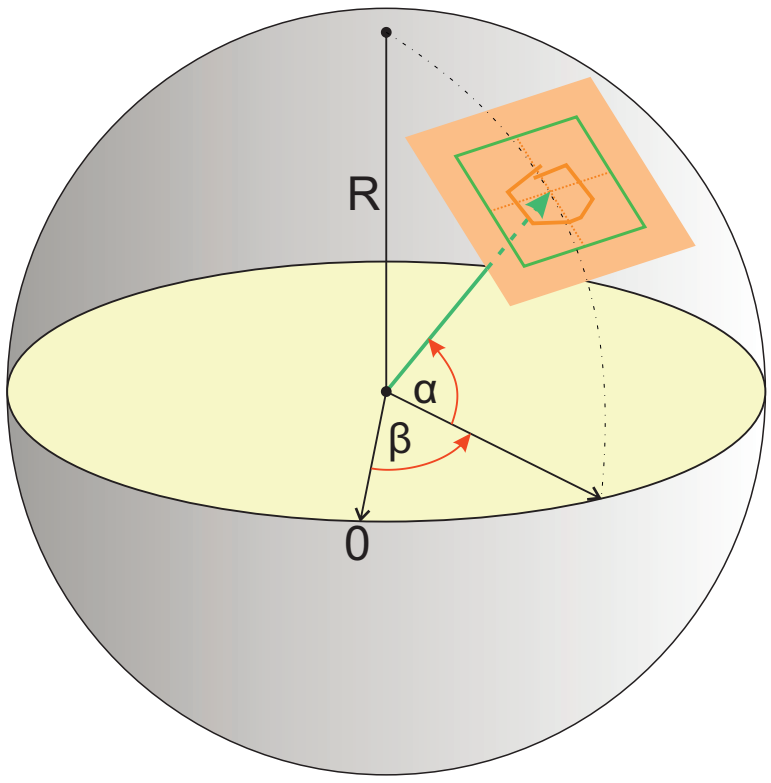
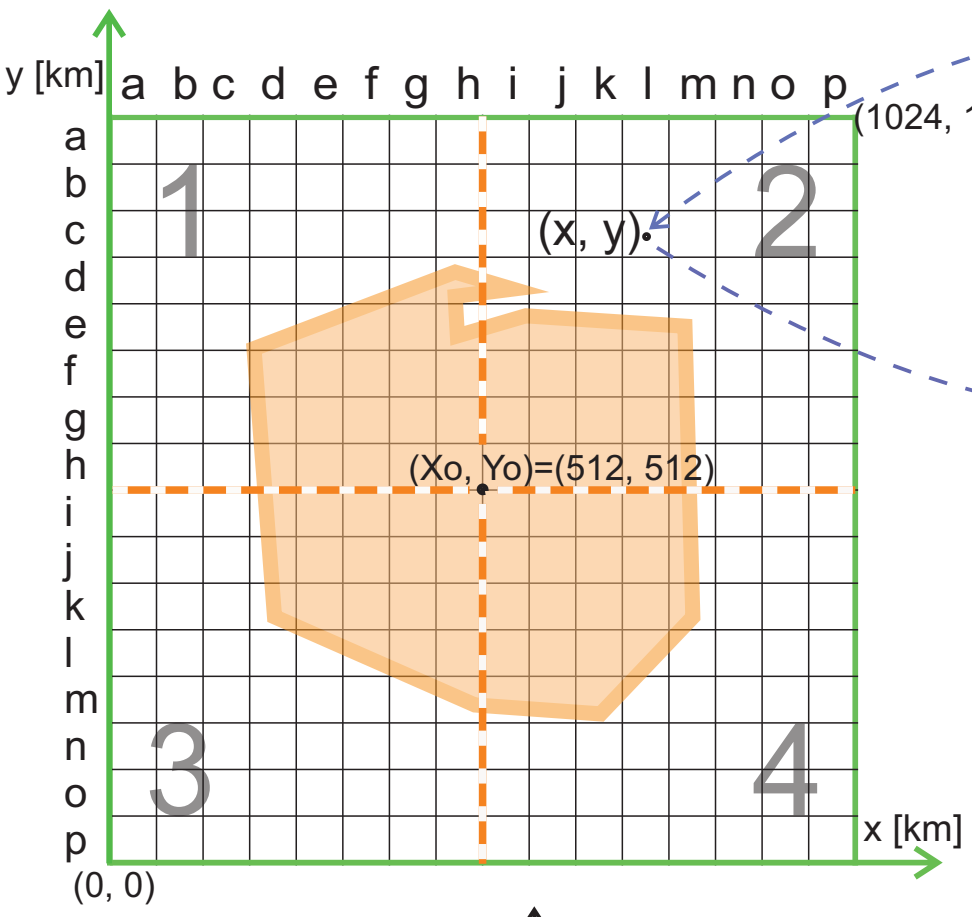
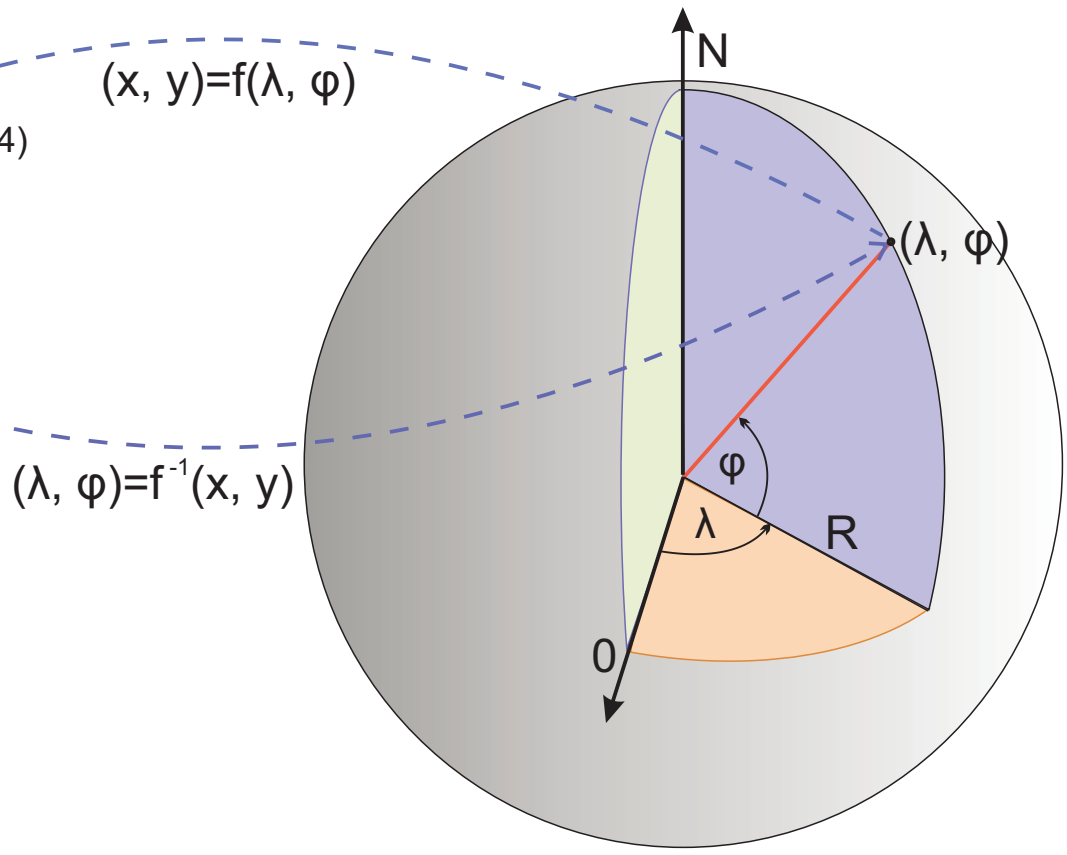
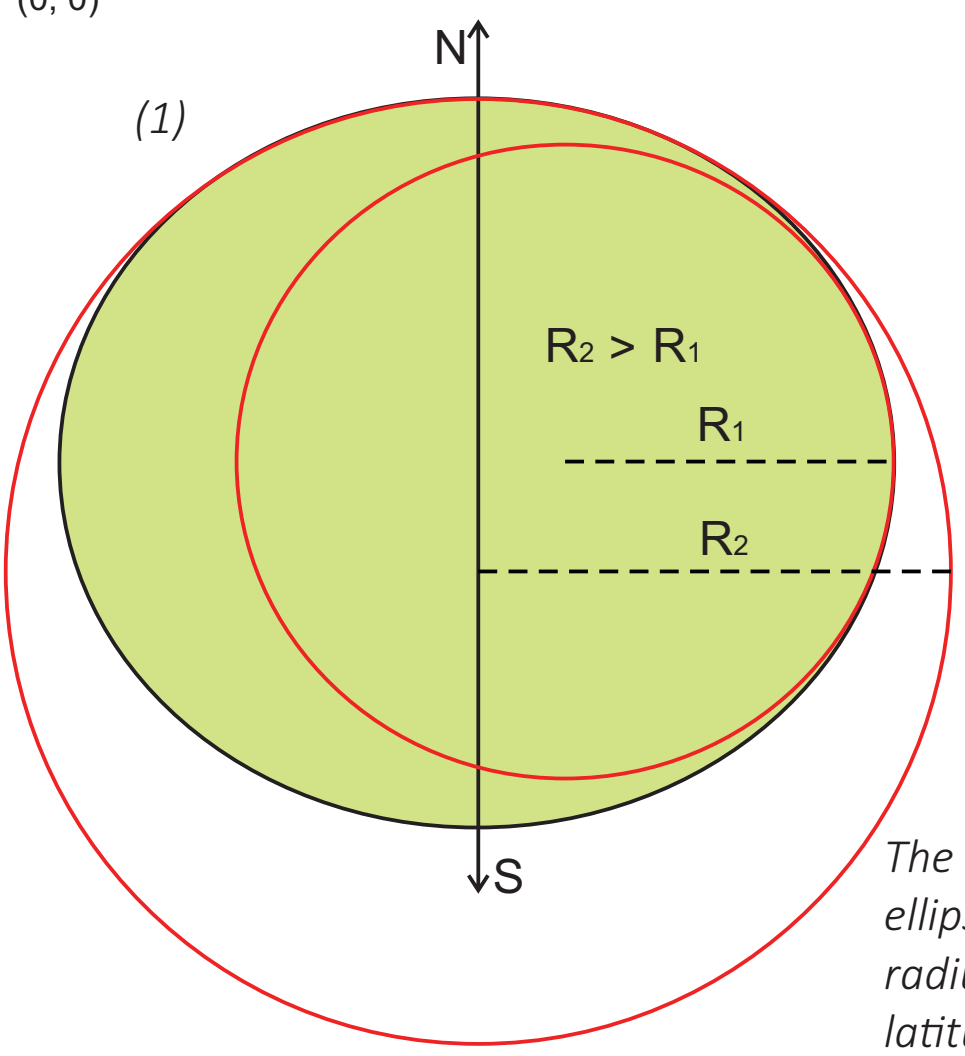
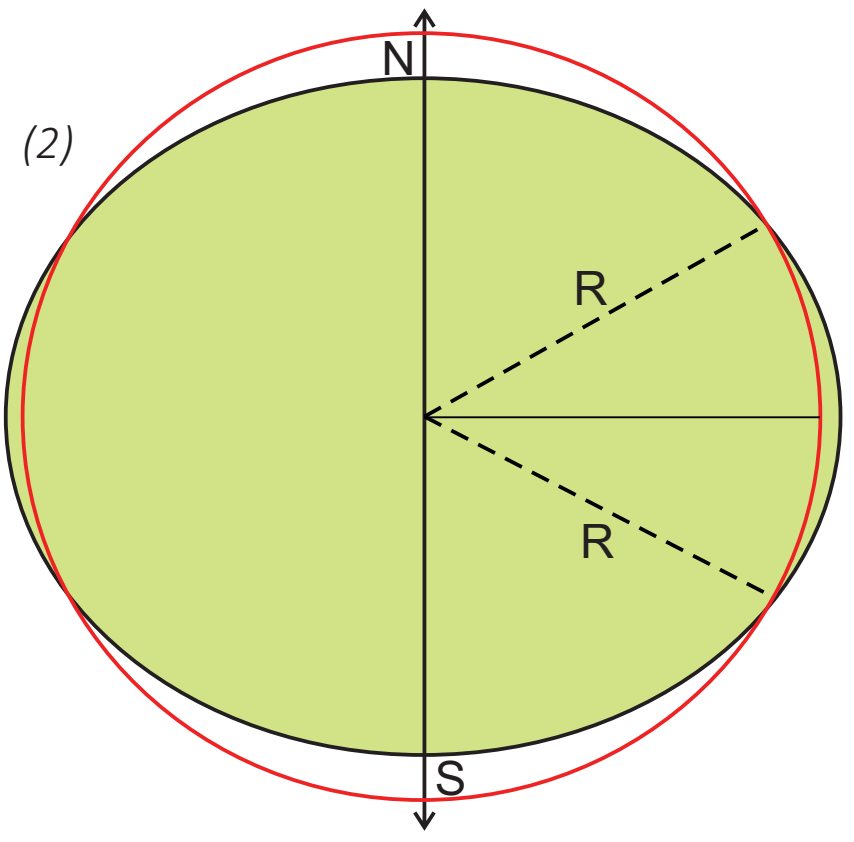


The WorldBiG binary grid is defined by the Lambert azimuthal transformation formula with the following parameters: α, β, Xo, Yo, R
For example:
α = 52° [latitude]
β = 19° [longitude]
Xo = Yo = 512 [kilometres]
R = 6371 [kilometres]
for the PolBiG grid adopted in Poland









The curvature of the ball adapts to the surface of the ellipsoid, therefore the radius R is variable (1). The average radius R = 6371 km is best adapted for a 35 degree N or S latitude (2). Both options are included in the programme.

How to divide and label WorldBiG grid? Illustration of the method:

1

1	2
3	4

2

11	12	21	22
13	14	23	24
31	32	41	42
33	34	43	44

3

111	112	121	122	211	212	221	222
113	114	123	124	213	214	223	224
131	132	141	142	231	232	241	242
133	134	143	144	233	234	243	244
311	312	321	322	411	412	421	422
313	314	323	324	413	414	423	424
331	332	341	342	431	432	441	442
333	334	343	344	433	434	443	444