(1) The SSH values of all of the pixels are above (below) a given SSH threshold for anticyclonic (cyclonic) eddies.

(2) There are at least 8 pixels and fewer than 1000 pixels comprising the connected region.

(3) There is at least one local maximum (minimum) of SSH for anticyclonic (cyclonic) eddies.

(4) The amplitude of the eddy is at least 1 cm (see below).

(5) The distance between any pair of points within the connected region must be less than a specified maximum.