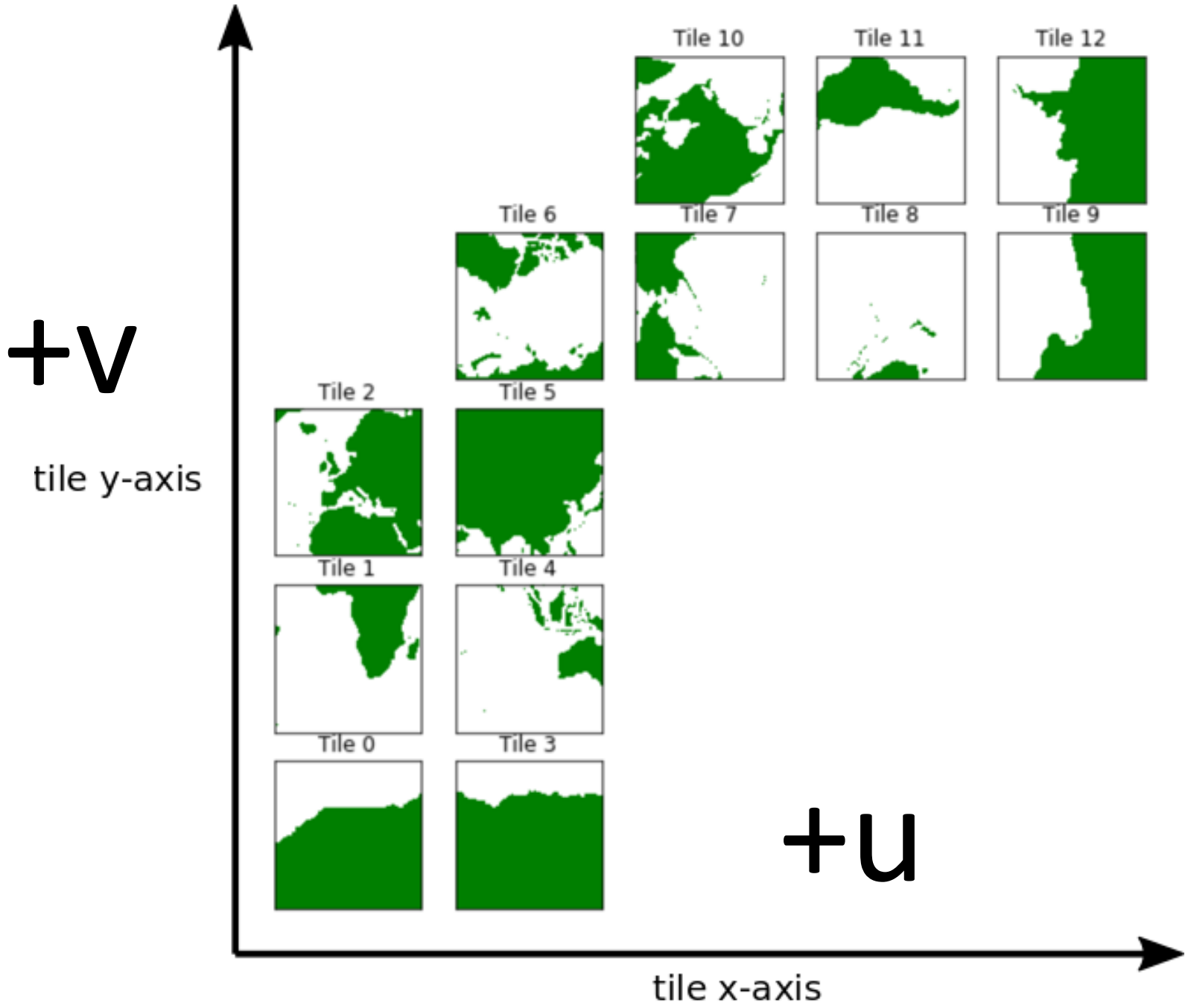
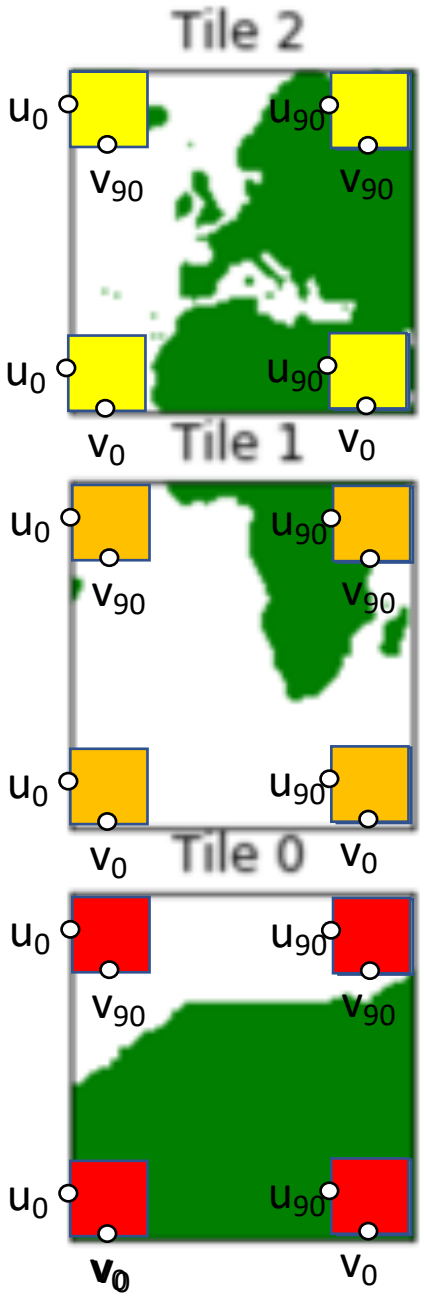
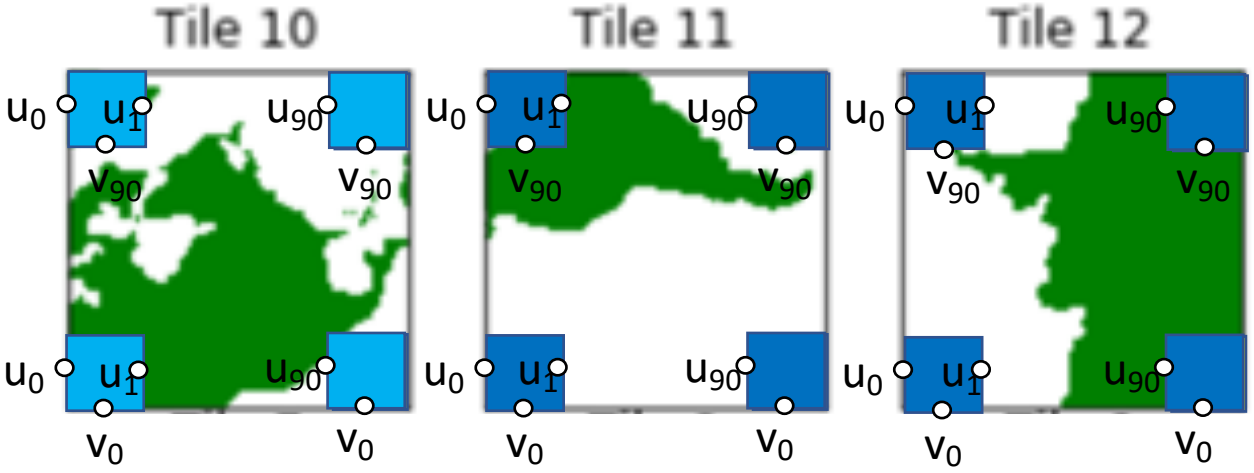
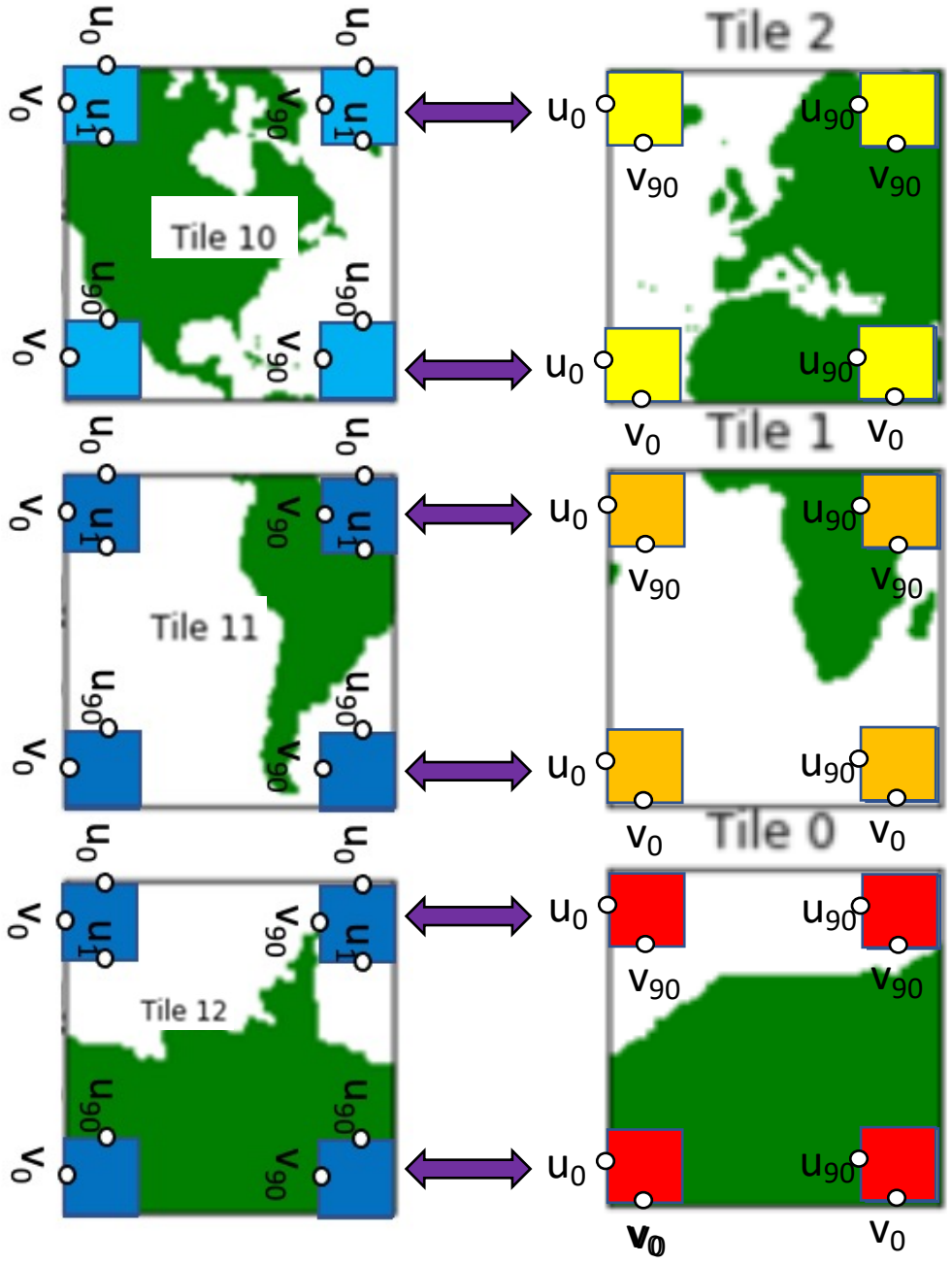

+v
tile y-axis
Tile 10
Tile 11
Tile 12
Tile 6
Tile 7
Tile 8
Tile 9
Tile 2
Tile 5
Tile 1
Tile 4
Tile 0
Tile 3
+u
tile x-axis





”u” points on ‘west’ side of cell
”v” points on ‘south’ side of cell

First ‘u’ point for tiles 10-12 are on geographic NORTH side of cell
First ‘v’ point for tiles 0-2 are on the geographic SOUTH side of cell



Note: there is NO v_{91} point corresponding to the geographic NORTH side of Tile 2. In contrast, in Tile 10 the u_0 values from are on the geographic NORTH side of those grid cells.

"v" arrays (like VVELMASS) on the llc90 grid start counting from the geographic SOUTH side in tiles 0-2. The tiles are arrays with 90x90 grid cells. In Tile 2, the "v_{91}" point corresponding to the geographic NORTH side is located on the Arctic "Cap" (u_0 values)

When combining these faces, be careful to match up
1) $\mathbf{u_1}$ from Tile [10,11,12] with $\mathbf{v_{90}}$ from Tile [2, 1, 0]
2) $\mathbf{u_0}$ from Tile [11,12] with $\mathbf{v_0}$ from Tile [2,1]
3) $\mathbf{u_{90}}$ from Tile [10,11,12] with $\mathbf{v_1}$ from Tile [2,1,0]

Do not match u_0 from Tile 10 with v_{90} from Tile 2!