Show that theorem 3.4.4 is equivalent to the monadicity of the functor $G^+ : \mathrm{Comp}^+ \to \mathrm{Set}^+$ described below.

- Let Comp^+ be the category of pairs $(X, \mathcal{F})$, where X is a compact Hausdorff space and $\mathcal{F}$ is a sheaf on X, with morphisms from $(X, \mathcal{F})$ to $(X', \mathcal{F}')$ given by continuous functions $f : X \to X'$ together with a map of sheaves $f^* : \mathcal{F}' \to \mathcal{F}$ on X.
- Let Set^+ be the category of pairs $(X, \mathcal{F})$, where X is a set with the discrete topology and $\mathcal{F}$ is a sheaf on X, with morphisms defined as for Comp^+.
- We define the functor $G^+ : \mathrm{Comp}^+ \to \mathrm{Set}^+$ by sending $(X, \mathcal{F})$ to $(X^{\mathrm{disc}}, \mathcal{F}|_{X^{\mathrm{disc}}})$, where X^{disc} denotes the underlying set of X with the discrete topology and $\mathcal{F}|_{X^{\mathrm{disc}}}$ denotes the pullback of $\mathcal{F}$ to X^{disc}.