

$$\begin{array}{ccccccc}
& & 0 & & 0 & & 0 \\
& & \downarrow & & \downarrow & & \downarrow \\
\bullet & \xrightarrow{-} & (C, K) & \xrightarrow{-i_*} & (C, X) & \xrightarrow{-p_*} \twoheadrightarrow & (C, Y) \longrightarrow 0 \\
\downarrow & & \downarrow q^* & & \downarrow q^* & & \downarrow q^* \\
\bullet & \xrightarrow{-} & (B, K) & \xrightarrow{i_*} & (B, X) & \xrightarrow{p_*} & (B, Y) \xrightarrow{\varepsilon!} \mathbb{E}(B, K) \twoheadrightarrow \bullet \\
\downarrow & & \downarrow j^* & & \downarrow j^* & & \downarrow j^* \\
\bullet & \xrightarrow{-} & (A, K) & \xrightarrow{-i_*} & (A, X) & \xrightarrow{-p_*} & (A, Z) \xrightarrow{-\varepsilon!} \mathbb{E}(A, K) \twoheadrightarrow \bullet \\
& & \downarrow & & \downarrow \delta! & & \downarrow \delta! \\
& & 0 & \longrightarrow & \mathbb{E}(C, X) \hookrightarrow & \mathbb{E}(C, Y) \longrightarrow & M \twoheadrightarrow \bullet \\
& & & & \downarrow & & \downarrow \\
& & & & 0 & & 0
\end{array}$$

Additional annotations:
 

- Red arrow:  $\swarrow -1$
- Blue arrow:  $\swarrow 0$
- Black arrow:  $\swarrow 1$