

- resolution
- resolution
- Recover one delay-Doppler map in $CPI=M\tau$
- Recover k delay-Doppler maps in $CPI=M\tau$



the range/Doppler resolution

$$\kappa(t) = \sum_{p=0}^{P-1} \sum_{l=0}^{L-1} \alpha_l h(t - \tau_l - m_p \tau) e^{-j\omega_l m_p}$$

$$c_p[k] = \frac{1}{\tau} H\left(\frac{2\pi k}{\tau}\right) \sum_{l=0}^{L-1} \alpha_l e^{-j\omega_l m_p \tau} e^{-j2\pi \tau}$$





| Nyquist rate | 10 MHz |
|-------------------|---------|
| Sampling rate | 320 KHz |
| Num. of targets L | 3-6 |
| PRI τ | 1 msec |
| Num. of pulses M | 100 |
| CPI Μτ | 0.1 sec |