```json
{
  "version":"0.2",
  "cross section":[[0,0],[10,0]],
  "features":
  [
    // defining the oceanic plate
    {
      "model":"oceanic plate", "name":"oceanic plate",
      "coordinates":[[-1,-1],[11.5,-1],[11.5,1],[-1,1]],
      "temperature models":
      [
        {"model":"plate model", "max depth":95e3, "bottom temperature":1600,
         "spreading velocity":0.005,
         "ridge coordinates":[[1,-1],[1,1]]}
      ],
      "composition models":
      [
        {"model":"uniform", "compositions":[0], "max depth":10e3},
        {"model":"uniform", "compositions":[1], "min depth":10e3,
         "max depth":95e3}
      ]
    },
    // defining a continental plate
    {
      "model":"continental plate", "name":"continental plate",
      "coordinates":[[11.5,-1],[21,-1],[21,1],[11.5,1]],
      "temperature models":
      [
        {"model":"linear", "max depth":95e3, "bottom temperature":1600}
      ],
      "composition models":
      [
        {"model":"uniform", "compositions":[2], "max depth":30e3},
        {"model":"uniform", "compositions":[3], "min depth":30e3,
         "max depth":65e3}
      ]
    },
    // defining the upper mantle
    {
      "model":"mantle layer", "name":"upper mantle",
      "min depth":95e3, "max depth":660e3,
      "coordinates":[[-1,-1],[21,-1],[21,1],[-1,1]],
      "temperature models":
      [
        {"model":"linear", "min depth":95e3, "max depth":660e3,
         "top temperature":1600, "bottom temperature":1820}
      ],
      "composition models":[{"model":"uniform", "compositions":[4]}]
    },
    // defining the lower mantle
    {
      "model":"mantle layer", "name":"lower mantle",
      "min depth":660e3, "max depth":1160e3,
      "coordinates":[[-1,-1],[21,-1],[21,1],[-1,1]],
      "temperature models":
      [
        {"model":"linear", "min depth":660e3, "max depth":1160e3,
         "top temperature":1820, "bottom temperature":2000}
      ],
      "composition models":[{"model":"uniform", "compositions":[5]}]
    },
    // defining the subducting plate dipping towards the continental plate
    {
      "model":"subducting plate", "name":"Subducting plate",
      "coordinates":[[[11.5,-1],[11.5,1]], "dip point":[20,0],
      "segments":[{"length":200e3, "thickness":[95e3], "angle":[0,45]},
                  {"length":200e3, "thickness":[95e3], "angle":[45]},
                  {"length":200e3, "thickness":[95e3], "angle":[45,0]},
                  {"length":100e3, "thickness":[95e3], "angle":[0]}],
      "temperature models":

        {"model":"plate model", "density":3300, "plate velocity":0.01 }
      ],
      "composition models":
      [
        {"model":"uniform", "compositions":[0], "max distance slab top":10e3},
        {"model":"uniform", "compositions":[1], "min distance slab top":10e3,
         "max distance slab top":95e3 }
      ]
    }
  ]
}
```