

**Table S2 – Covariance between glaciological characteristics****Baltoro Glacier**

	<b>Aspect</b>	<b>Slope</b>	<b>Curvature</b>	<b>Velocity</b>	<b>Elevation</b>
<b>Aspect</b>	1.00	-	-	-	-
<b>Slope</b>	0.279	1.00	-	-	-
<b>Curvature</b>	-0.025	-0.093	1.00	-	-
<b>Velocity</b>	-0.170	-0.429	0.083	1.00	-
<b>Elevation</b>	0.163	0.493	-0.010	-0.065	1.00

**Satopanth Glacier**

	<b>Aspect</b>	<b>Slope</b>	<b>Curvature</b>	<b>Velocity</b>	<b>Elevation</b>
<b>Aspect</b>	1.00	-	-	-	-
<b>Slope</b>	0.098	1.00	-	-	-
<b>Curvature</b>	-0.009	-0.036	1.00	-	-
<b>Velocity</b>	0.026	-0.126	0.029	1.00	-
<b>Elevation</b>	0.032	-0.023	0.023	0.342	1.00

**Ngozumpa Glacier**

	<b>Aspect</b>	<b>Slope</b>	<b>Curvature</b>	<b>Velocity</b>	<b>Elevation</b>
<b>Aspect</b>	1.00	-	-	-	-
<b>Slope</b>	0.048	1.00	-	-	-
<b>Curvature</b>	-0.011	-0.006	1.00	-	-
<b>Velocity</b>	0.082	-0.339	0.032	1.00	-
<b>Elevation</b>	-0.010	-0.232	0.040	0.672	1.00

**Changri Nup Glacier**

	<b>Aspect</b>	<b>Slope</b>	<b>Curvature</b>	<b>Velocity</b>	<b>Elevation</b>
<b>Aspect</b>	1.00	-	-	-	-
<b>Slope</b>	0.030	1.00	-	-	-
<b>Curvature</b>	0.001	0.012	1.00	-	-
<b>Velocity</b>	-0.075	-0.108	0.026	1.00	-
<b>Elevation</b>	0.051	-0.033	0.017	0.176	1.00

**Hailuogou Glacier**

	<b>Aspect</b>	<b>Slope</b>	<b>Curvature</b>	<b>Velocity</b>	<b>Elevation</b>
<b>Aspect</b>	1.00	-	-	-	-
<b>Slope</b>	0.178	1.00	-	-	-
<b>Curvature</b>	0.093	-0.388	1.00	-	-
<b>Velocity</b>	-0.075	-0.072	-0.155	1.00	-
<b>Elevation</b>	0.323	0.274	0.119	0.259	1.00