## **HYCOM Horizontal Mesh**

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Both HYCOM and MICOM use the "C" grid, but use different horizontal meshes. In the MICOM mesh, the positive x direction was southward and the positive y direction was eastward. The HYCOM mesh was converted to standard Cartesian coordinates, with the x axis pointing eastward and the y axis pointing northward. The HYCOM mesh is illustrated below for pressure (P), velocity component (U and V), and vorticity (Q) grid points. This case is for 7 x 7 pressure grid points. The grid meshes for the other variables have 8 x 8 grid points. All fields in this case would be dimensioned 8 x 8, with the eighth row and column unused for variables on pressure grid points.

Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q
U	P	U	P	U	P	U	P	U	P	U	P	U	P	U
Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q