$$(\mathbb{S}^{3} \setminus \{(0,-i)\}, \alpha_{\mathbb{S}^{3}}) \to (\mathbb{R}^{3}, dz' + x'dy' - y'dx') \cong \mathbb{C} \times \mathbb{R};$$

$$(z_{1}, z_{2}) \mapsto \left(\frac{iz_{1}}{i+z_{2}}, \frac{-\Re(z_{2})}{|i+z_{2}|^{2}}\right);$$

$$(\cos\theta, \sin\theta) \mapsto \left(\frac{\cos\theta}{1+\sin^{2}\theta} \frac{\cos\theta\sin\theta}{1+\sin^{2}\theta} \frac{-\sin\theta}{1+\sin^{2}\theta}\right).$$