

```
# load data
ids, lat, lon, temp = np.loadtxt(
    os.path.join("../", "data", "temp_obs.txt")).T
# estimate lat-lon variogram
bins = gs.standard_bins(
    (lat, lon), max_dist=np.deg2rad(8), latlon=True)
bin_c, vario = gs.vario_estimate(
    (lat, lon), temp, bin_edges=bins, latlon=True)
# fit geographical model (no nugget)
mod = gs.Spherical(latlon=True, rescale=gs.EARTH_RADIUS)
mod.fit_variogram(bin_c, vario, nugget=False)
# plot yadrenko variogram and estimated variogram
ax = mod.plot("vario_yadrenko", x_max=max(bin_c))
ax.scatter(bin_c, vario)
```

