

```

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2   "version": "0.2",
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6     // defining the oceanic plate
7     {
8       "model": "oceanic plate", "name": "oceanic plate",
9       "coordinates": [[-1,-1],[11.5,-1],[11.5,1],[-1,1]],
10      "temperature models":
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13         "spreading velocity": 0.005,
14         "ridge coordinates": [[1,-1],[1,1]]
15      ],
16      "composition models":
17      [
18        {"model": "uniform", "compositions": [0], "max depth": 10e3},
19        {"model": "uniform", "compositions": [1], "min depth": 10e3,
20         "max depth": 95e3}
21      ]
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23    // defining a continental plate
24    {
25      "model": "continental plate", "name": "continental plate",
26      "coordinates": [[11.5,-1],[21,-1],[21,1],[11.5,1]],
27      "temperature models":
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29        {"model": "linear", "max depth": 95e3, "bottom temperature": 1600}
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31      "composition models":
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34        {"model": "uniform", "compositions": [3], "min depth": 30e3,
35         "max depth": 65e3}
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38    // defining the upper mantle
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40      "model": "mantle layer", "name": "upper mantle",
41      "min depth": 95e3, "max depth": 660e3,
42      "coordinates": [[-1,-1],[21,-1],[21,1],[-1,1]],
43      "temperature models":
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45        {"model": "linear", "min depth": 95e3, "max depth": 660e3,
46         "top temperature": 1600, "bottom temperature": 1820}
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48      "composition models": [{"model": "uniform", "compositions": [4]}]
49    },
50    // defining the lower mantle
51    {
52      "model": "mantle layer", "name": "lower mantle",
53      "min depth": 660e3, "max depth": 1160e3,
54      "coordinates": [[-1,-1],[21,-1],[21,1],[-1,1]],
55      "temperature models":
56      [
57        {"model": "linear", "min depth": 660e3, "max depth": 1160e3,
58         "top temperature": 1820, "bottom temperature": 2000}
59      ],
60      "composition models": [{"model": "uniform", "compositions": [5]}]
61    },
62    // defining the subducting plate dipping towards the continental plate
63    {
64      "model": "subducting plate", "name": "Subducting plate",
65      "coordinates": [[[11.5,-1],[11.5,1]], "dip point": [20,0],
66      "segments": [{"length": 200e3, "thickness": [95e3], "angle": [0,45]},
67                  {"length": 200e3, "thickness": [95e3], "angle": [45]},
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69                  {"length": 100e3, "thickness": [95e3], "angle": [0]}],
70      "temperature models":
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72        {"model": "plate model", "density": 3300, "plate velocity": 0.01 }
73      ],
74      "composition models":
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76        {"model": "uniform", "compositions": [0], "max distance slab top": 10e3},
77        {"model": "uniform", "compositions": [1], "min distance slab top": 10e3,
78         "max distance slab top": 95e3 }
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81  ]
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