

① whatever is the range of latitude/longitude ~~available~~ you want to scan.

July 6  
③

$\left\{ \begin{array}{ll} \text{min lat} & \text{max lat} \\ \text{min long} & \text{max long} \end{array} \right.$

② chunk size  $\rightarrow$  define you want to keep.  $\left\{ \begin{array}{ll} \text{chunk lat} & \text{--- size/range of lat} \\ \text{chunk long} & \text{--- size/range of long} \end{array} \right.$

③ obtain bounds.

start from  $\left\{ \begin{array}{ll} \text{min lat} \\ \text{min long} \end{array} \right.$   $\xrightarrow{+ \text{ add}}$   $\left\{ \begin{array}{ll} \text{chunk lat} & \text{--- max lat chunk} \\ \text{chunk long} & \text{--- max long chunk} \end{array} \right.$   
 $\begin{array}{l} \text{min lat chunk} \\ \text{max long chunk} \end{array}$

rectangle  $(\underbrace{l, b}_{\text{lower}}, \underbrace{l, b}_{\text{upper}})$

$\begin{array}{ll} l & \text{longitude} \quad \text{ra} \\ b & \text{latitude} \quad \text{dec} \end{array}$

