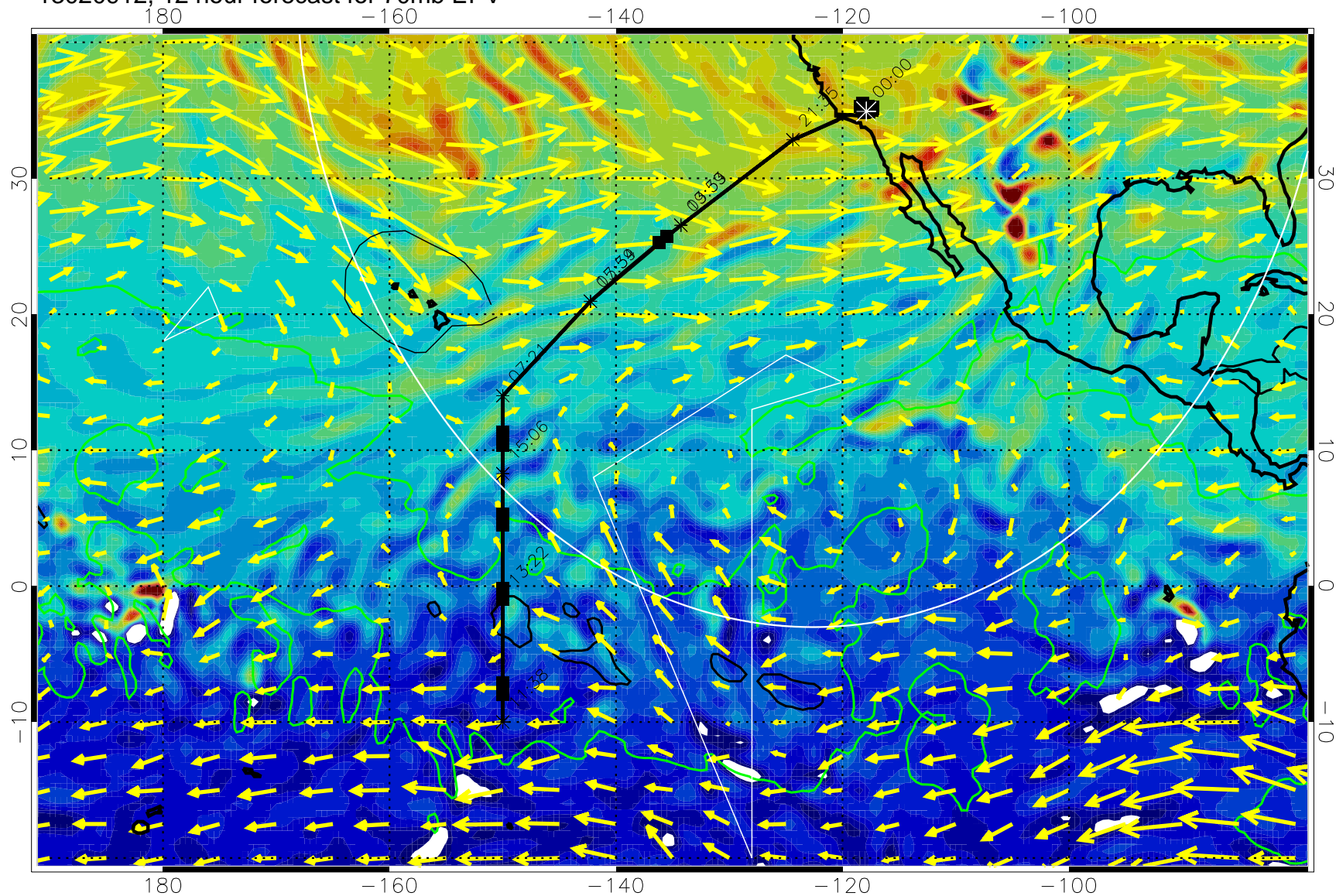


13020912, 12 hour forecast for 70mb EPV



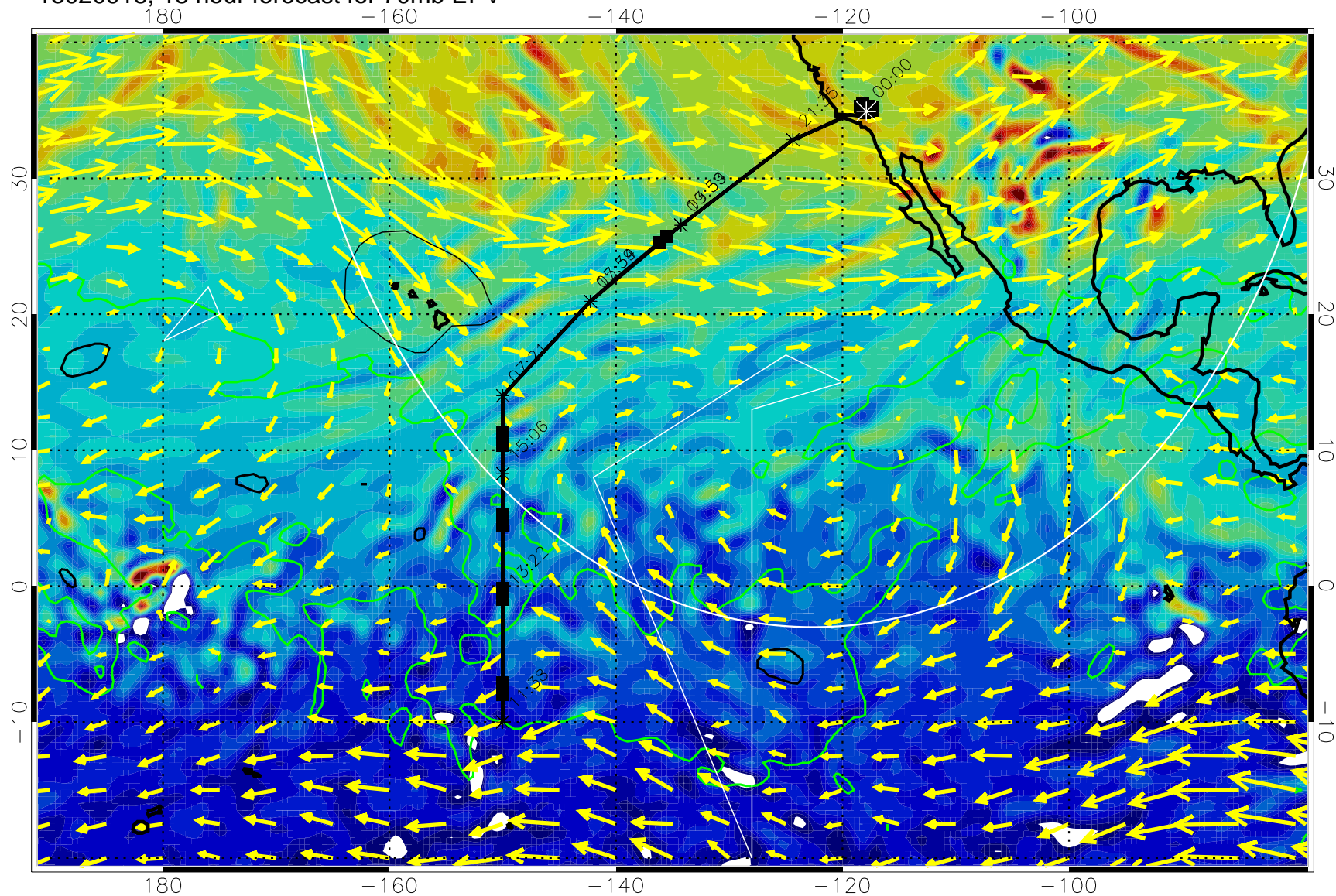
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13020918, 18 hour forecast for 70mb EPV



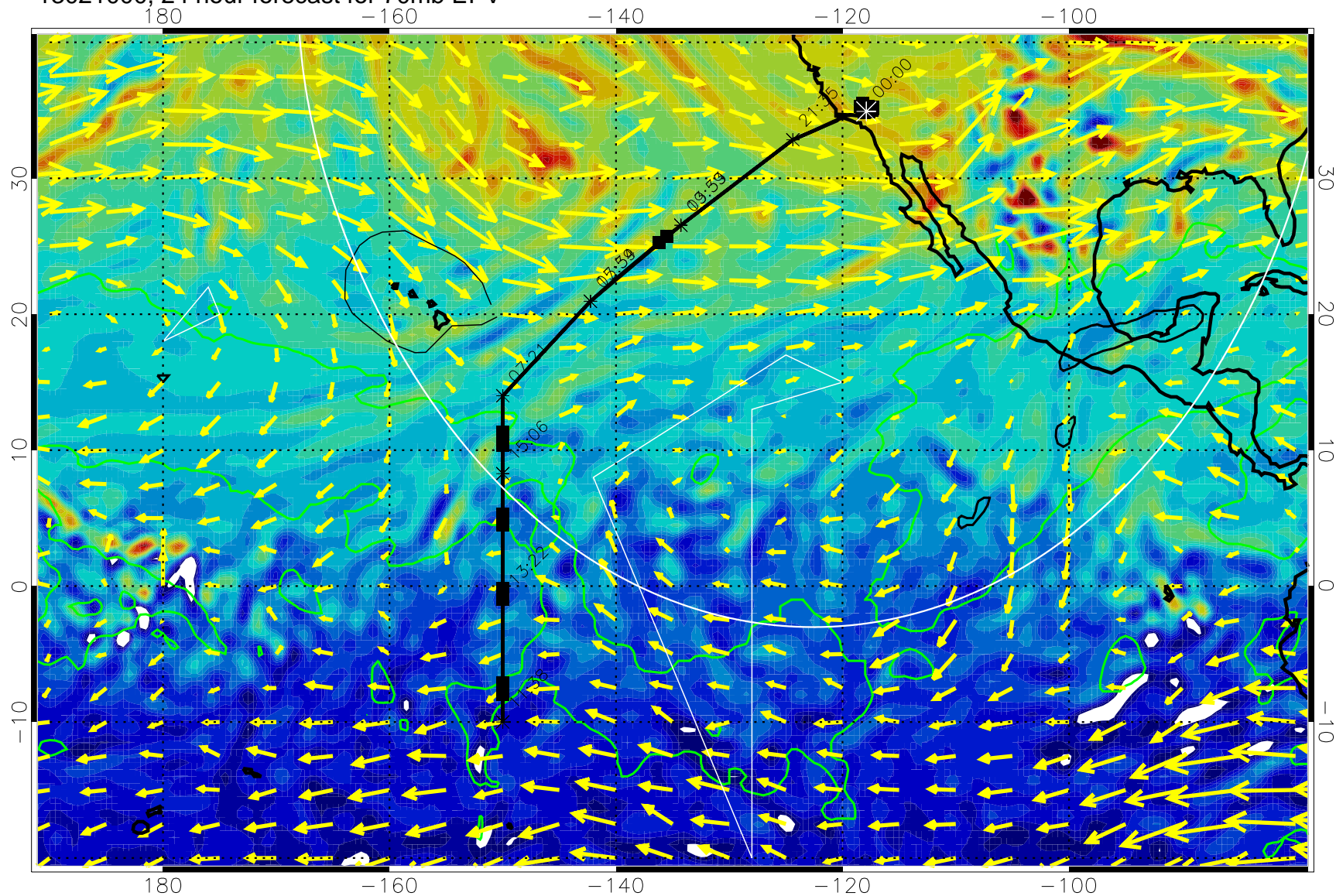
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021000, 24 hour forecast for 70mb EPV



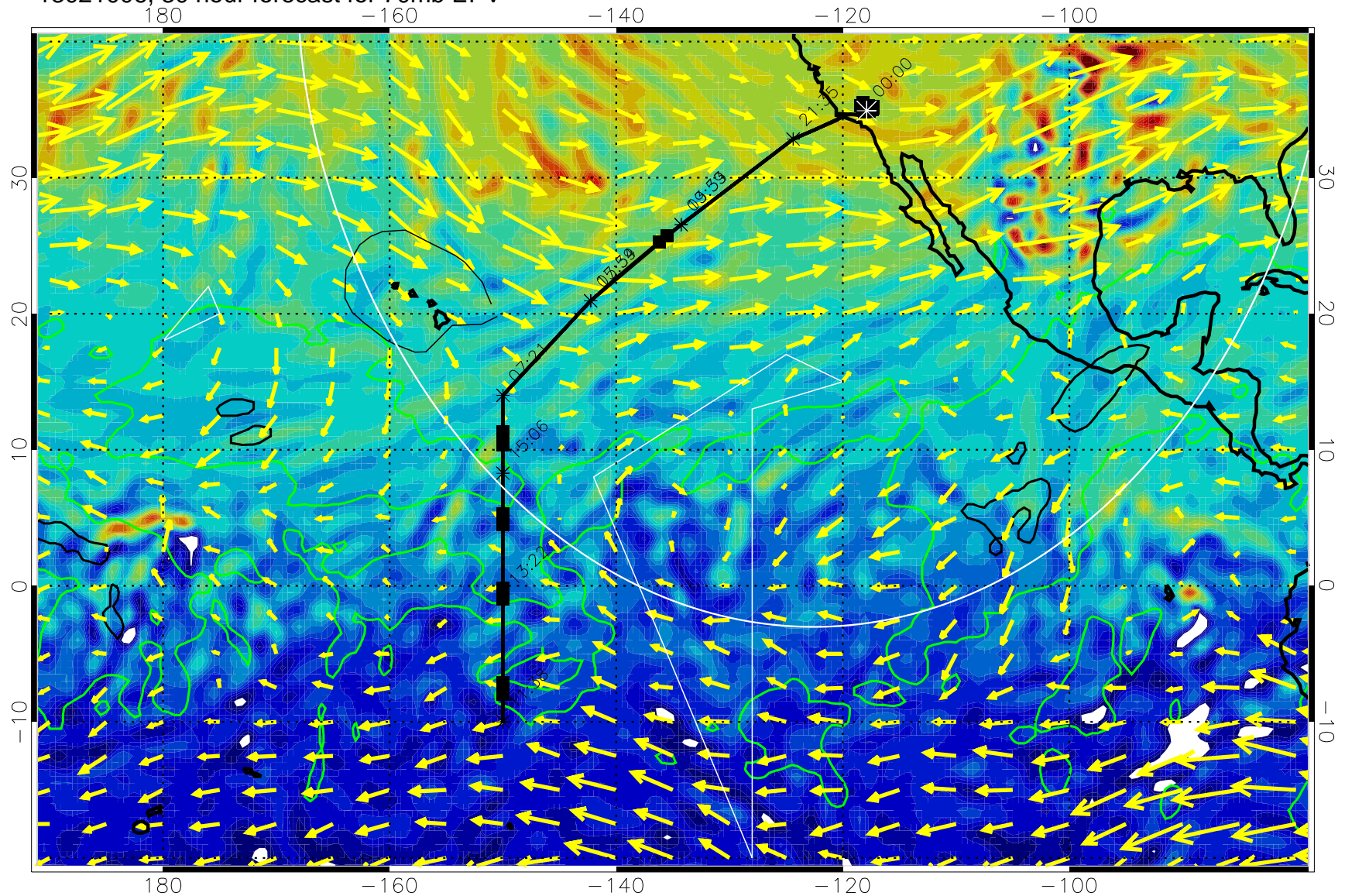
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021006, 30 hour forecast for 70mb EPV



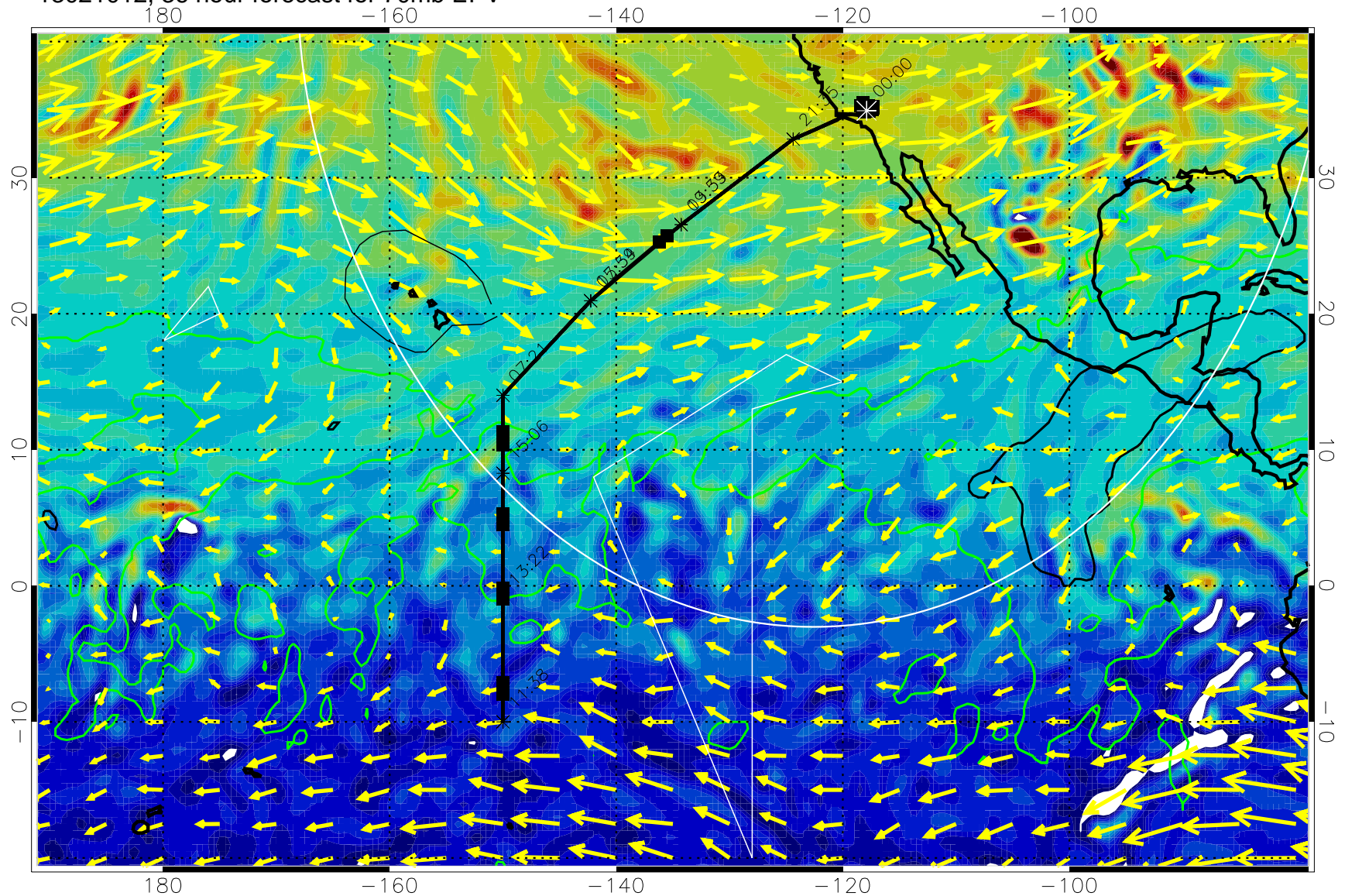
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021012, 36 hour forecast for 70mb EPV



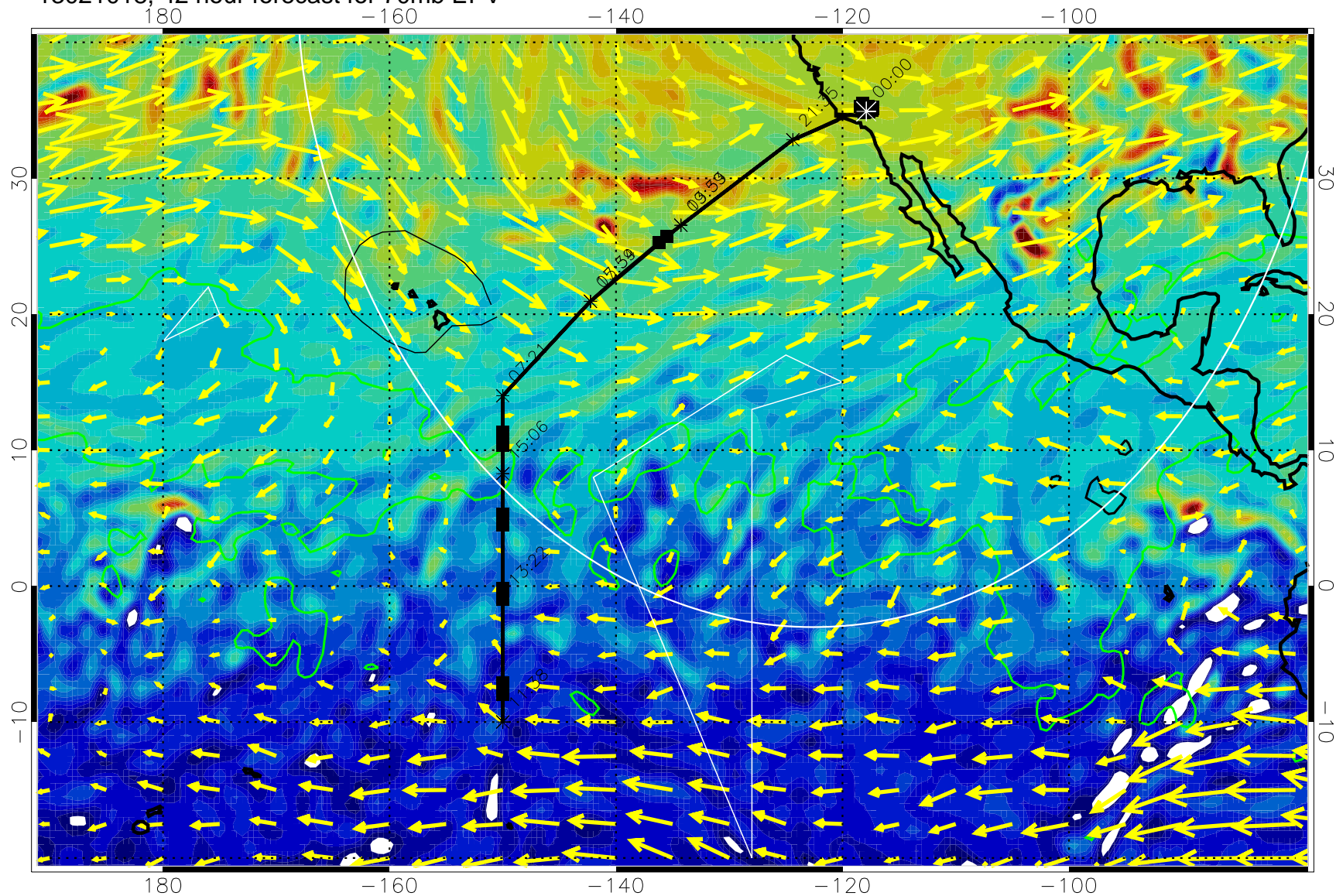
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021018, 42 hour forecast for 70mb EPV



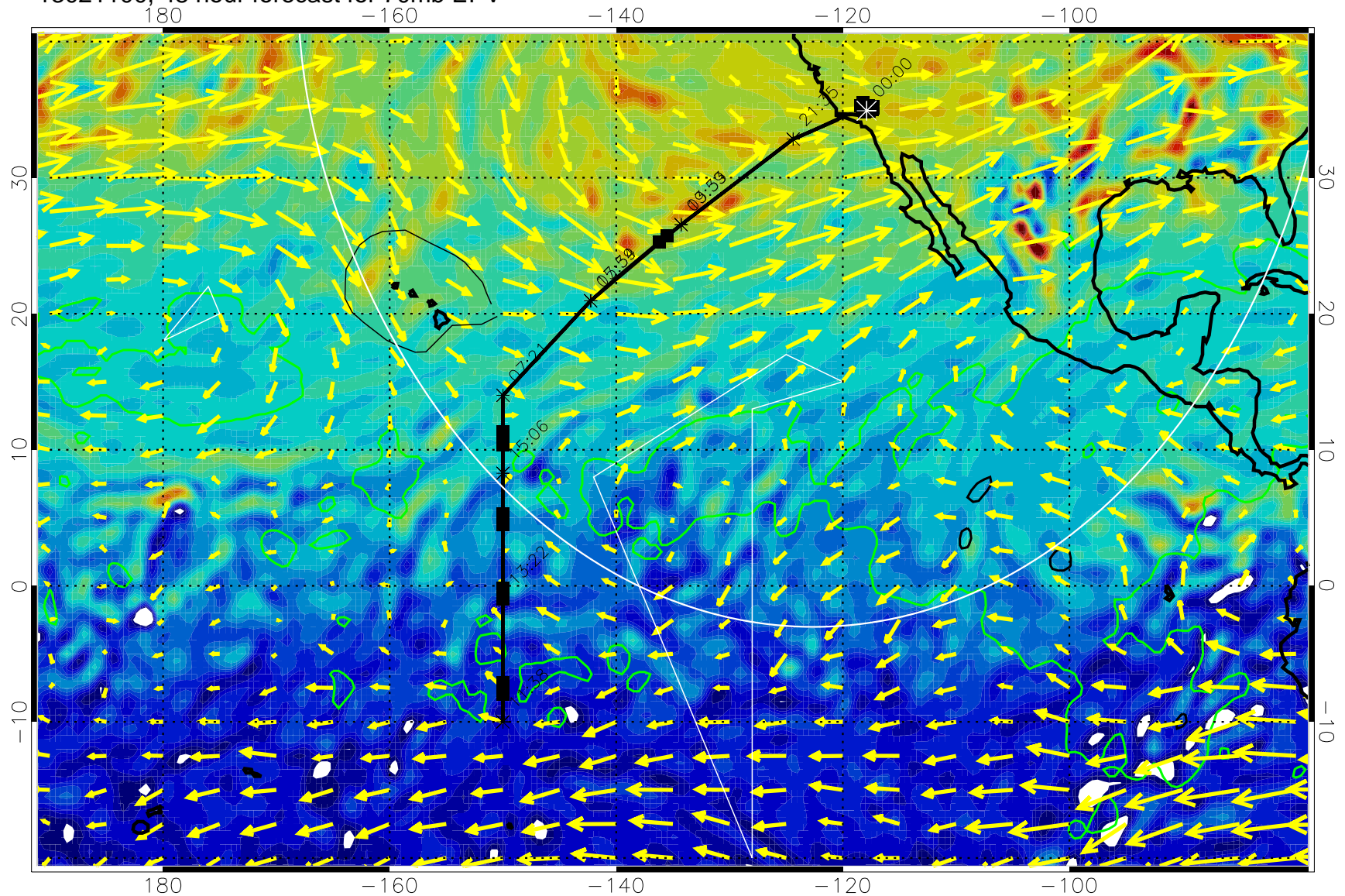
$-1 \cdot 10^{-5}$  0  $1 \cdot 10^{-5}$   $2 \cdot 10^{-5}$   $3 \cdot 10^{-5}$   
PVU

190K Isotherm 192.5K Isotherm

→ 30 m/s

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

13021100, 48 hour forecast for 70mb EPV



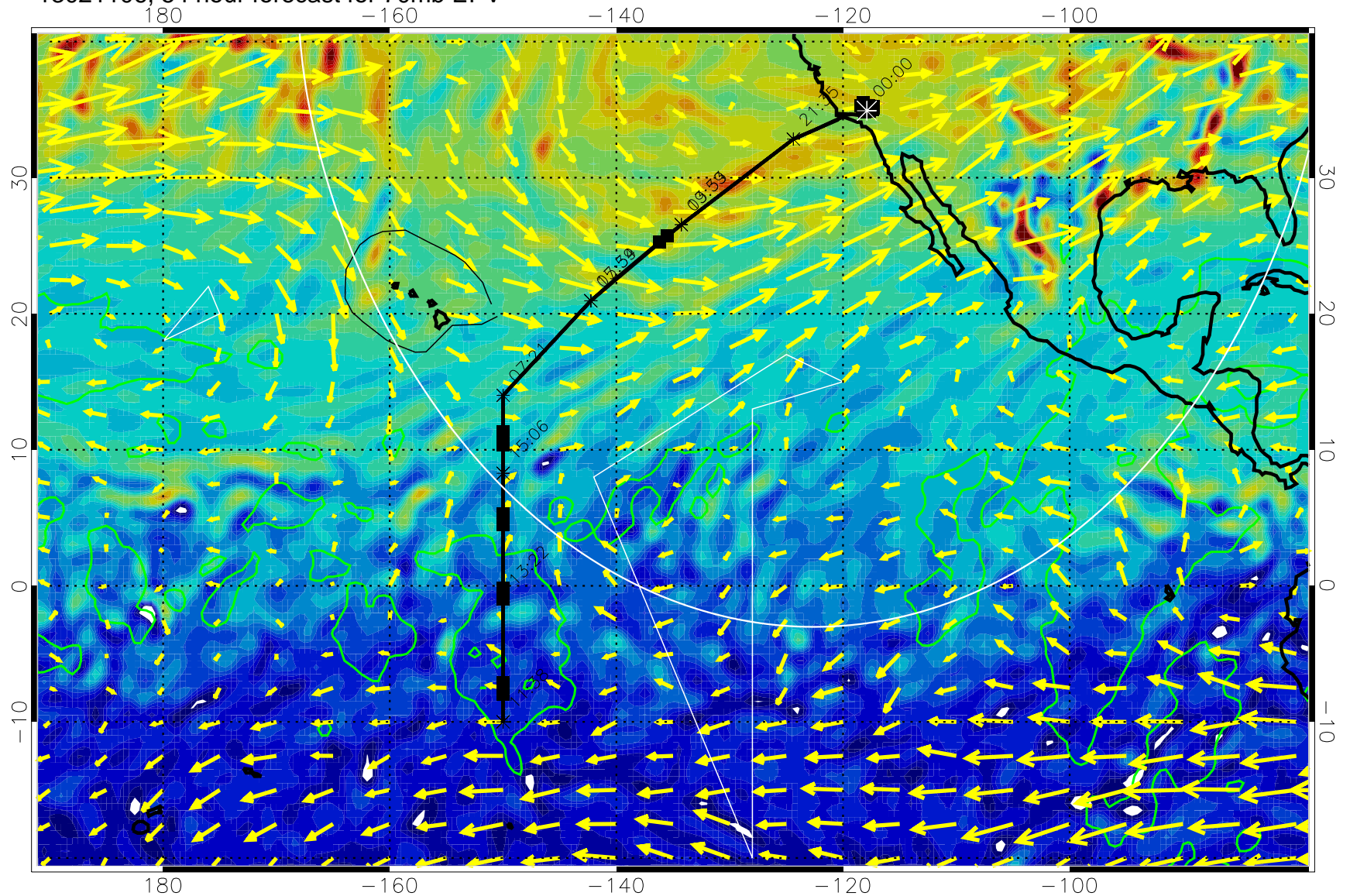
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021106, 54 hour forecast for 70mb EPV



$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

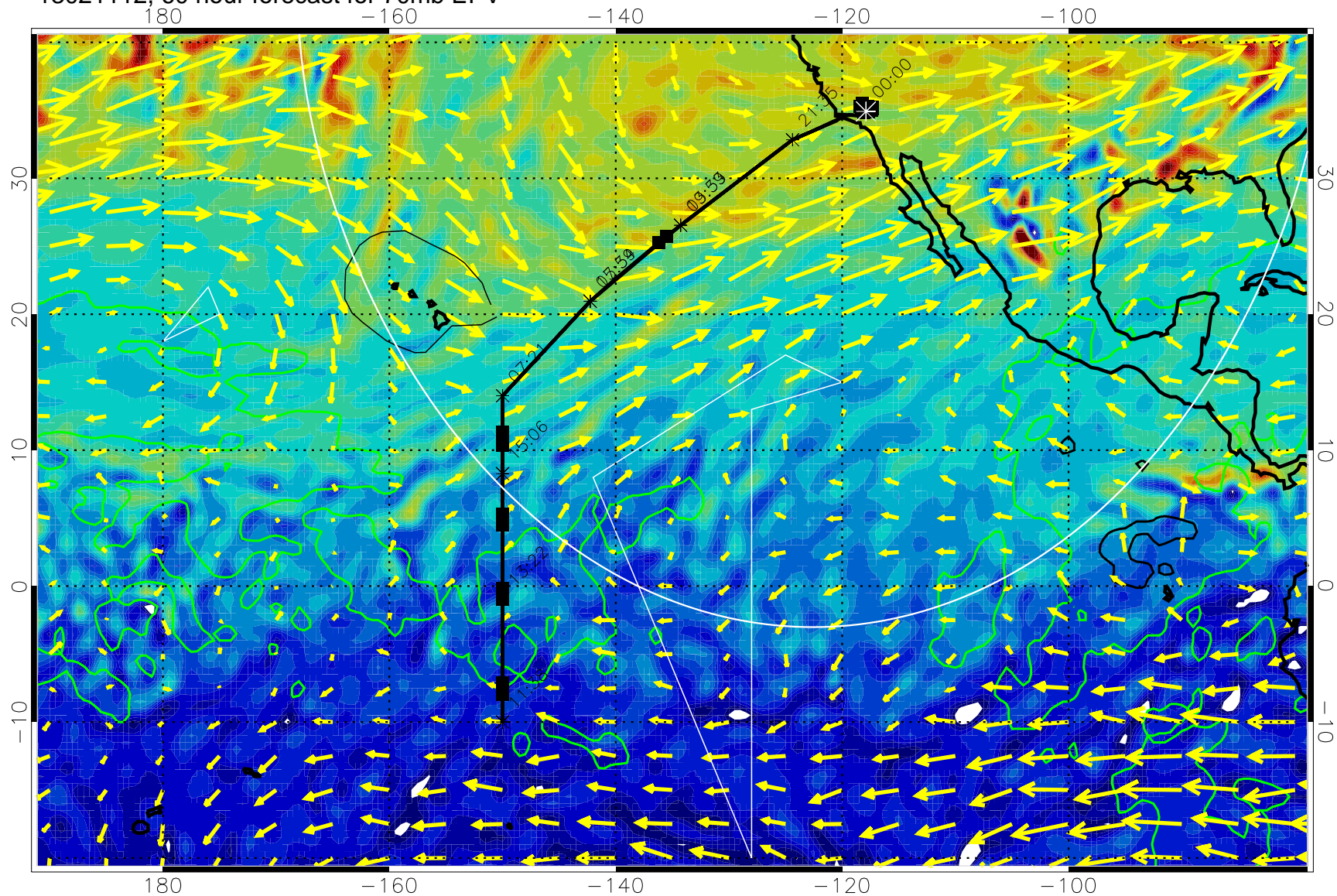
190K Isotherm    192.5K Isotherm

→ 30 m/s

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



13021112, 60 hour forecast for 70mb EPV



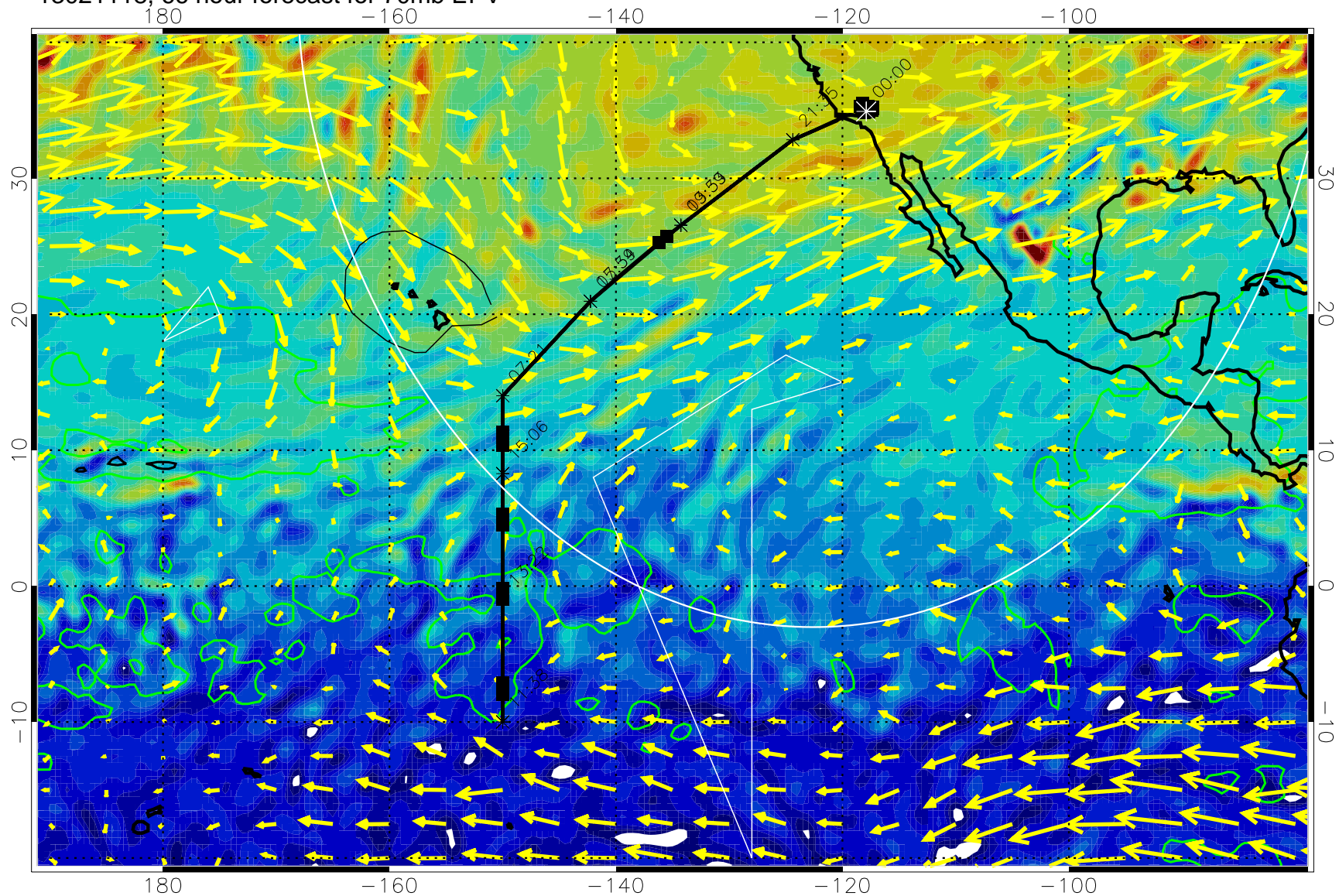
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021118, 66 hour forecast for 70mb EPV



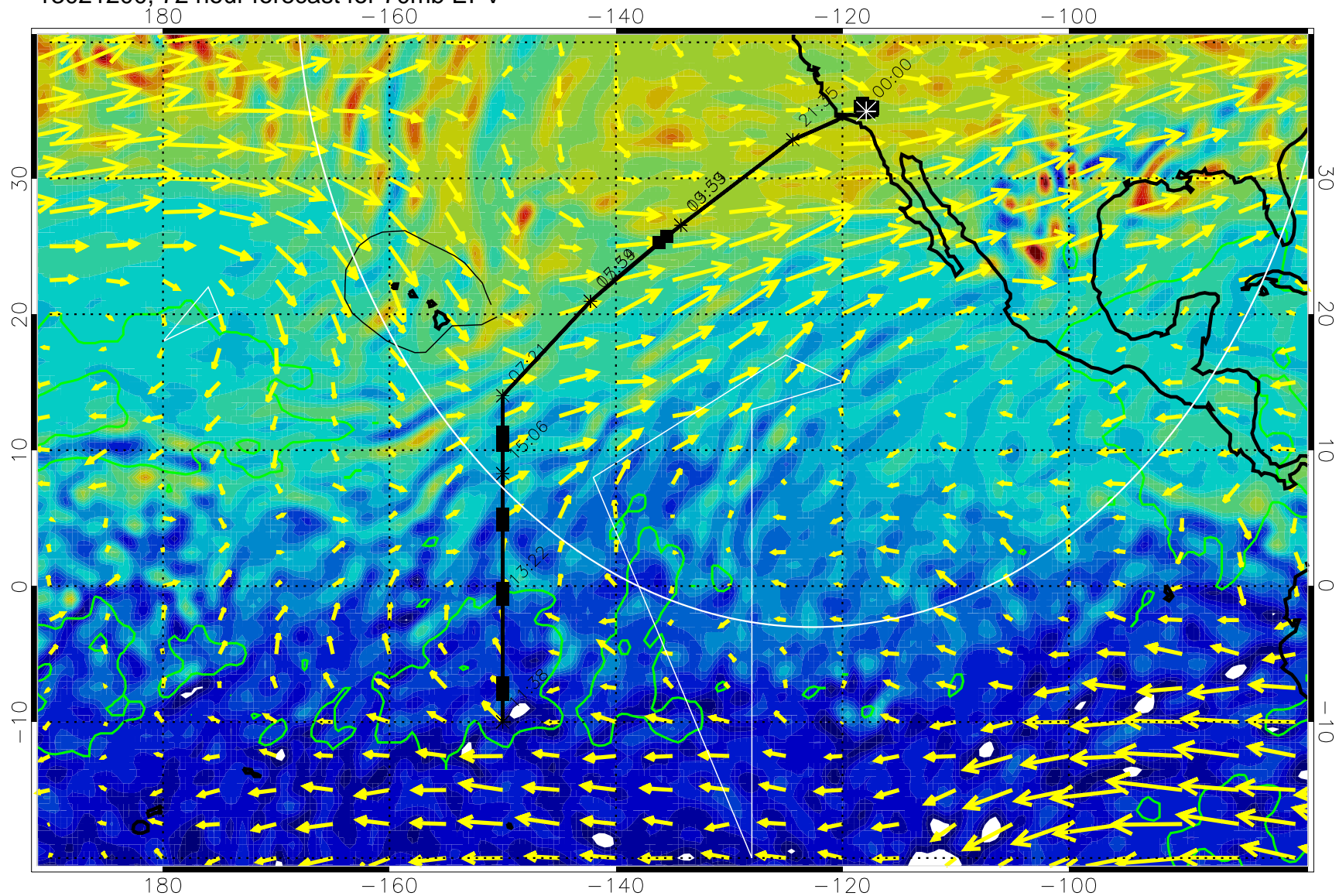
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021200, 72 hour forecast for 70mb EPV



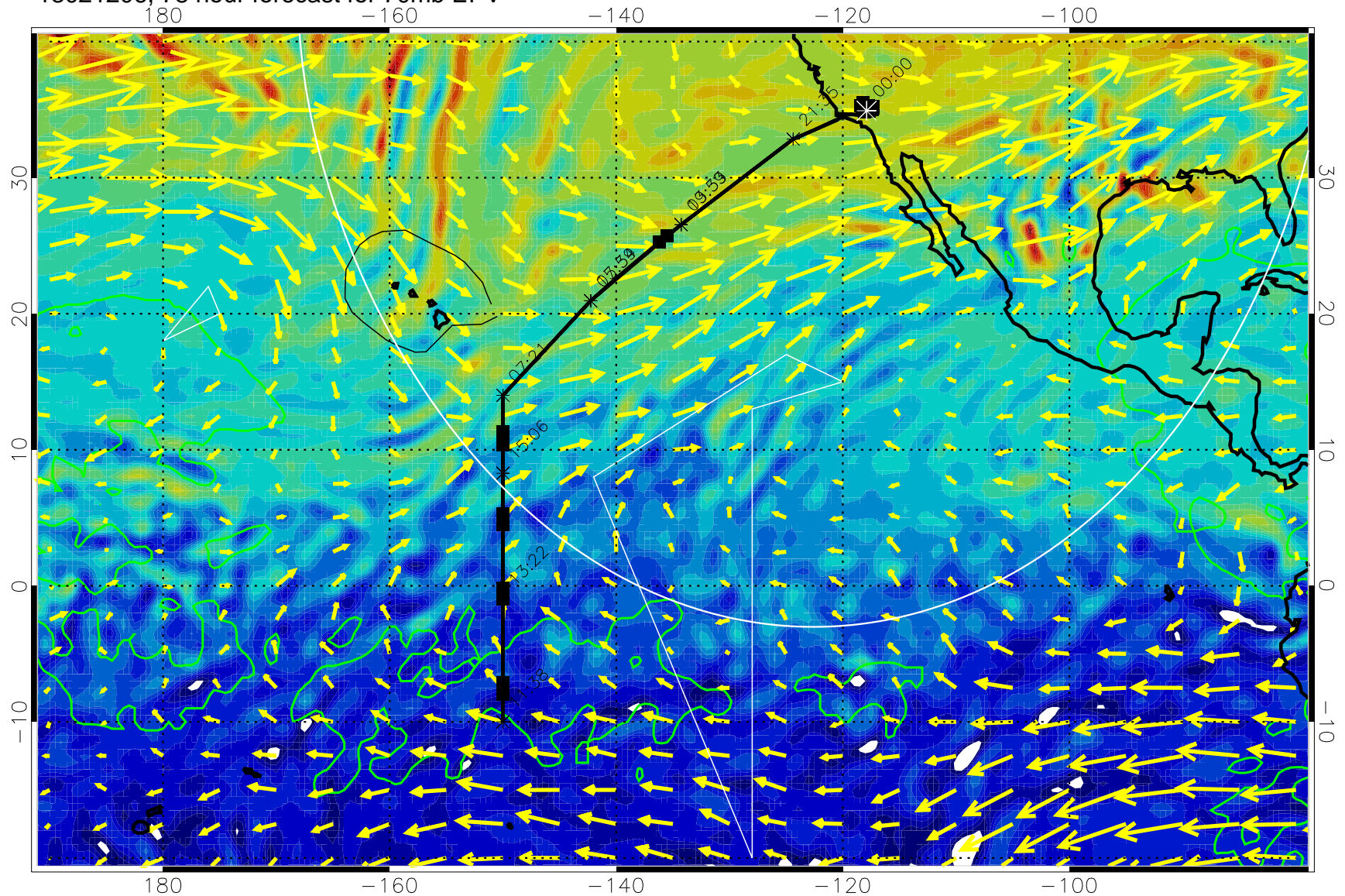
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021206, 78 hour forecast for 70mb EPV



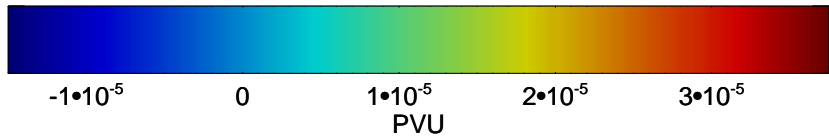
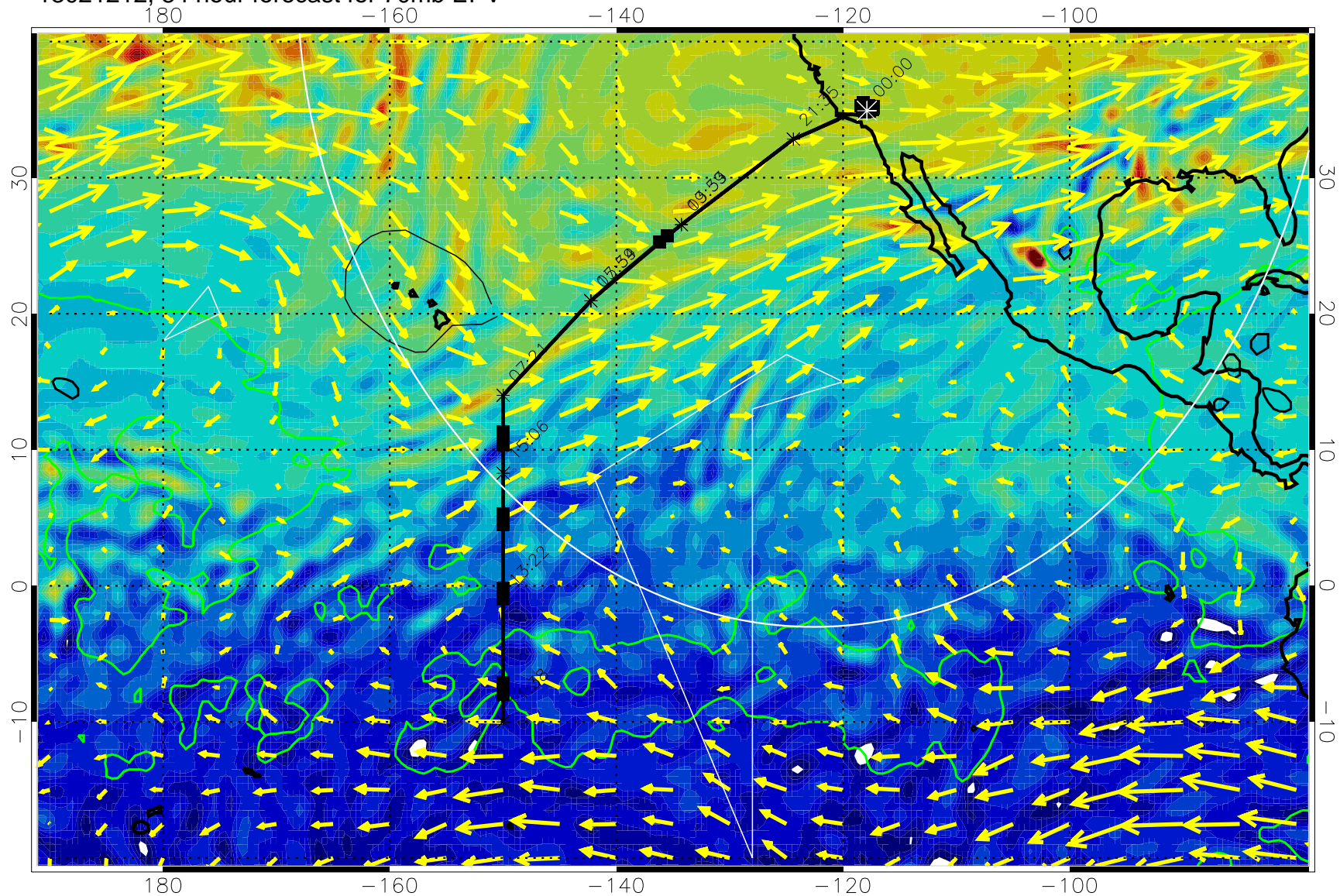
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021212, 84 hour forecast for 70mb EPV

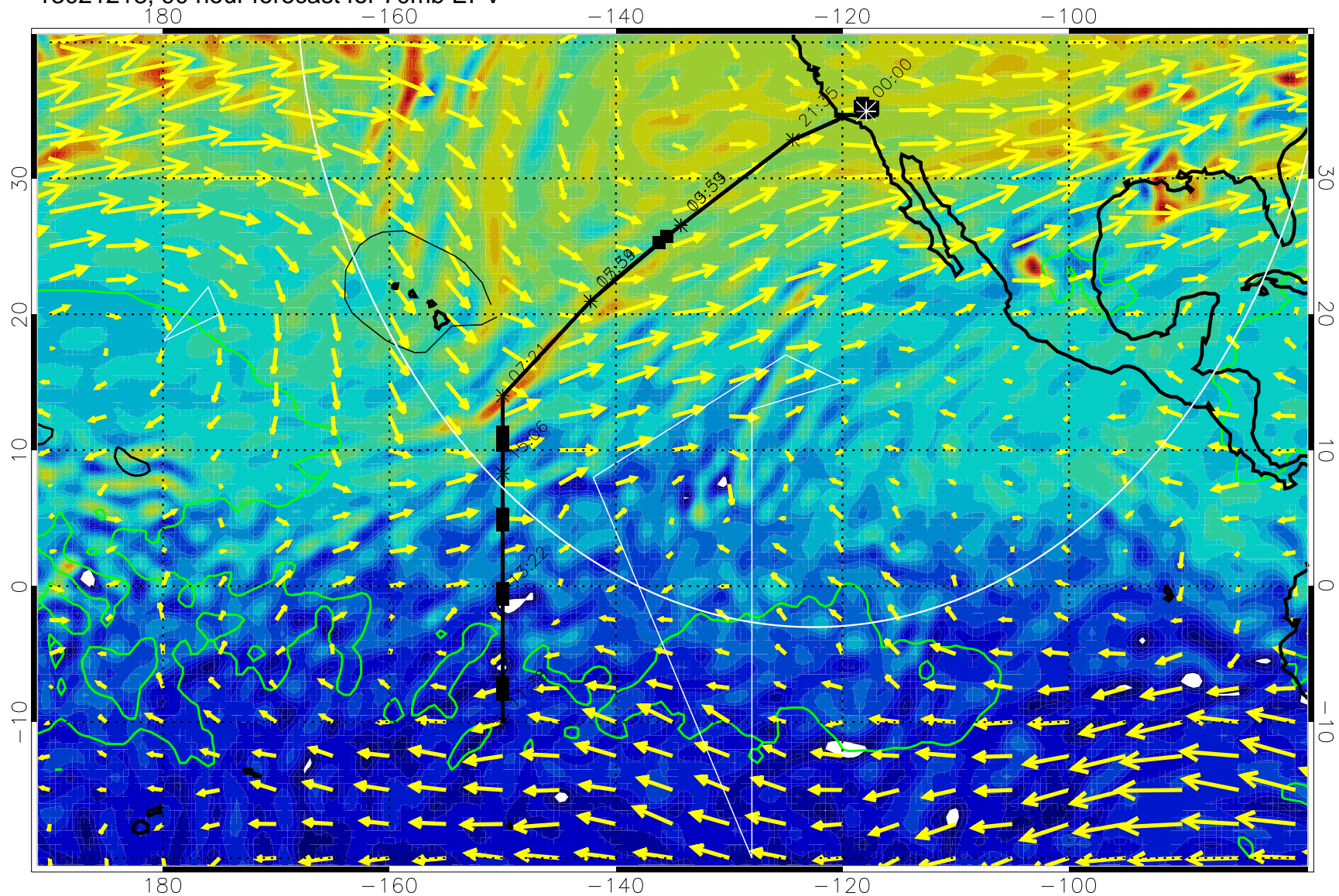


190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021218, 90 hour forecast for 70mb EPV



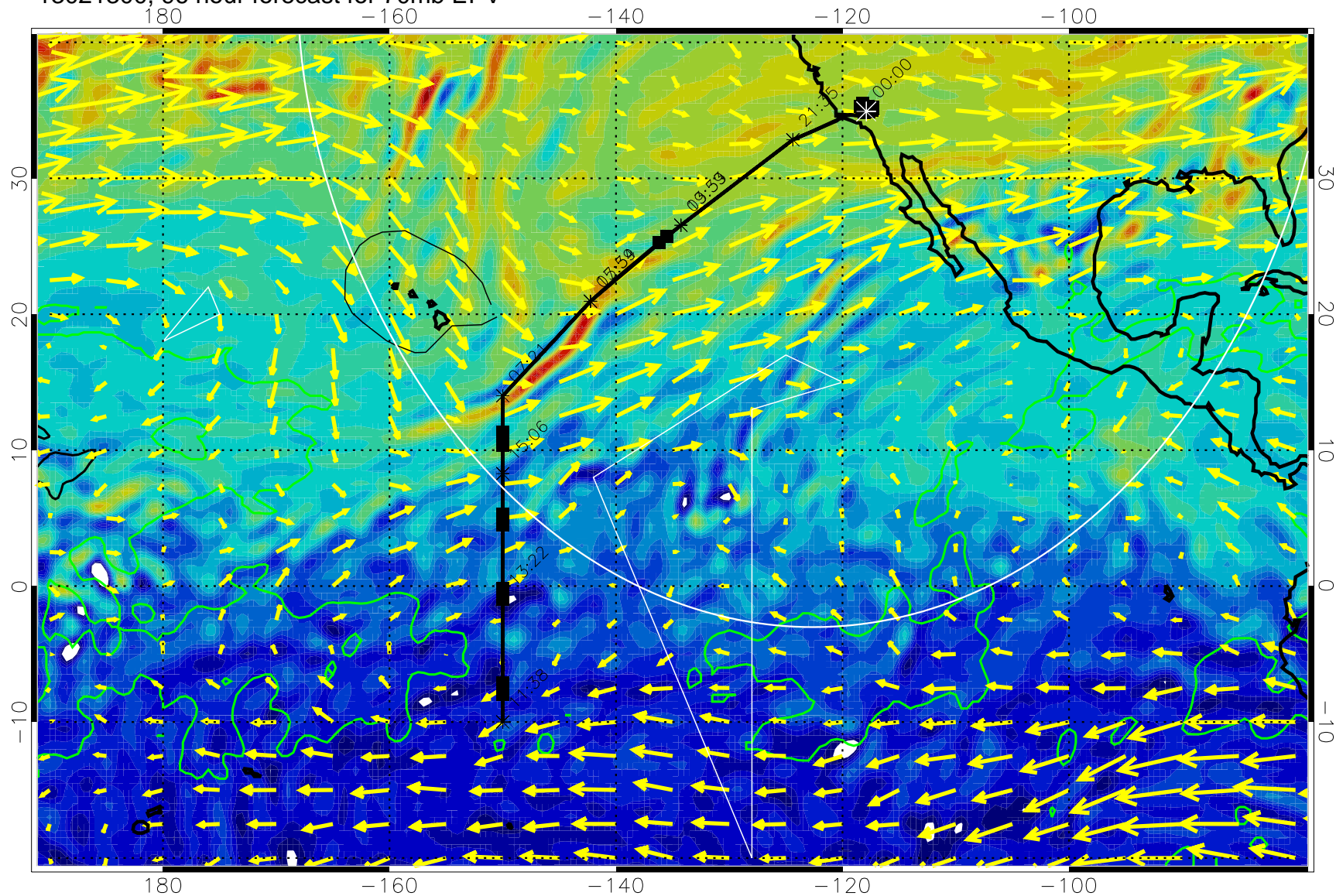
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021300, 96 hour forecast for 70mb EPV



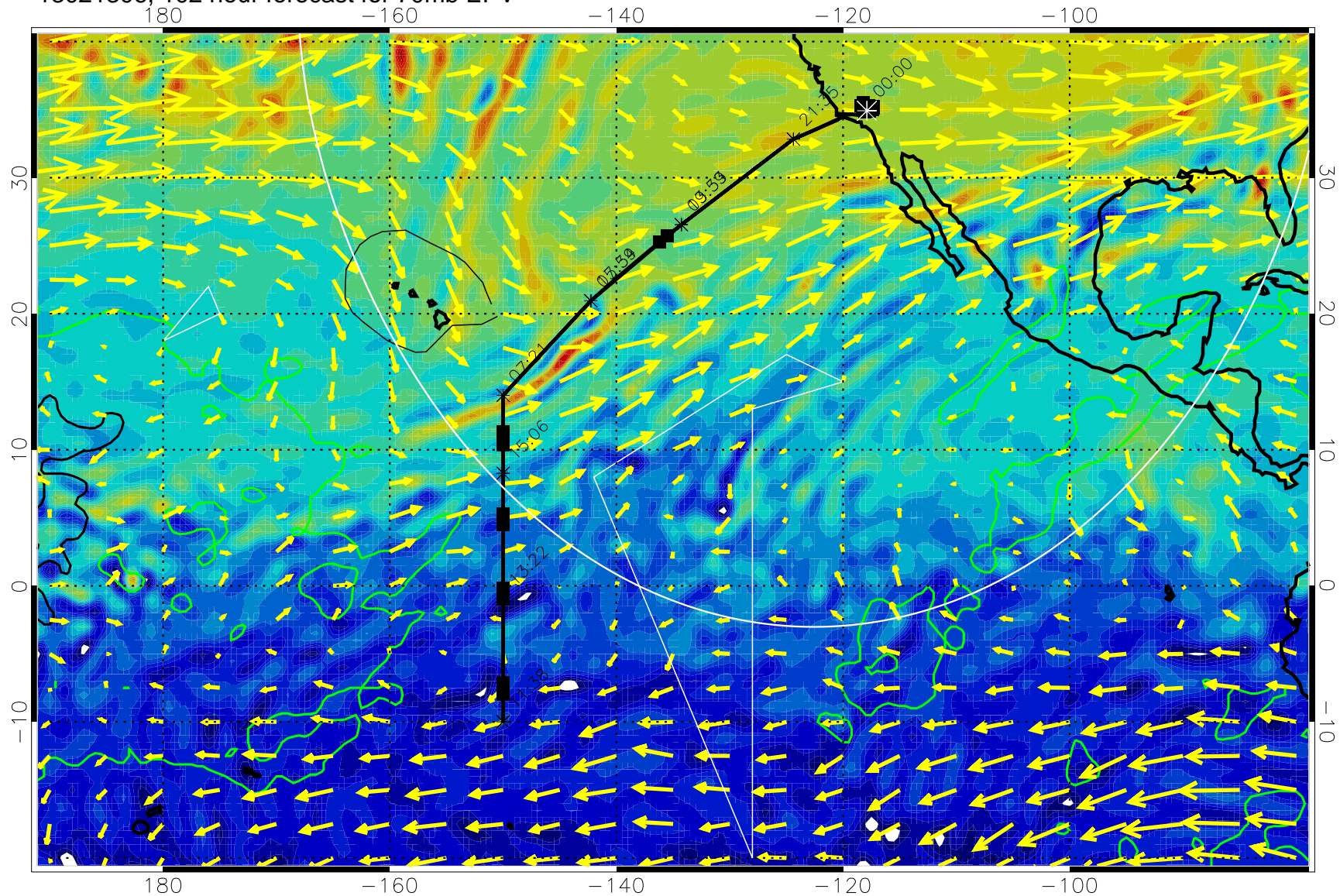
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021306, 102 hour forecast for 70mb EPV



$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

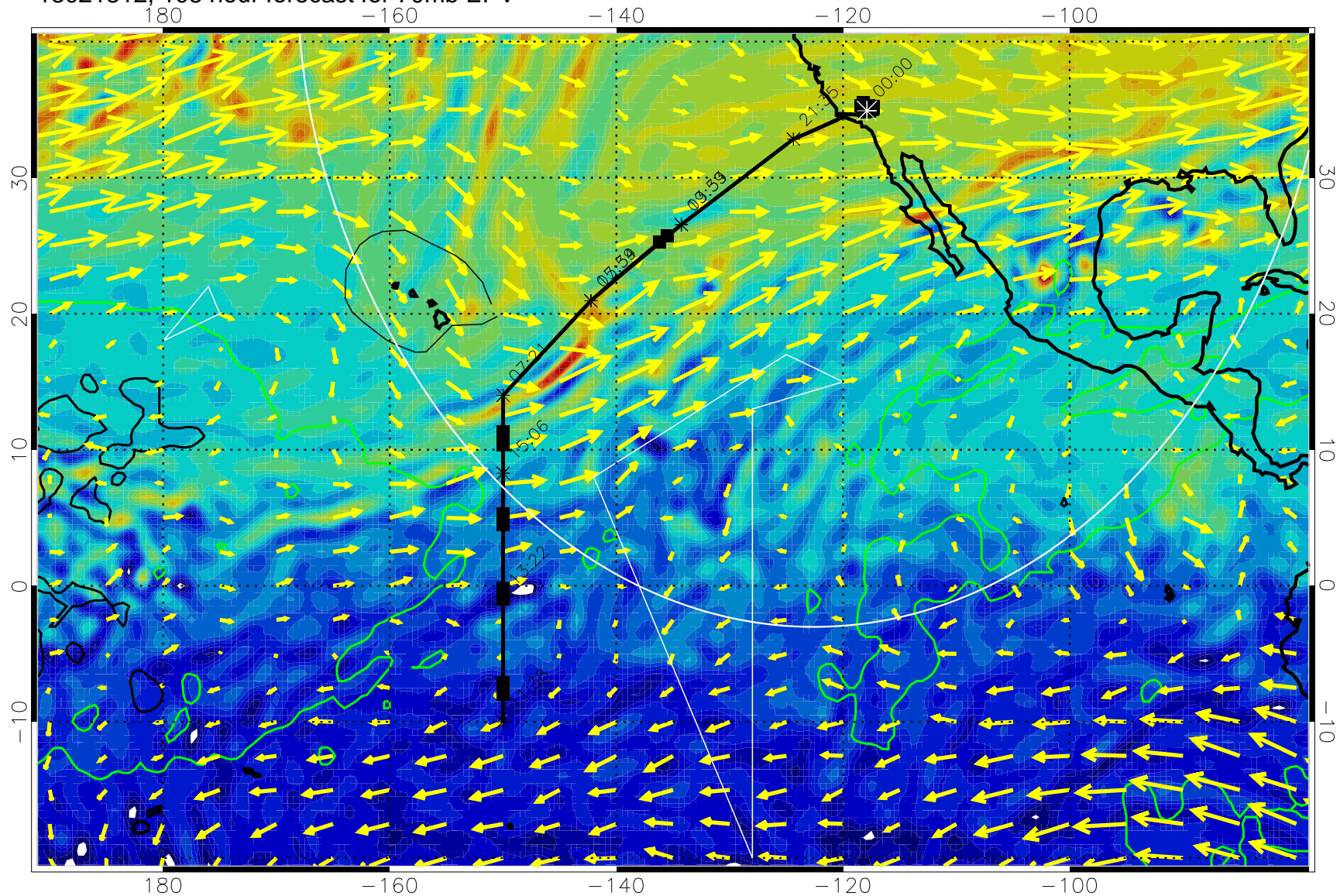
190K Isotherm    192.5K Isotherm

→ 30 m/s

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



13021312, 108 hour forecast for 70mb EPV

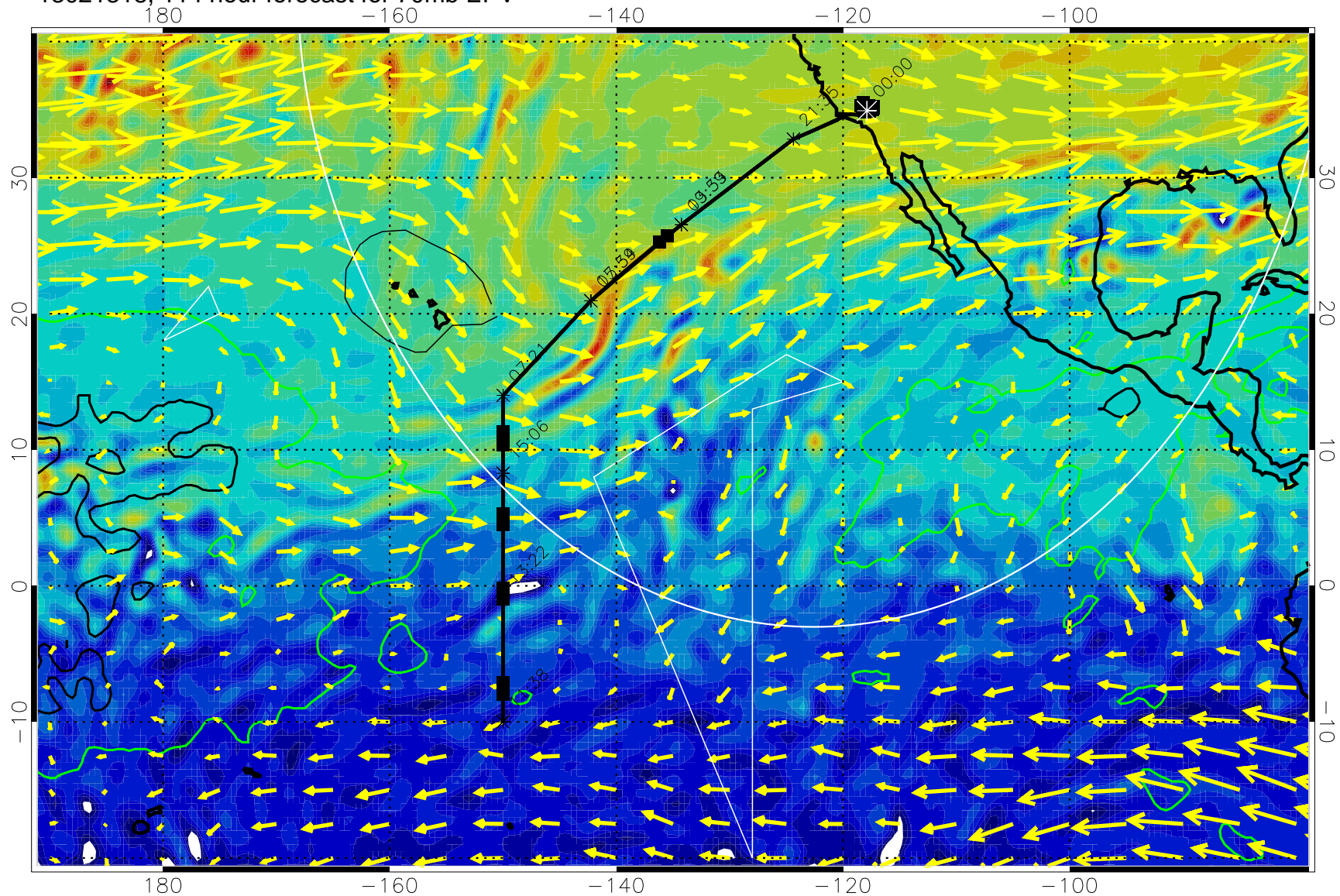


190K Isotherm 192.5K Isotherm

→ 30 m/s

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

13021318, 114 hour forecast for 70mb EPV



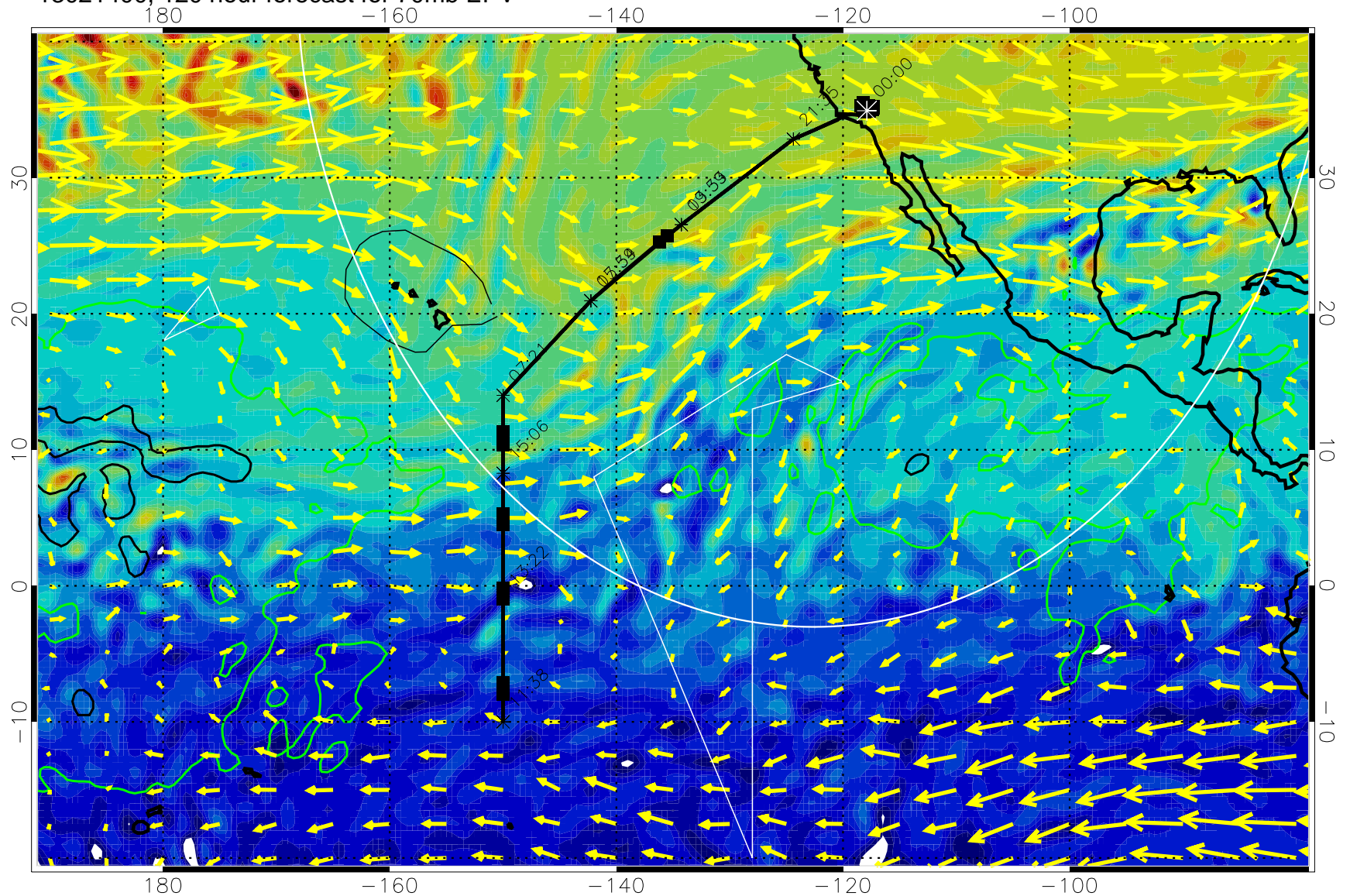
$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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

13021400, 120 hour forecast for 70mb EPV



$-1 \cdot 10^{-5}$     0     $1 \cdot 10^{-5}$      $2 \cdot 10^{-5}$      $3 \cdot 10^{-5}$   
PVU

190K Isotherm    192.5K Isotherm

→ 30 m/s

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