243     pixeltype: r.rast, extenttype: 4,
244     customextent: '([rast2.val] - [rast1.val]) / ([rast2.val] +
245     [rast1.val])::float', distancex: '32BF'
246   ) AS rast
247 FROM r

```

11. Nie próbuje, ponieważ w zadaniu 7 nie zadziałało