$$\begin{array}{ccccc}
\mathcal{O}(K_M\otimes[V])(U) & \xrightarrow{\text{restriction}} & \mathcal{O}(K_M\otimes[V])(V\cap U) & \xleftrightarrow{\ \cong\ } & \mathcal{O}(K_V)(U\cap V) \\
\rotatebox{90}{$\in$} & & \rotatebox{90}{$\in$} & & \rotatebox{90}{$\in$} \\
\omega = g(z)\,dz_1\wedge\cdots\wedge dz_n\otimes\sigma & & \omega|. & \longleftrightarrow & \omega'
\end{array}$$

$$\begin{tikzcd}
\mathcal{O}(K_M\otimes[V])(U\cap V)\otimes\mathcal{O}([-V])(U\cap V) \arrow[rr, leftrightarrow] \arrow[dr, leftrightarrow, "\cong"'] & & \mathcal{O}(K_V)(U\cap V)\wedge\mathcal{O}([-V])(U\cap V) \arrow[dl, leftrightarrow, "\cong"] \\
& \mathcal{O}(K_M)(U\cap V) &
\end{tikzcd}$$

$$\omega| \otimes df \qquad\qquad \omega'\wedge df$$

$\sigma\otimes df = 1$ on V.

$$\omega|\otimes df = g(z)\,dz_1\wedge\cdots\wedge dz_n\Big|$$

$$\omega'\wedge df = g(z)\,dz_1\wedge\cdots\wedge dz_n\Big|_V$$

$$\Downarrow$$

$$\omega'\wedge\frac{df}{f} = \frac{df}{f}\wedge\omega' = \frac{g\,dz_1\wedge\cdots\wedge dz_n}{f}$$

on V.