

MJO Ray-Tracking Method

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)

$$[V(x,t)]_{10S-10N}$$

$$V'(x,t) = [V(x,t)]_{10S-10N} - \overline{[V]}_{10S-10N}^{t=1:N}$$

$$(R(x,t)_{s=2,3,\dots,M})_{t=1,2,3,\dots,N} \rightarrow V'(x,t)$$

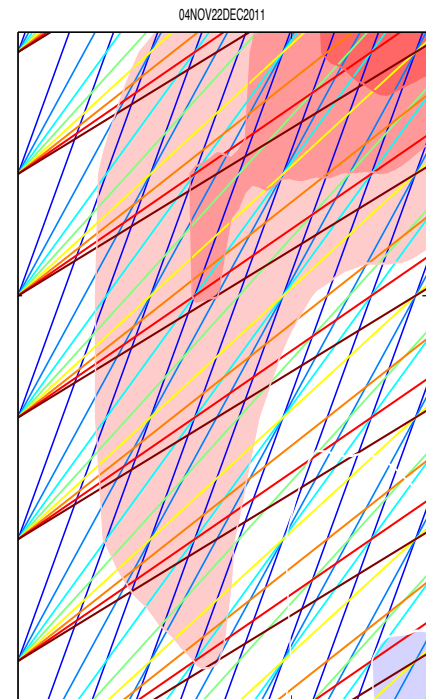
$$\|R_{s_{\max}}\|_{t=1,2,3,\dots,N} = \max \left(\sum_{R(x,t)} V(t,x) \right)$$

$$\|(R_{s_f}^*)_{t_{\max}}\| = \max \left(\|R_{s_{\max}}\|_{t=1,2,3,\dots,N} \right)$$

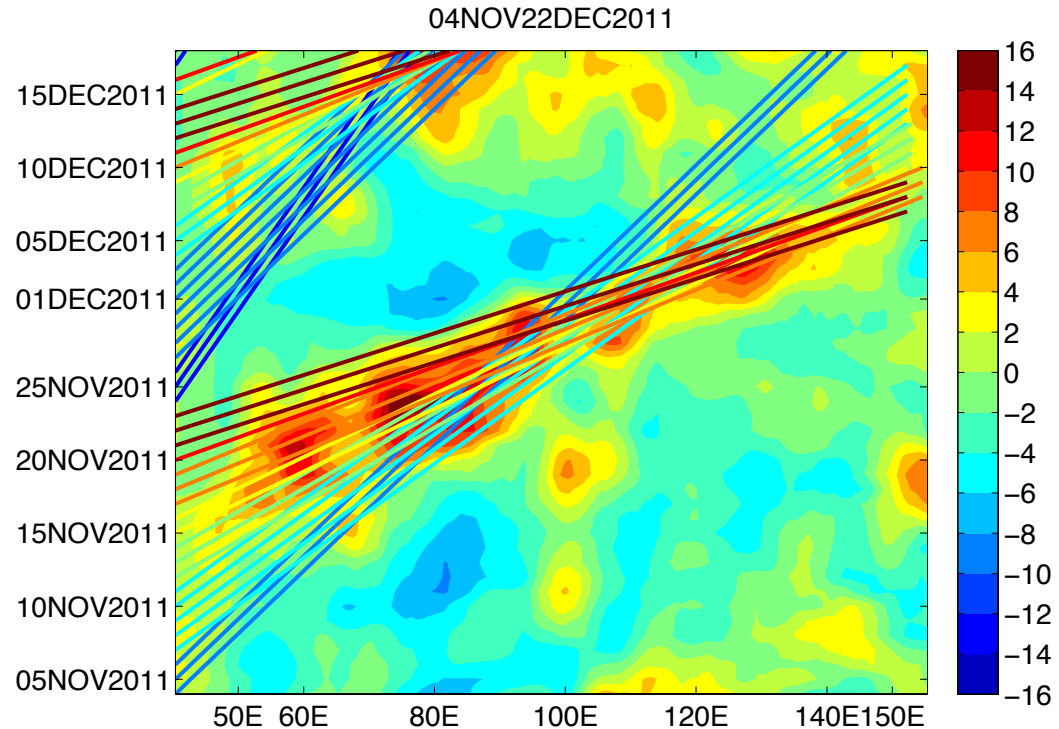
s_f = propagation speed

$$\|(R_{s_f}^*)_{t_{\max}}\| = \text{strenght}$$

$t_{ref} = t(x = x_{ini}) = t(x = 60E) = \text{reference time}$

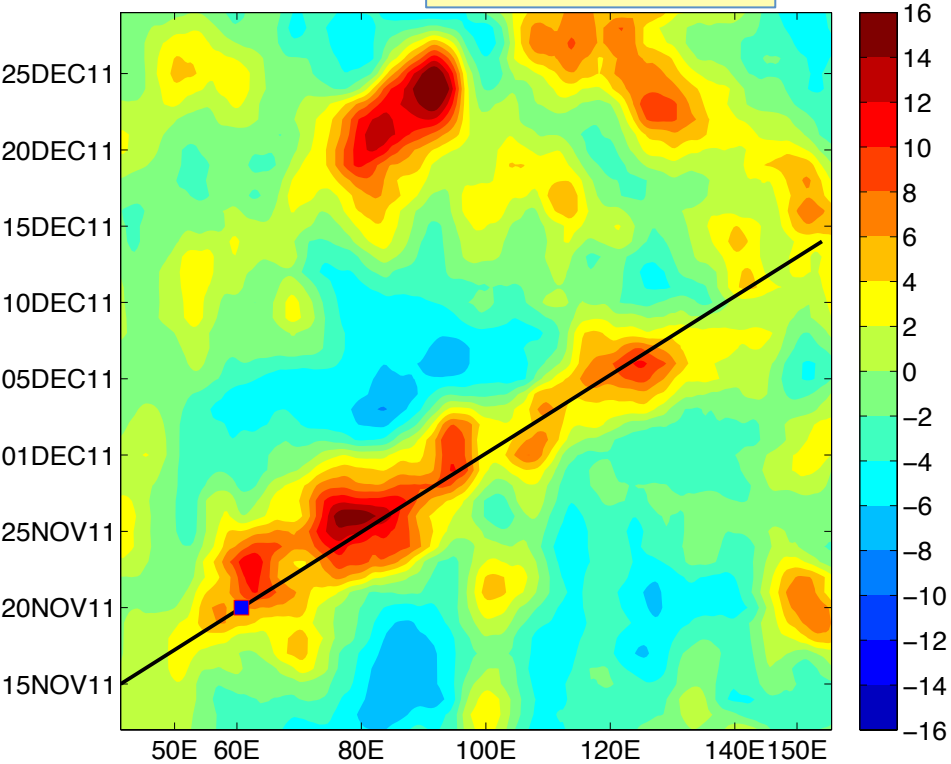


2m/s
3m/s
4m/s
5m/s
6m/s
7m/s
8m/s
9m/s



TRMM

20111110 TRMM [5m/s, 158.08mm, 20Nov]



WRF

20111110 TK SSTupdate [4m/s, 156.88mm, 18Nov]

