Name	Kernel	Str.	Input	OutDim		
Img	Input image			$H \times W \times 4$		
Base	7 × 7,64	2	Img	$\frac{1}{2}$ H $\times \frac{1}{2}$ W $\times 64$		
Pool0	3 × 3	2	Base	$\frac{1}{4}$ H $\times \frac{1}{4}$ W $\times 64$		
Res1	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix} \times 3$	1	Pool0	$\frac{1}{4}\text{H} \times \frac{1}{4}\text{W} \times 256$		
Res2	$\begin{bmatrix} 1 \times 1, 128 \\ 3 \times 3, 128 \\ 1 \times 1, 512 \end{bmatrix} \times 3$	2	Res1	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 512$		
Res3	$\begin{bmatrix} 1 \times 1, 256 \\ 3 \times 3, 256 \\ 1 \times 1, 1024 \end{bmatrix} \times 3, \text{ dila.=2}$	1	Res2	$\frac{1}{8}\text{H} \times \frac{1}{8}\text{W} \times 1024$		
Res4	$\begin{bmatrix} 1 \times 1, 512 \\ 3 \times 3, 512 \\ 1 \times 1, 2048 \end{bmatrix} \times 3, \text{ dila.=5}$	1	Res3	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 2048$		
Conv4	1 × 1,256	1	Res4	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 256$		
Conv3	1 × 1,256	1	Res3	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 256$		
Conv2	1 × 1,256	1	Res2	$\frac{1}{8}$ H $ imes \frac{1}{8}$ W $ imes$ 256		
Concat						
Feat5_0		1	Conv4 Conv3 Conv2	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 768$		
Feat5_1	3 × 3, 256	1	Feat5_0	$\frac{1}{8}\text{H} \times \frac{1}{8}\text{W} \times 256$		
Feat5_2	1 × 1, 256	1	Feat5_1	$\frac{1}{8}\text{H} \times \frac{1}{8}\text{W} \times 256$		
SE block						
Feat5_3	Please refer to [1] for details		Feat5_2	$\frac{1}{8}$ H $ imes \frac{1}{8}$ W $ imes$ 256		
Feat5_4	3 × 3, 256	1	Feat5_3	$\frac{1}{8}$ H $\times \frac{1}{8}$ W $\times 256$		
Res1_1	1 × 1,48	1	Res1	$\frac{1}{4}$ H $ imes \frac{1}{4}$ W $ imes$ 48		
Concat						
Merge_0	Bilinear upsampling	1	Feat5_4 Res1_1	$\frac{1}{4}$ H $ imes \frac{1}{4}$ W $ imes$ 304		
Output	3 × 3, 3	1	Merge_0	$H \times W \times 3$		

Table S1: Specification of our network architecture

Bilinear upsampling		
Diffical upsattipilitg		

 Hu, J.; Shen, L.; Albanie, S.; Sun, G.; Wu, E. Squeeze-and-Excitation Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 2019, 1–1, doi:10.1109/TPAMI.2019.2913372.