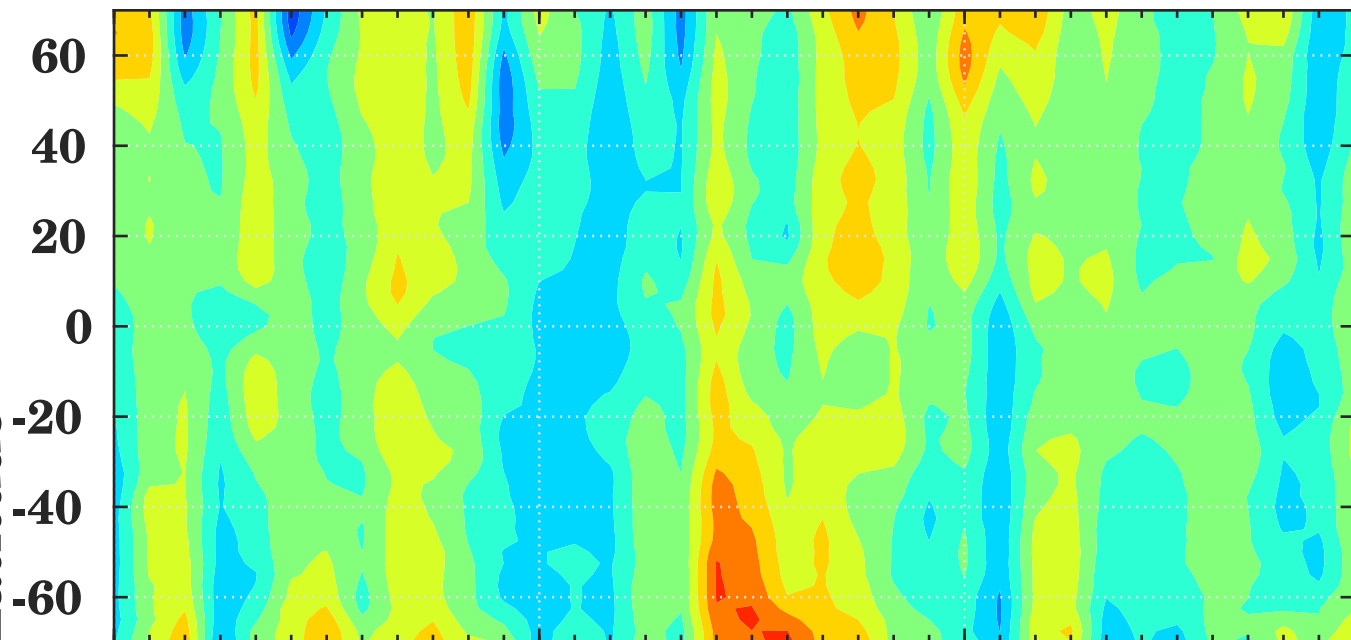
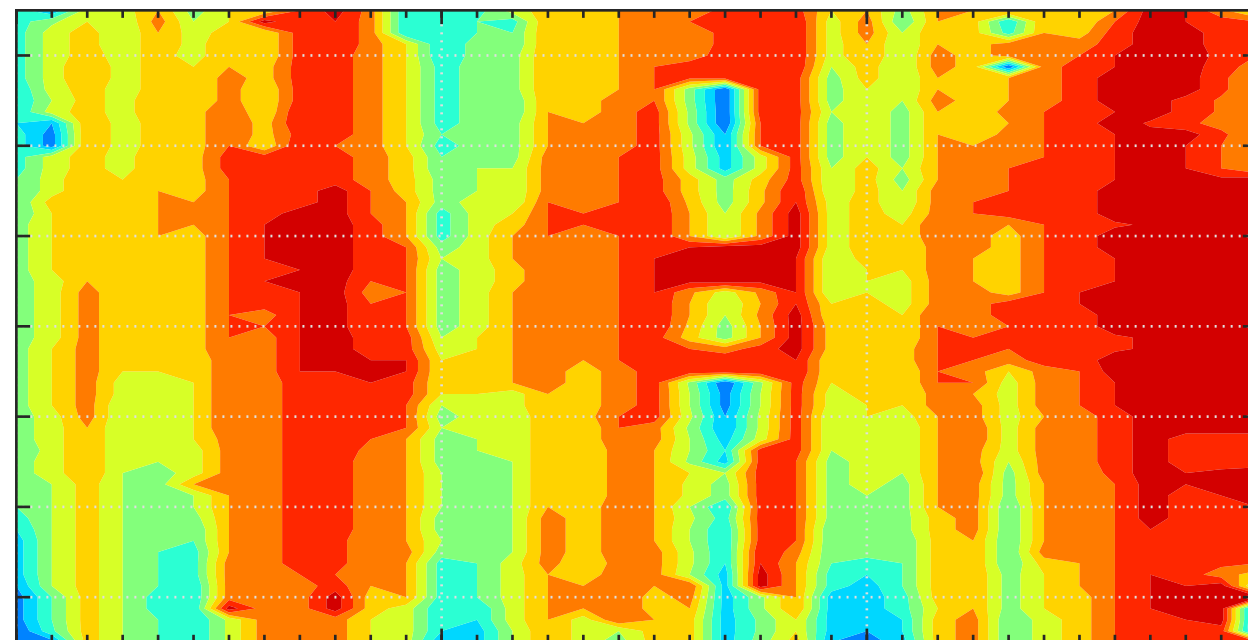
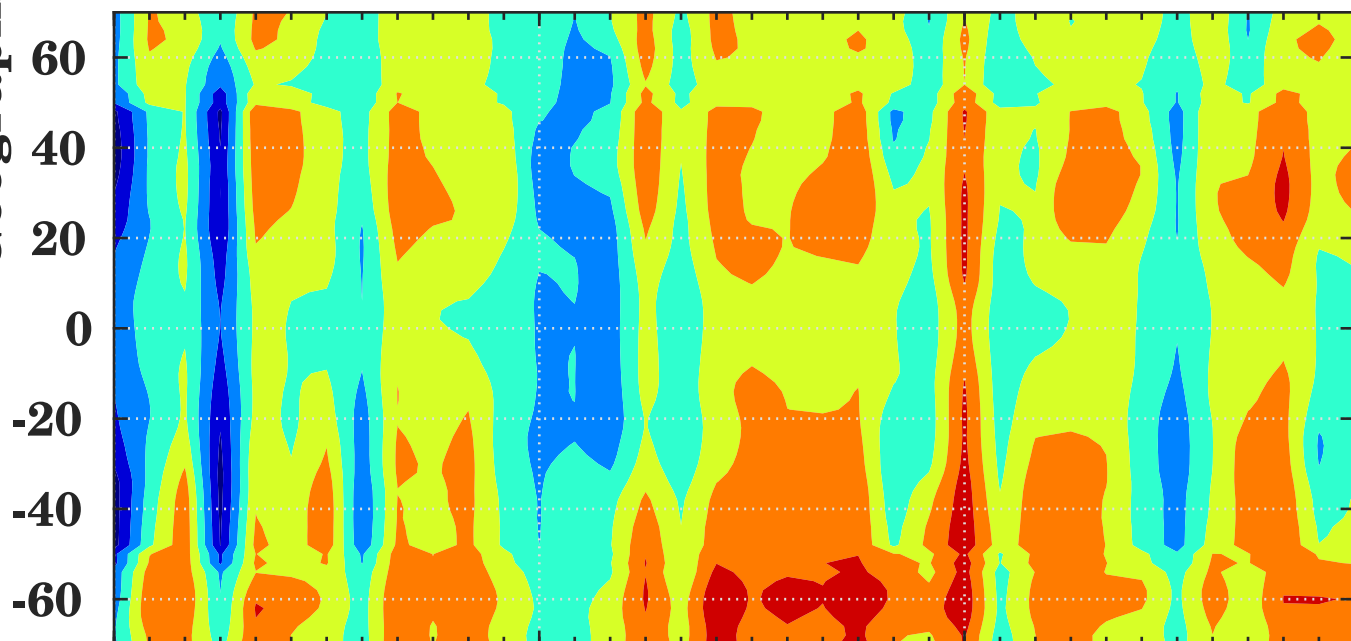
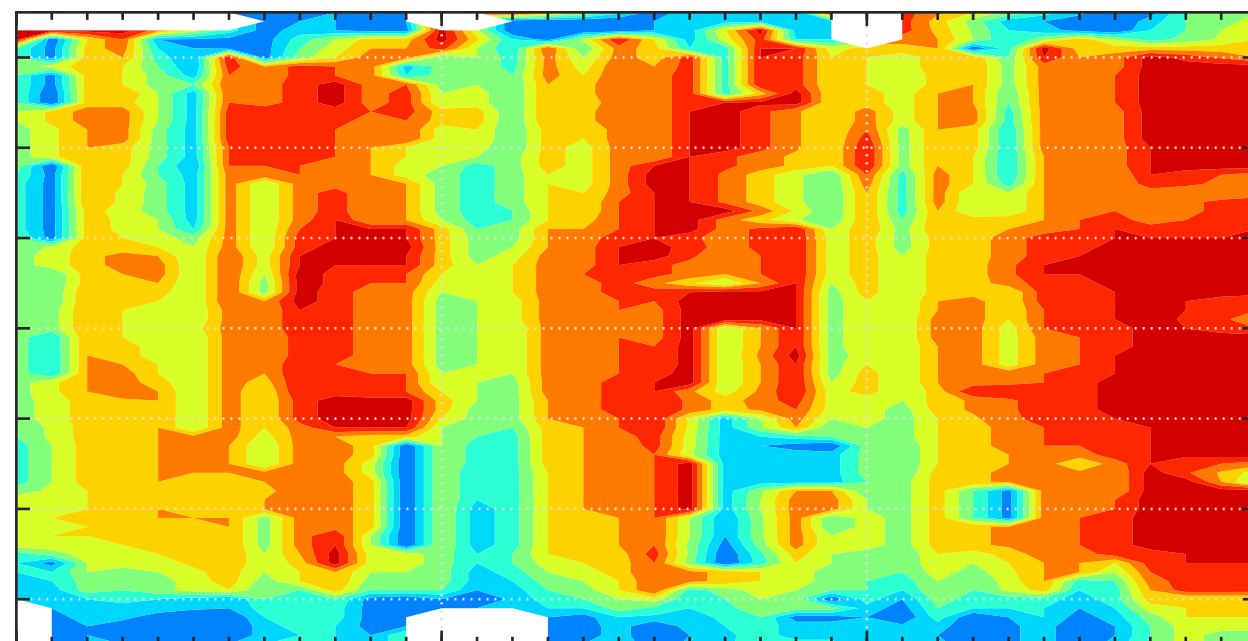


(a) Observed TEC**(b) Observed TEC****(c) CTIPe TEC****(d) CTIPe TEC**

2011

2012

2013

2011

2012

2013

-0.4

-0.2

0

0.2

0.4

0.6

Cross-correlation

0

5

10

15

20

Delay (hours)