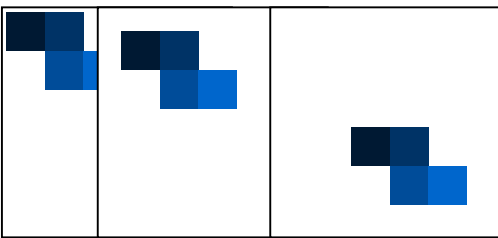
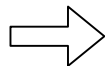


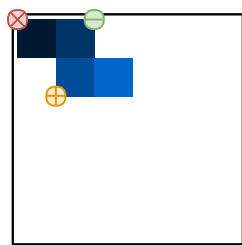
Read 24 last radar images



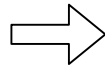
$Radar(t-23) \dots Radar(t)$



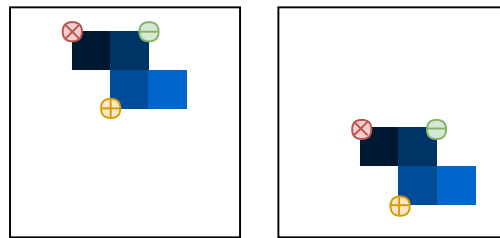
Detect features of interest on  
 $radar(t-23)$



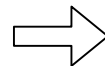
$Radar(t-23)$



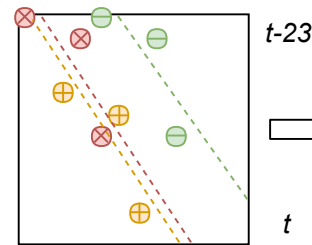
Track detected features  
on  $[radar(t-22) \dots radar(t)]$



$Radar(t-22) \dots Radar(t)$

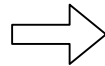


Build linear regression model  
for every feature:  
 $(x, y) = f(t)$



$t-23$

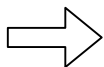
$t$



Calculate new features' coordinates for  
every lead time  $n$

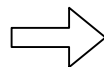


$$(x', y') = f(t+n)$$

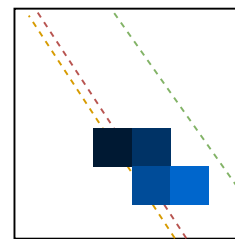


Calculate transformation matrix for  
every lead time  $n$

$$\begin{bmatrix} x' \\ y' \end{bmatrix} = M \begin{bmatrix} x \\ y \end{bmatrix}$$

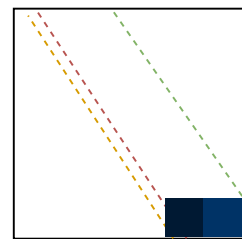


Transform  $radar(t)$  alongside derived transformation  
matrices for every lead time  $n$



$Radar(t)$

$$\times M_n =$$



$Nowcast(t+n)$