$$\cdots \longrightarrow MC_{k,l}(G) \xrightarrow{\partial} MC_{k-1,l}(G) \longrightarrow \cdots$$

$$\left. f_{\#}^{k,l} \right\downarrow \qquad \circlearrowleft \qquad \left. f_{\#}^{k-1,l} \right\downarrow$$

$$\cdots \longrightarrow MC_{k,l}(H) \xrightarrow{\partial} MC_{k-1,l}(H) \longrightarrow \cdots$$