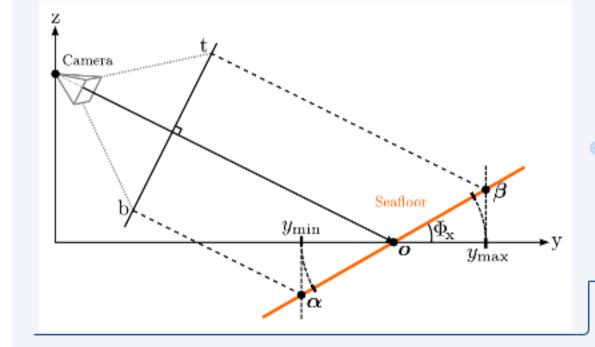


Projection boundaries



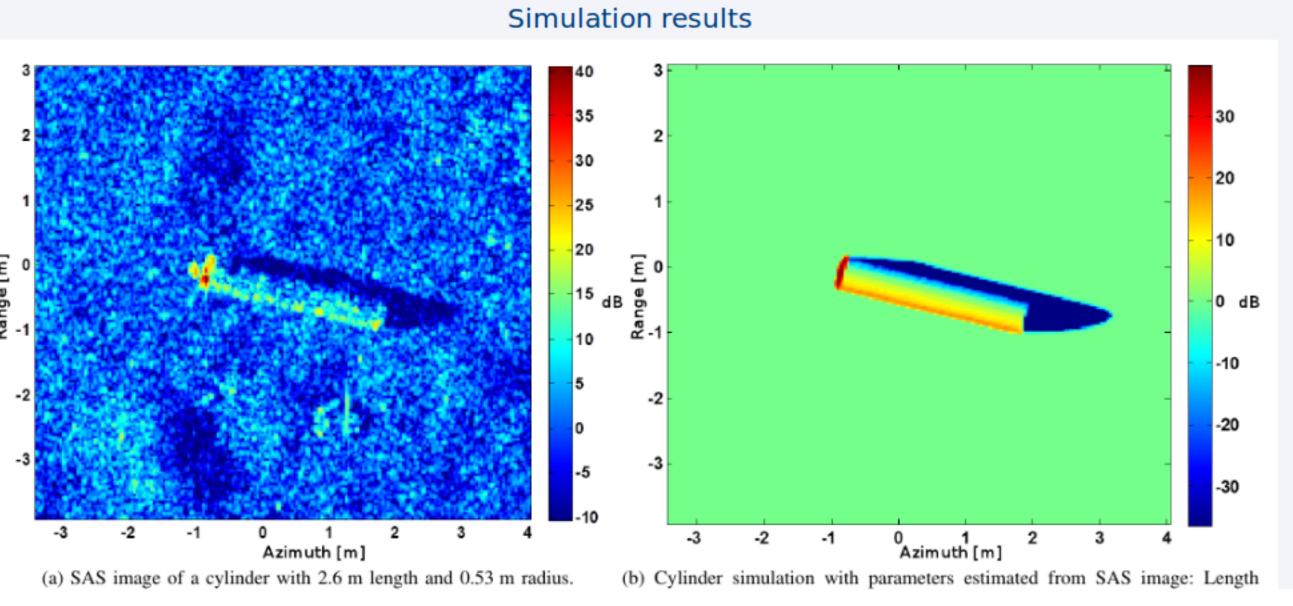
$$\mathbf{P} = \begin{pmatrix} \frac{2}{r-l} & 0 & 0 & -\frac{r+l}{r-l} \\ 0 & \frac{2}{t-b} & 0 & -\frac{t+b}{t-b} \\ 0 & 0 & \frac{-2}{f-n} & -\frac{f+n}{f-n} \\ 0 & 0 & 0 & 1 \end{pmatrix}$$

V: View Matrix

$$\mathbf{V} = \mathbf{T}(x_{c}, y_{c}, z_{c}) \cdot \mathbf{R}_{x}(\phi_{x}, 0, 0)
= \begin{bmatrix} 1 & 0 & 0 & x_{c} \\ 0 & 1 & 0 & y_{c} \\ 0 & 0 & 1 & z_{c} \\ 0 & 0 & 0 & 1 \end{bmatrix} \cdot \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & \cos \phi_{x} & -\sin \phi_{x} & 0 \\ 0 & \sin \phi_{x} & \cos \phi_{x} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix},$$

M: Model Matrix

$$\begin{bmatrix} x_t \\ y_t \\ z_t \\ w \end{bmatrix}_{\substack{\text{transformed} \\ \text{model}}} = \boldsymbol{T} \cdot \boldsymbol{R} \cdot \boldsymbol{S} \begin{bmatrix} x \\ y \\ z \\ w \end{bmatrix}_{\substack{\text{mo}}}$$



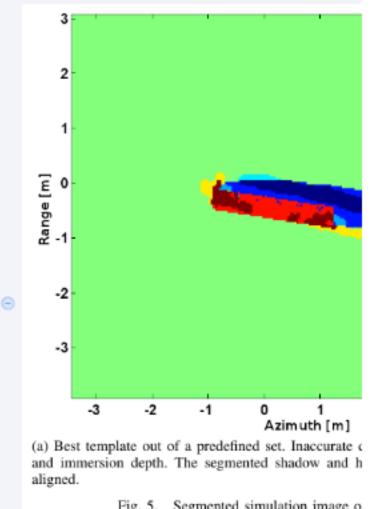


Fig. 5. Segmented simulation image o Template highlight and i