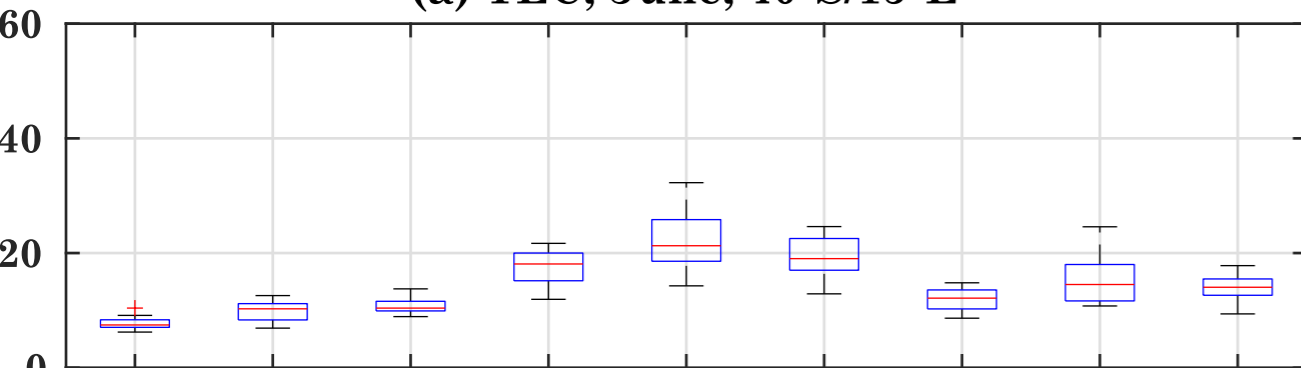
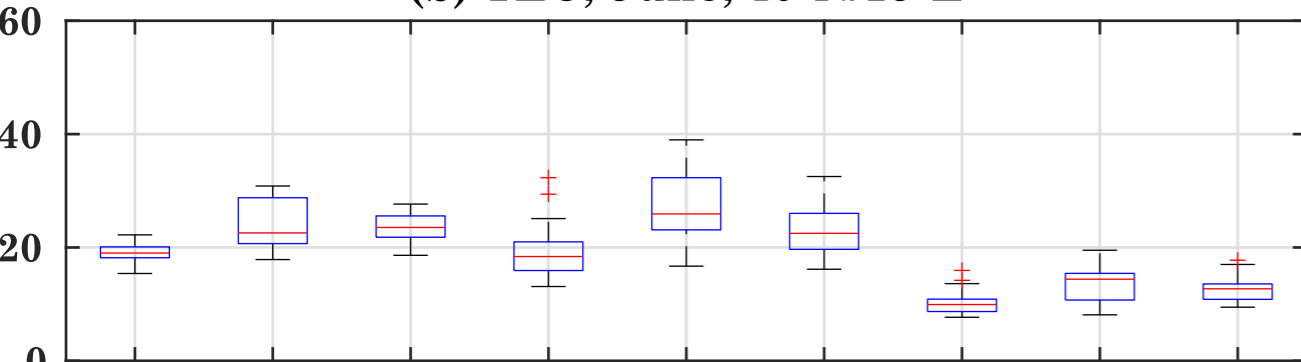
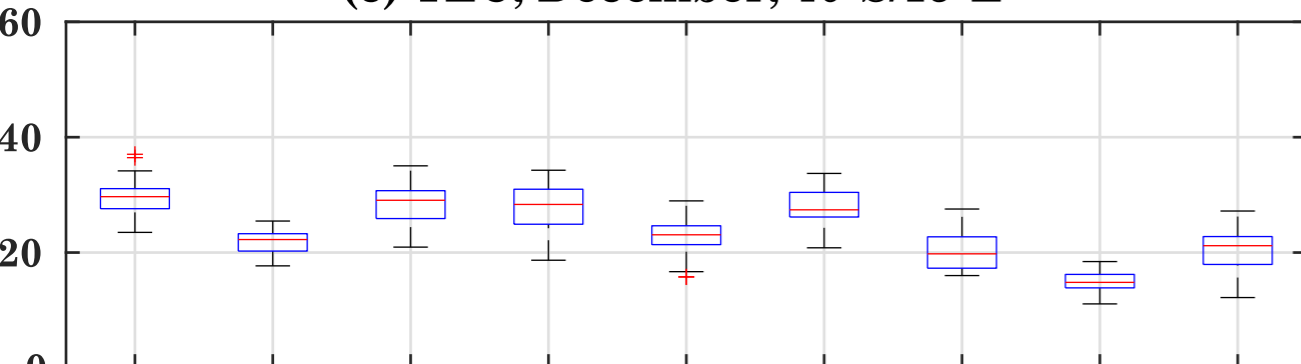
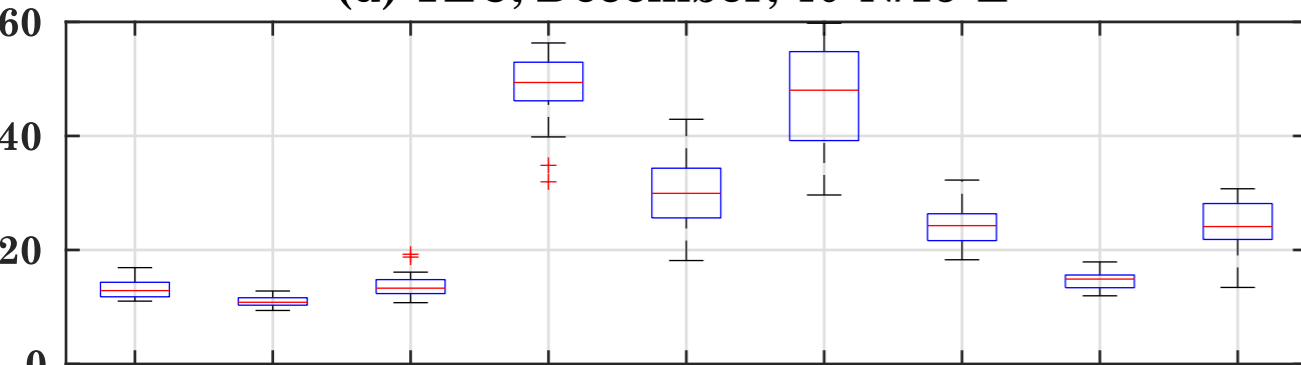
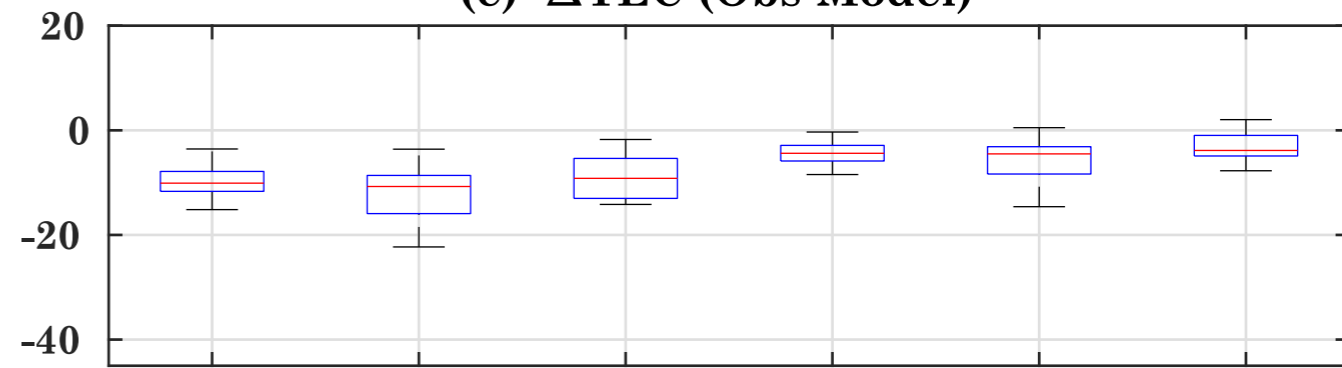
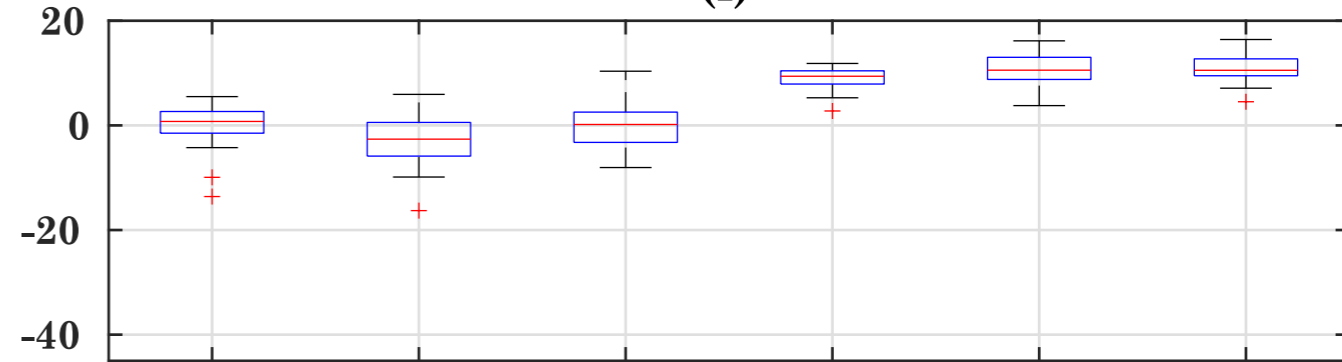
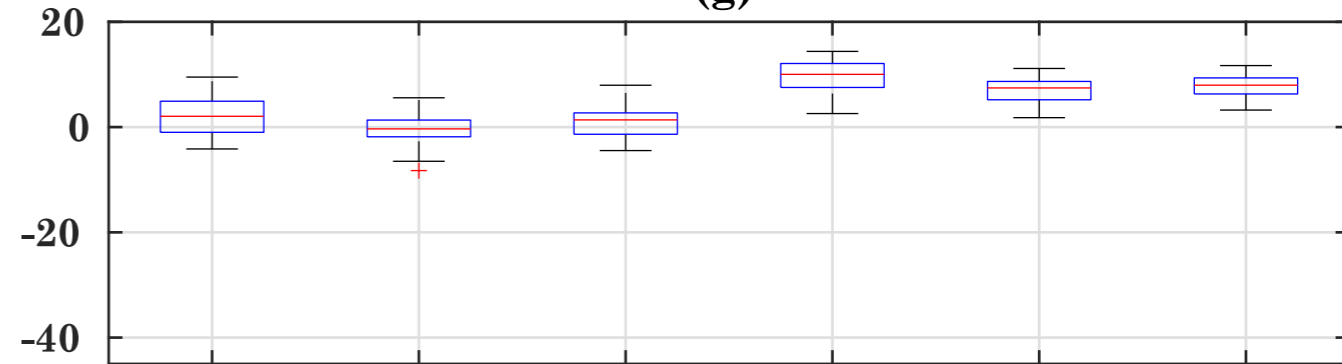
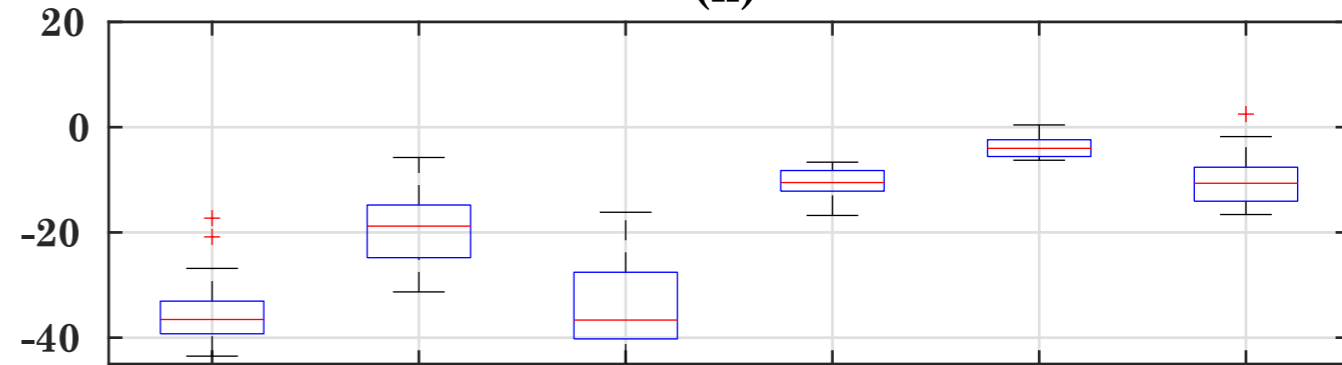


**(a) TEC, June, 40°S/15°E****(b) TEC, June, 40°N/15°E****(c) TEC, December, 40°S/15°E****(d) TEC, December, 40°N/15°E****(e)  $\Delta$ TEC (Obs-Model)****(f)****(g)****(h)**

O-2011 O-2012 O-2013 S-2011 S-2012 S-2013 E-2011 E-2012 E-2013

$\Delta$ S-2011  $\Delta$ S-2012  $\Delta$ S-2013  $\Delta$ E-2011  $\Delta$ E-2012  $\Delta$ E-2013