

Appendix A Remote Sensing Data Collection Locations

Remote sensing data collection locations are shown in Figure A 1. All locations where terrestrial laser scans (TLS) were collected are shown in blue. High resolution photography was collected at additional locations between the scans. The locations where data collected was used in this thesis are shown in yellow.

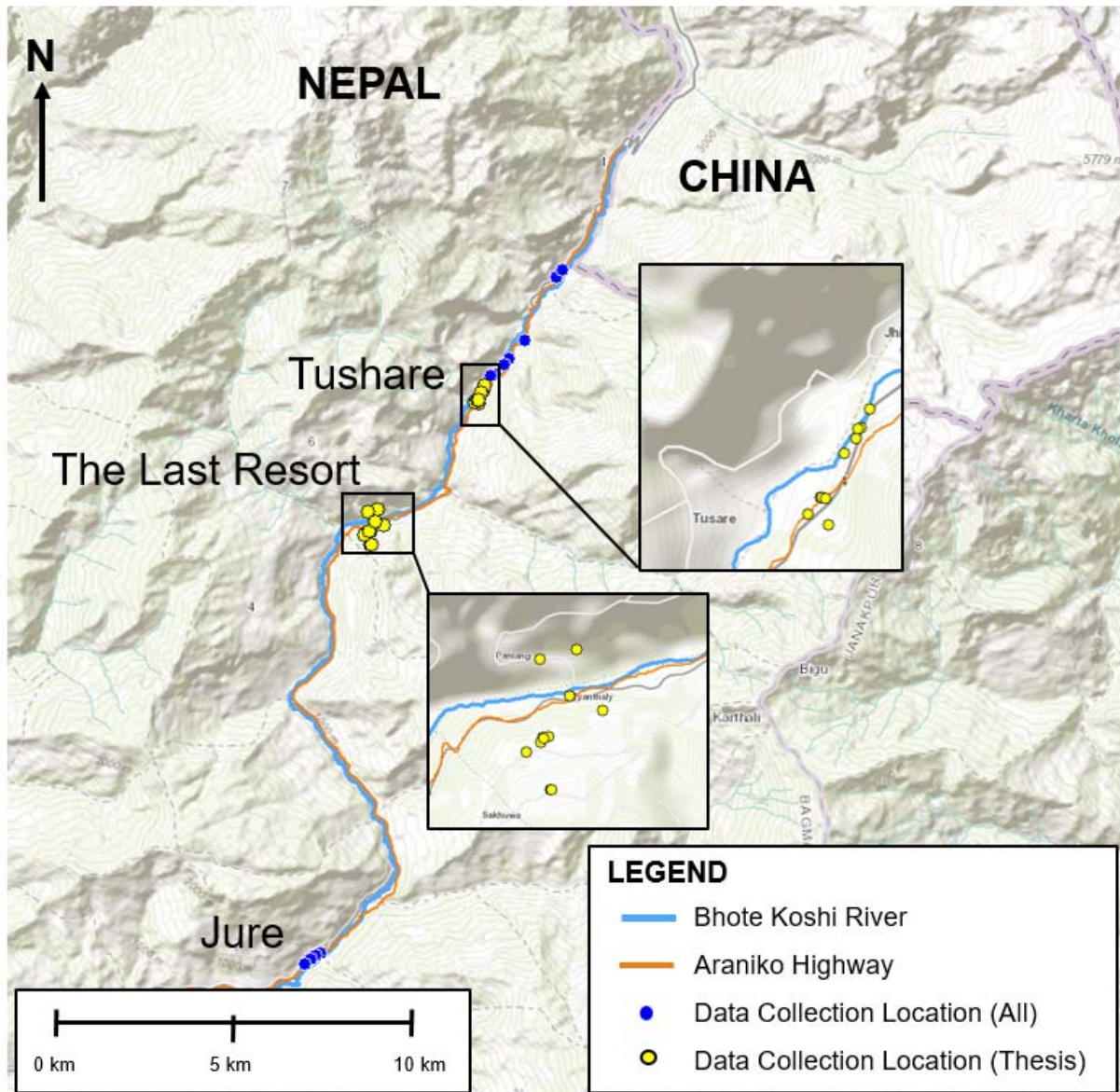


Figure A1. Terrestrial laser scan and photogrammetry data collection locations. All data collection locations by SFU in 2016 and 2017 are shown in blue while data collection locations used in this thesis are shown in yellow. Base map is ESRI World Topographic Map (ESRI 2013).

In addition to the above locations, unmanned aerial vehicle (UAV) flights were completed at The Last Resort and a helicopter flight over the full Upper Bhote Koshi valley was completed in November 2016. A summary of locations and range from the slope is in Table A 1.

Table A 1. Summary of data collection locations and associated range from the study slopes.

Site	Method	Date	No. of Locations	No. Scans	Range from Slope (m)	Notes
Tushare	Terrestrial Laser Scan	2012	5	13	50 - 600	
		2016	4	7	200 - 750	
		2017	6	26	100 - 1600	
	Terrestrial Photogrammetry	2016	4	-	200 - 750	
		2017	3	-	100 - 750	
	Helicopter Photogrammetry	2016	-	-	-	Helicopter flight covered full valley north of The Last Resort
The Last Resort	Terrestrial Laser Scan	2016	4	7	250 - 1200	
		2017	6	15	50 - 1600	
	Terrestrial Photogrammetry	2016	4	-	250 - 1200	
		2017	5	-	500 - 1600	
	UAV Photogrammetry	2017 (Jan)	-	-	-	Launched from inside the resort
		2017 (Nov)	-	-	-	Launched from inside the resort
Other Sites	Terrestrial Laser Scan	2016	14	30	150 - 1400	Jure Landslide
		2017	4	12	200 - 1400	
	Terrestrial Photogrammetry	2016	23	-	150 - 1400	Jure Landslide
		2017	2	-	200 - 1400	
	Helicopter Photogrammetry	2016	-	-	-	Jure Landslide