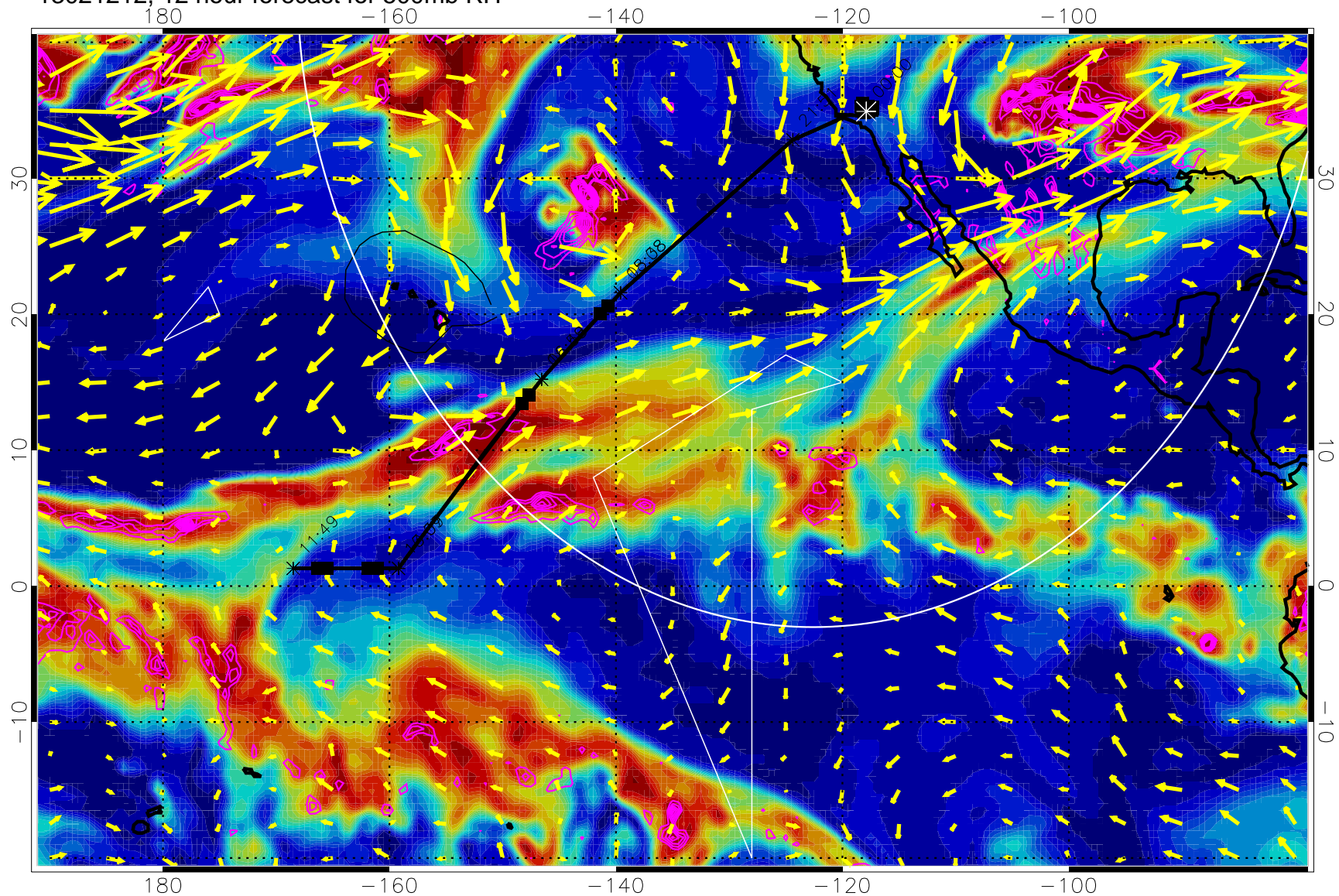


13021212, 12 hour forecast for 500mb RH



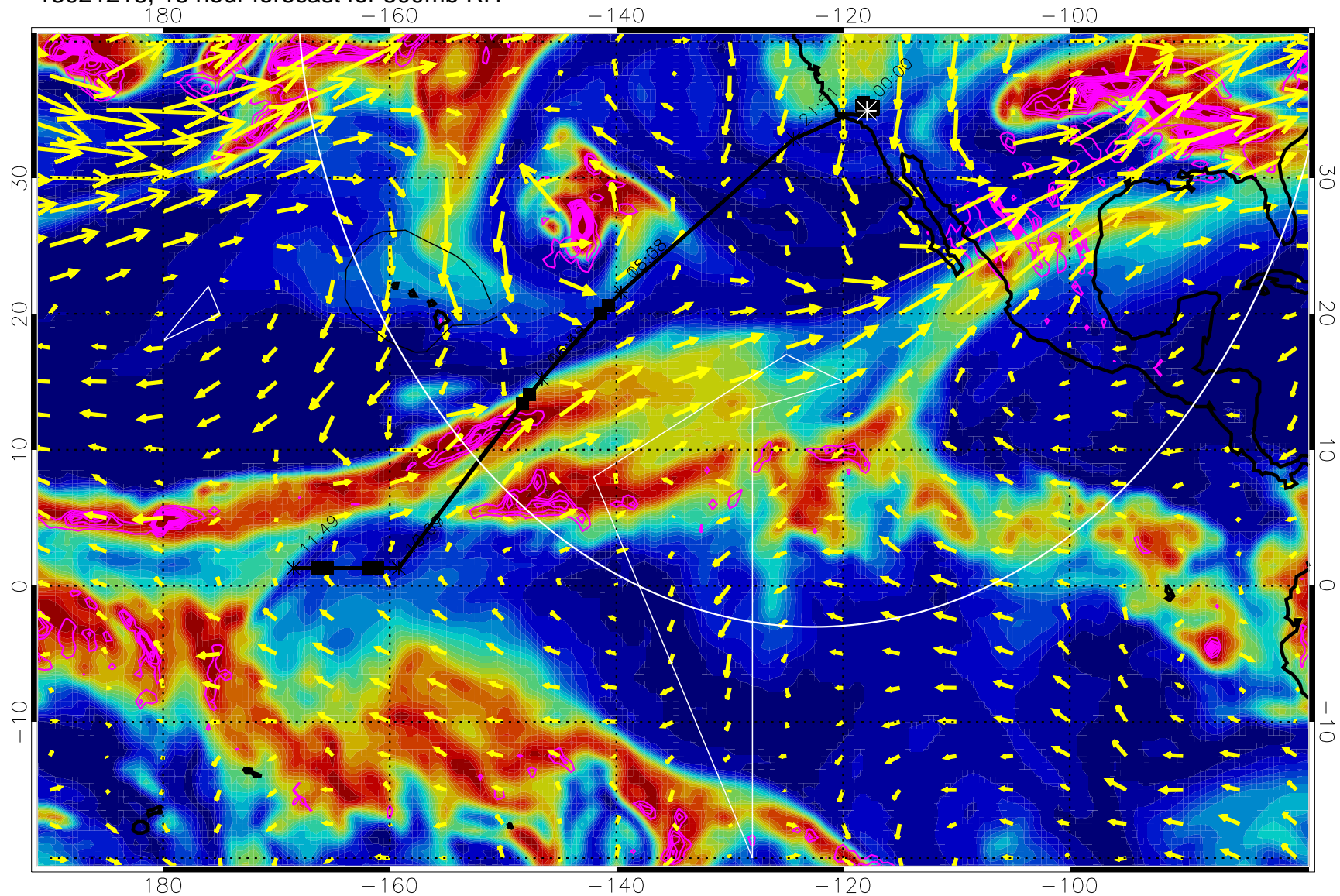
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021218, 18 hour forecast for 500mb RH



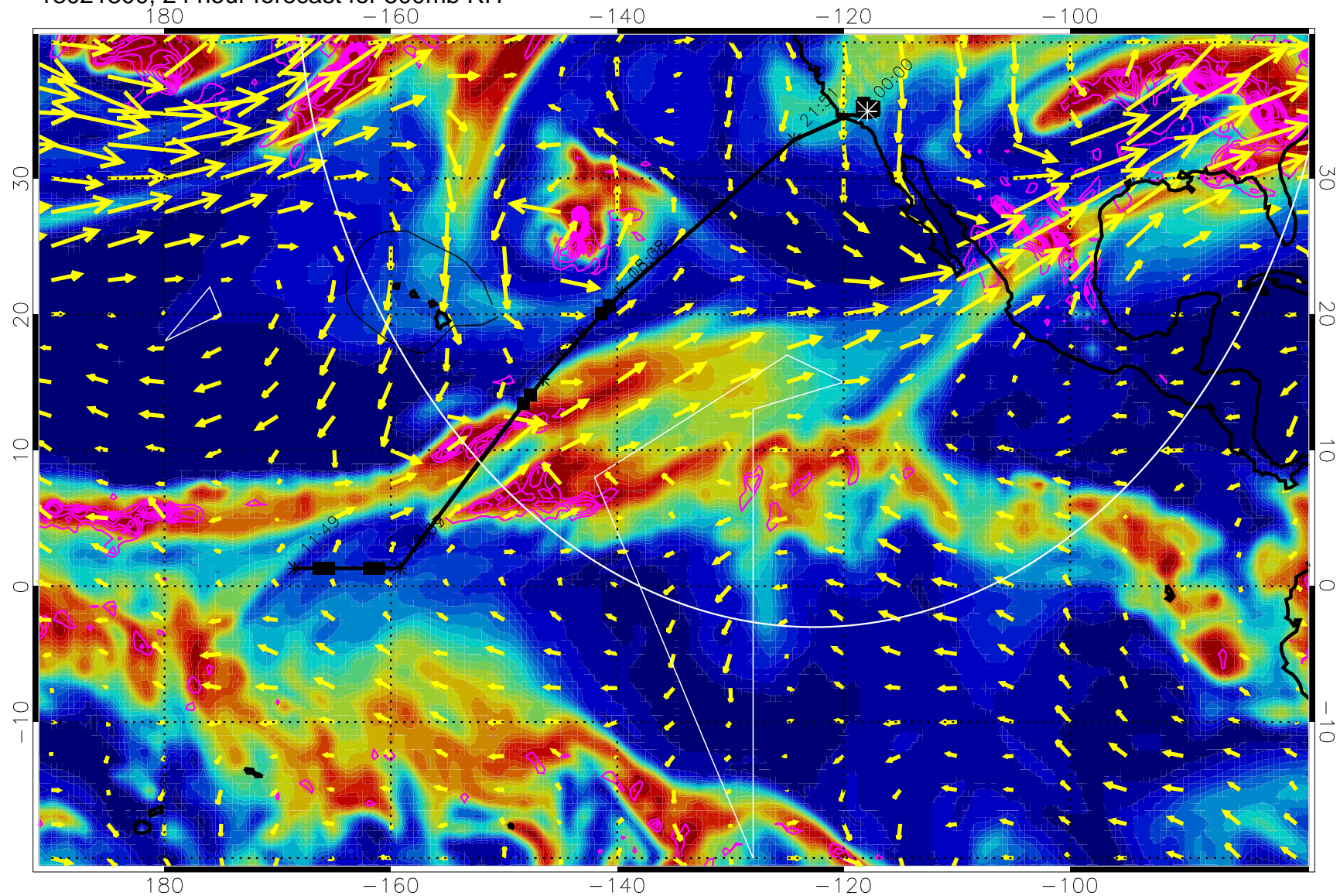
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021300, 24 hour forecast for 500mb RH



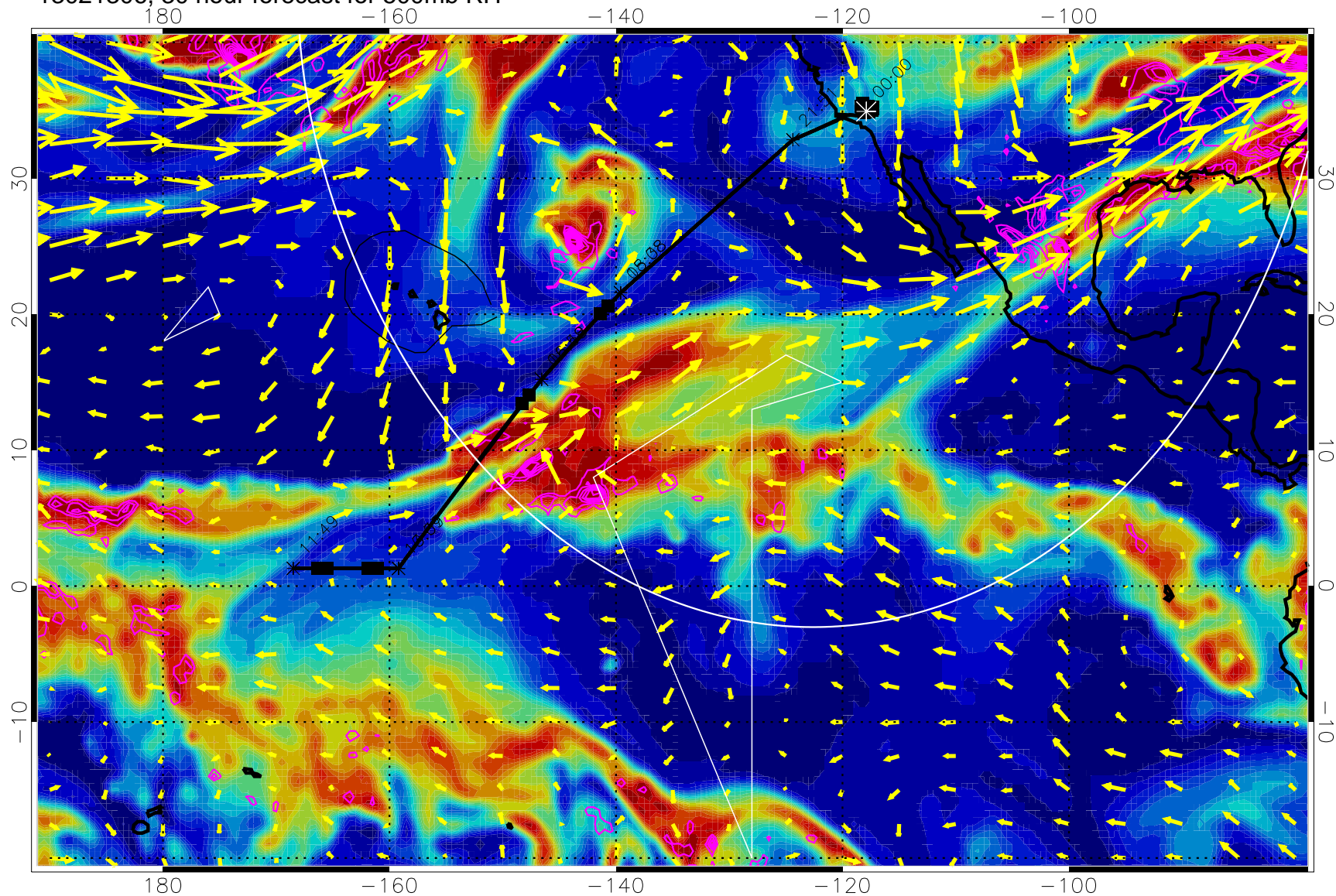
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause ( $2$  PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021306, 30 hour forecast for 500mb RH



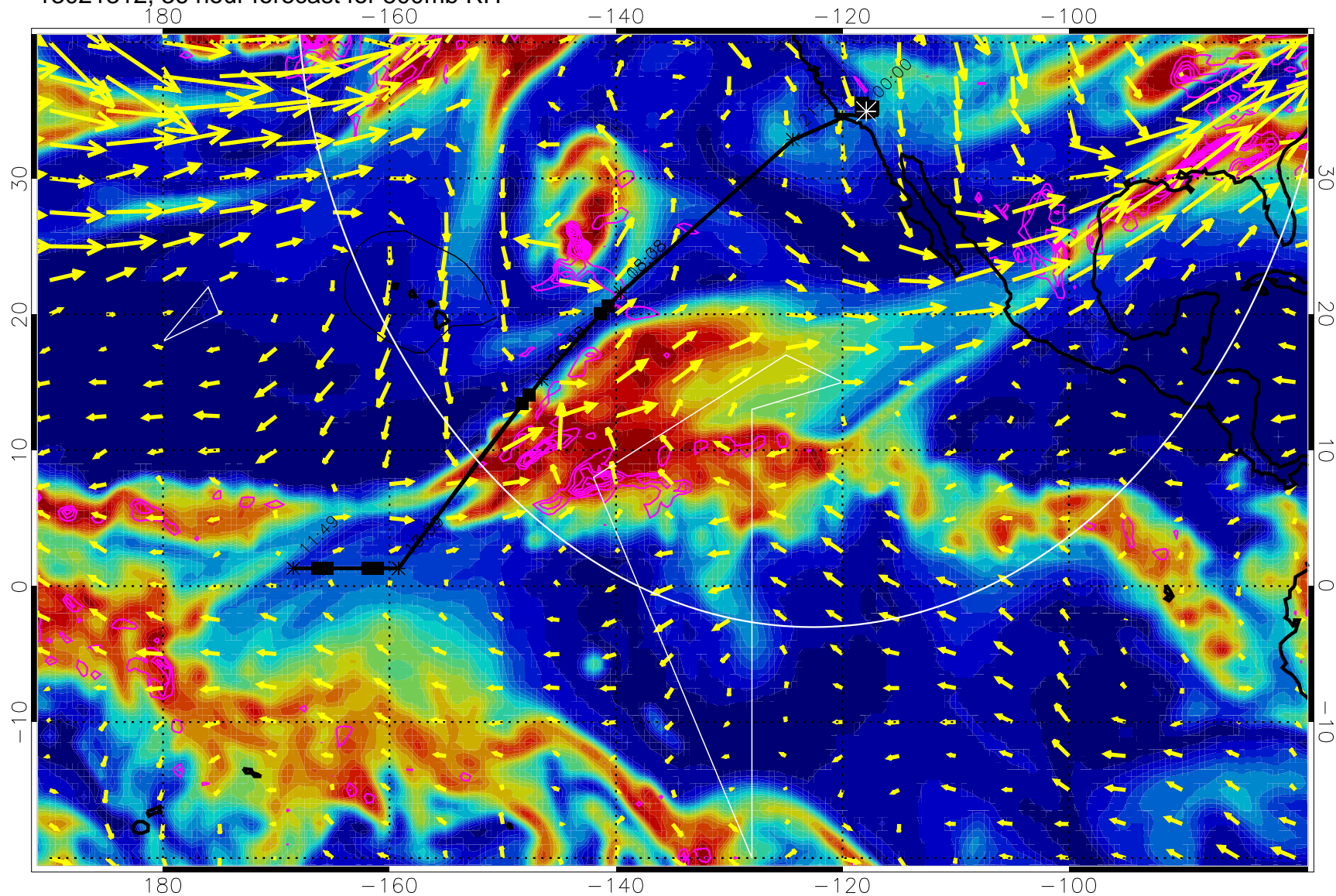
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021312, 36 hour forecast for 500mb RH



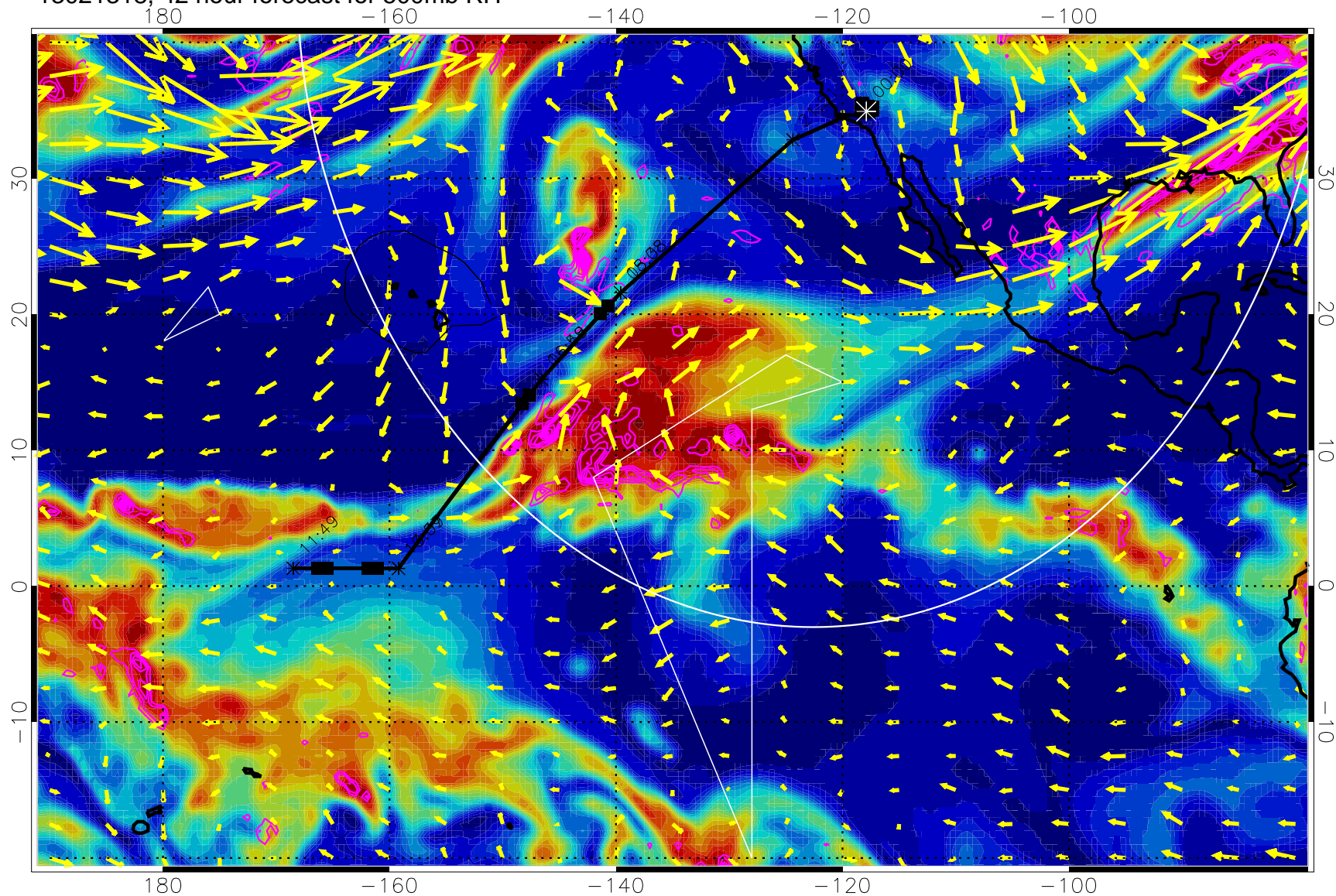
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021318, 42 hour forecast for 500mb RH



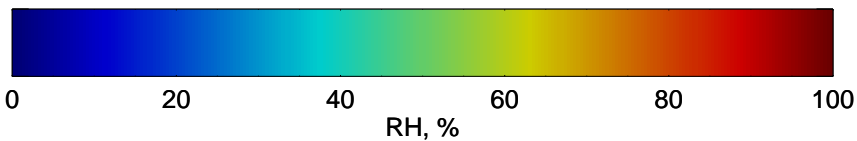
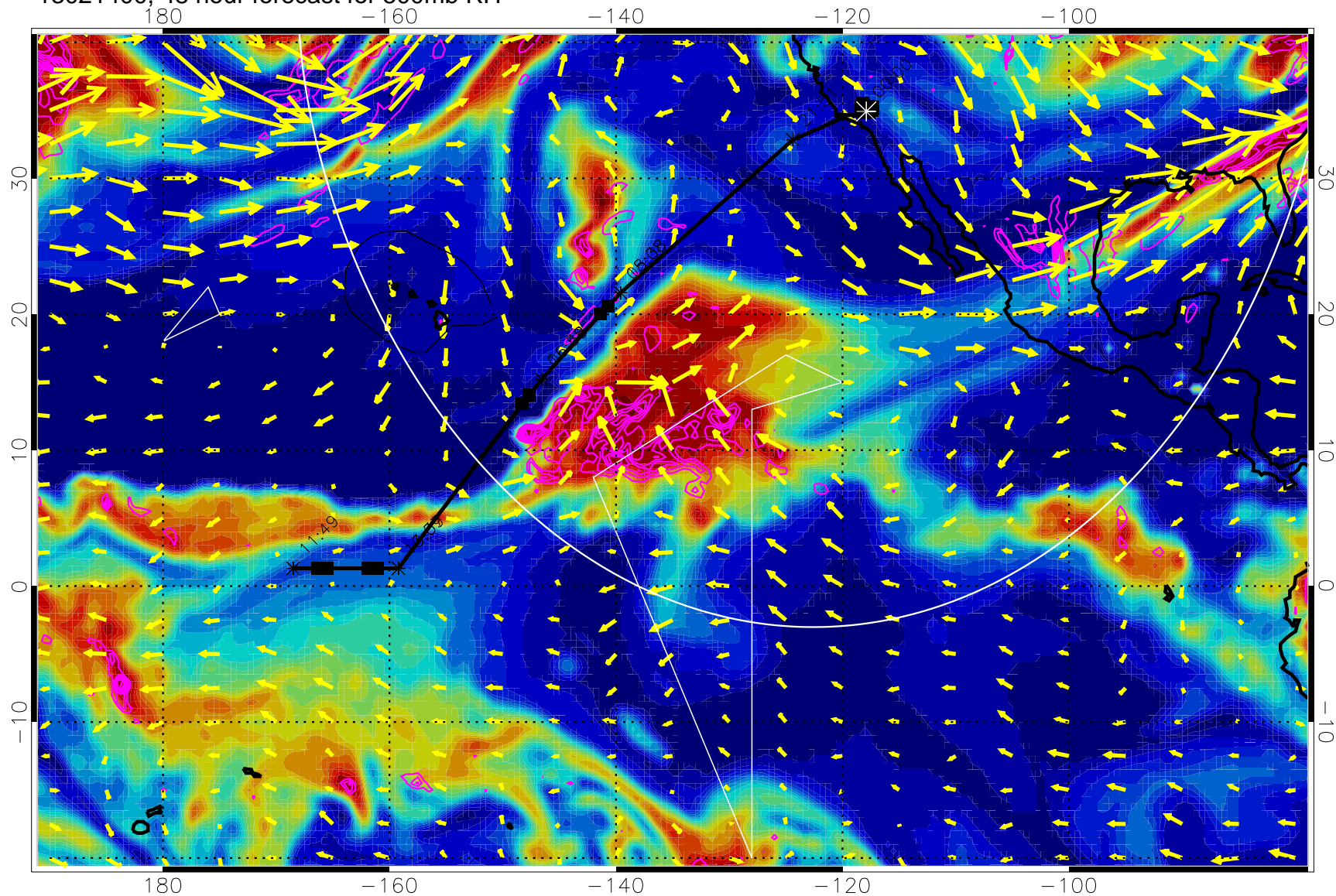
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause ( $2$  PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021400, 48 hour forecast for 500mb RH



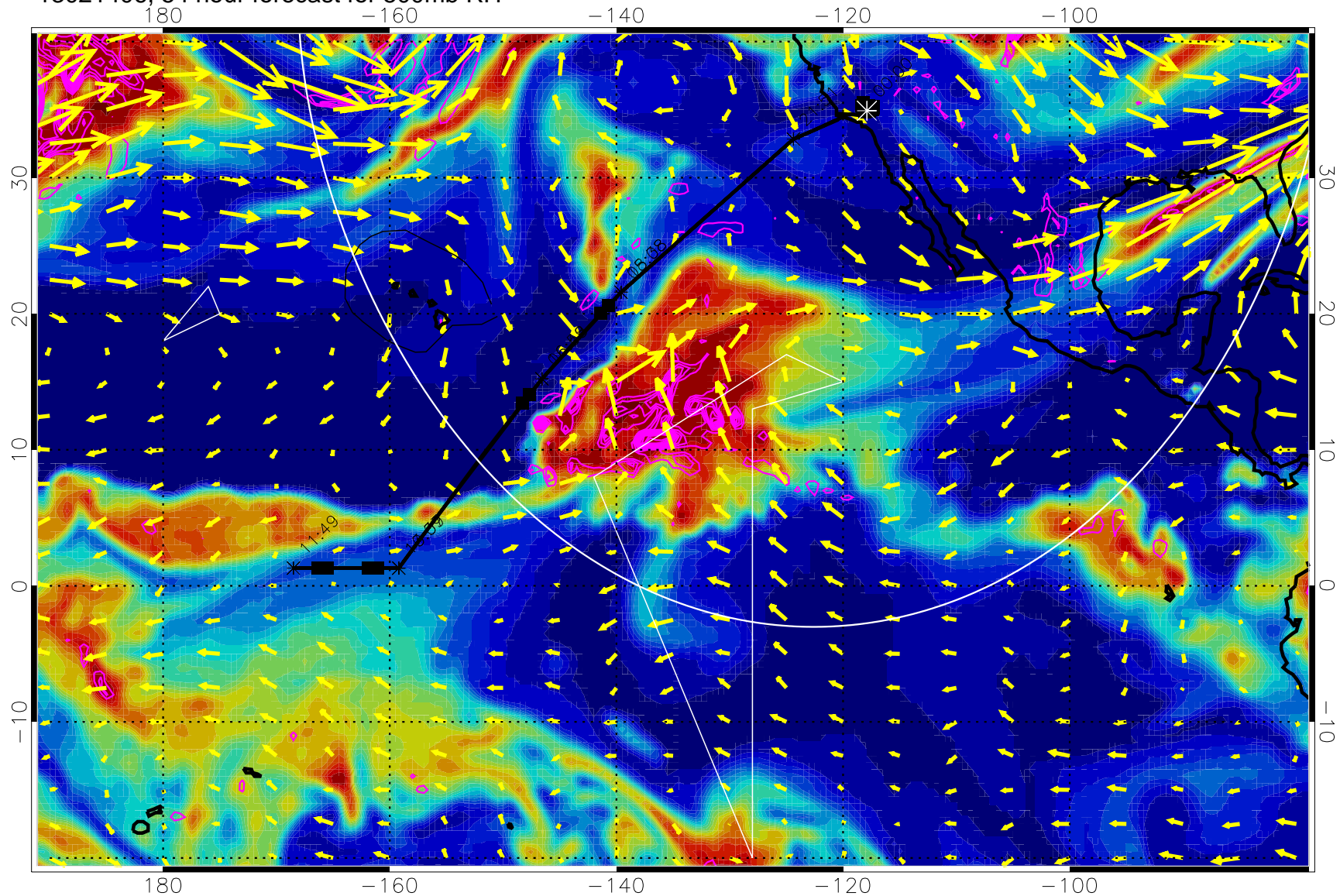
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021406, 54 hour forecast for 500mb RH



Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

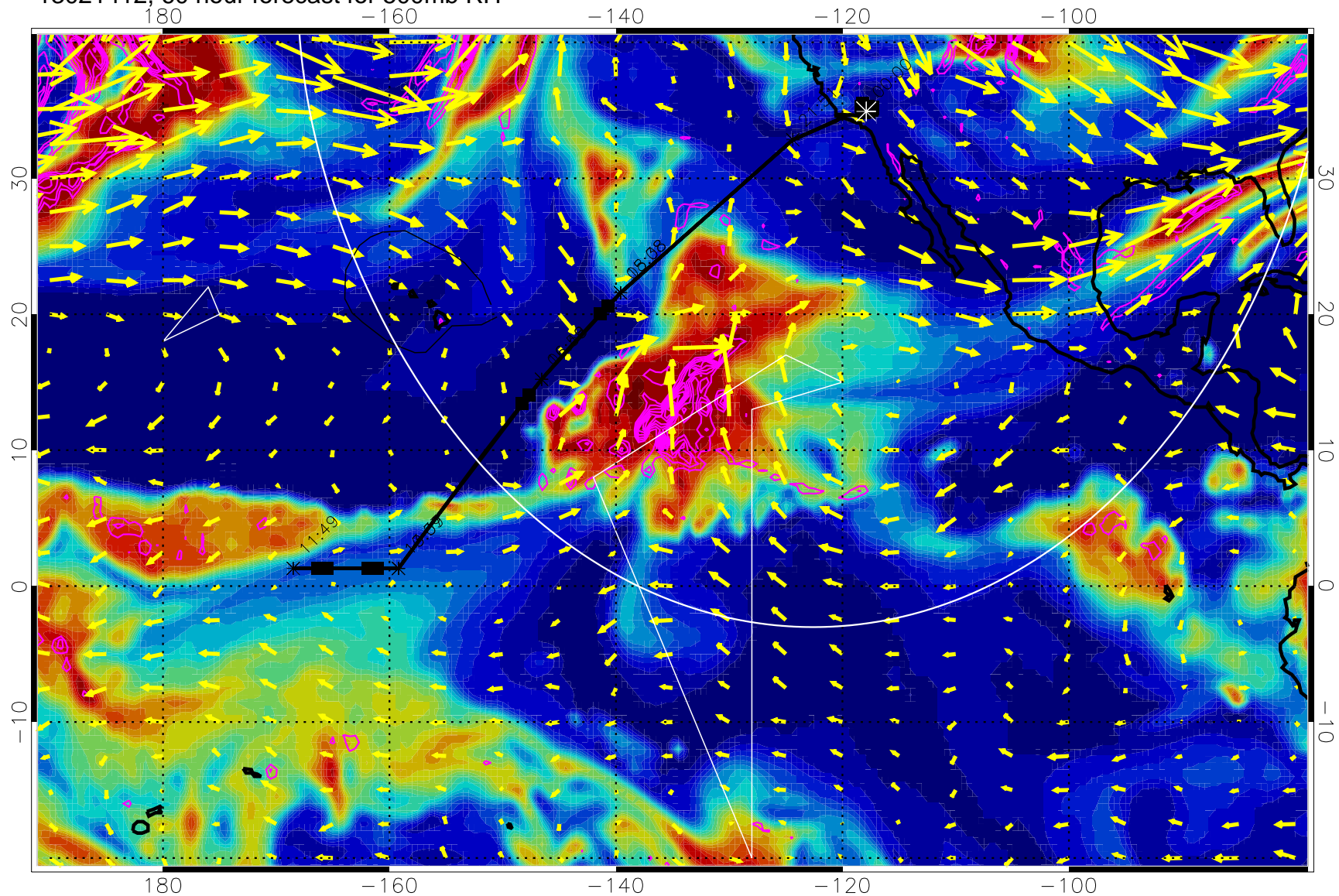
EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip



13021412, 60 hour forecast for 500mb RH



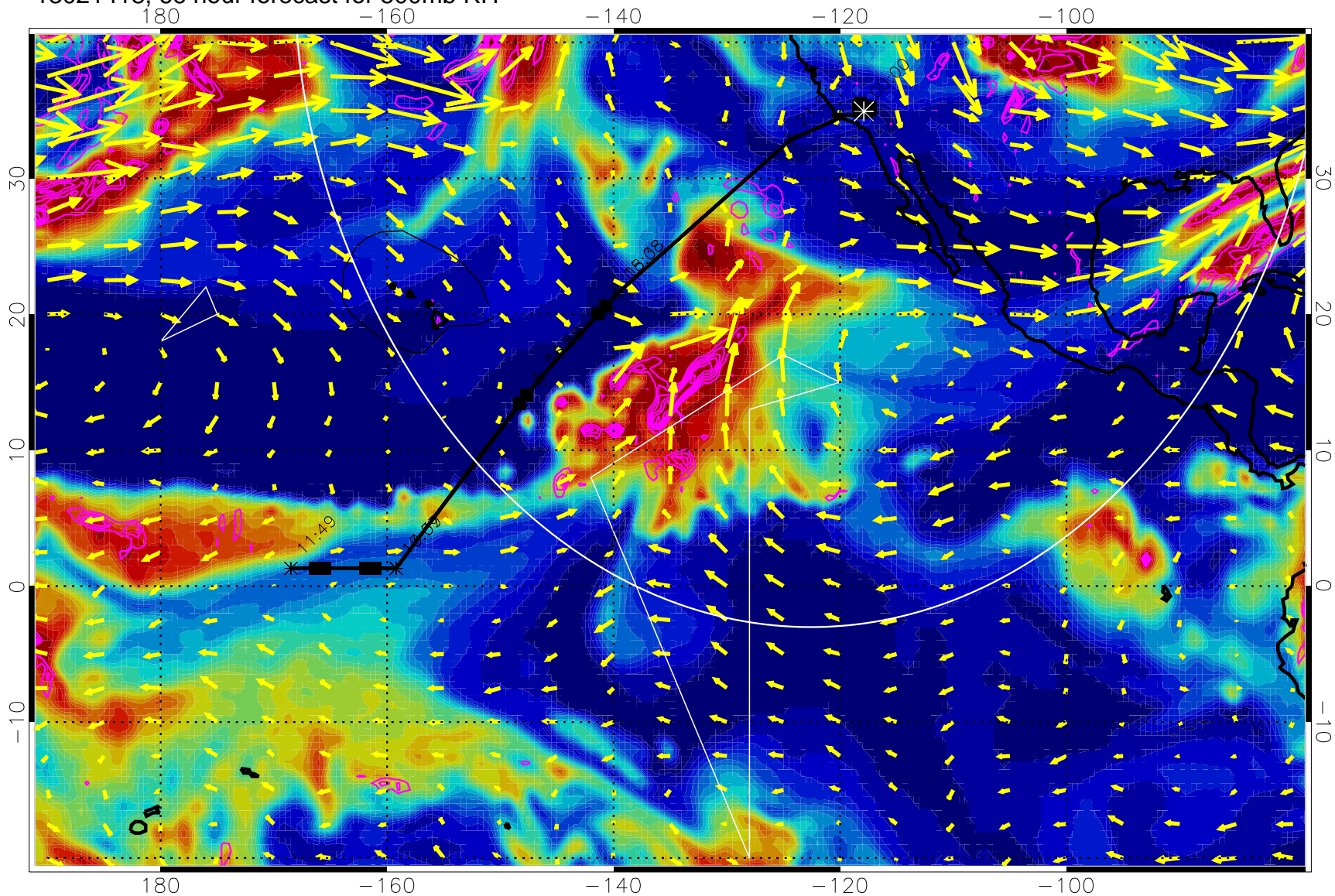
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021418, 66 hour forecast for 500mb RH



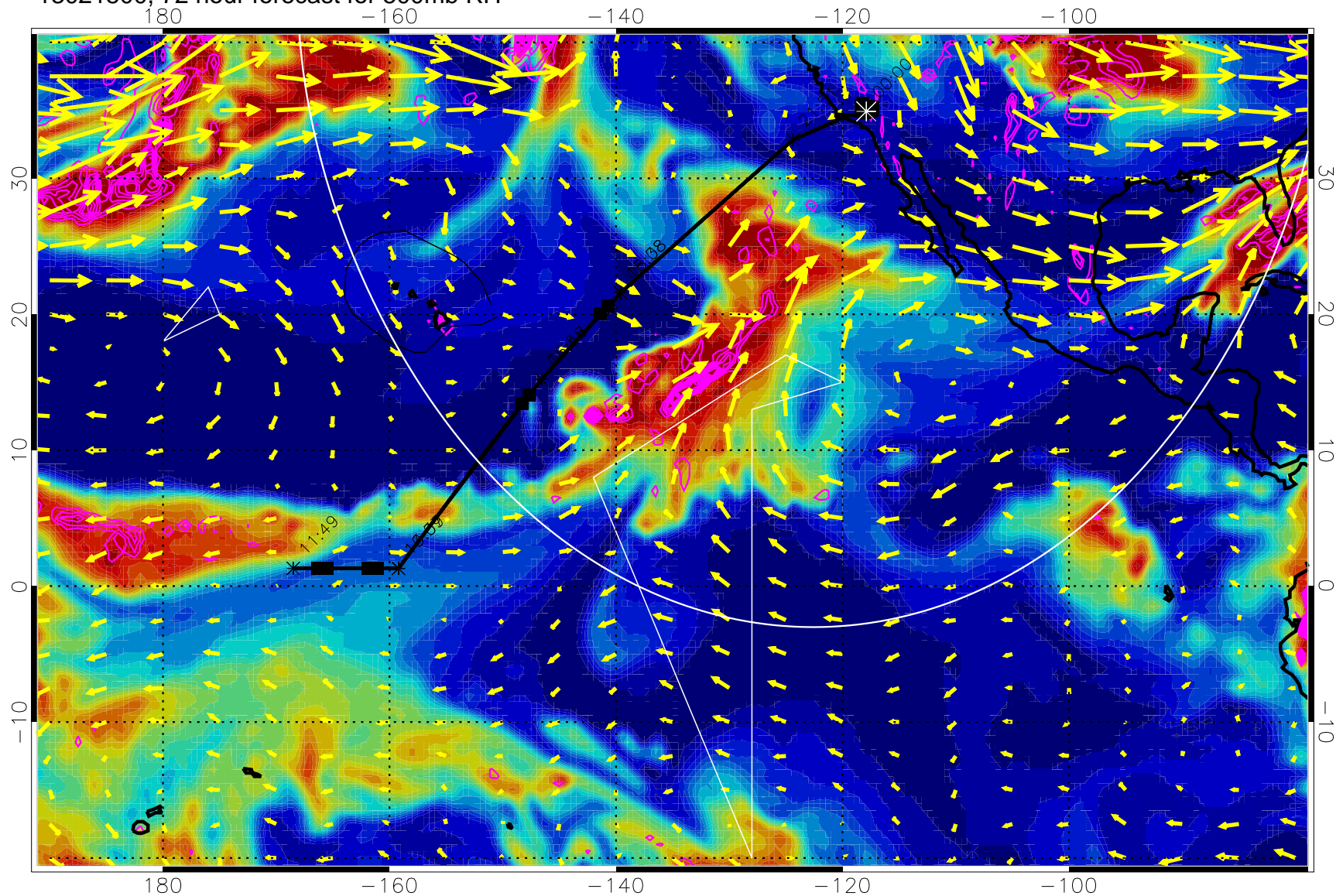
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021500, 72 hour forecast for 500mb RH



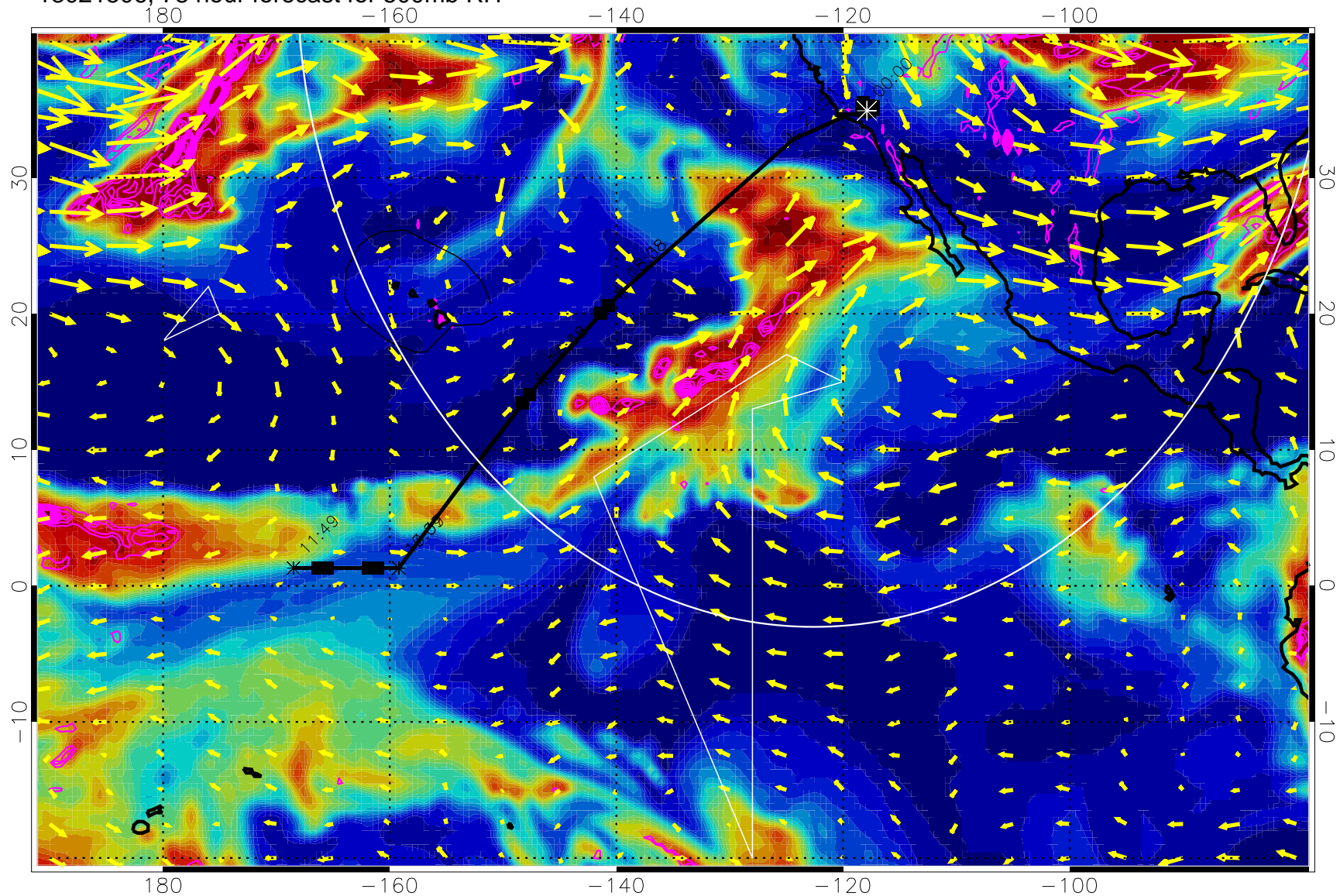
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021506, 78 hour forecast for 500mb RH



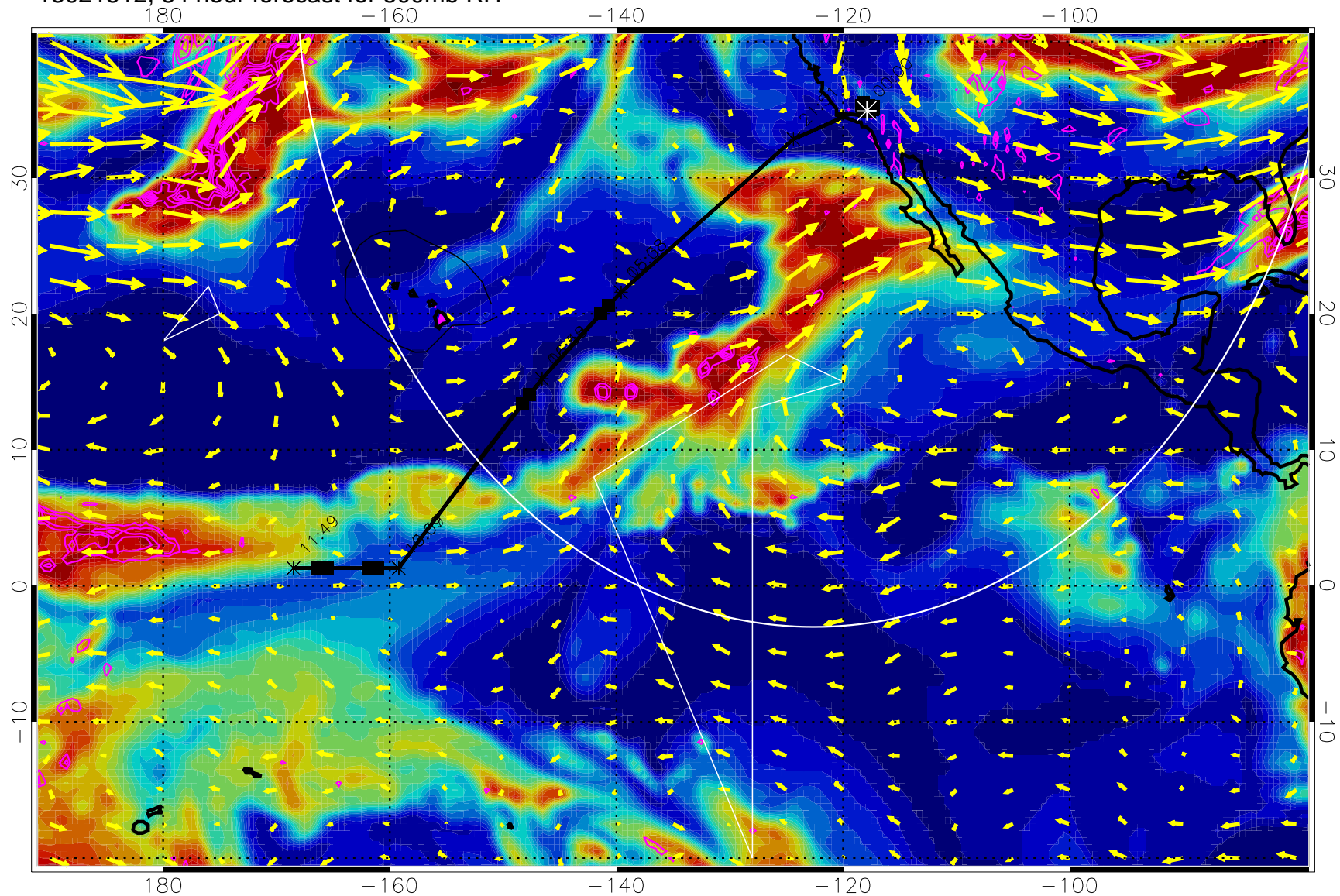
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021512, 84 hour forecast for 500mb RH



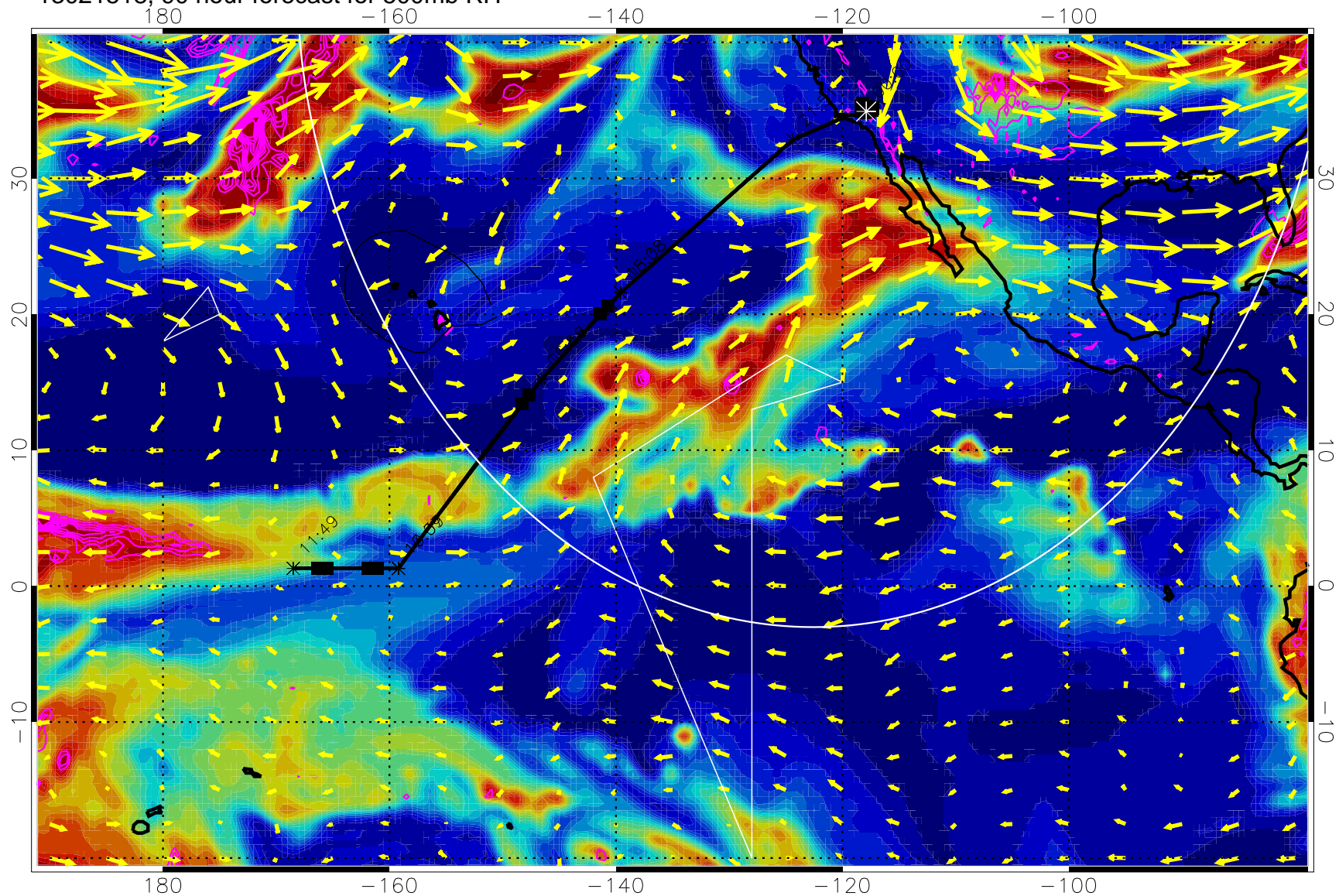
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021518, 90 hour forecast for 500mb RH



Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

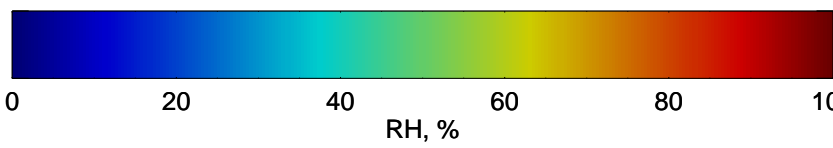
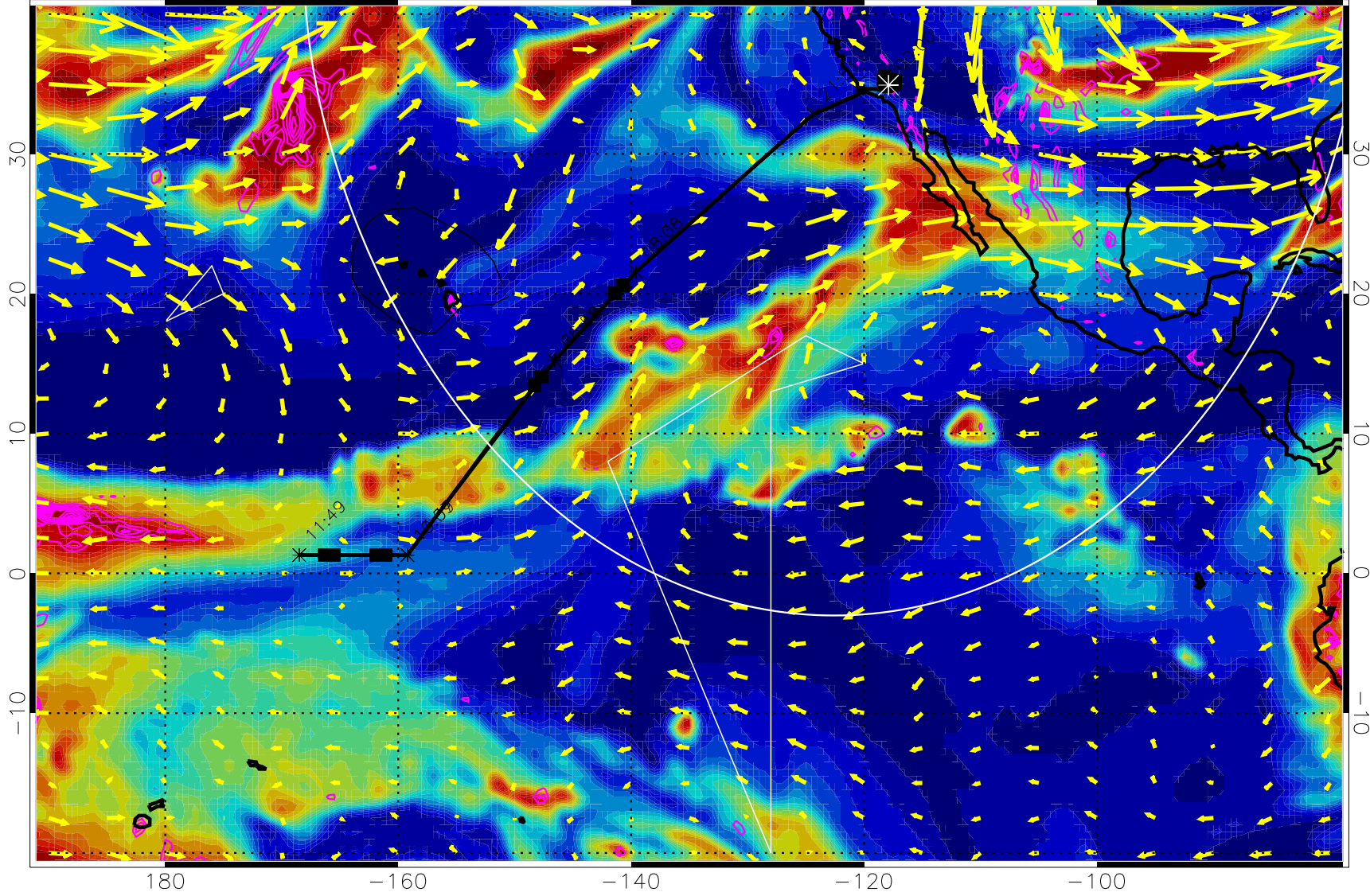
EPV Tropopause ( $2$  PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021600, 96 hour forecast for 500mb RH

180 -160 -140 -120 -100



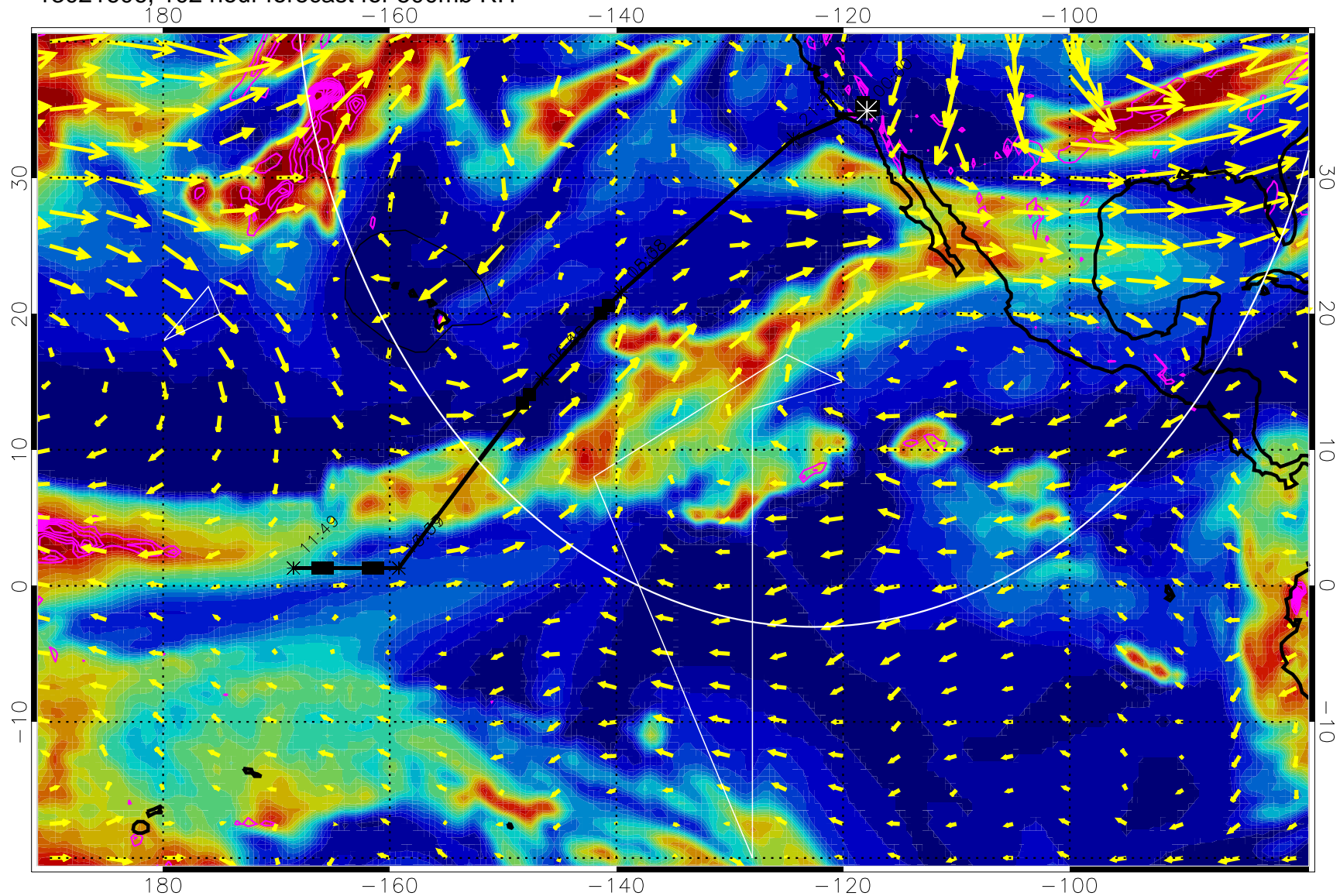
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021606, 102 hour forecast for 500mb RH



Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

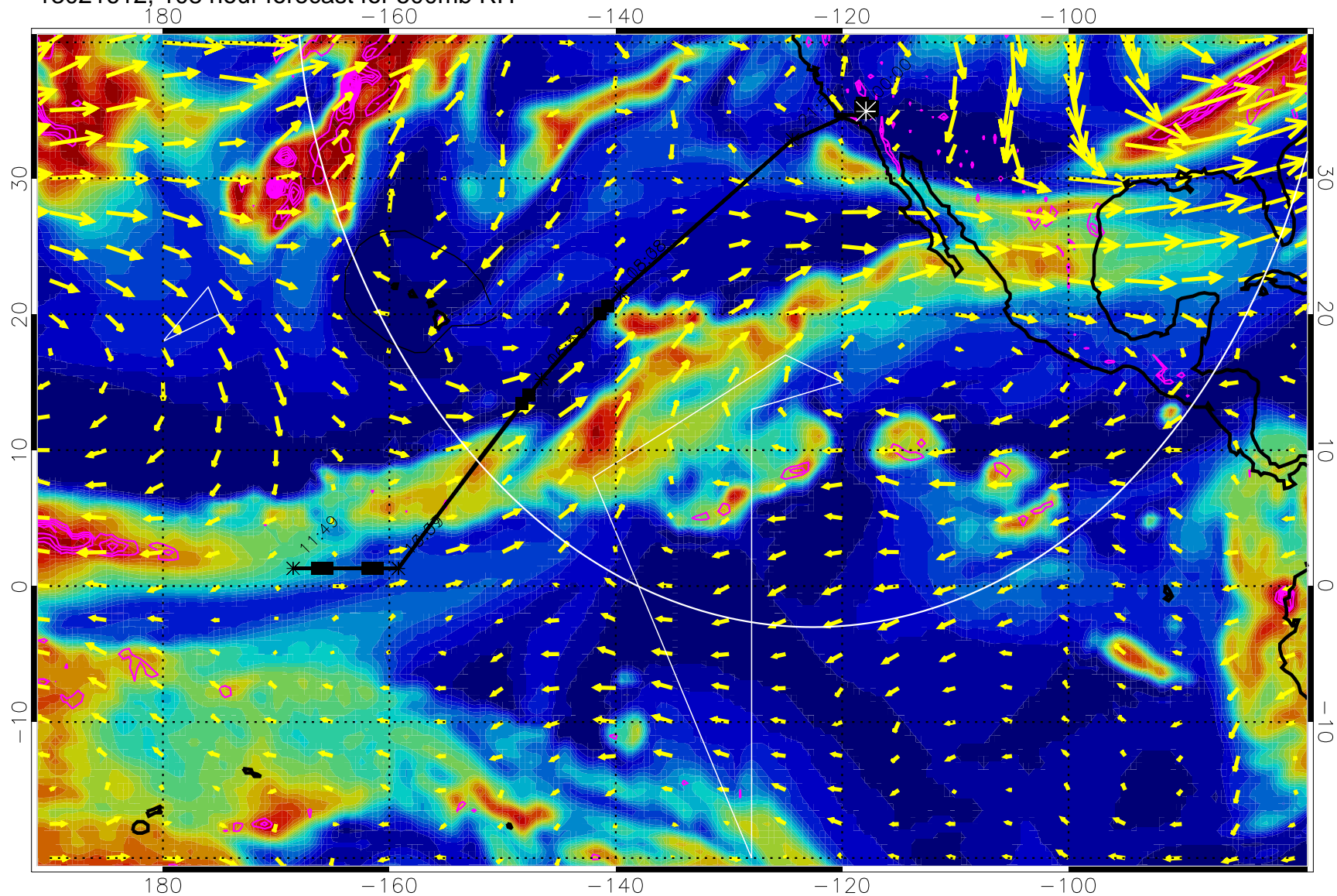
EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip



13021612, 108 hour forecast for 500mb RH



0 20 40 60 80 100  
RH, %

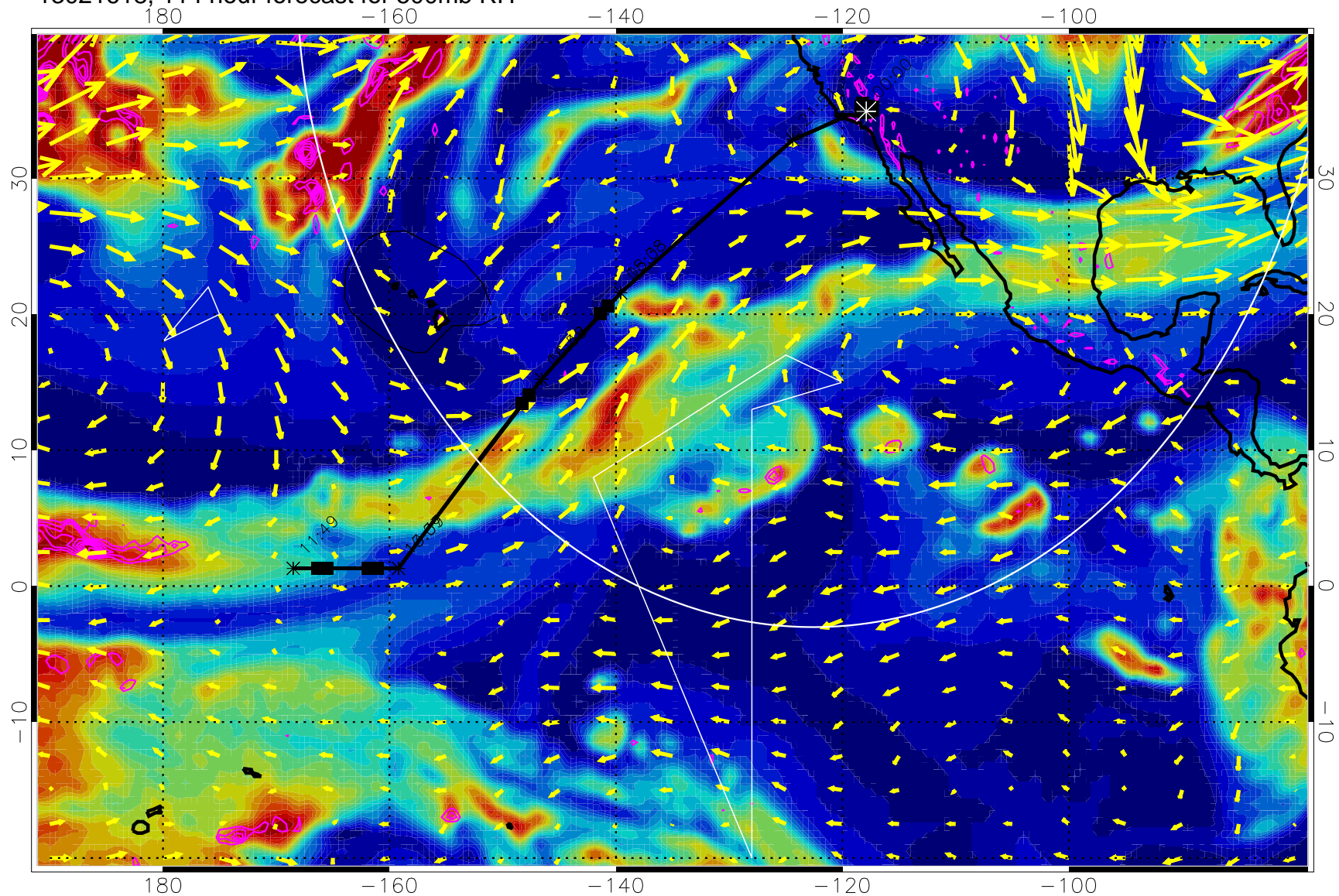
Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021618, 114 hour forecast for 500mb RH



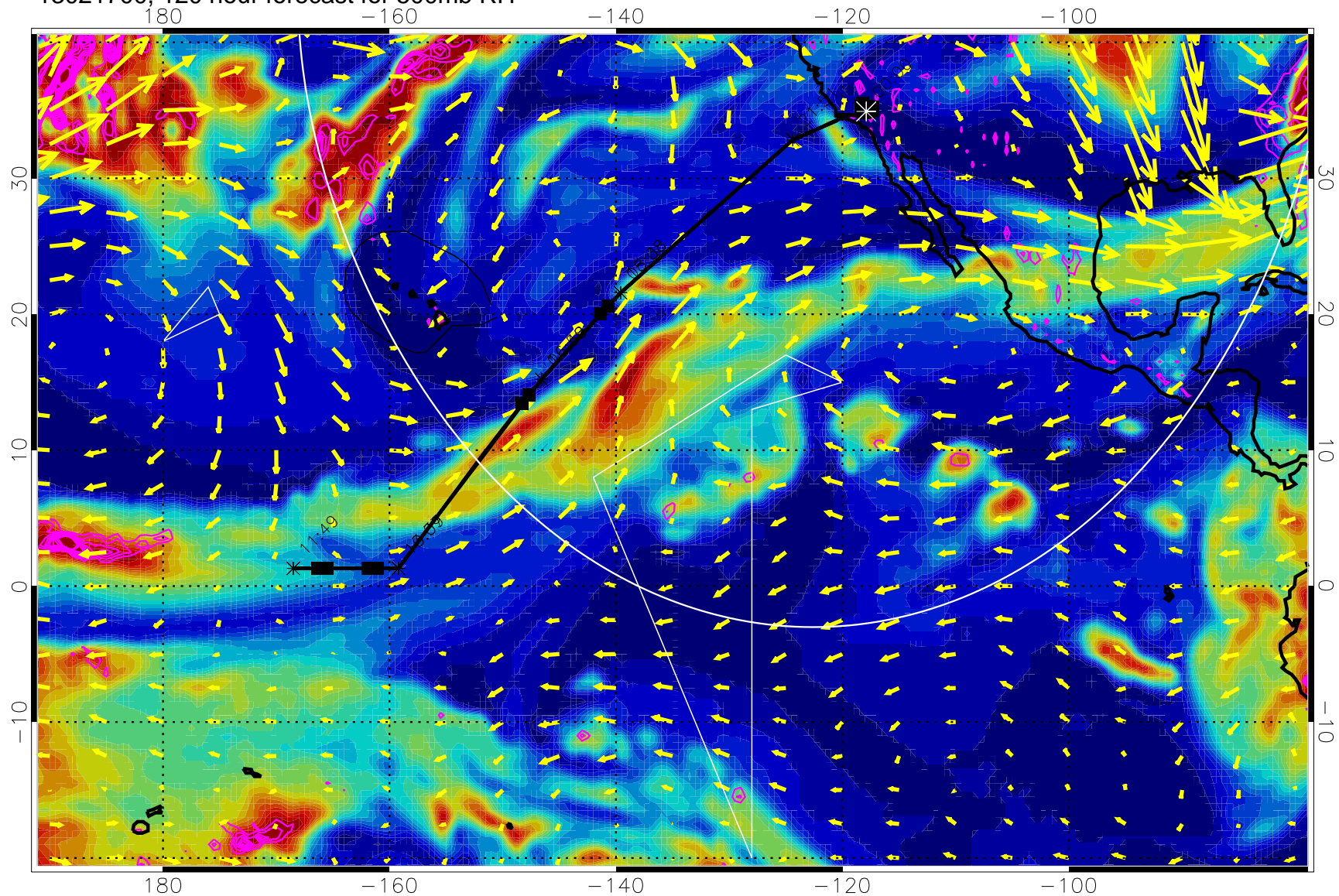
Negative Omegas less than  $-0.3$ , contours of  $.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip

13021700, 120 hour forecast for 500mb RH



Negative Omegas less than  $-0.3$ , contours of  $0.3$  Pa/s

EPV Tropopause (2 PVU) Position

→ 40 m/s

Range ring of 4055 km -- 13 hours GH round trip