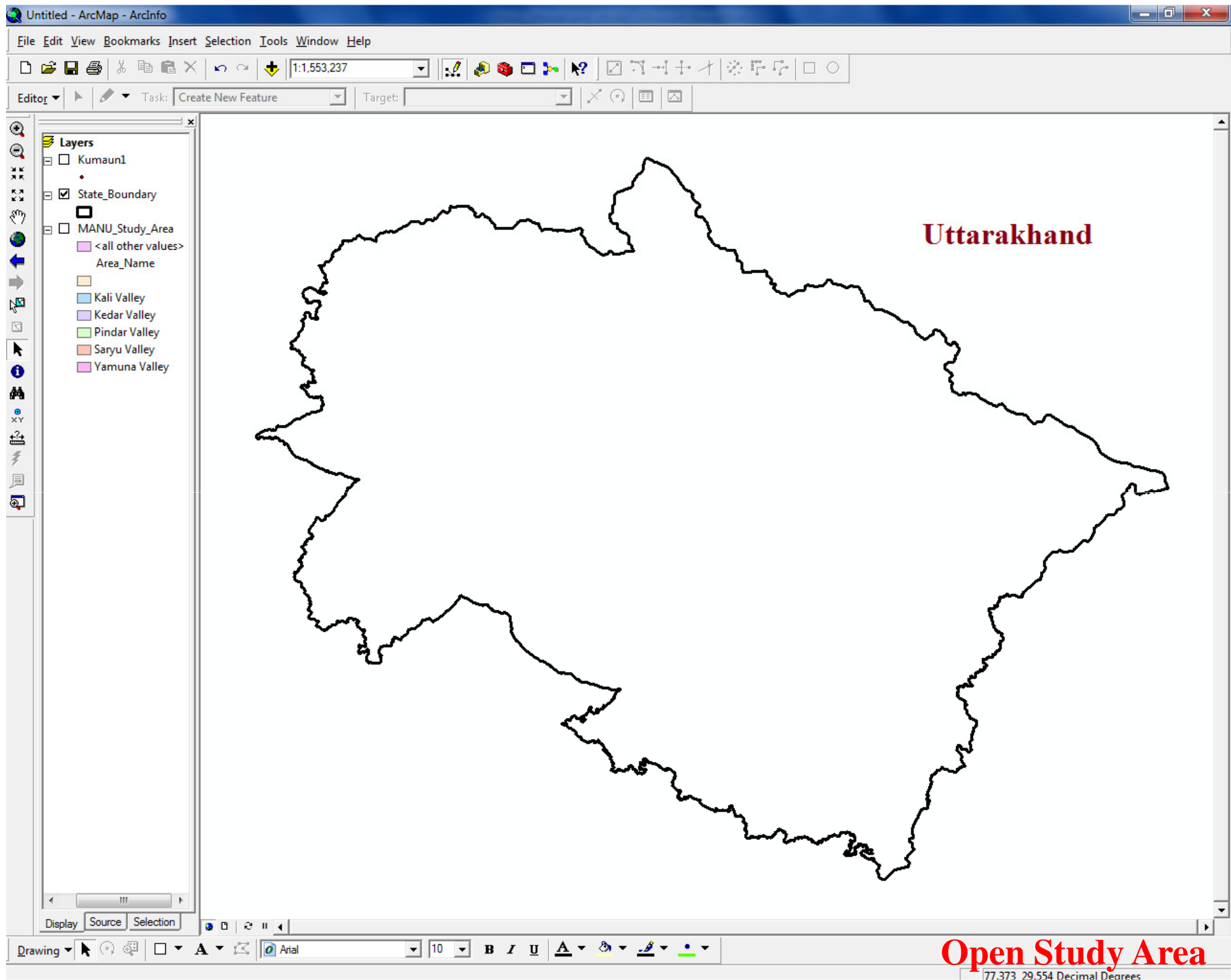
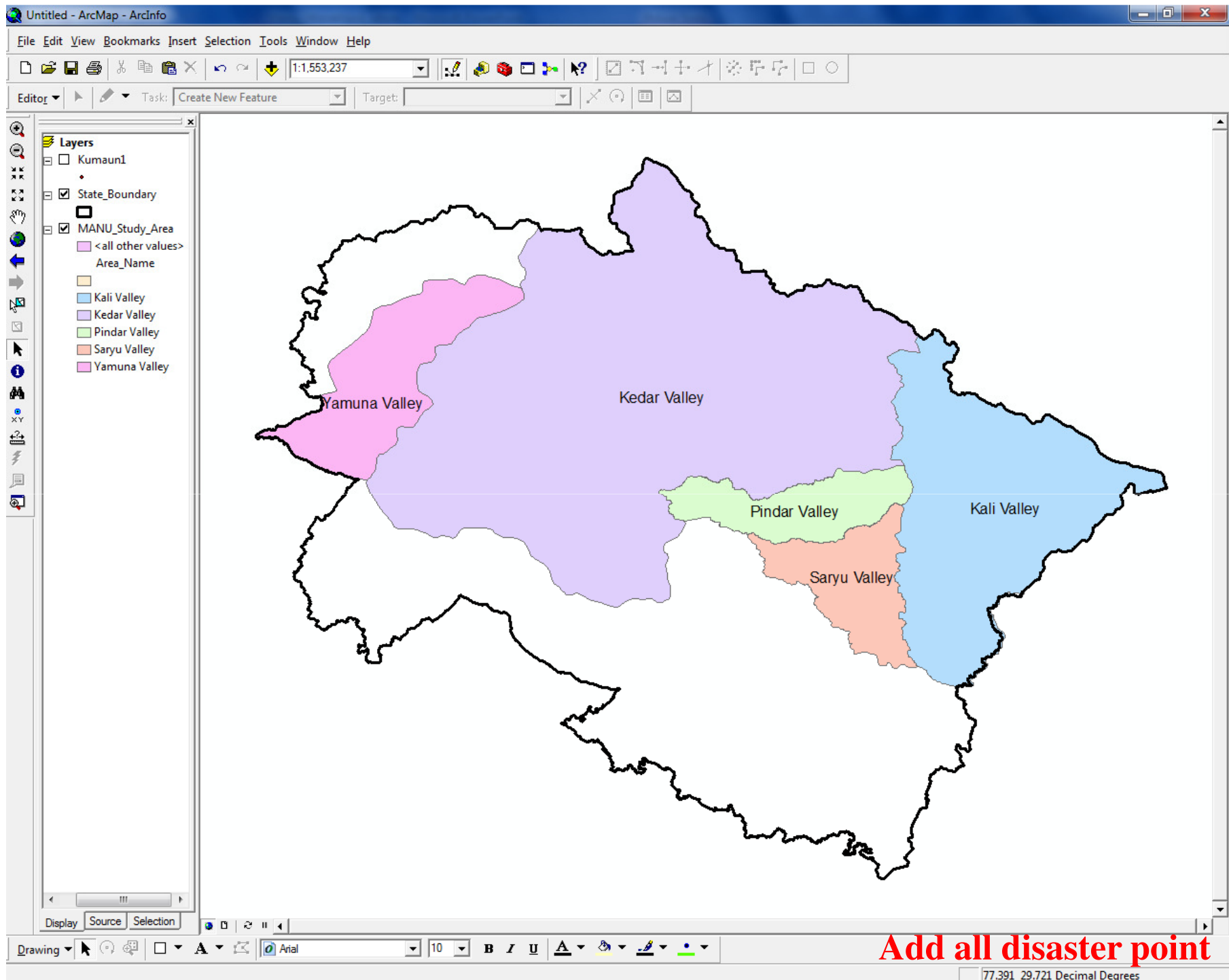


DEVELOPMENT OF GEOGRAPHIC INFORMATION SYSTEM OF UTTARAKHAND DEVASTATION,2013

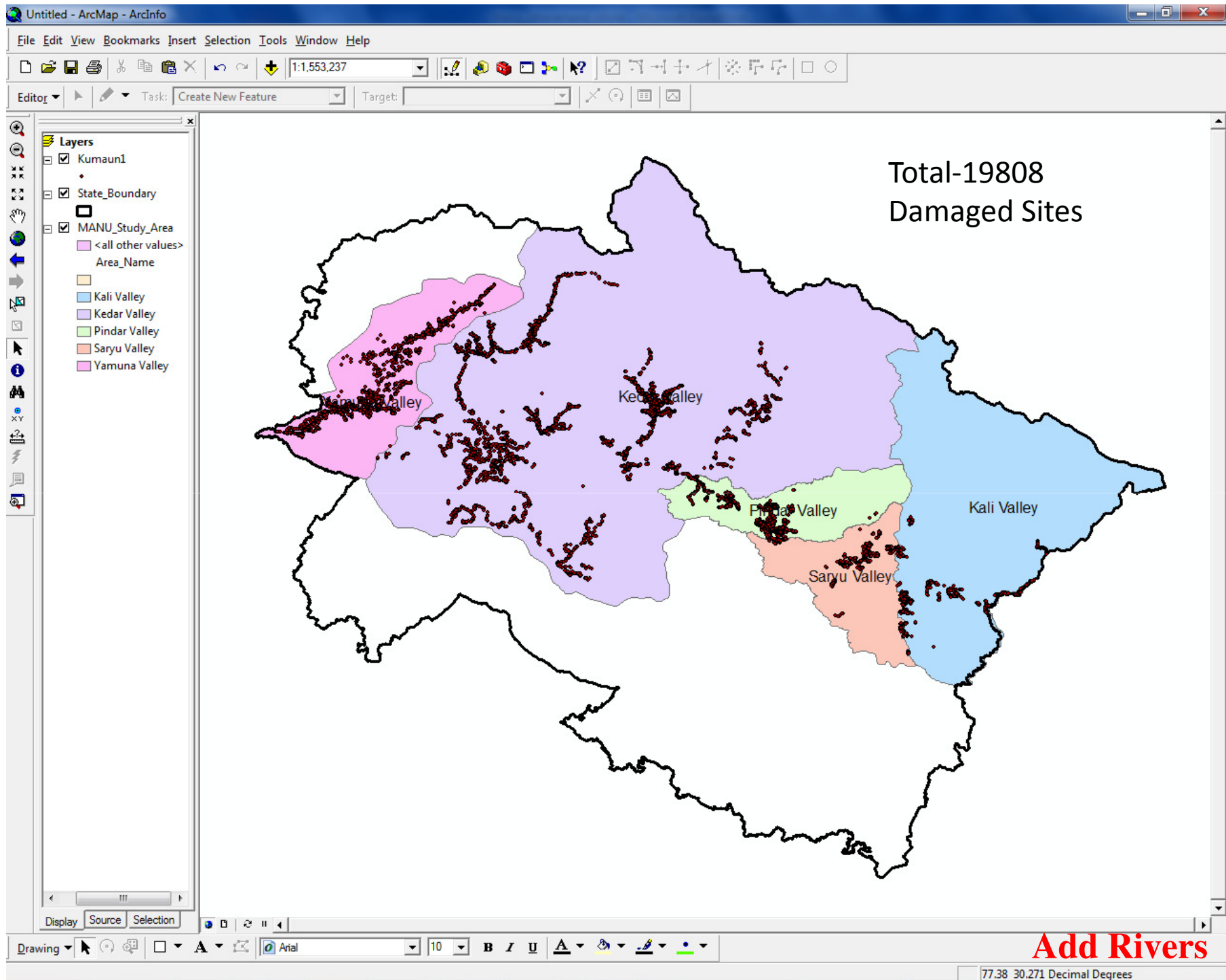
(MAP THE NEIGHBOURHOOD IN UTTARAKHAND -MANU)

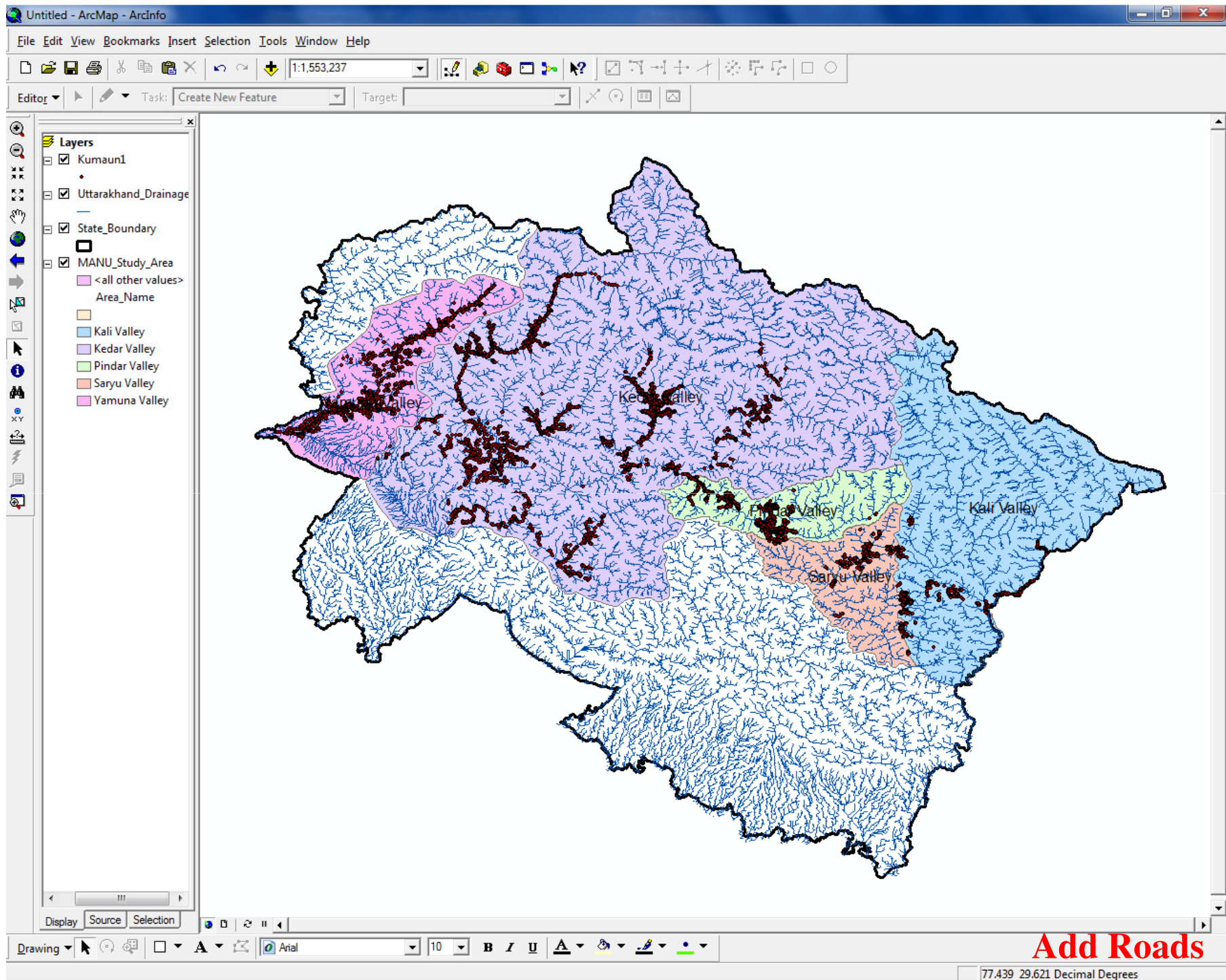
J.S.Rawat
Kumaun University

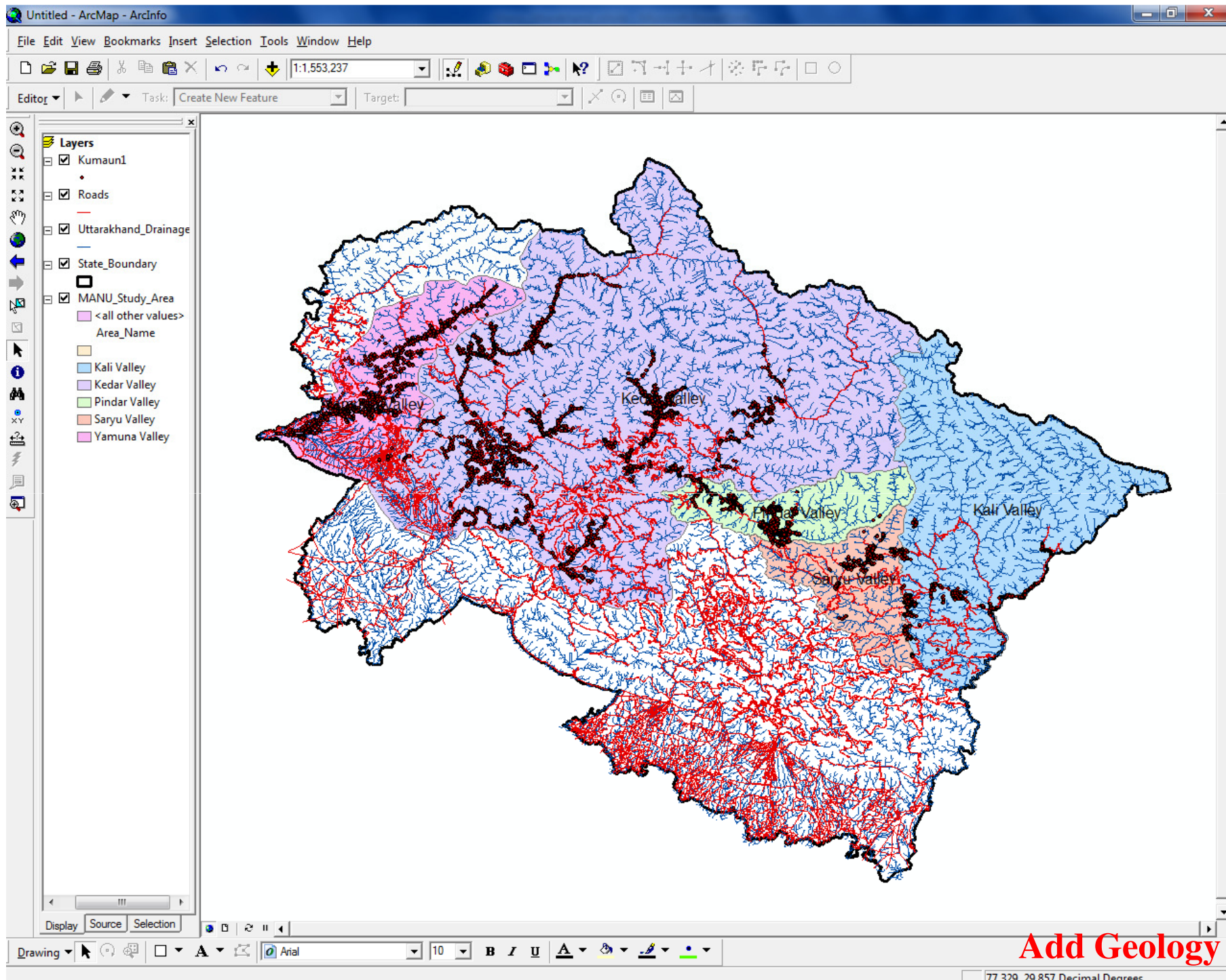


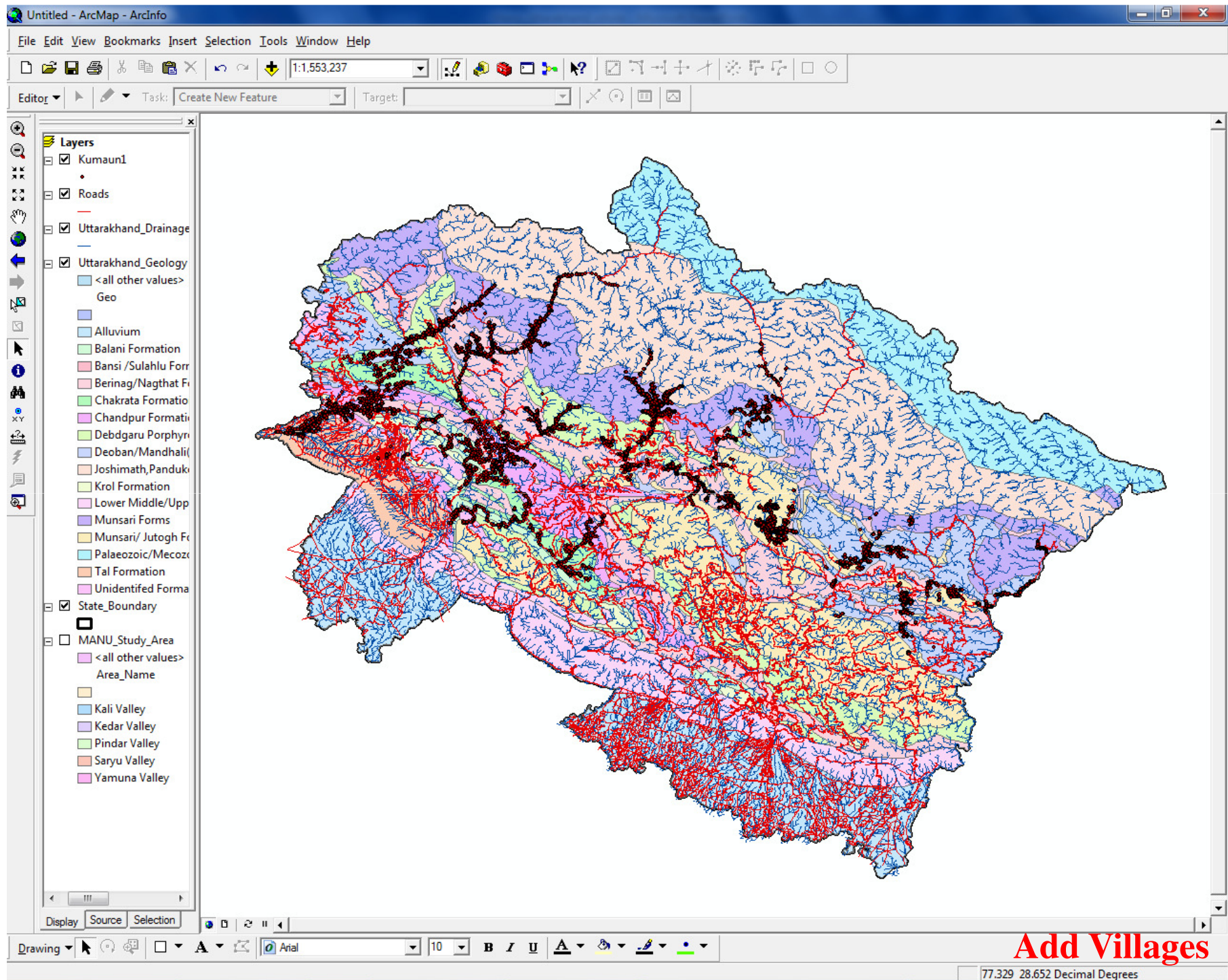


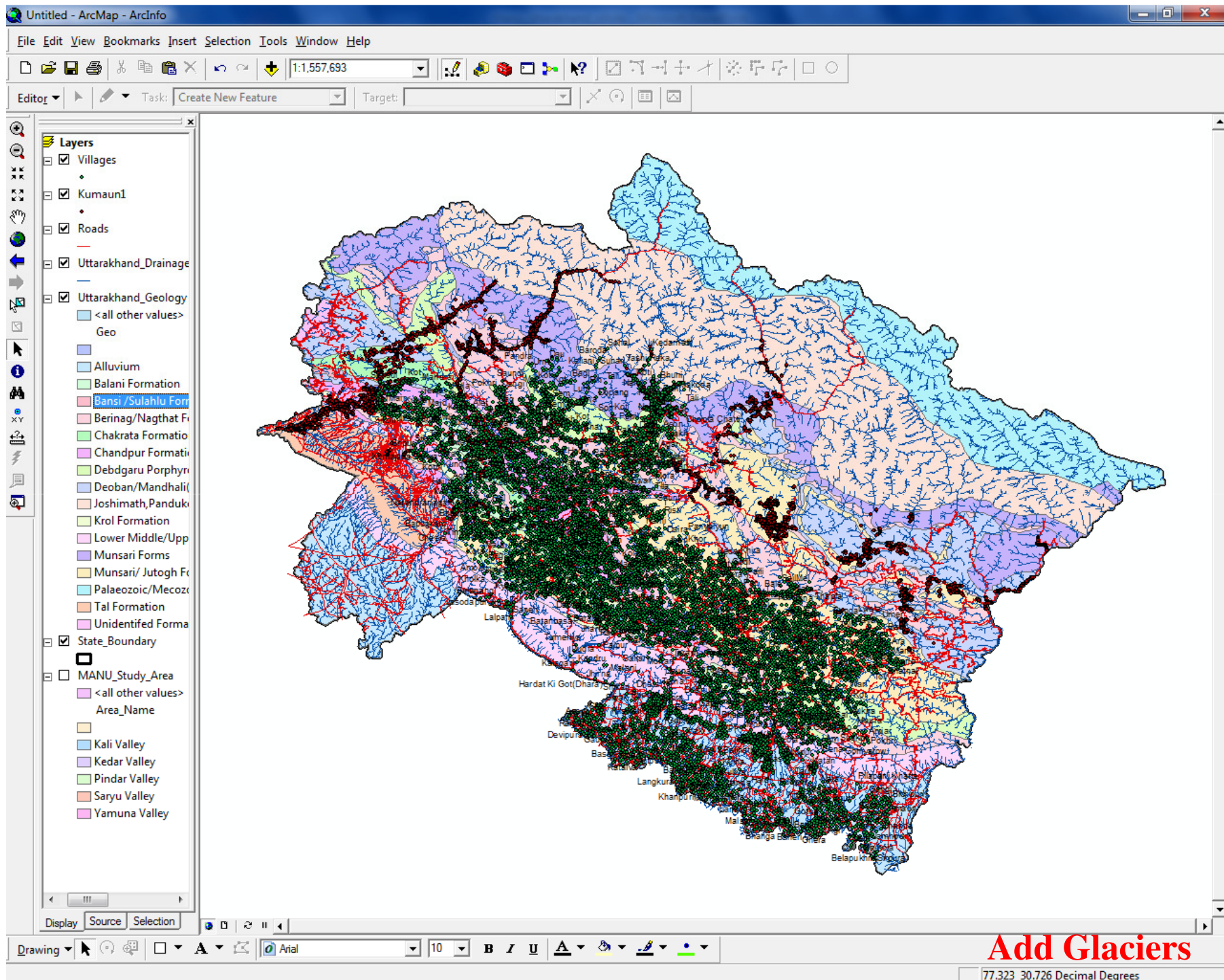
Add all disaster point

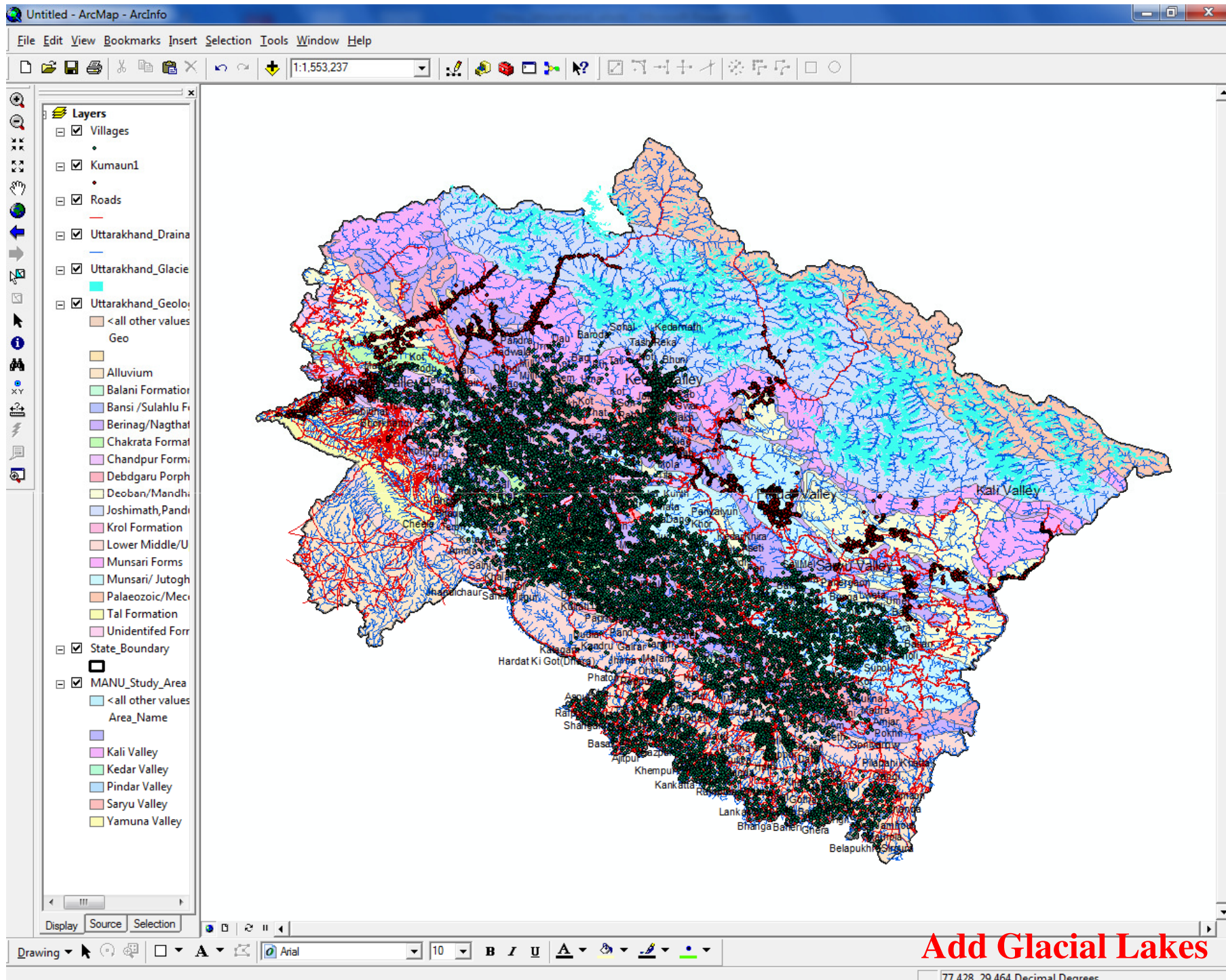


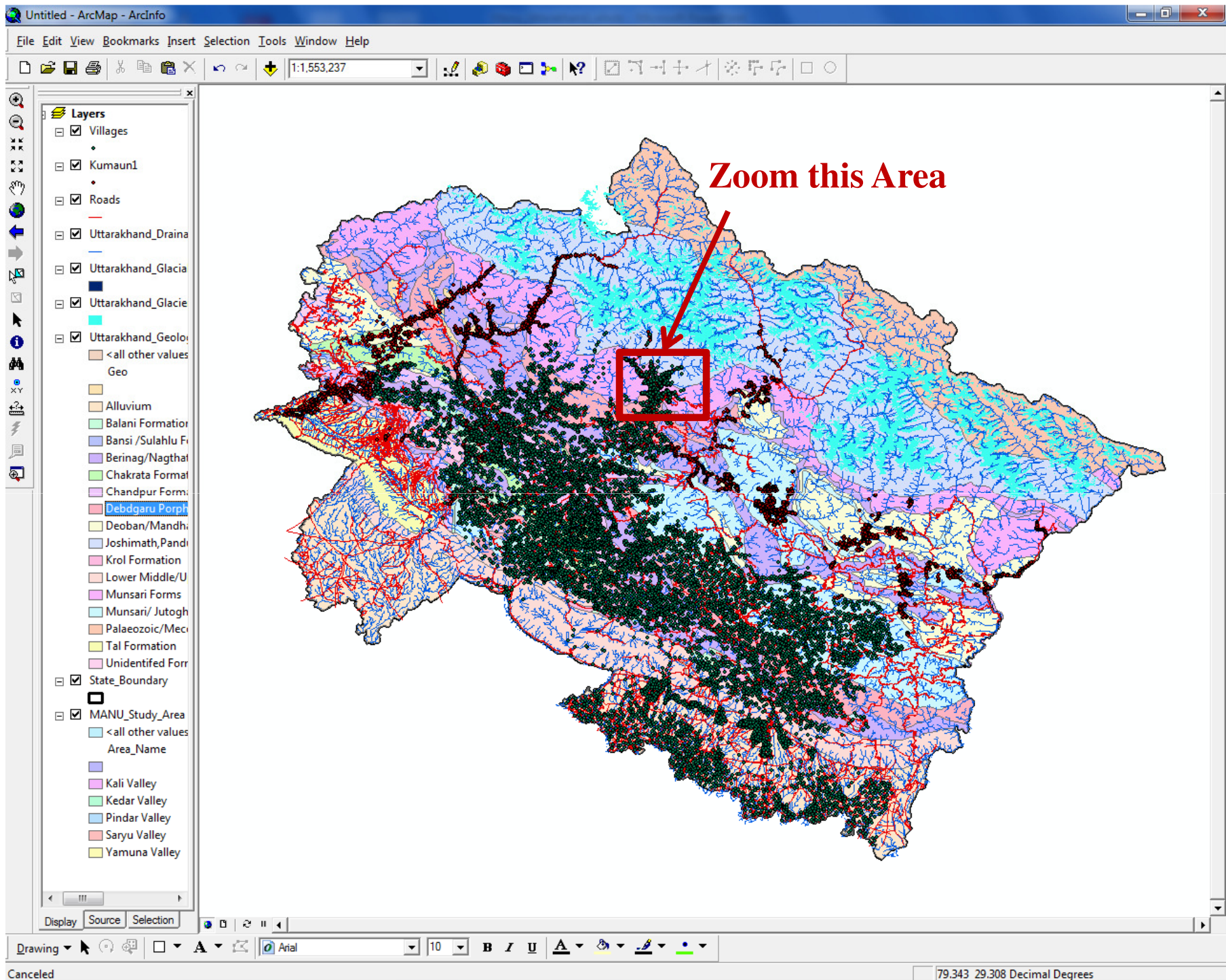












Untitled - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:79,087

Editor Task: Create New Feature Target: Kumaun1

Open Datasheet

Layers

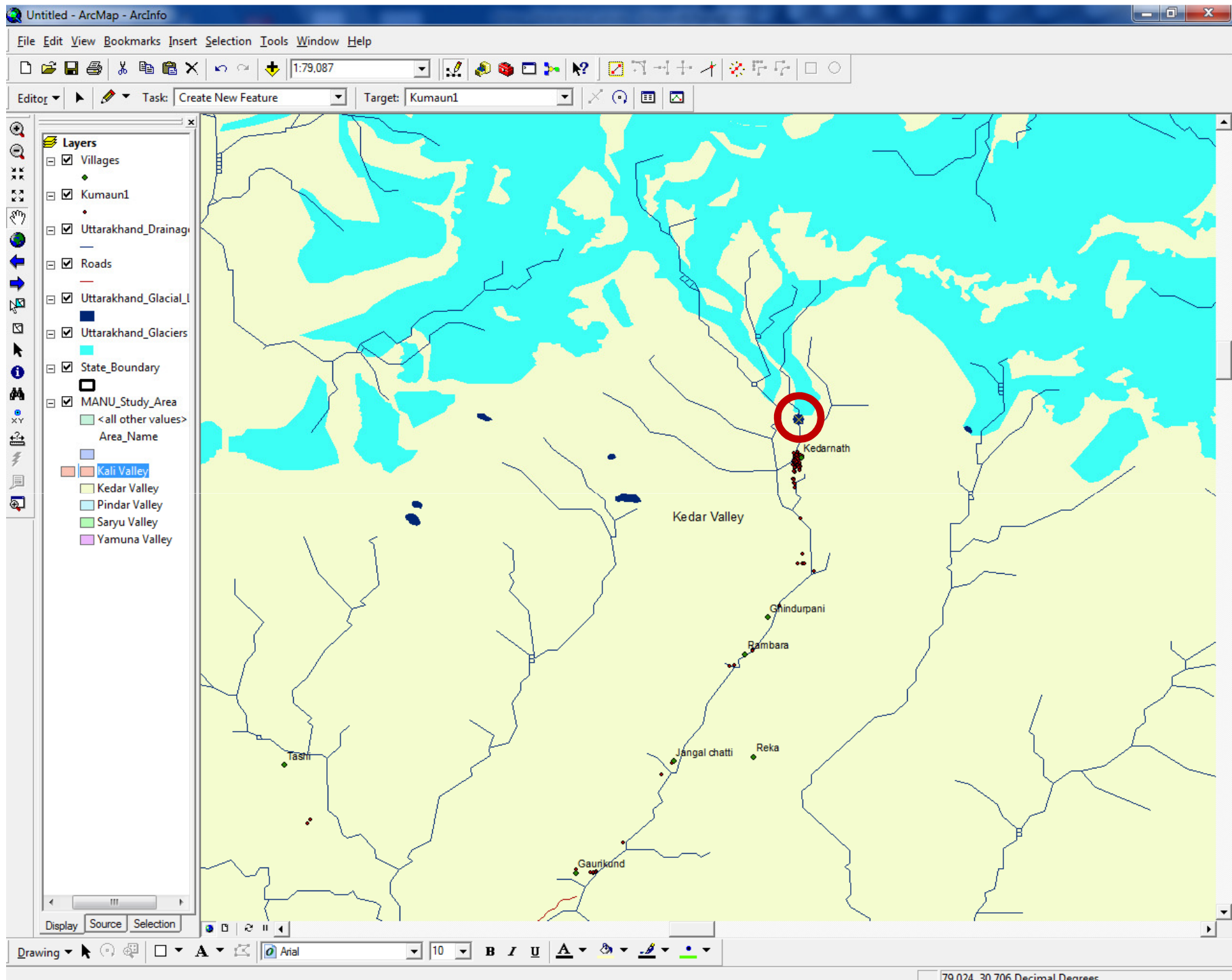
- ☒ Villages
- ☒ Kumaun1
- ☒ Uttarakhand_Drainagi
- ☒ Roads
- ☒ Uttarakhand_Glacial_L
- ☒ Uttarakhand_Glaciers
- ☒ State_Boundary

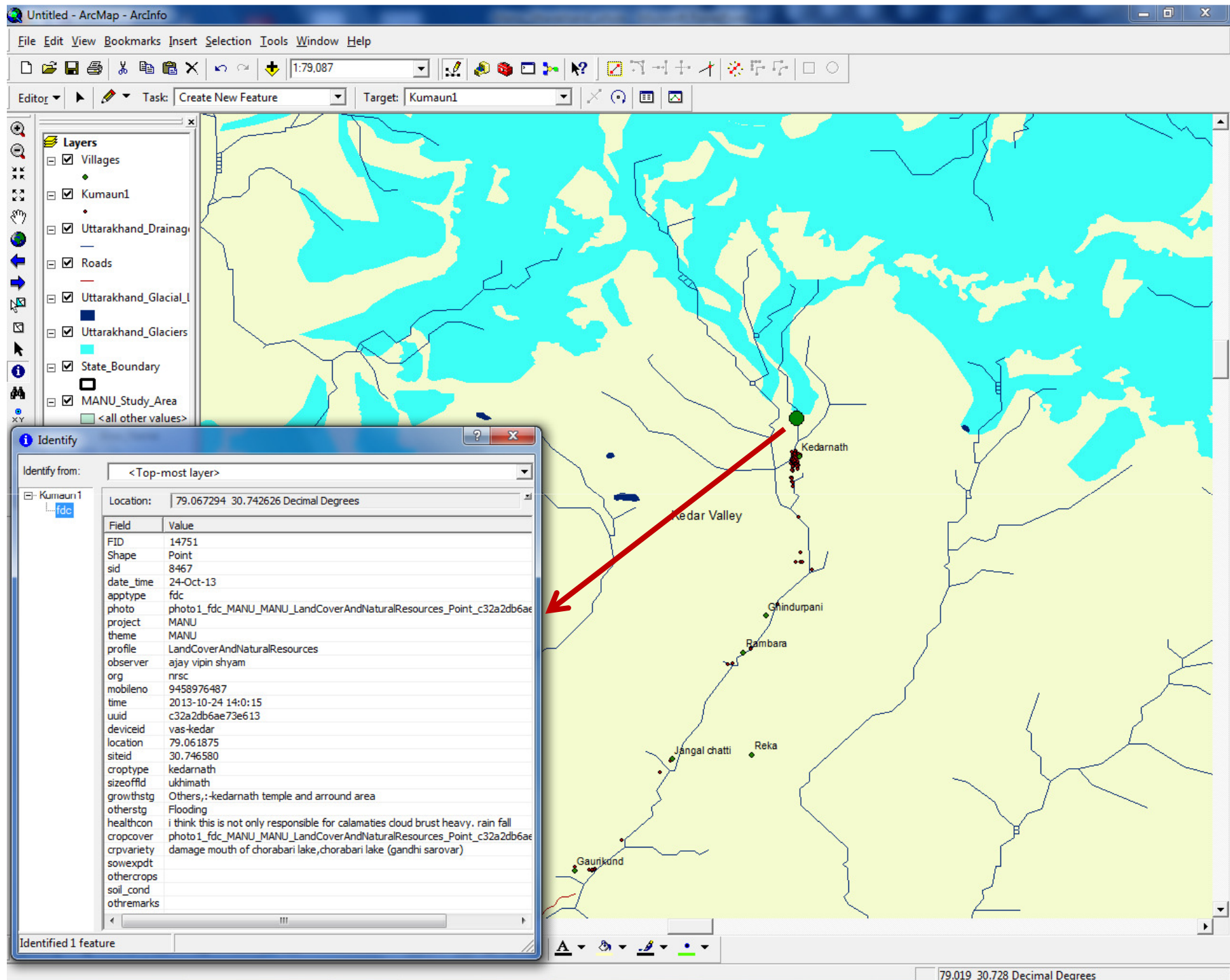
Selected Attributes of Kumaun1

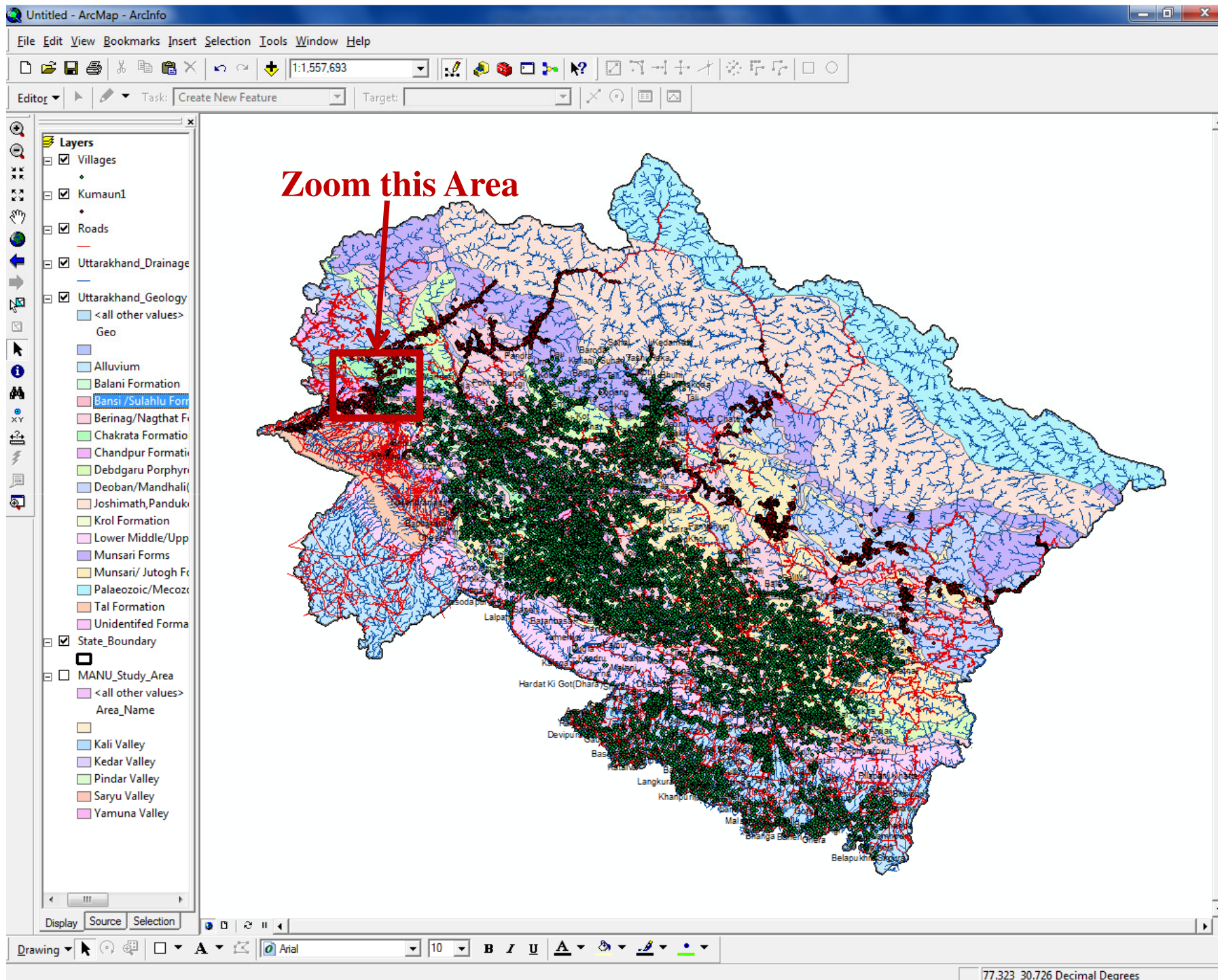
FID	profile	siteid	sizeoffld	growthstg	otherstg	healthcon	
14473	Buildings		ukhimath	sambhuprasad,kula	3	Residential	2
14567	LandSlides	30.659337	ukhimath	Road,Forest,	1000	Totally Damaged	S
14606	BhuvanPOI	rajkiya upper madhmic school ransi	high school in ransi village 500 ab				
14609	BhuvanPOI	main bus stand of ransi village	ransi taxi stand,				
14610	BhuvanPOI	primary school 2km from ransi bus s	rajky primary school uktoli,				
14611	BhuvanPOI	2km from gondaar toward ransi	main iron bridge to enter gondar				
14612	BhuvanPOI	this bridge located in bantoli 1km to	bridge between gaundar to madm				
14613	LandSlides	30.607959	ukhimath	River Block,	none	Partially Damaged	V
14614	BhuvanPOI	500m from gondar village toward ran	jai mata temple gondar,				
14615	RiverBankErosion	30.607959	ukhimath	bantoli stream	Settlemen	Toe	L
14617	LandCoverAndNatu	30.606369	ukhimath	Agriculture,	Flooding	whole fields of crop	p
14618	LandSlides	30.606369	ukhimath	River Block,	none	Totally Damaged	S
14619	LandSlides	30.606154, 1720.10m	ukhimath	River Block,	none	Totally Damaged	S
14620	BhuvanPOI	a small temple in bantoli village gond	temple in bantoli gondar,				
14621	LandSlides	30.606399 , 1702.80m	ukhimath	River Block,	none	Totally Damaged	S
14622	RiverBankErosion	30.605208, 1707.10	ukhimath	madhuganga	Agricultur	Toe	L
14623	BhuvanPOI	main panchayat bhaean in gondar vill	panchayat bhawan,				
14624	BhuvanPOI	main tepmle of gondar village	budha nadmashwar teple in gond				
14625	BhuvanPOI		gov middle primary school gondar				
14626	BhuvanPOI	main primary school of gondar villag	gov primary school gondar,				
14627	BhuvanPOI	main meeting centre of gondar	meeting centre in gondar village,				
14628	LandSlides	30.601710, 1618.10m	ukhimath	Agriculture Land,Ri	main path	Totally Damaged	S
14629	RiverBankErosion	30.601710, 1618.10	ukhimath	madhuganga	Agricultur	Toe	L
14630	LandCoverAndNatu	30.601710	ukhimath	Agriculture,	Flooding	totally damaged due	p
14631	LandSlides	30.590436, 1832.30m	ukhimath	Forest,	main path	Totally Damaged	S
14633	Buildings	30.735729	ukhimath	mandir samiti	2	Residential	1

Record: 1 Show: All Selected Records (299 out of 19575 Selected) Options

Select Chaurabari Lake







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1:83,525

Open Datasheet

Layers

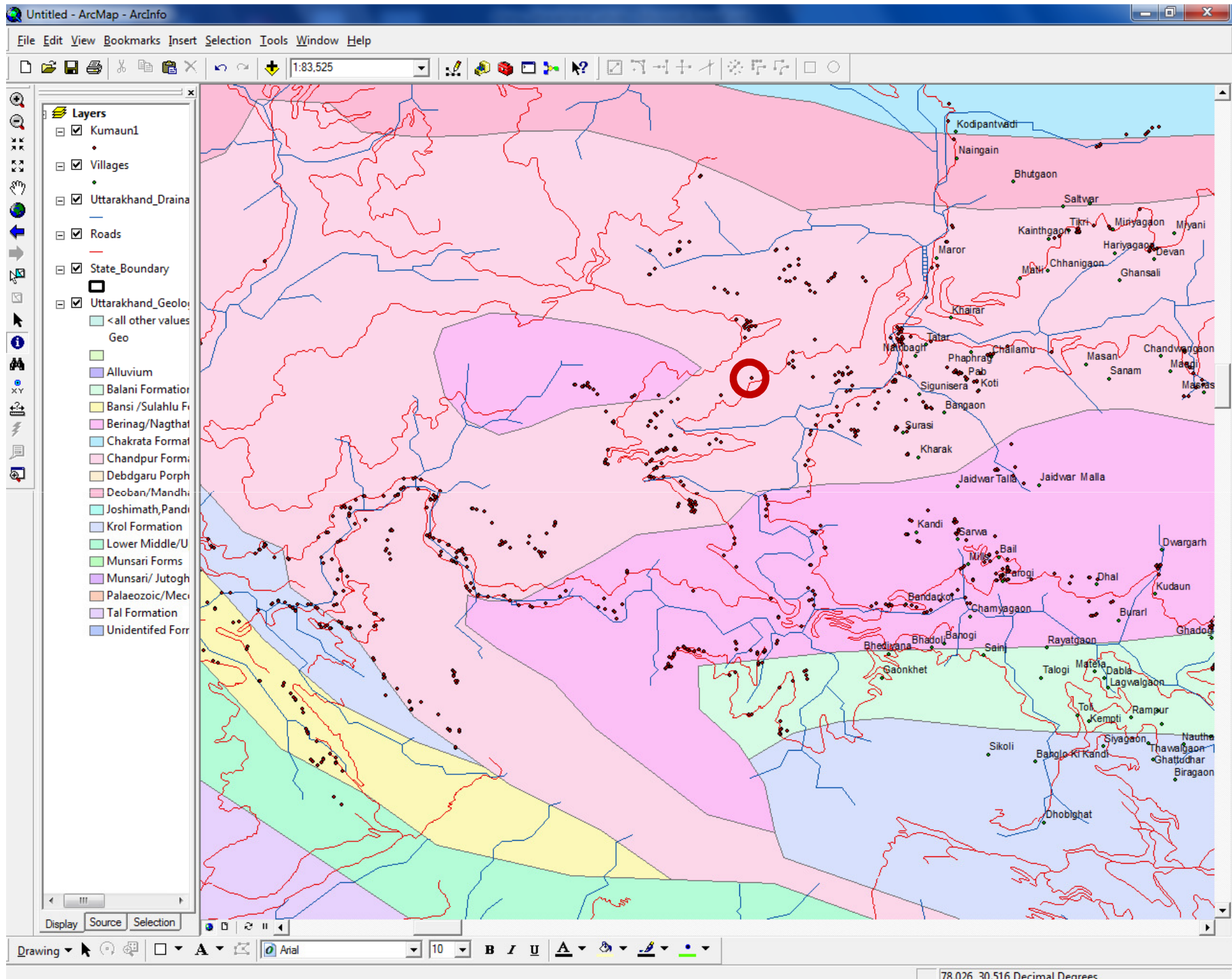
- ☒ Kumaun1
- ☒ Villages
- ☒ Uttarakhand_Draina
- ☒ Roads
- ☒ State_Boundary
- ☒ Uttarakhand_Geolo
- ☐ <all other values
- ☐ Geo
- ☐ Alluvium

Selected Attributes of Kumaun1

FID	profile	location	siteid	croptype	sizeoffld	growthstg	otherstg	healthco
17653	RiverBankErosion			oppodite of marore	chakrata	yamuna	Forest,	Scour
17654	RiverBankErosion			nainbg 3km upstrea	chakrata	yamuna rive	Forest,	Toe
17670	LandSlides			kyarikhad	chaktata	Forest,	katikhad	Partially Da
17671	RiverBankErosion			2km upstream nainba	chakrota	yamuna	Forest,	Toe
17672	Roads			road	120m	NH	Metalled	1.5m
17673	Roads			road	80m	NH	Metalled	1.5m
17675	Roads			road	100m	NH	Metalled	1.5m
17785	RiverBankErosion			ninagam	chakrota	yamuna	Settlement,	Toe
17819	Roads			nainbag	15	SH	Metalled	5
17820	BhuvanPOI	School	this is new school	photo1_fdc_MANU	govt primary sch			
17822	BhuvanPOI	Water Tank	the tank is opning by c.m	photo1_fdc_MANU	sinchai tank chila			
17823	BhuvanPOI	School	govt. primary school seet	photo1_fdc_MANU	175a school,175b			
17824	BhuvanPOI	Panchayat Ghar	panchayat bhavan sitwari	photo1_fdc_MANU	177a panchayat b			
17825	OtherInfrastructure			School	sitwari	barkot	Totally Damag	Others:-rain
17826	Buildings			sitwari	barkot	Lakhan	2	Residential
17827	BhuvanPOI	Park	700 m away the main road	photo1_fdc_MANU	jaspal rana van ch			
17828	BhuvanPOI	Tower	300 m away main road	photo1_fdc_MANU	b.s.nl tower tator			
17829	BhuvanPOI	Panchayat Ghar	thid bhawan attech with aa	photo1_fdc_MANU	panchayat bhavan			
17830	BhuvanPOI	Worship Places	this temple stand in the me	photo1_fdc_MANU	shiv mandir tatora			
17863	BhuvanPOI	Fuel	Hindustan petrol pump	photo1_fdc_MANU	poi 75 a			
17864	BhuvanPOI	Post Office	post office nayan baag su	photo1_fdc_MANU	poi 77 a,poi 77b			
17865	BhuvanPOI	Guest House	gmvn	photo1_fdc_MANU	poi 78a,poi 78b			

Record: 1 Show: All Selected Records (690 out of 19575 Selected) Options

Select Landslide Sariyana Village



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1:83,525

Add Photo

Layers

- ☒ Kumaun1
- ☒ Villages
- ☒ Uttarakhand_Draina
- ☒ Roads
- ☒ State_Boundary
- ☒ Uttarakhand_Geolo;
 - <all other values
 - Geo
 - Alluvium
 - Balani Formation
 - Bansi /Sulahlu Fr

Identify


Identify from: **<Top-most layer>**

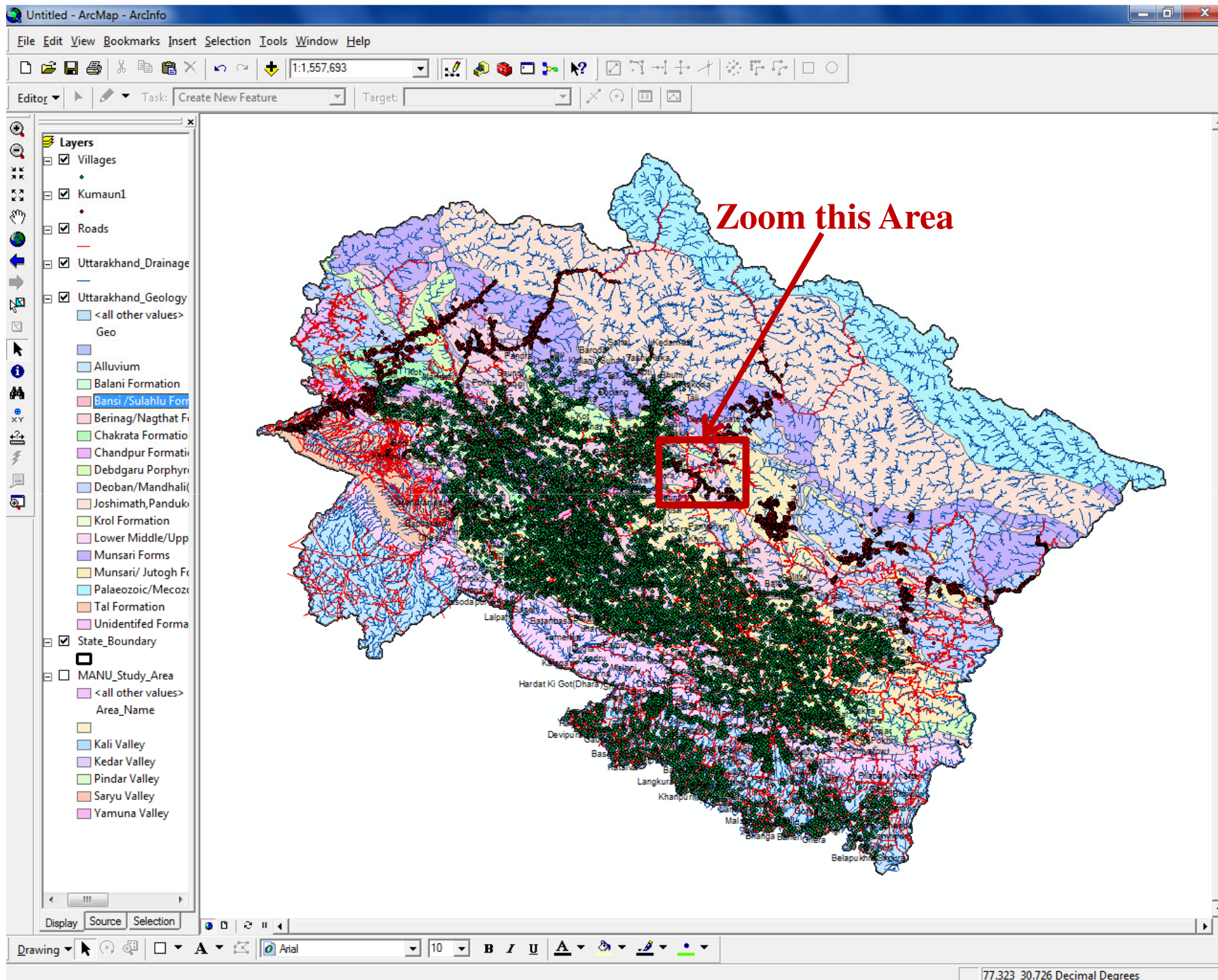
Kumaun1
fdc

Location: 77.973803 30.561371 Decimal Degrees

Field	Value
FID	18379
Shape	Point
sid	11133
date_time	15-Nov-13
apptype	fdc
photo	photo1_fdc_MANU_MANU_LandSlides_Point_e2021d3ba583
project	MANU
theme	MANU
profile	LandSlides
observer	Yamuna 06
org	wadia
mobilen	8171783444
time	2013-11-15 11:21:7
uuid	e2021d3ba583839f
deviceid	MANu yamuna vally
location	
siteid	
croptype	2kmupstrm from sariyana villagge
sizeoffid	ksali
growthstg	Road,Forest,
otherstg	100 mtr
healthcon	Partially Damaged
croppcover	Moderate
crpvariety	Loose Material
sowexpdt	Open Forest
othercrops	New
soil_cond	Rock
othremarks	Slide

Identified 1 feature





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File Edit View Bookmarks Insert Selection Tools Window Help

1:58,535

Editor Task: Create New Feature Target: Kumaun1

Open Datasheet

Layers

- ☒ Villages
- ☒ Kumaun1
- ☒ Uttarakhand_Drainage
- ☒ Roads
- ☒ Uttarakhand_Glacial_L
- ☒ Uttarakhand_Glaciers

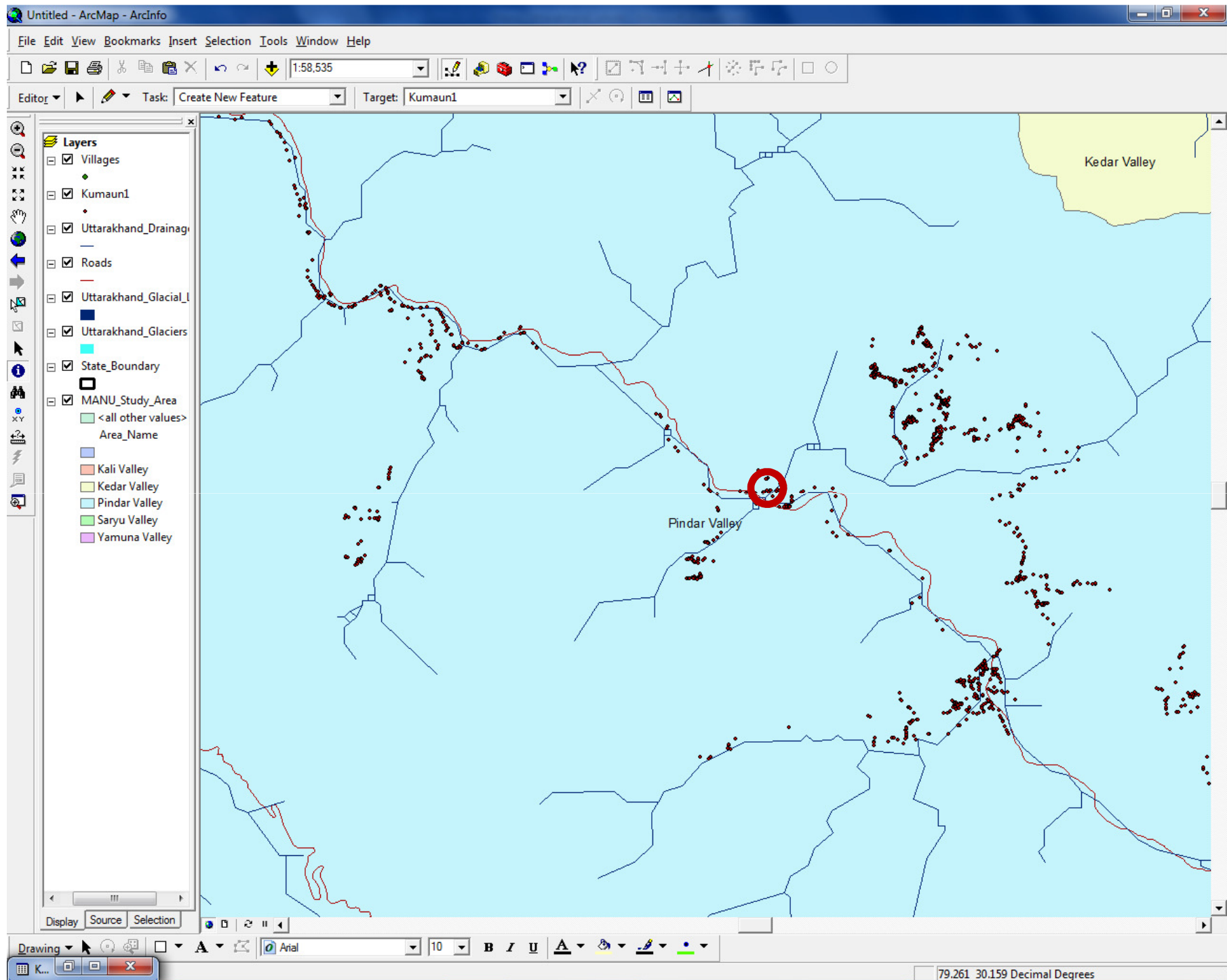
Kedar Valley

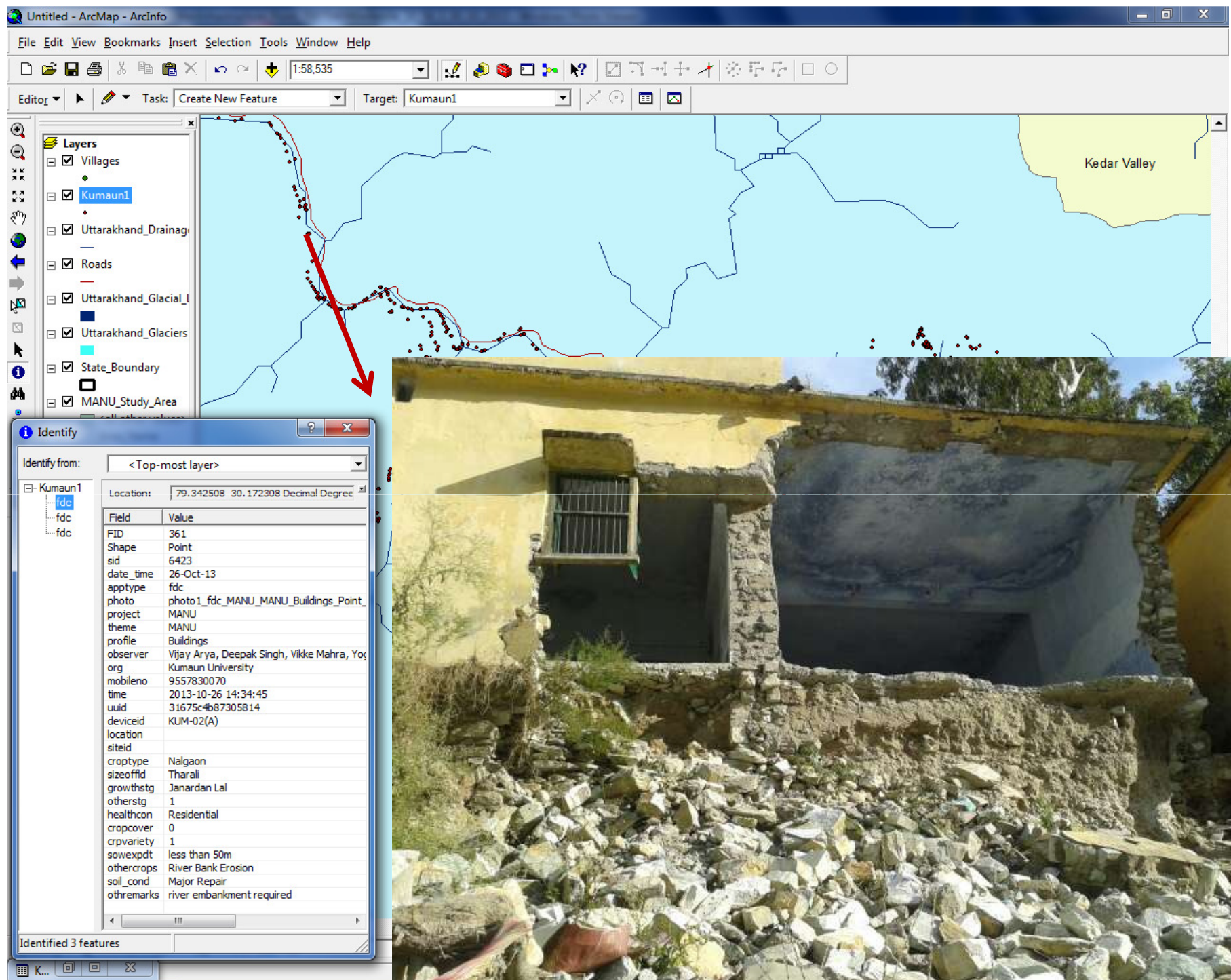
Selected Attributes of Kumaun1

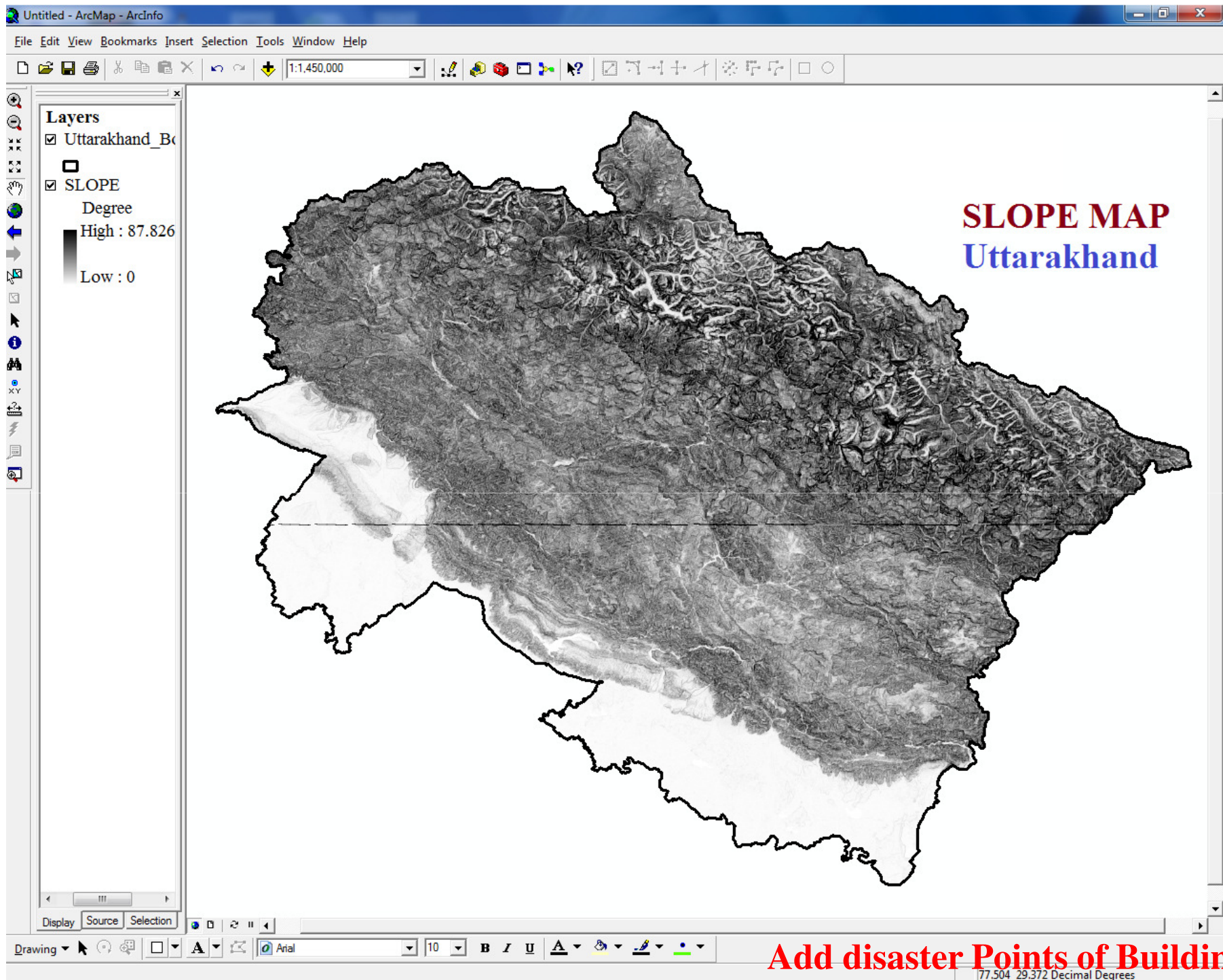
FID	profile	location	siteid	croptype	sizeoffld	growthstg	otherstg	healthcon
9	BhuvanPOI	Bank	it is Chamoli Zila Sahkari	photo1_fdc_MANU	5			
10	BhuvanPOI	School	it is the government prima	photo1_fdc_MANU	3,4			
12	BhuvanPOI	Guest House	Anjali Tourist lodge locate	photo1_fdc_MANU	1			
13	BhuvanPOI	Hospital	Primary Health Centre Nar	photo1_fdc_MANU	2,3			
14	BhuvanPOI	Bank	SBI Narayan Bagar.an atm	photo1_fdc_MANU	4,5			
15	BhuvanPOI	Others:-Bridge	This bridge connects Nara	photo1_fdc_MANU	6			
16	Buildings			Narayanbagad	Tharali	Virendra Sin	7	Commercial
17	BhuvanPOI	Others:-Governmen	This is Block office Naray	photo1_fdc_MANU	7			
18	BhuvanPOI	Worship Places	Narayan temple located in	photo1_fdc_MANU	8			
19	BhuvanPOI	Commercial	Thakur Prem Singh Marke	photo1_fdc_MANU	9			
20	BhuvanPOI	ATM	near PNB Bank	photo1_fdc_MANU	01			
21	BhuvanPOI	ATM	The Nainital Bank	photo1_fdc_MANU	02			
23	BhuvanPOI	Bank	Union Bank of india	photo1_fdc_MANU	03			
25	Roads			Narayanbagad	400 m	Others:-Karn	Metalled	4
27	BhuvanPOI	Tourism	Pinder Lodge,main market	photo1_fdc_MANU	04			
28	BhuvanPOI	Commercial	It is Rajkiya Ann Bhandar	photo1_fdc_MANU	6			
29	BhuvanPOI	Commercial	it is Gandhi Ashram Khadi	photo1_fdc_MANU	7			
30	Roads			kamparyag	100 meters	NH	Metalled	3 meters
37	BhuvanPOI	Bank	Chamoli Jila Sahkari bank	photo1_fdc_MANU	07			
39	BhuvanPOI	Commercial	Nager Panchyat Karpraya	photo1_fdc_MANU	08			
47	BhuvanPOI	Post Office	Post Office Narayan Baga	photo1_fdc_MANU	10			
56	BhuvanPOI	Others:-Taxi Assoc	It is Daswankedar Panchk	photo1_fdc_MANU	12			
57	BhuvanPOI	Guest House	it is the guest house P.W.	photo1_fdc_MANU	10			

Record: 1 Show: All Selected Records (1944 out of 19575 Selected) Options

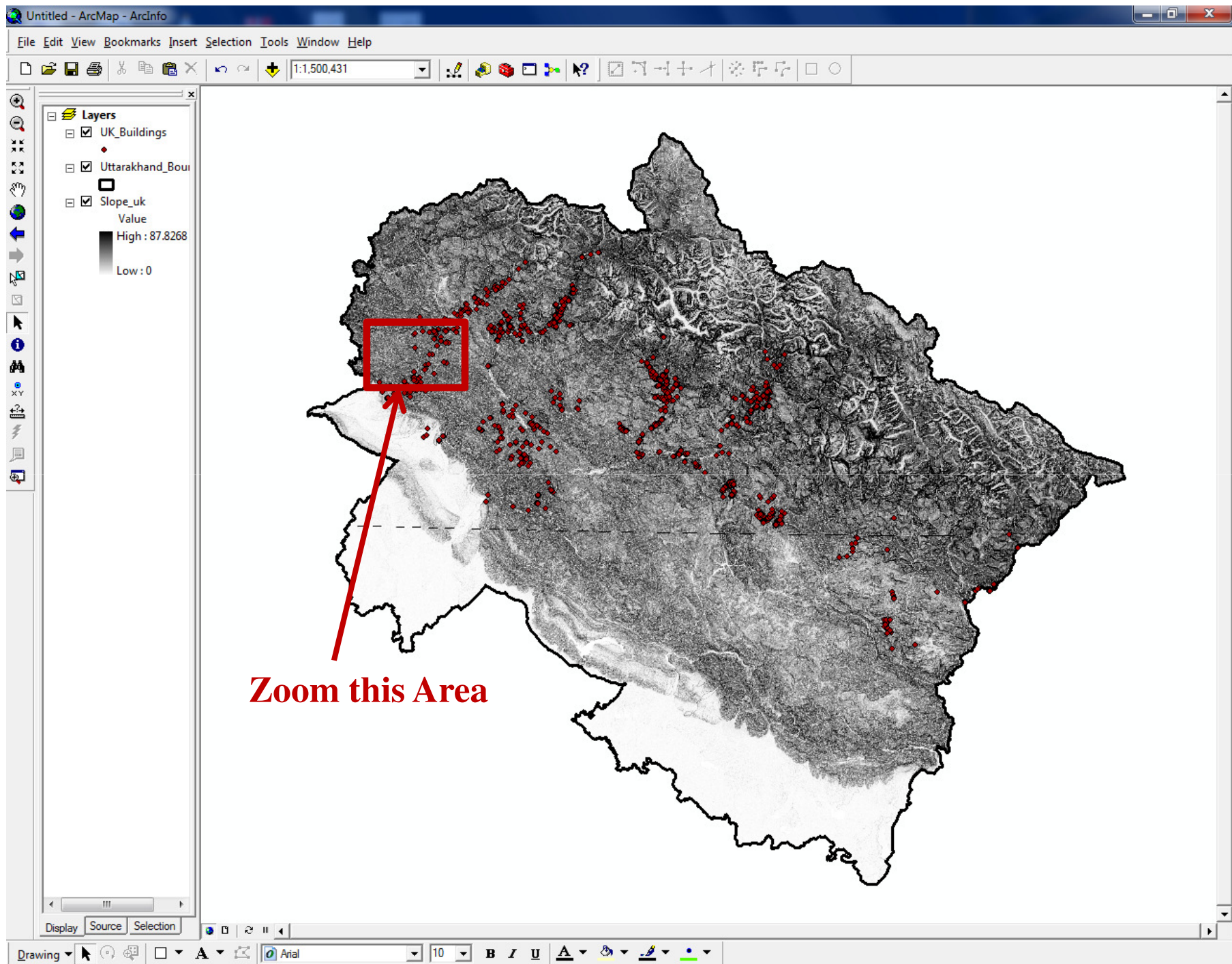
Select Building Damage Nalgaon Village

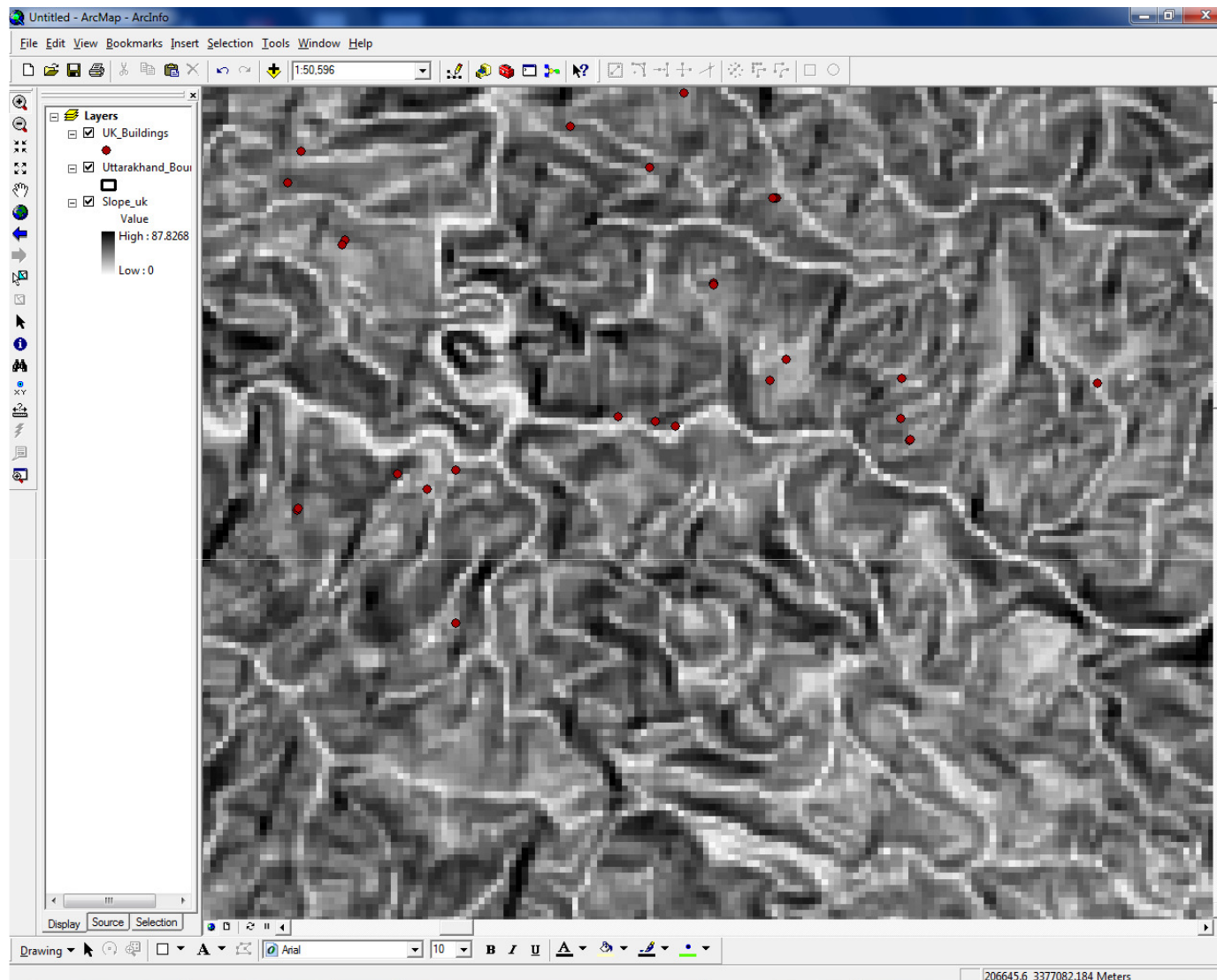




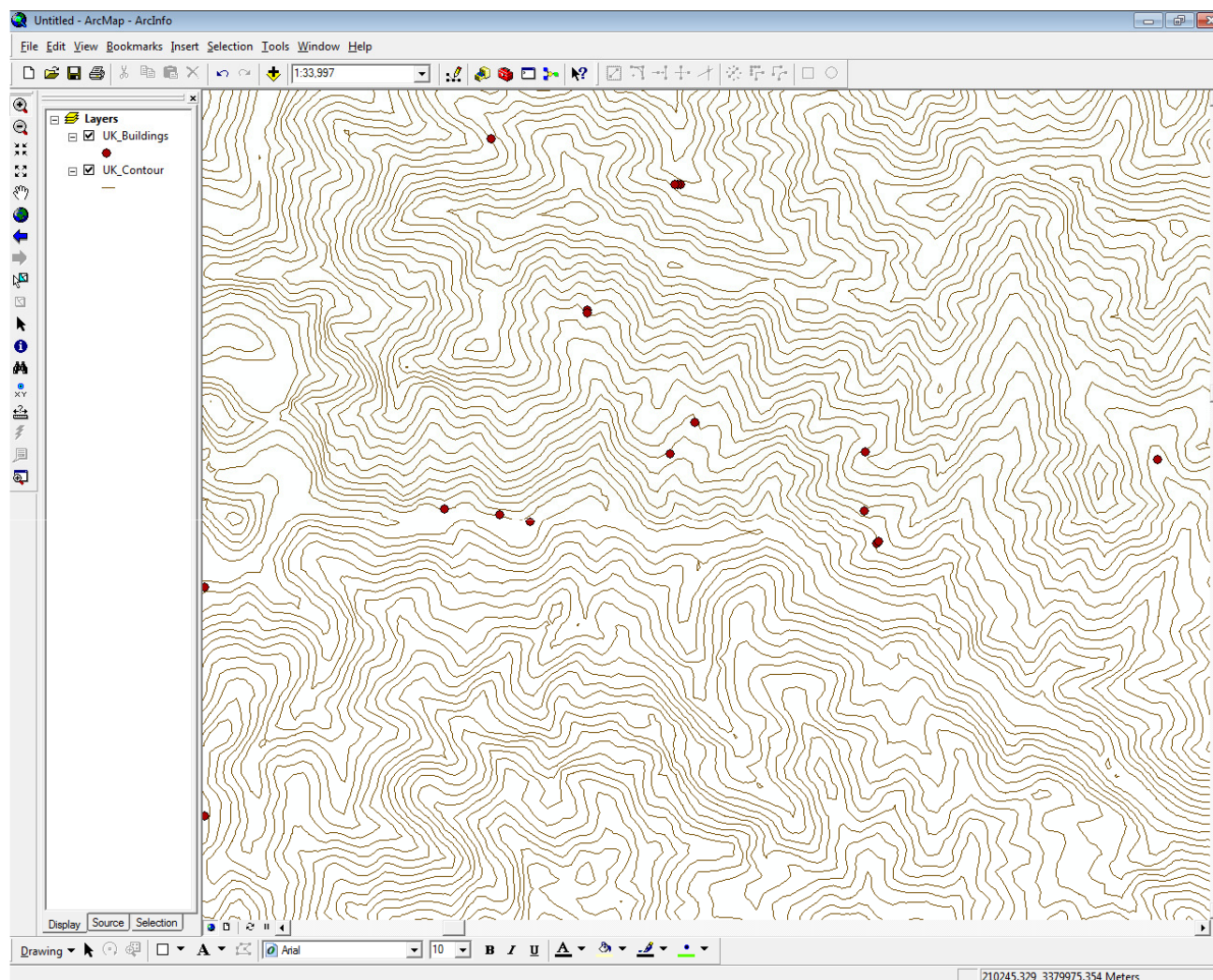


Add disaster Points of Building

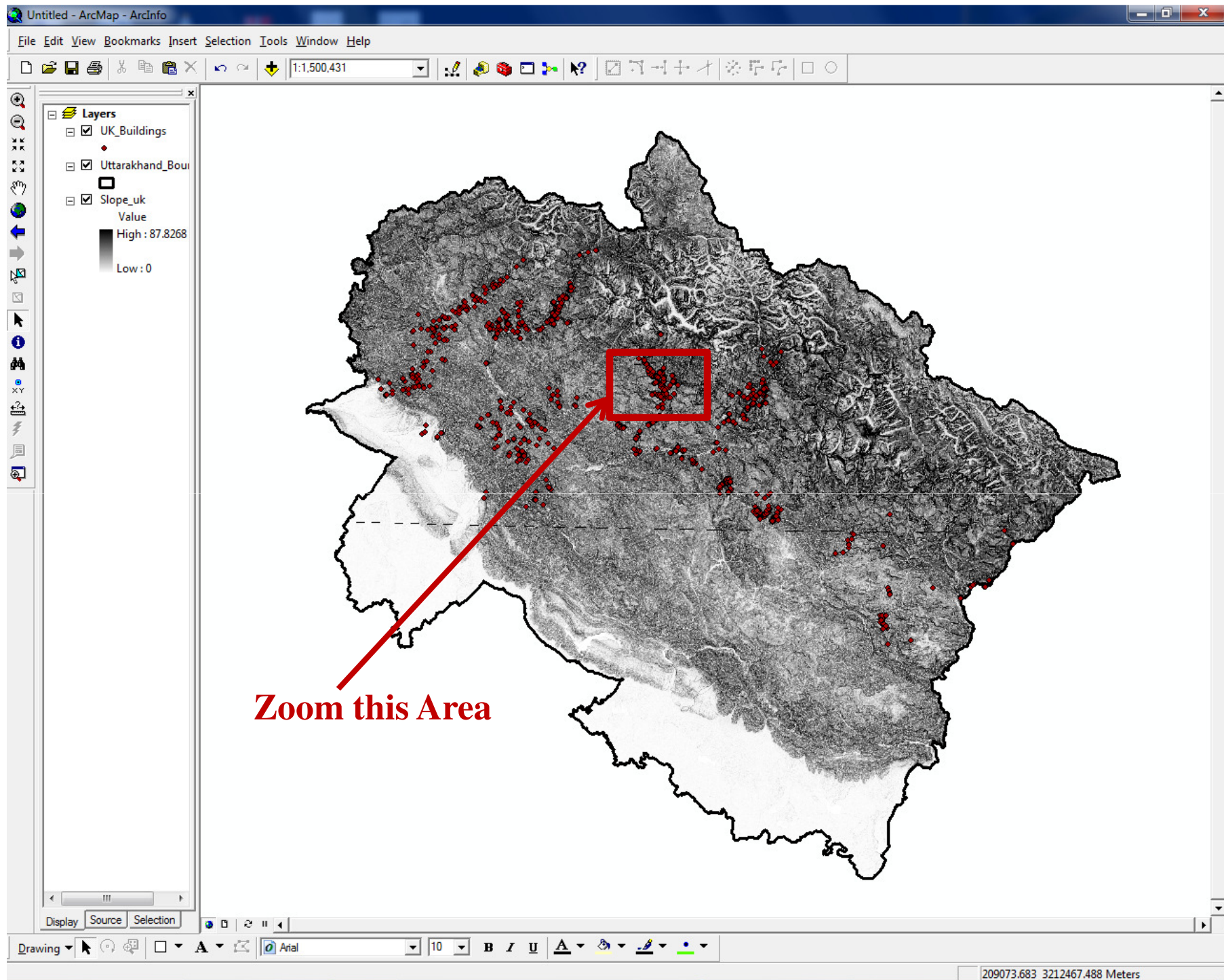


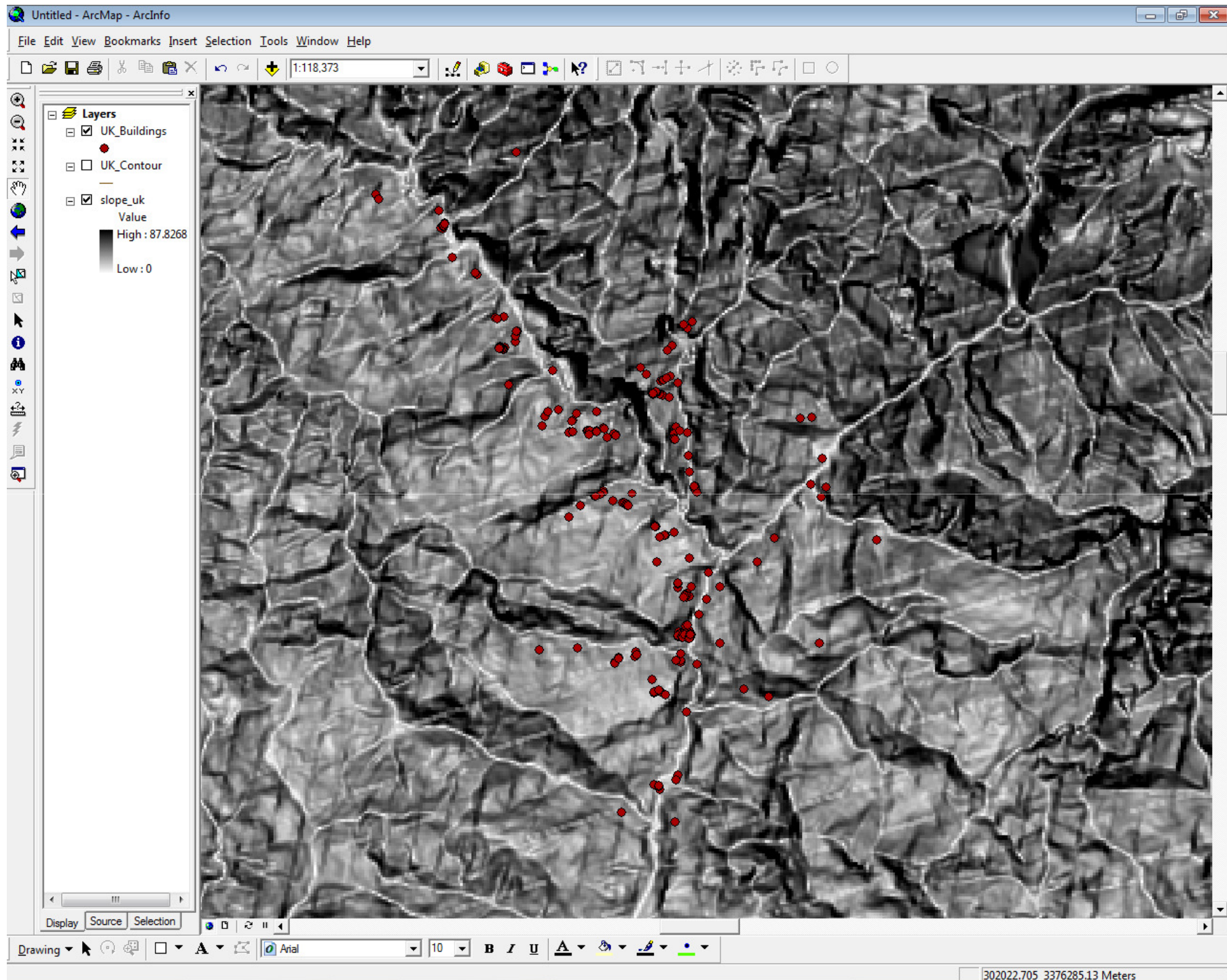


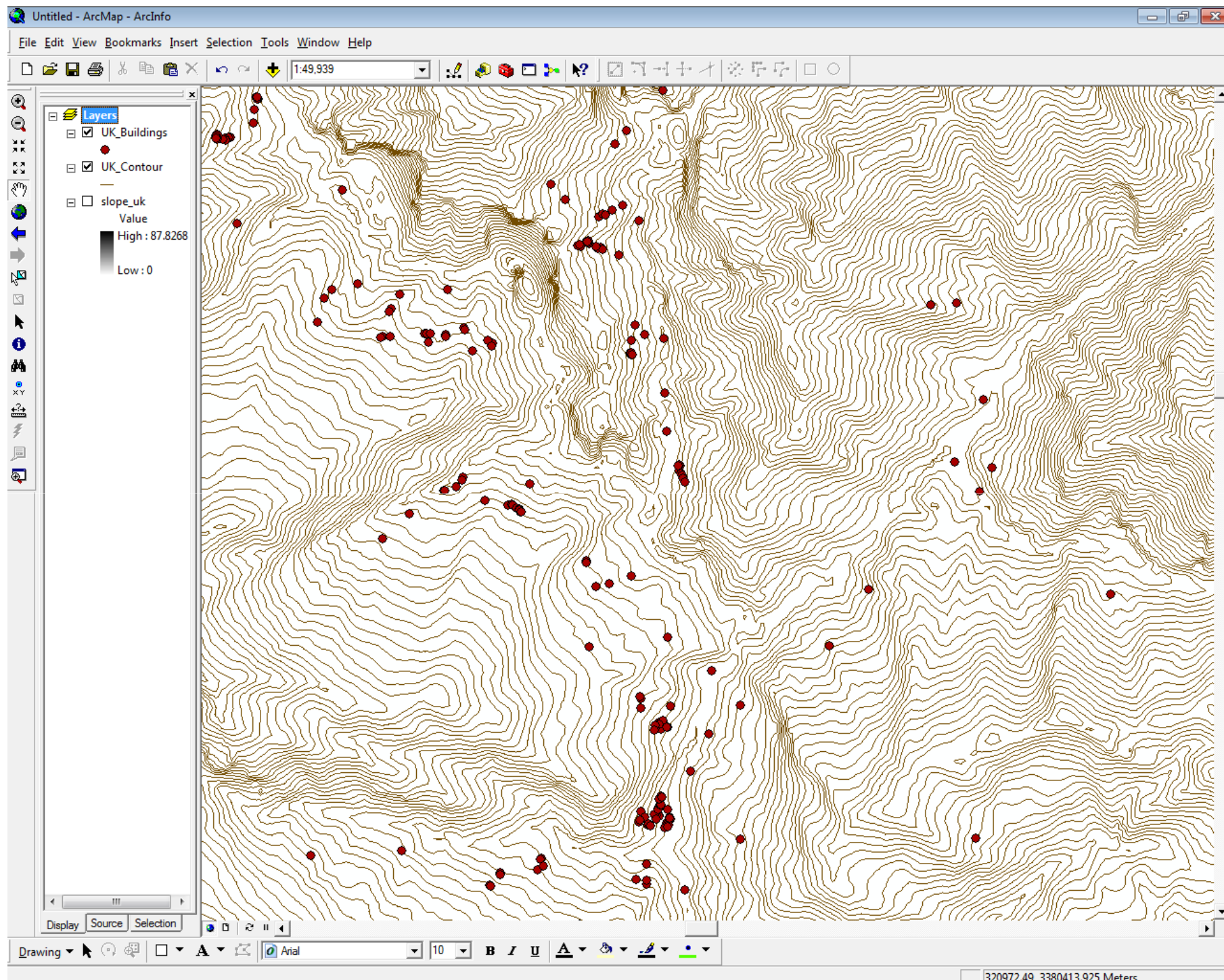
Slope (in Degree)	No. Building Damage (Yamuna Valley)
0-10	39
10-20	75
20-30	79
30-40	17

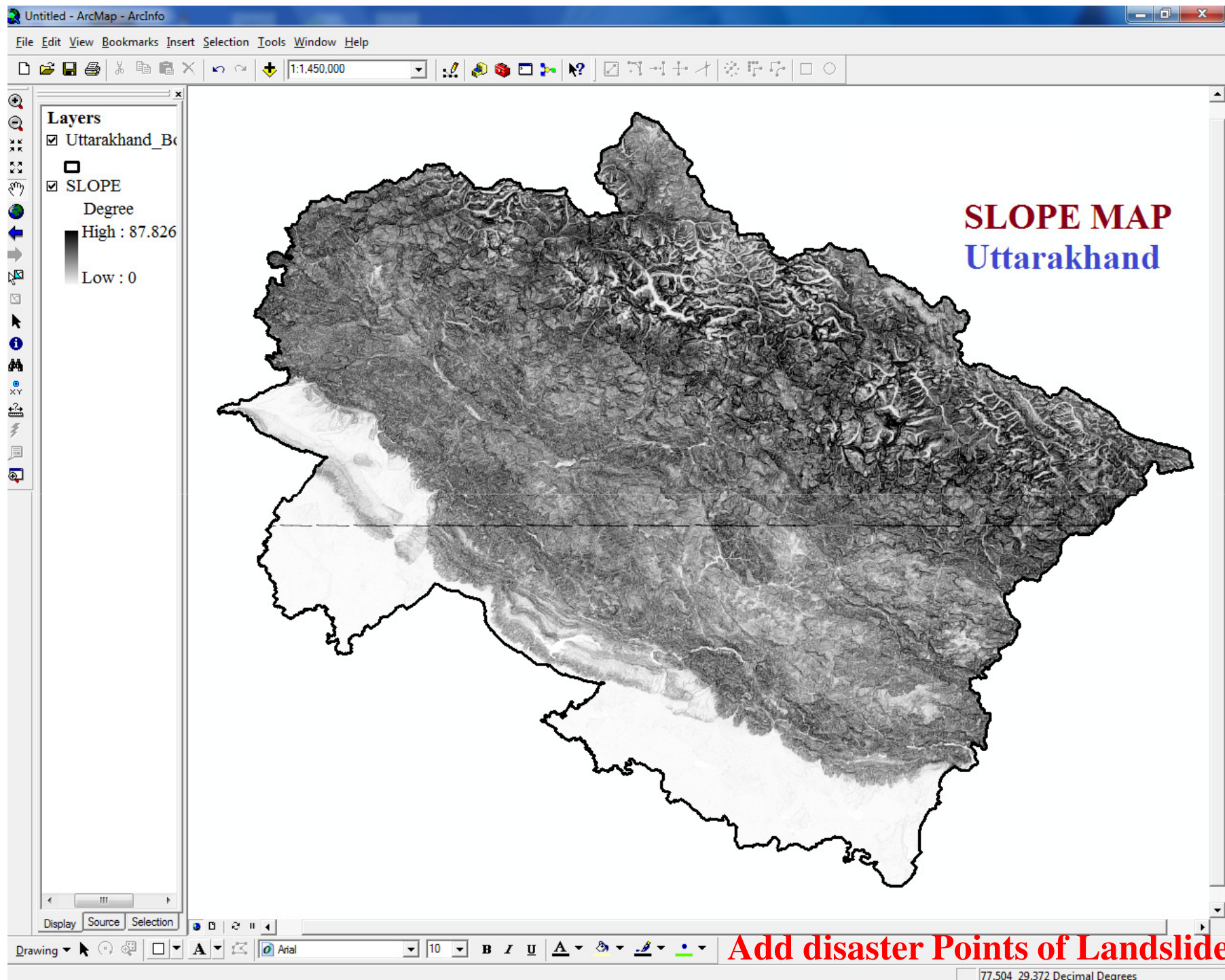


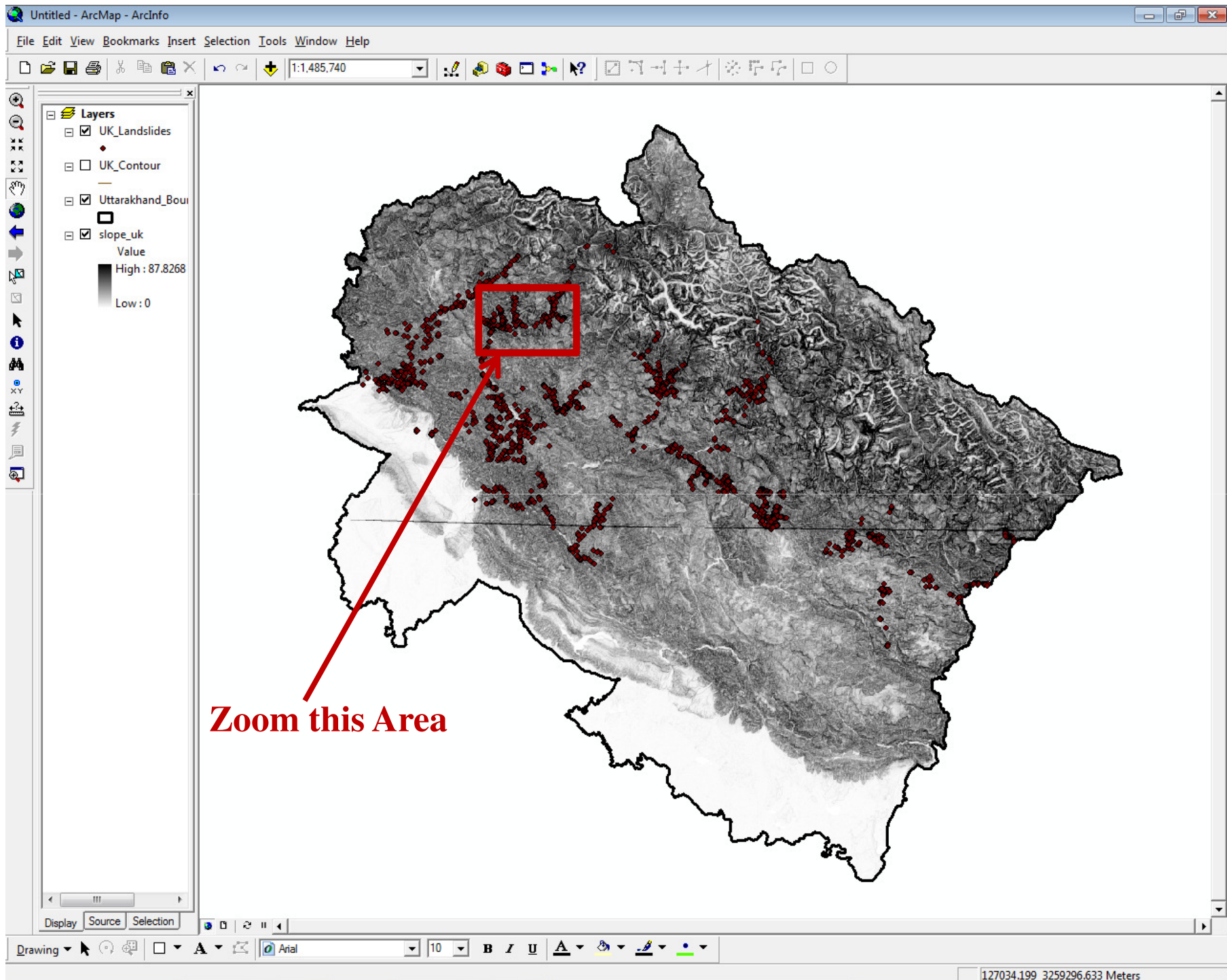
Height (in meter)	No. Building Damage (Yamuna Valley)
363-500	00
500-1000	23
1000-1500	106
1500-2000	68
2000-2500	13

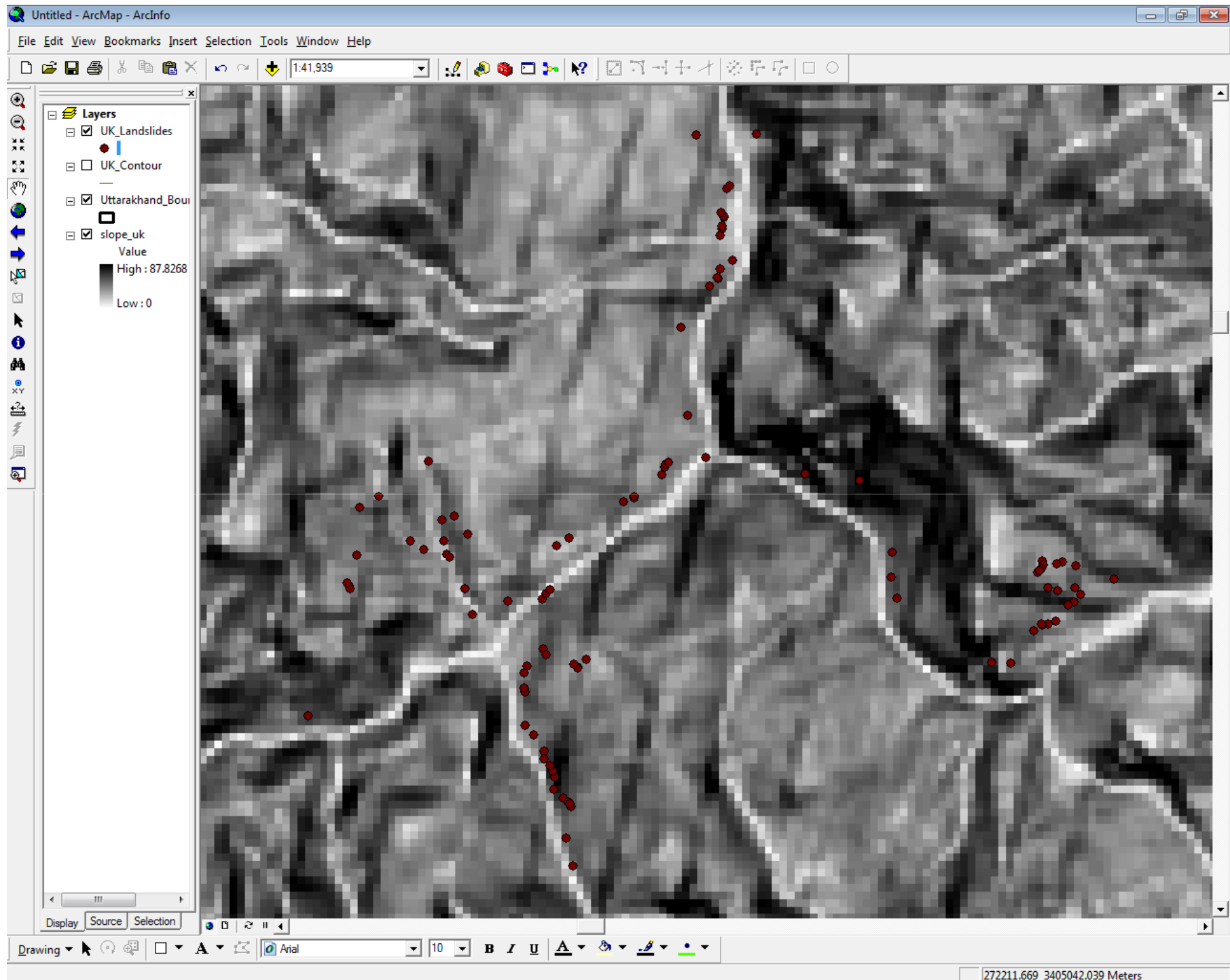


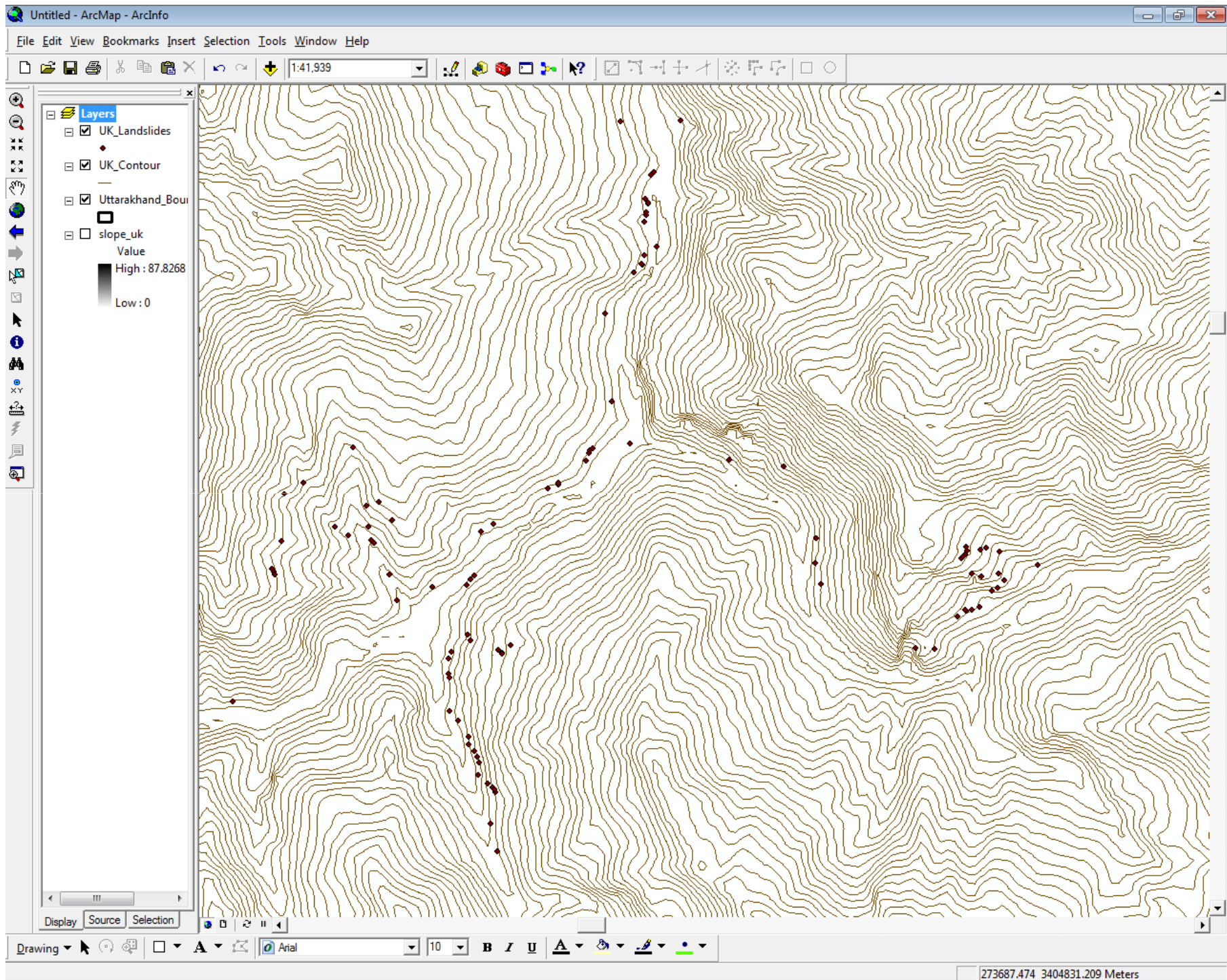


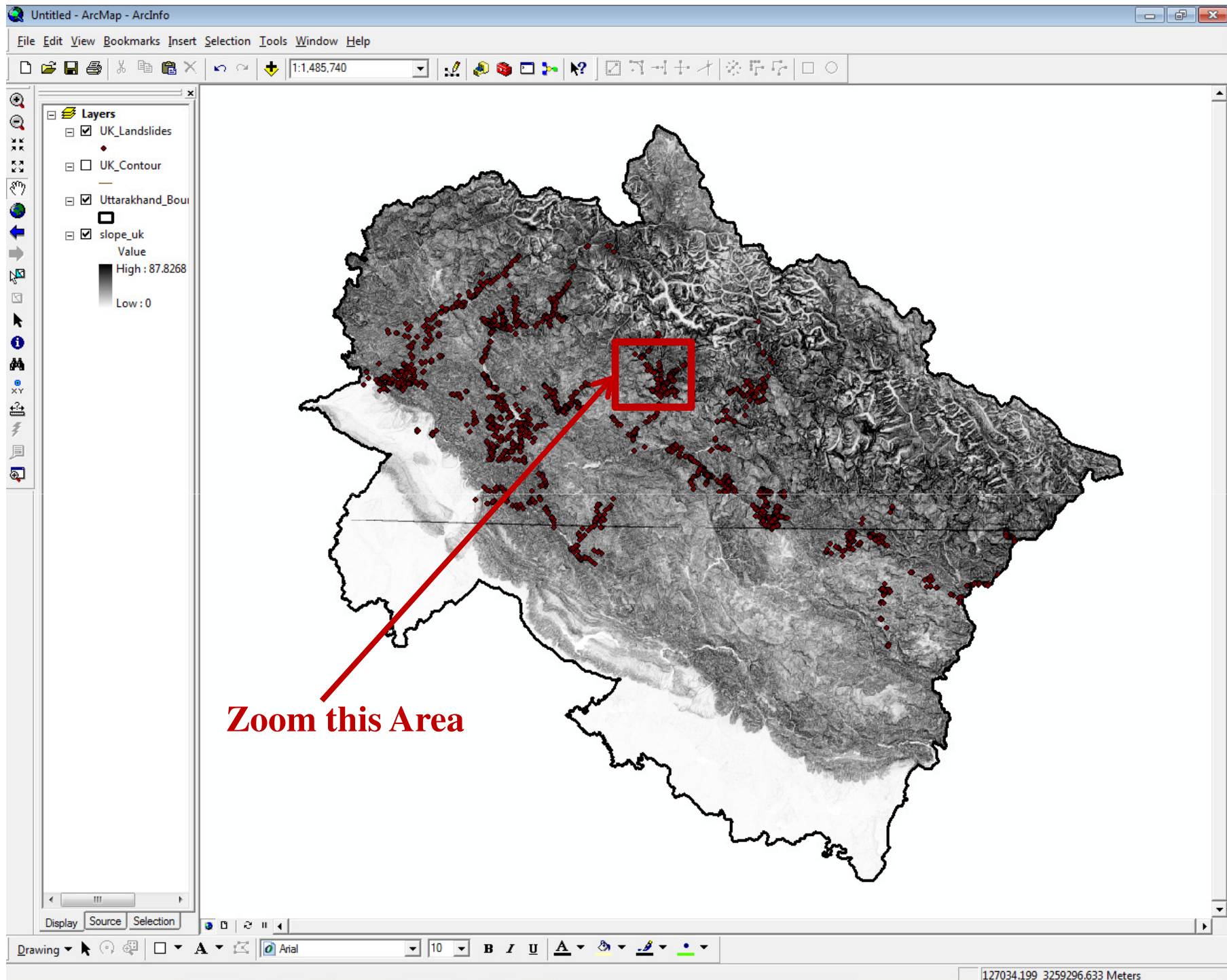


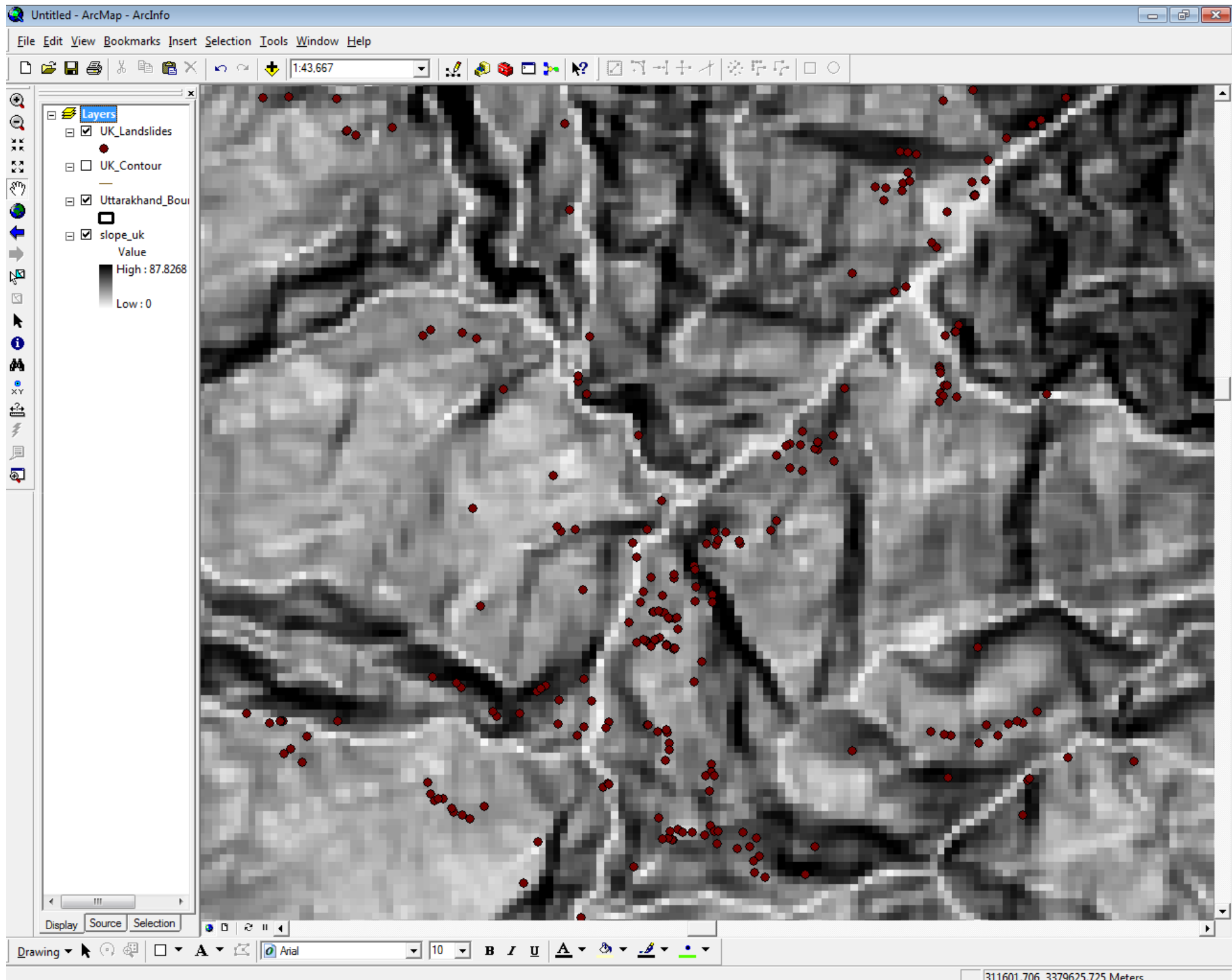


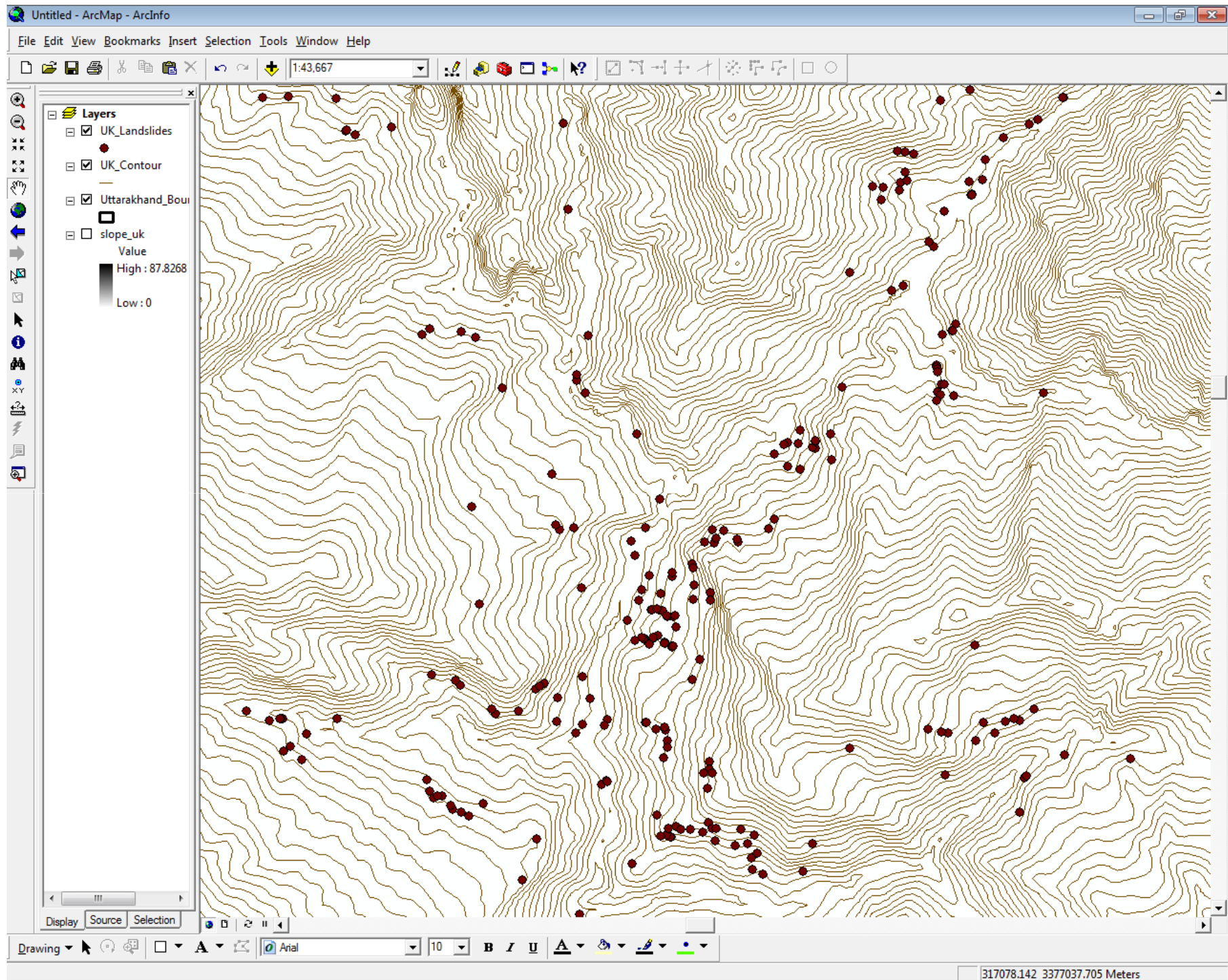


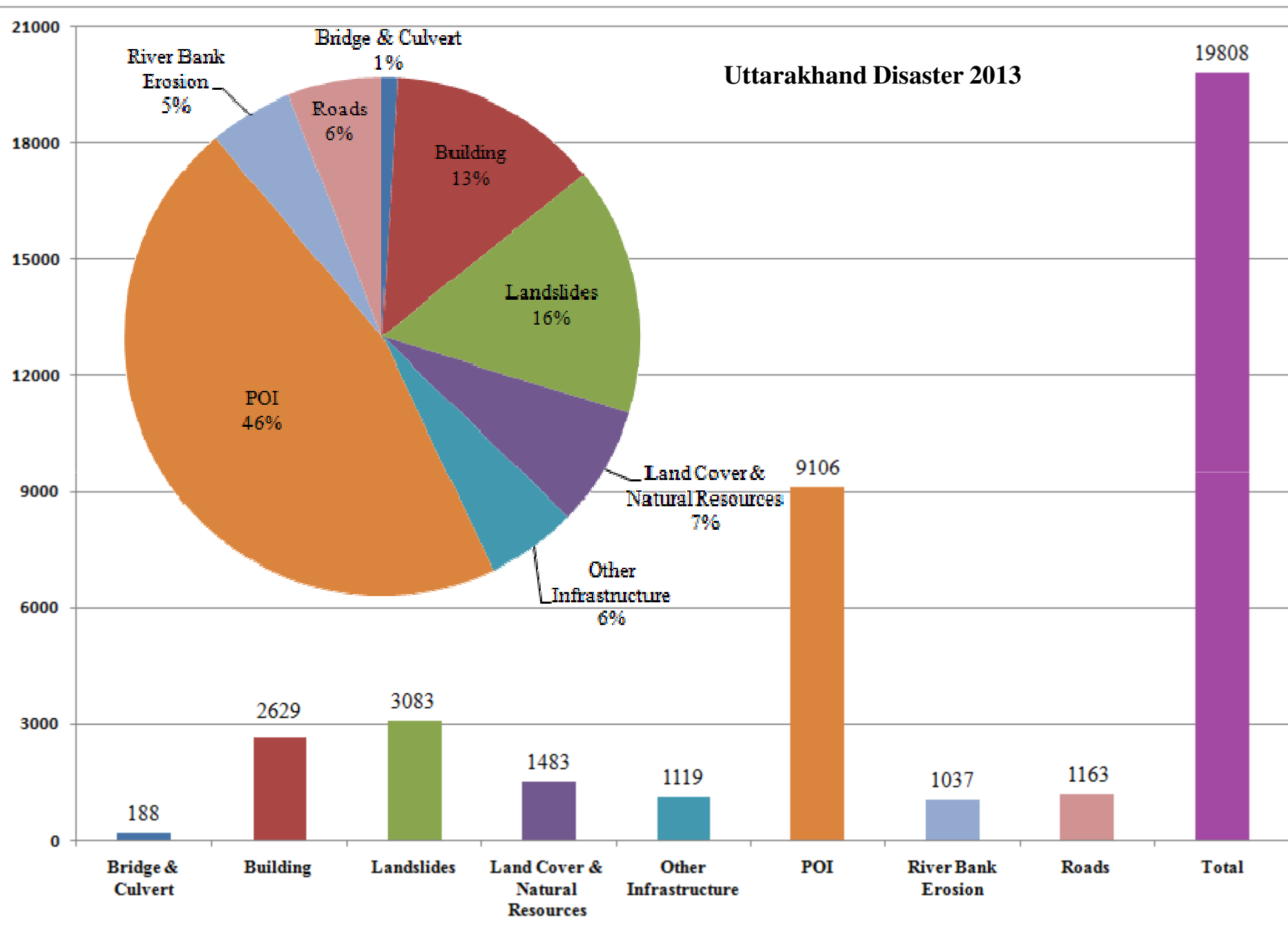








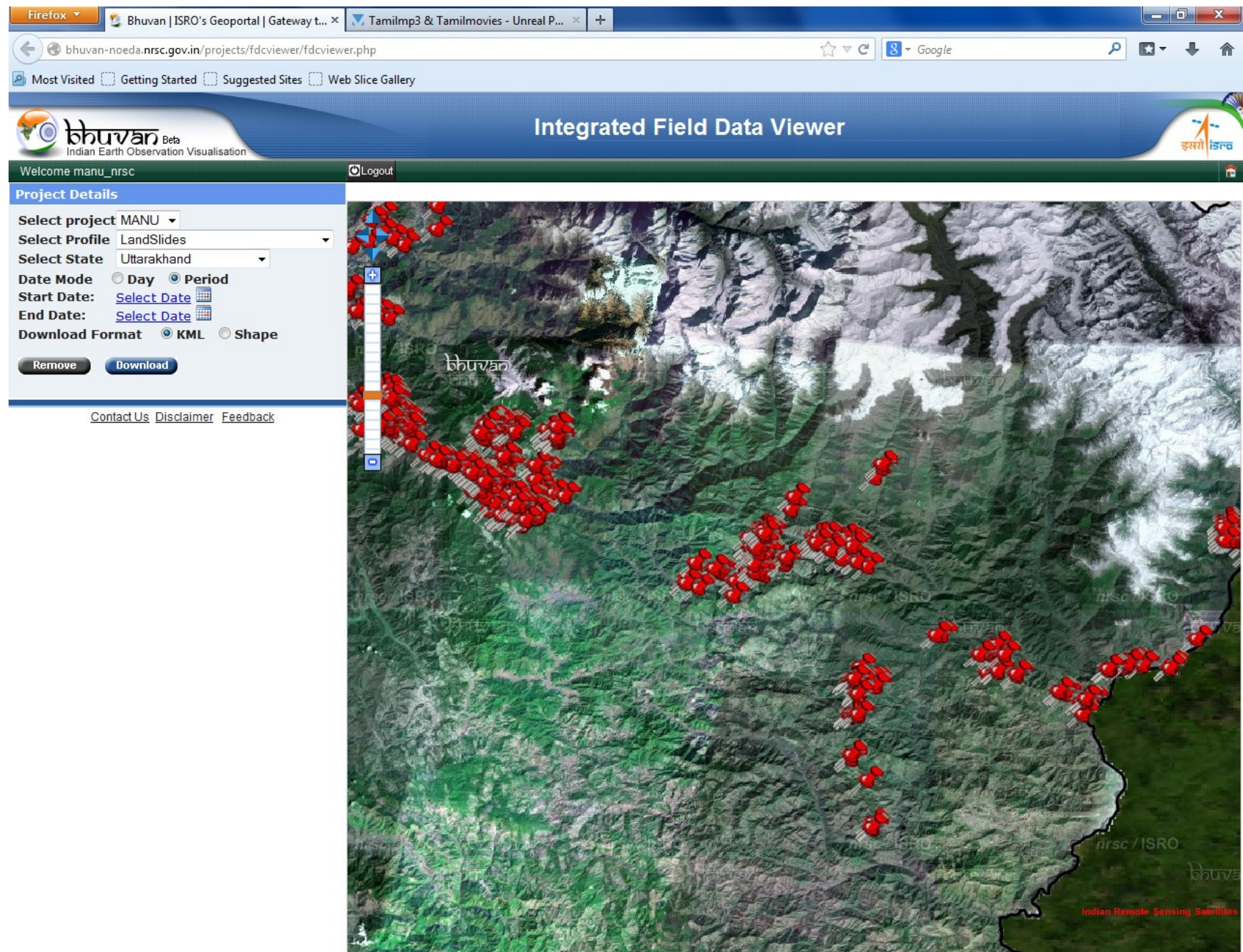




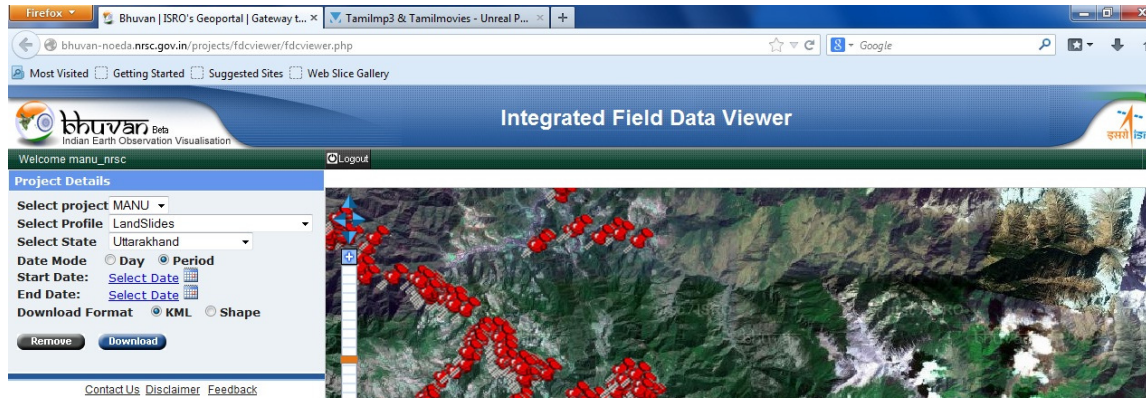
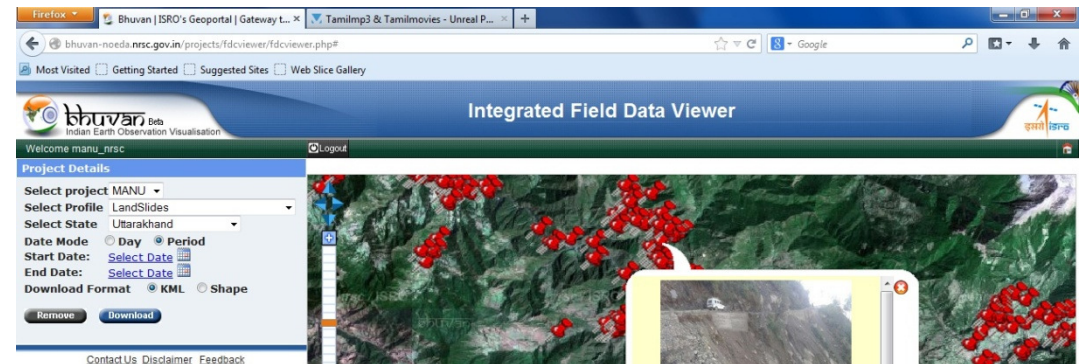
Category	Kedar Valley	Yamuna Valley	Pindar Valley	Kali Valley	Saryu Valley	Total
Bridge & Culvert	140	7	22	10	9	188
Building	1577	210	604	216	22	2629
Landslides	1647	334	720	176	206	3083
Land Cover & Natural Resources	192	36	611	198	446	1483
Other Infrastructure	521	161	287	76	74	1119
POI	3871	1743	1639	1221	632	9106
River Bank Erosion	313	172	211	131	210	1037
Roads	678	117	210	124	34	1163
Total	8939	2780	4304	2152	1633	19808

Open Landslide Point

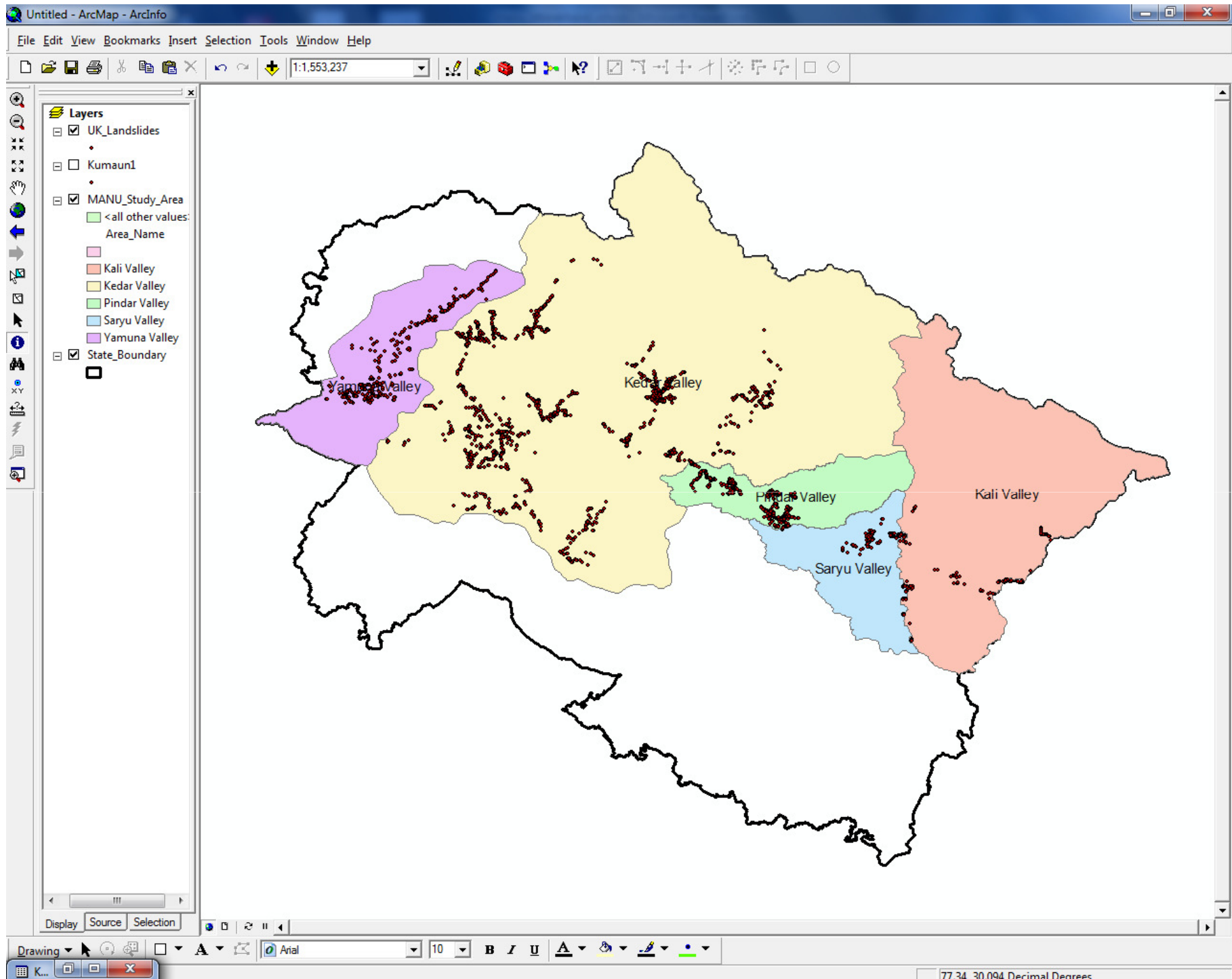
Landslides: Total Points- 1086 (16)



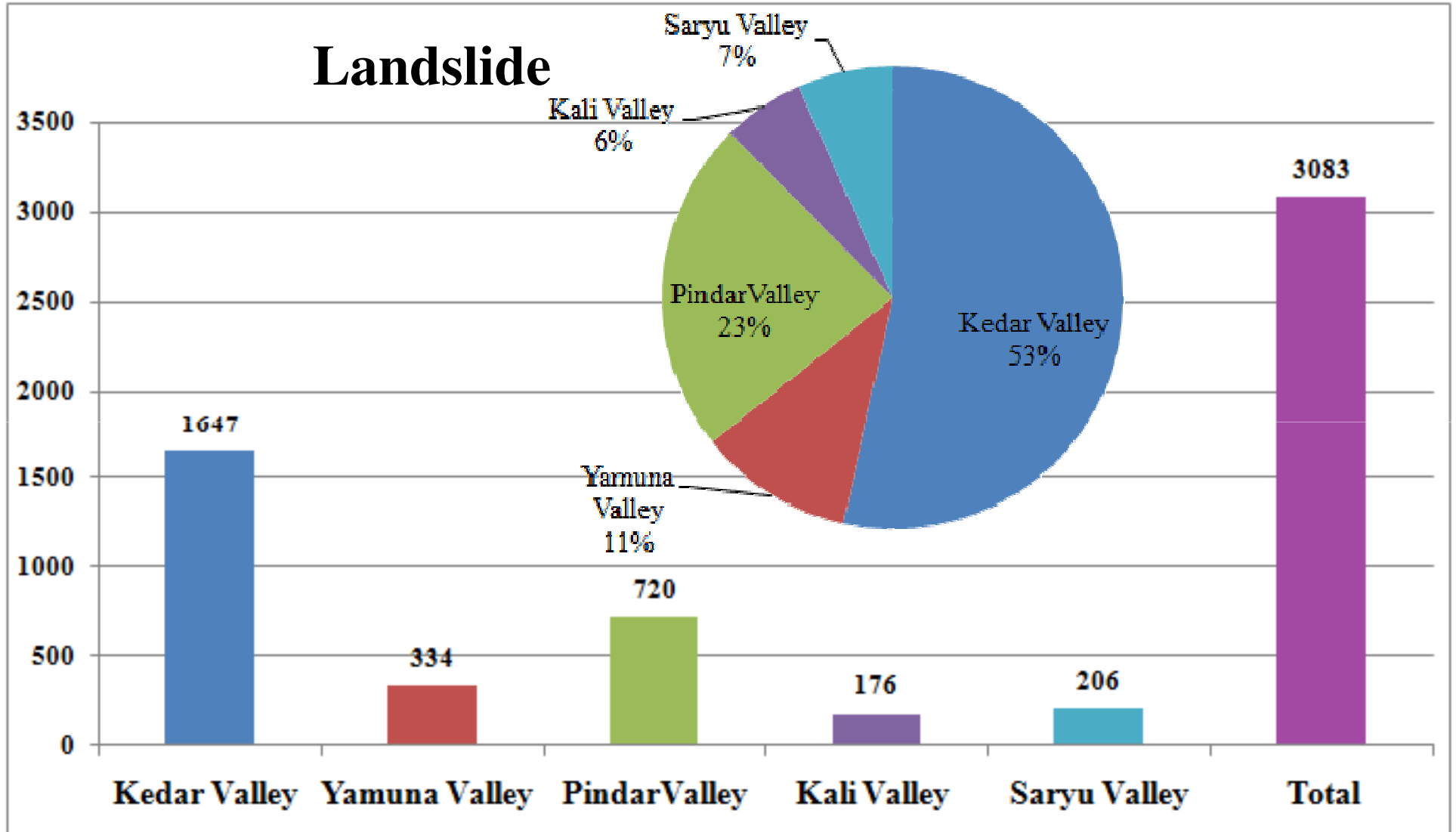
Landslides: Pindar Valley, Total Points- 720



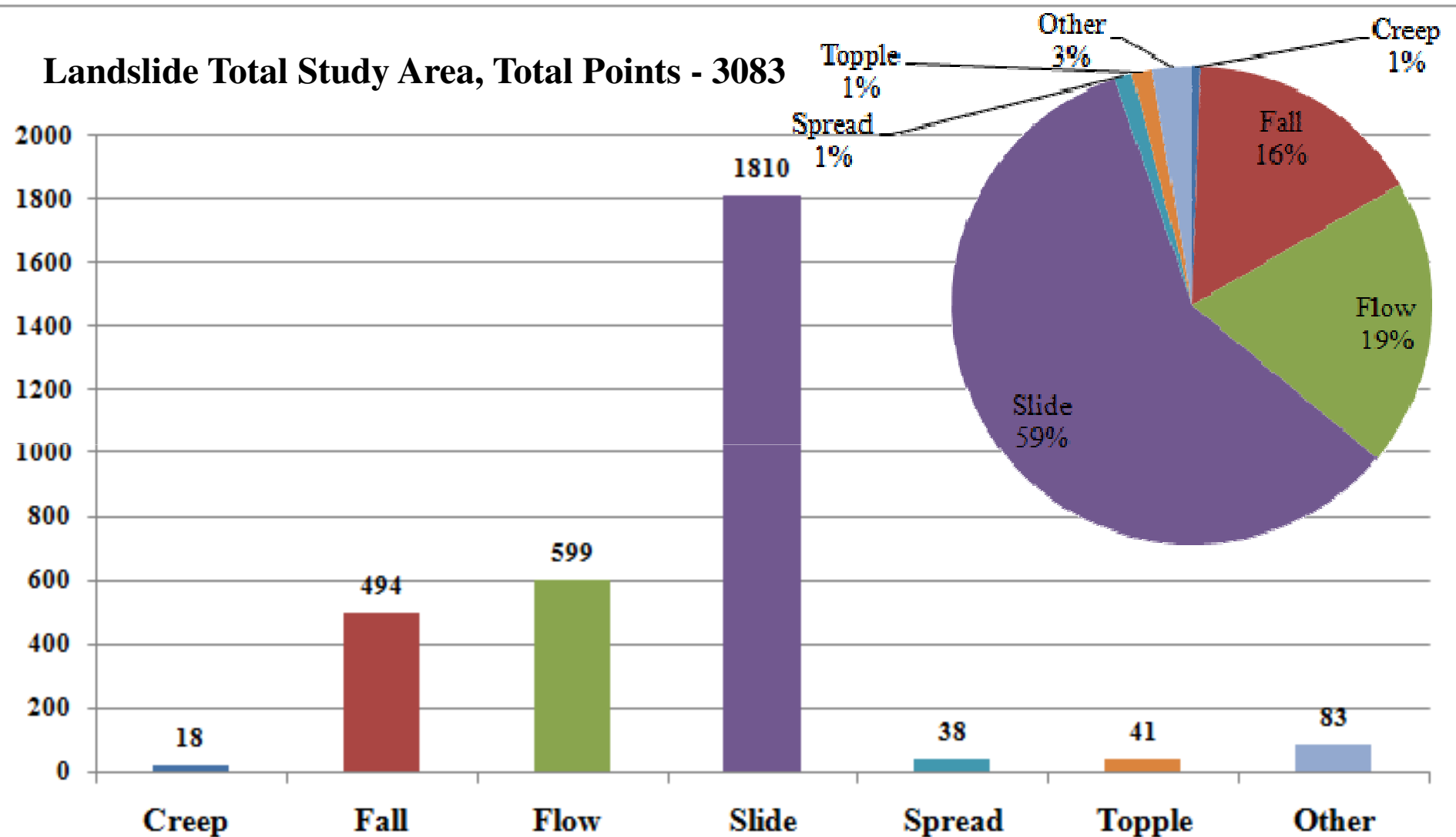
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appssubtype:	fdc
FDCprojectname:	MANU
themename:	LandSlides
profilename:	Vijay Arya, Deepak Singh, Vikkee Mehra
observername:	
org:	Kumaun University
mobilenno:	9756826505
creationtime:	2013-12-9 13:43:52
uuid:	31675c4b8730581
deviceid:	KUM-02(A)
Village Name:	chaliyapani
Tehsil Name:	tharalu
Affected Feature:	Road,Forest,
Settlement Name or	



Landslide



Landslide Total Study Area, Total Points - 3083



Roads: Total Points- 352 (16)

Firefox | Bhuvan - Collaboration Portal | Bhuvan | ISRO's Geoportal | Gateway to... | +

bhuvan-noeda.nrsc.gov.in/projects/fdcviewer/fdcviewer.php

Most Visited | Getting Started | Suggested Sites | Web Slice Gallery

bhuvan Beta
Indian Earth Observation Visualisation

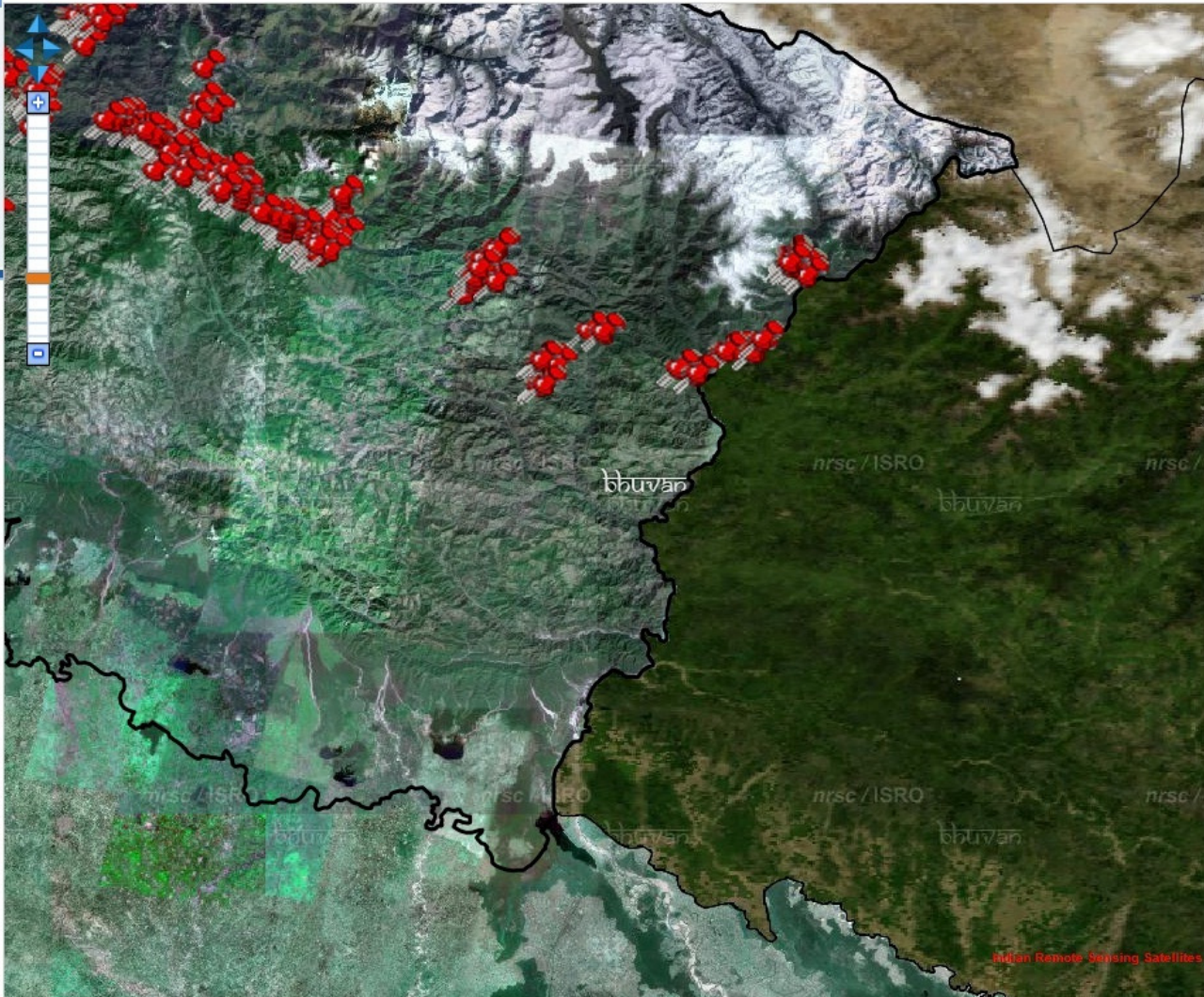
Integrated Field Data Viewer

Welcome manu_nrsc | Logout

Project Details


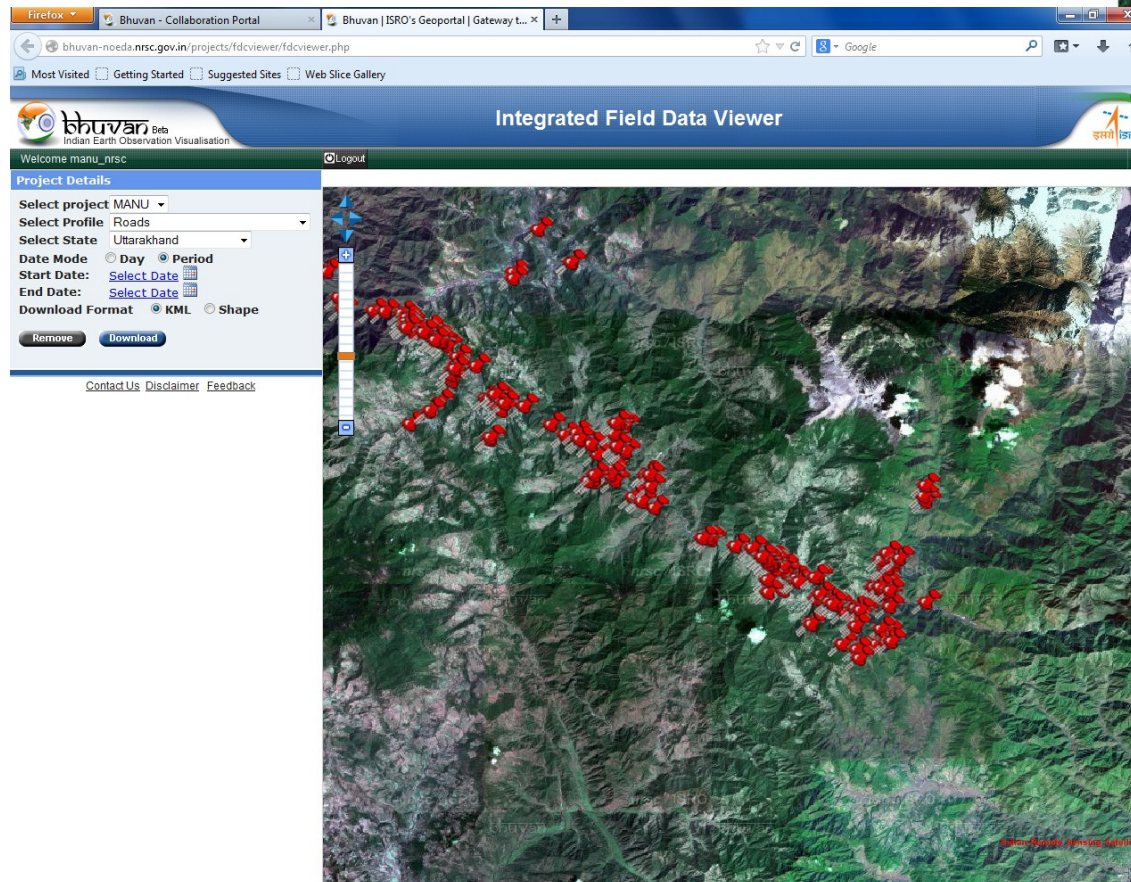
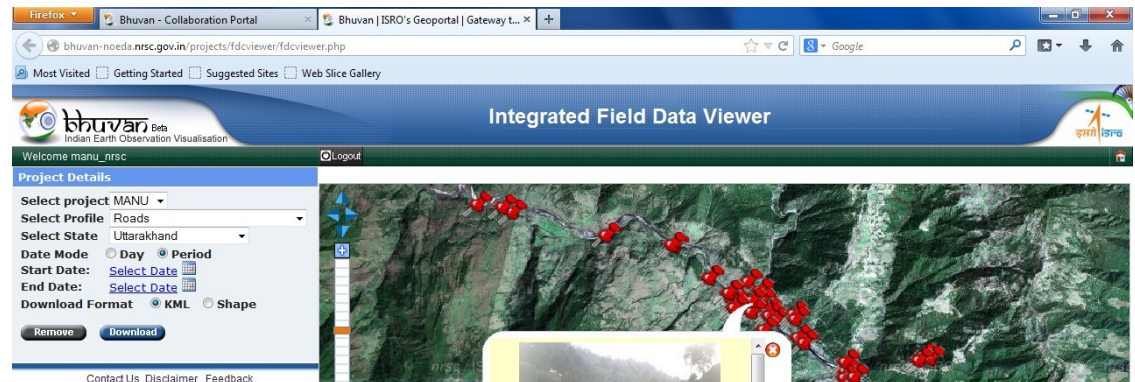
Select project: MANU
Select Profile: Roads
Select State: Uttarakhand
Date Mode: ☐ Day ☒ Period
Start Date: [Select Date](#)
End Date: [Select Date](#)
Download Format: ☒ KML ☐ Shape
[Remove](#) [Download](#)

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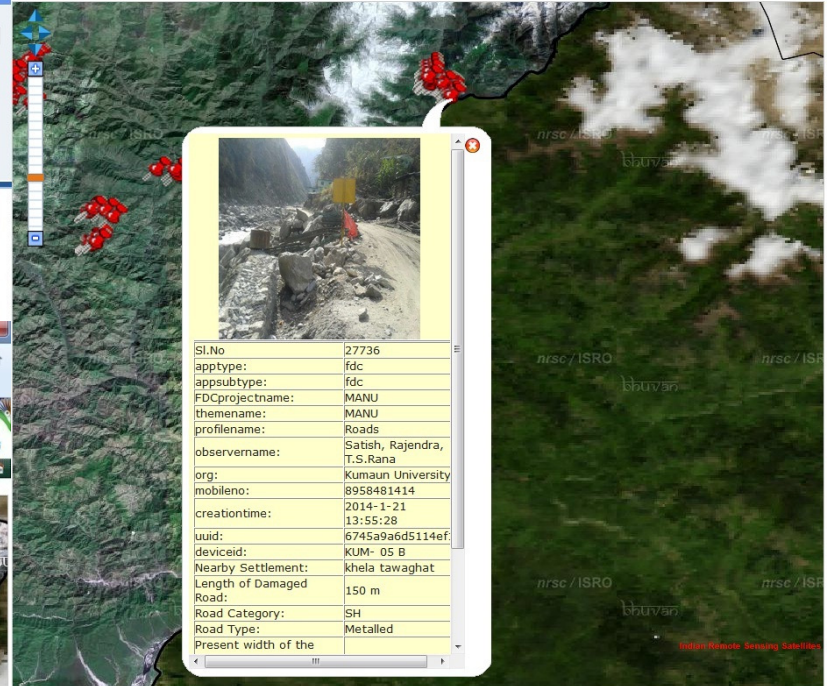
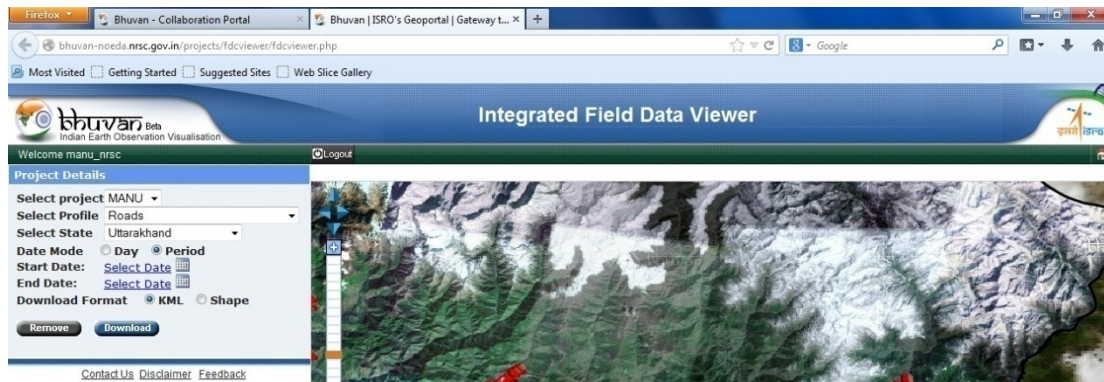
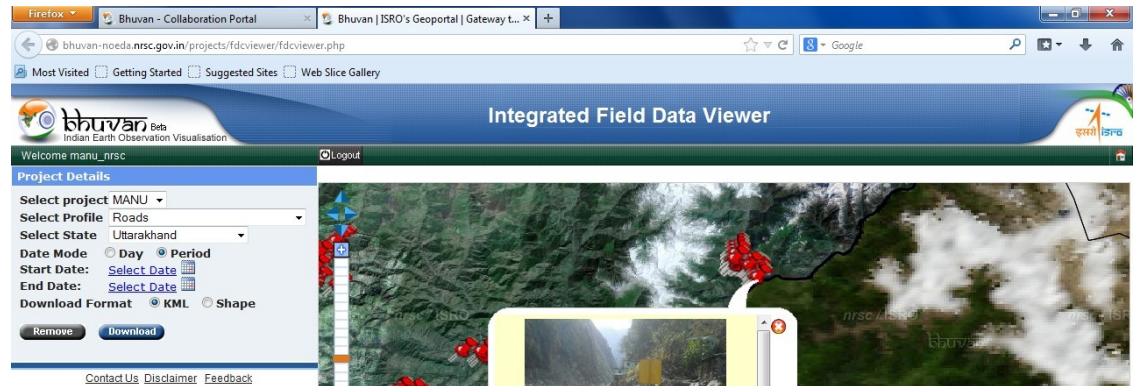
Indian Remote Sensing Satellites

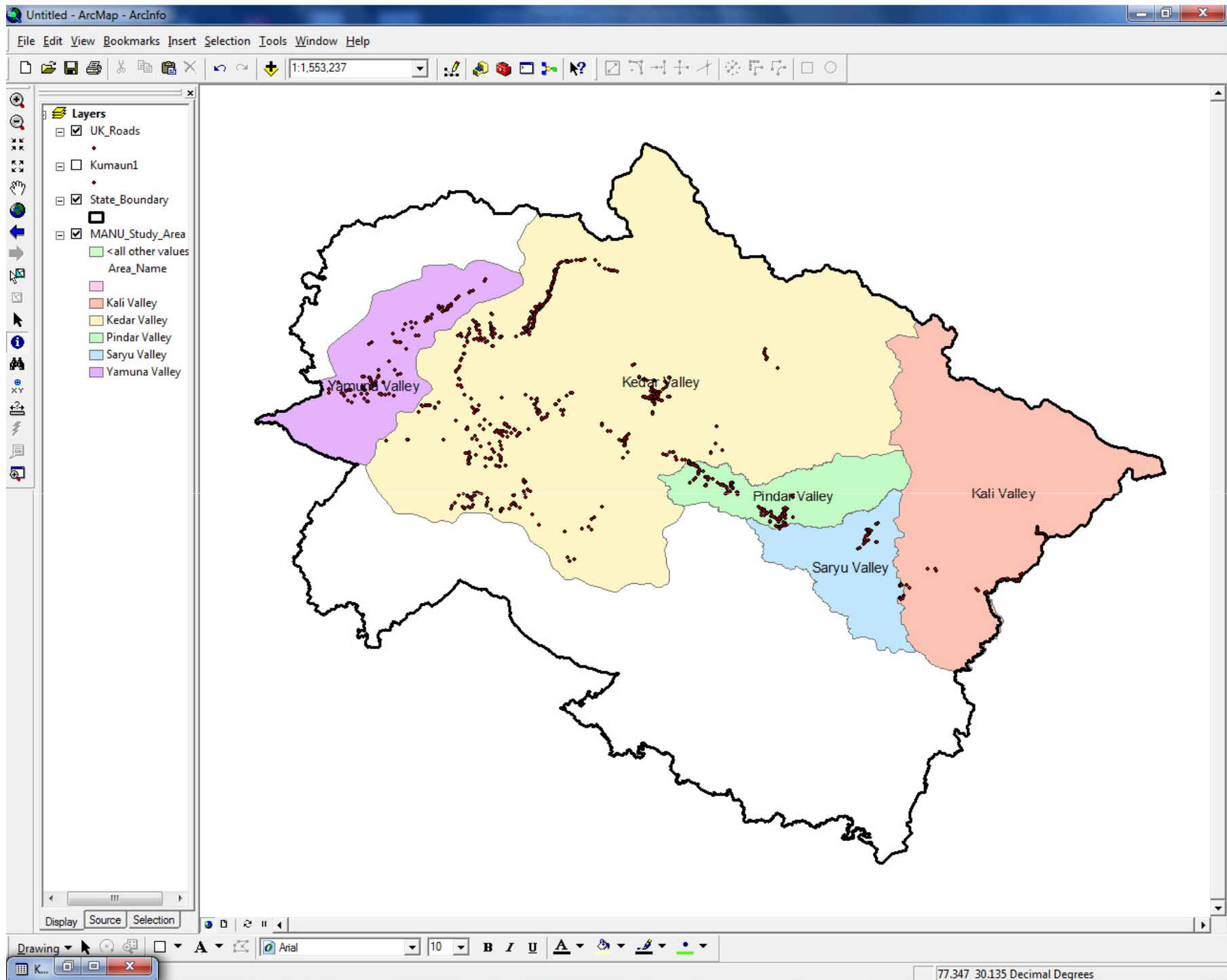
Roads: Pindar Valley, Total Points- 210



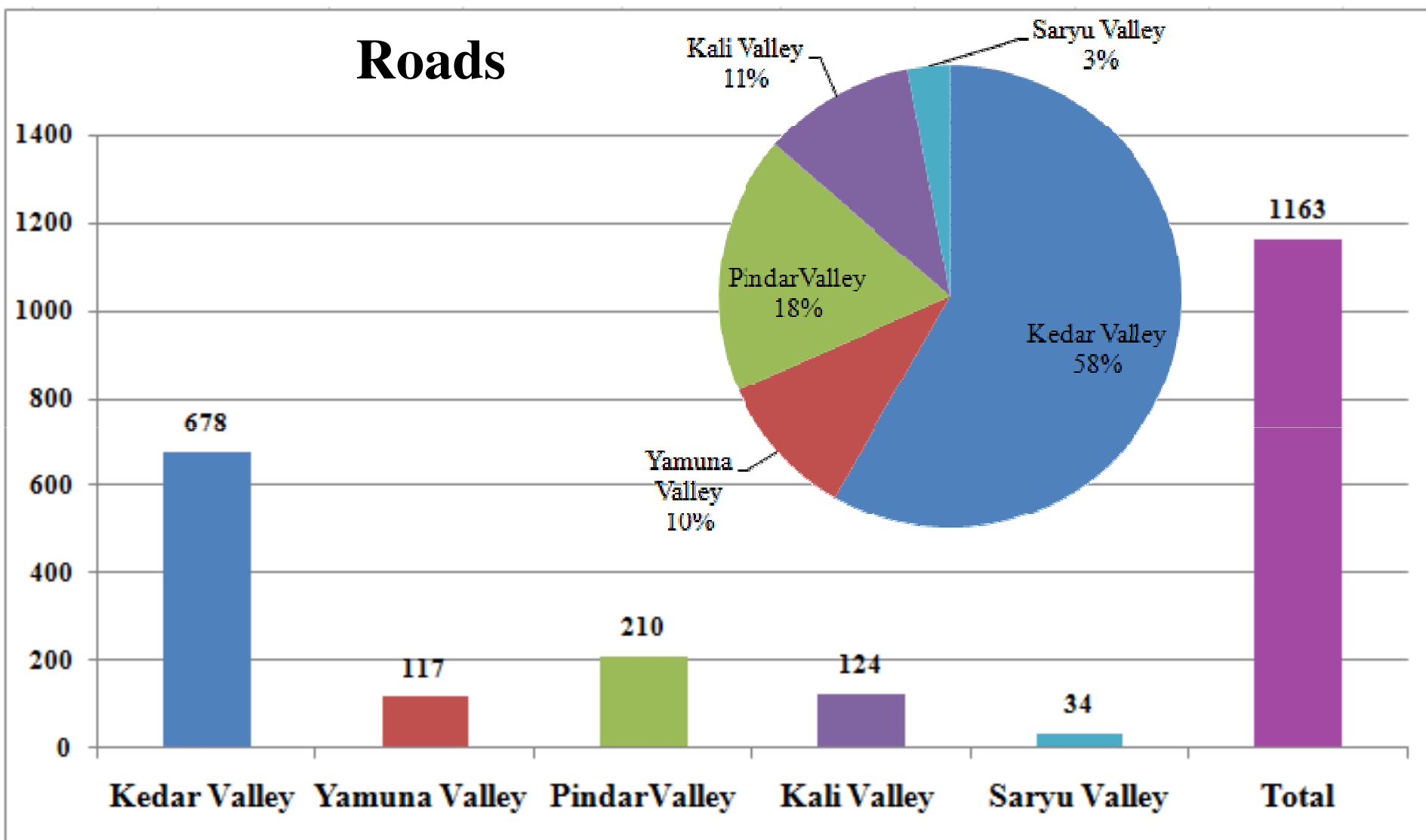
Sl.No	6925
apptype:	fdc
appssubtype:	fdc
FDCprojectname:	MANU
themenname:	MANU
profilename:	Roads
observername:	Gaurav, Vijay, Indra, Madwanand
org:	Kumaun University
mobilen:	9917317499
creationtime:	2013-10-27 4:51:10
uuid:	5a943520396e9af4
deviceid:	KUM- 04 A
Nearby Settlement:	Lower Tharali market
Length of Damaged Road:	34.45 m
Road Category:	SH
Road Type:	Metalled
Present width of the Road (approx. in	3.43 m

Roads: Kali & Saryu Valley, Total Points- 142 (16)

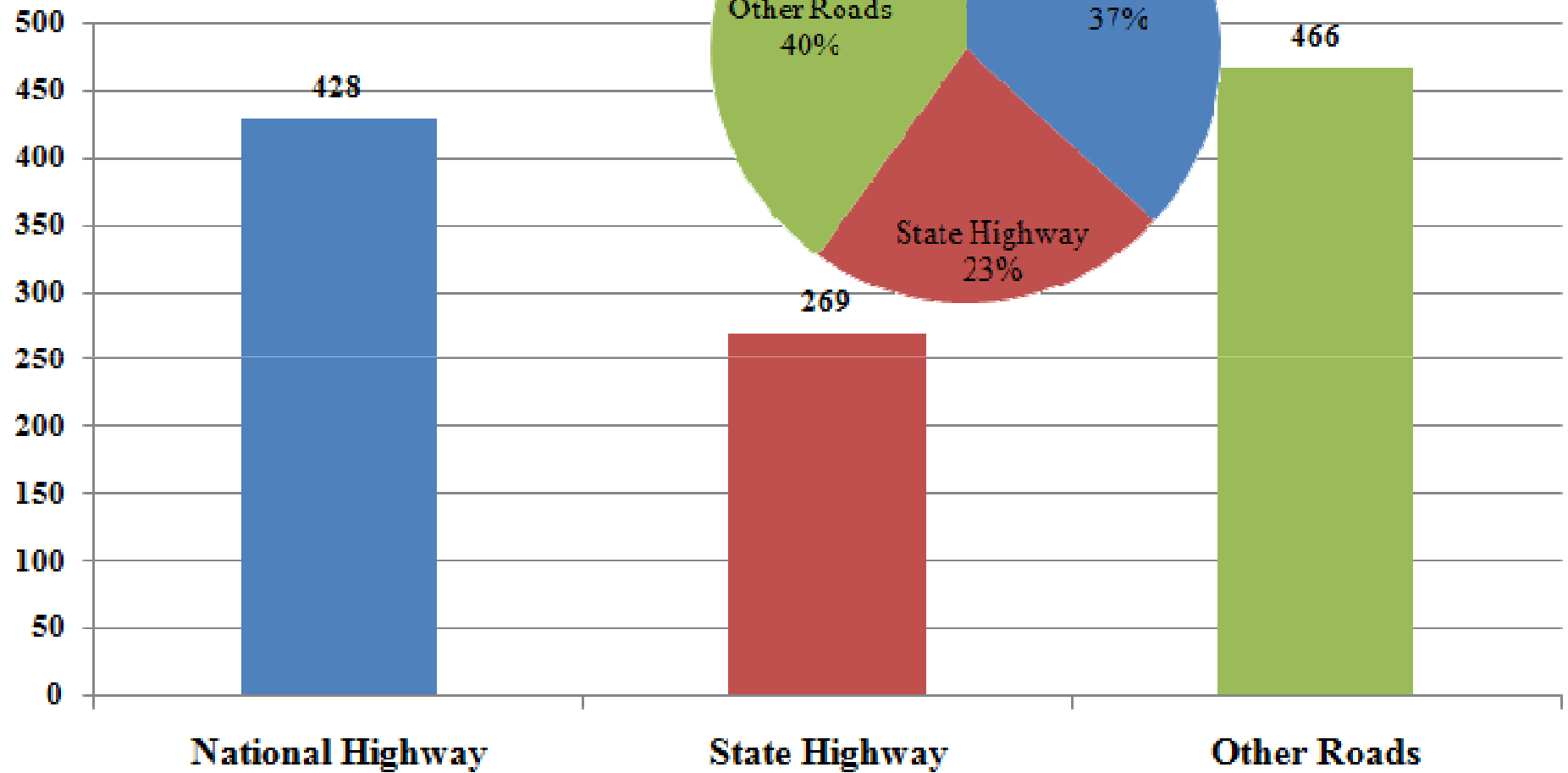




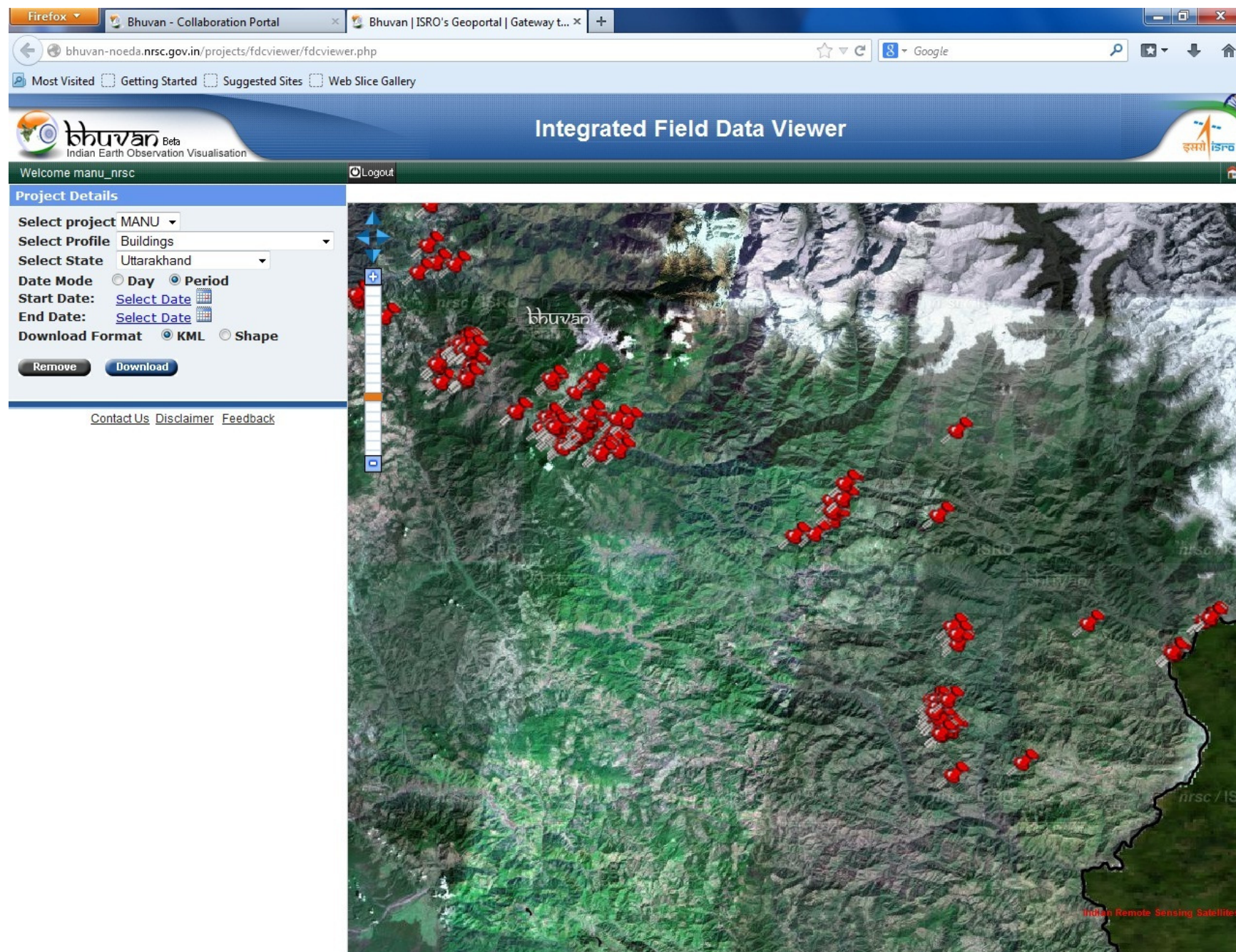
Roads



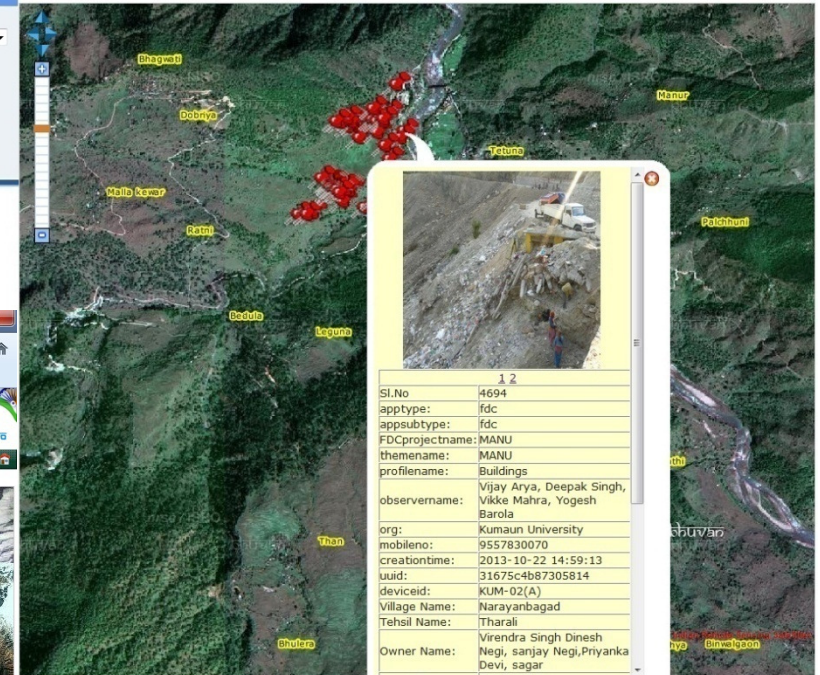
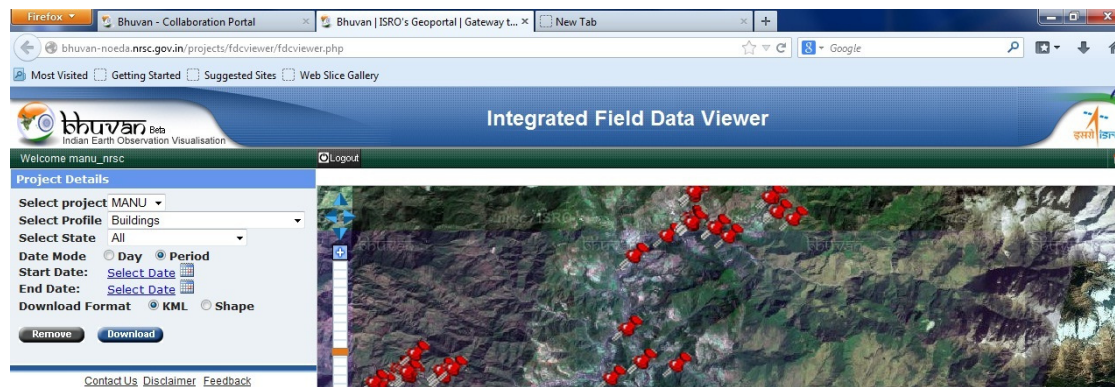
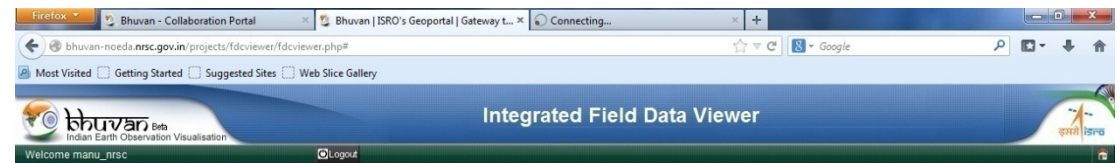
Road Total Study Area, Total Points - 1163



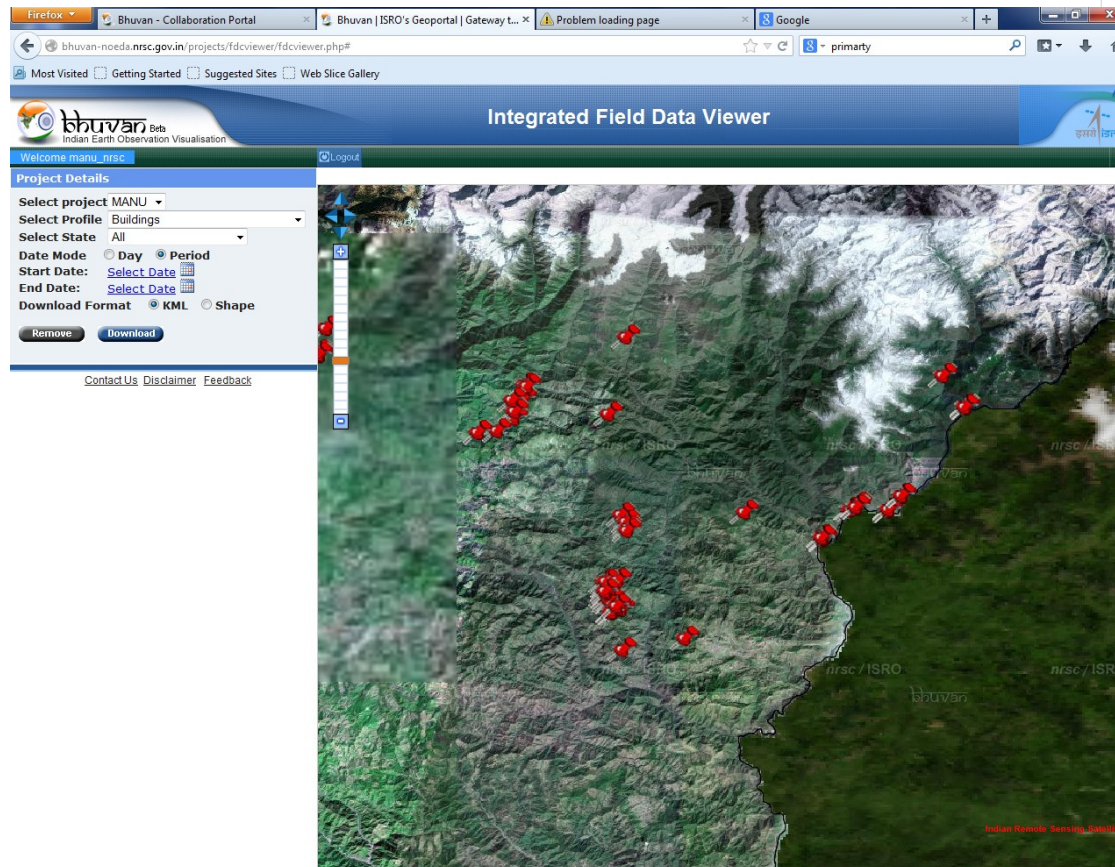
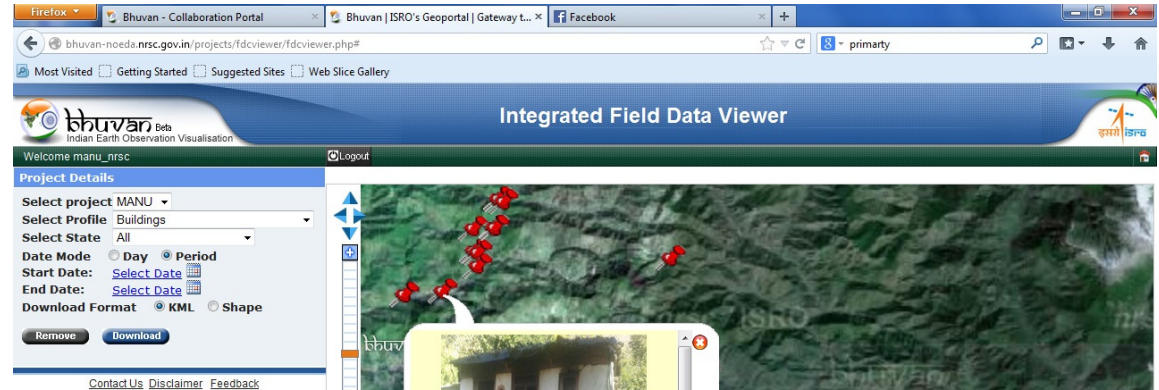
Buildings: Total Points- 813 (29)

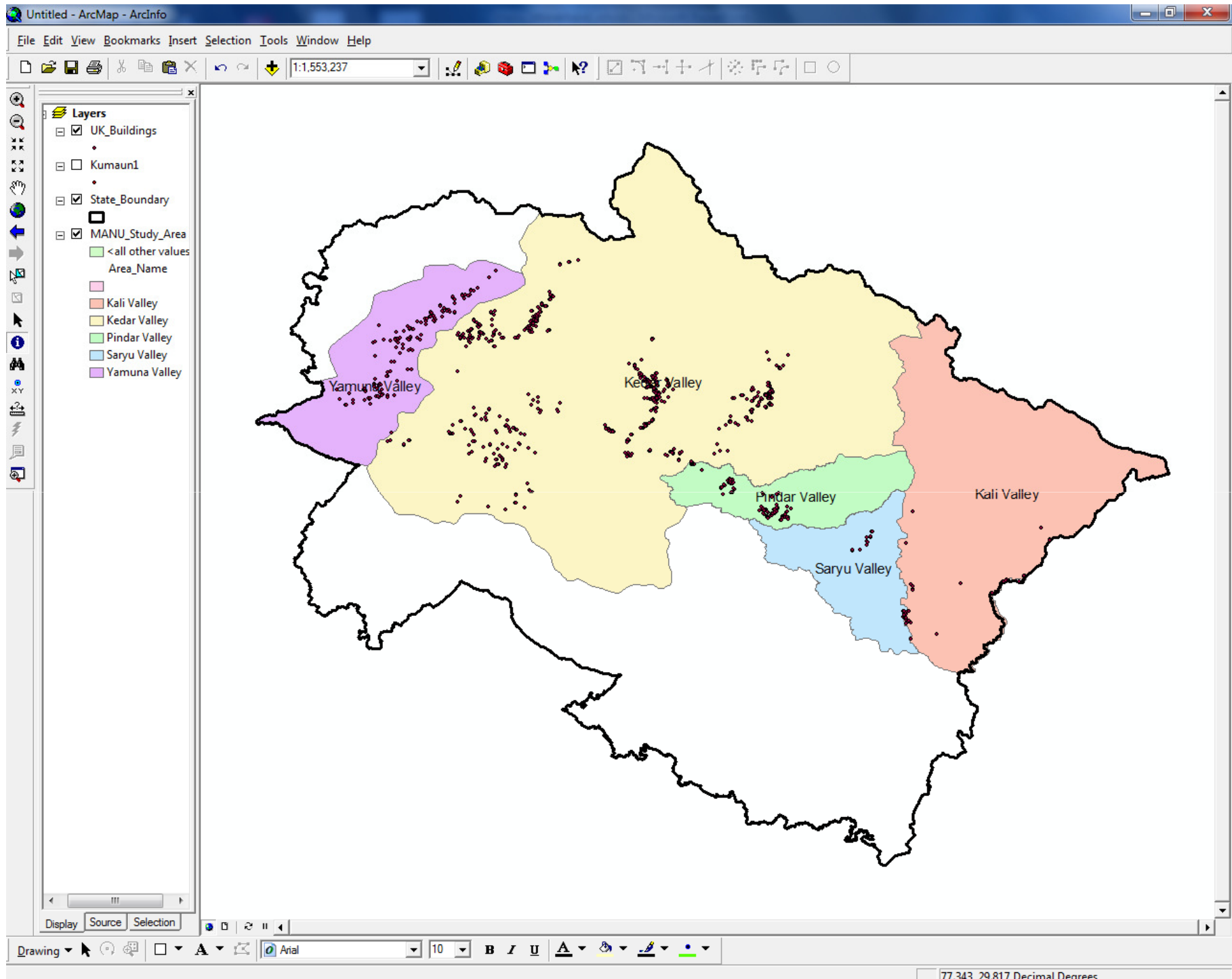


Buildings: Pindar Valley, Total Points- 604

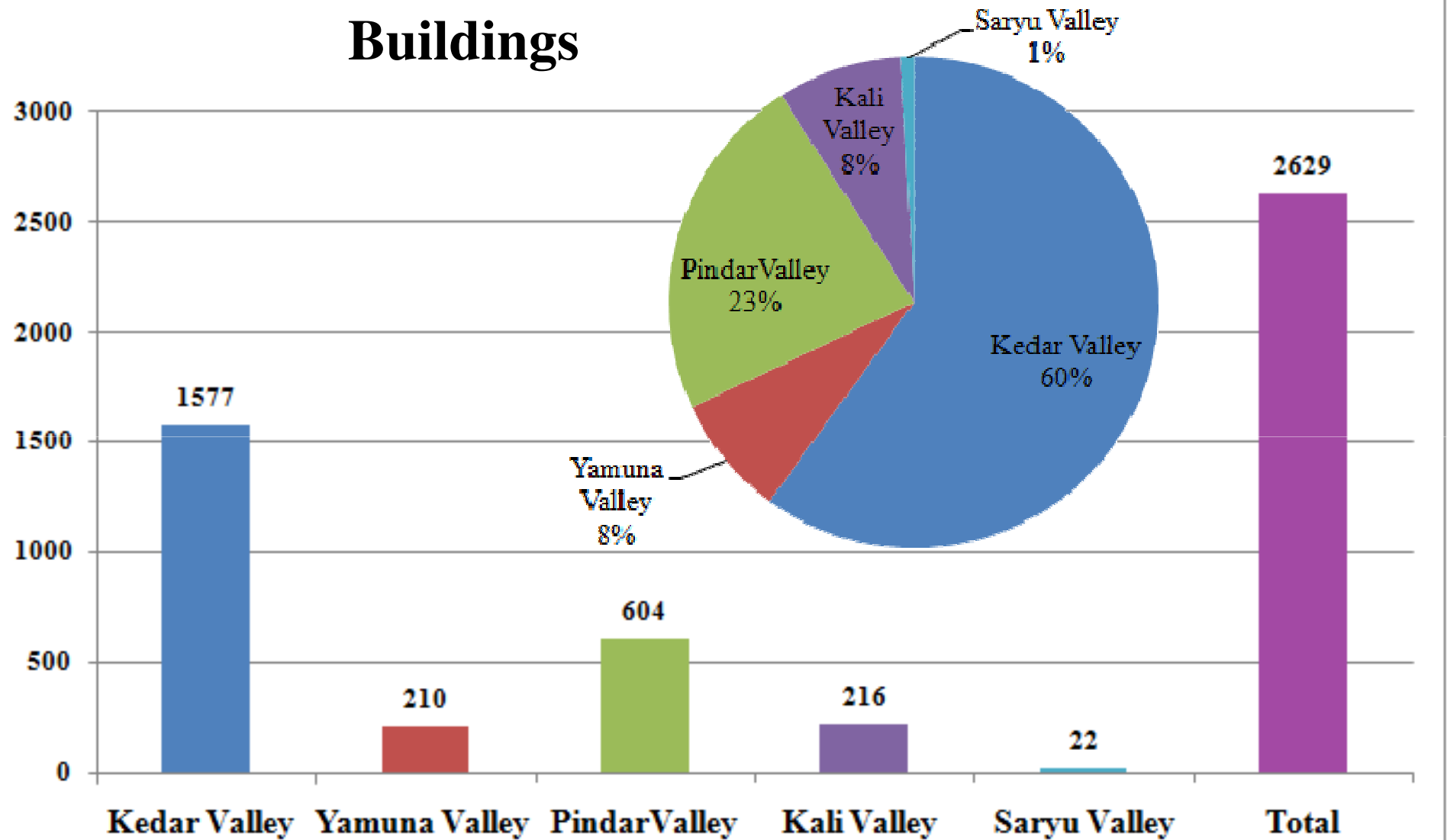


Buildings: Kali & Saryu Valley, Total Points- 209 (29)

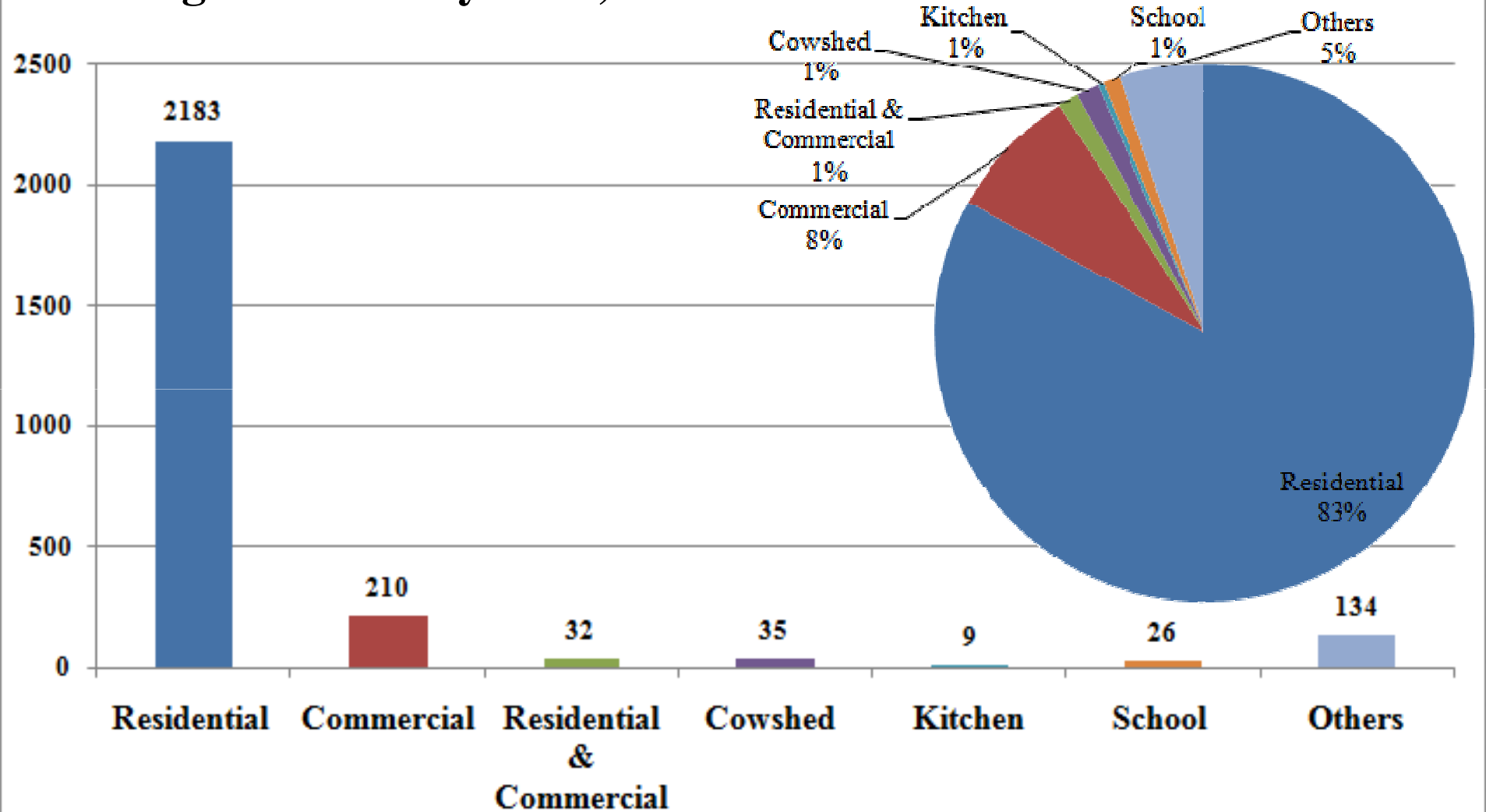




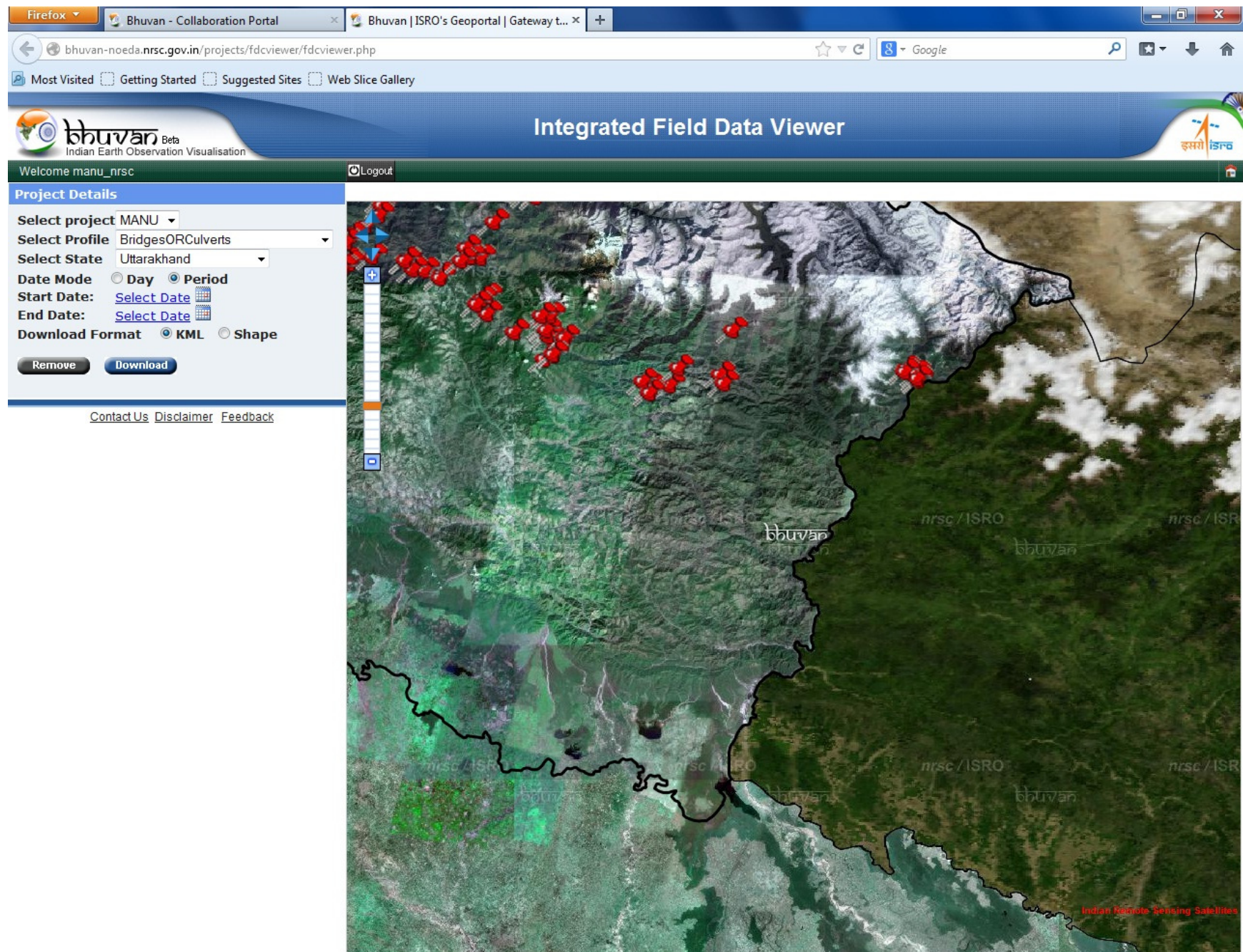
Buildings



Buildings Total Study Area, Total Points -2629



Bridges: Total Points- 37 (4)



Bridges: Pindar Valley, Total Points- 22

The screenshot shows the 'Integrated Field Data Viewer' web application. The left sidebar contains the 'Project Details' section with the following settings: Select project: MANU, Select Profile: BridgesORCulverts, Select State: Uttarakhand, Date Mode: Period, Start Date: Select Date, End Date: Select Date, and Download Format: KML. The main area displays a satellite map of a mountainous region with several red location pins. A 'Logout' link is visible in the top right corner of the sidebar.

This screenshot shows the same web application with a different map view. The map displays a larger area of the Pindar Valley, densely populated with red location pins. The left sidebar and top navigation bar are identical to the previous screenshot.

A data popup window is overlaid on the map, displaying a photograph of a bridge and a table of metadata.

Sl.No	20521
apptype:	fdc
appsubtype:	fdc
FDCprojectname:	MANU
themename:	MANU
profilename:	BridgesORCulverts
observername:	Meenakshi, Yashoda Shagufta
org:	Kumaun University
mobilen:	7579203765
creationtime:	2013-12-22 15:14:11
uuid:	680f1f9bf13275d1
deviceid:	KUM-01 A
Damaged Structure:	Bridge
Name of Structure:	Chiringa bridge
Name of River or Stream:	chiringa gadhera
Connected	chiringa villege

Bridges: Kali & Saryu Valley, Total Points- 15 (4)

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Indian Earth Observation Visualisation


Integrated Field Data Viewer

Welcome manu_nrsc | Logout

Project Details

Select project: MANU
Select Profile: BridgesORCulverts
Select State: Uttarakhand
Date Mode: ☐ Day ☒ Period
Start Date: [Select Date](#)
End Date: [Select Date](#)
Download Format: ☒ KML ☐ Shape
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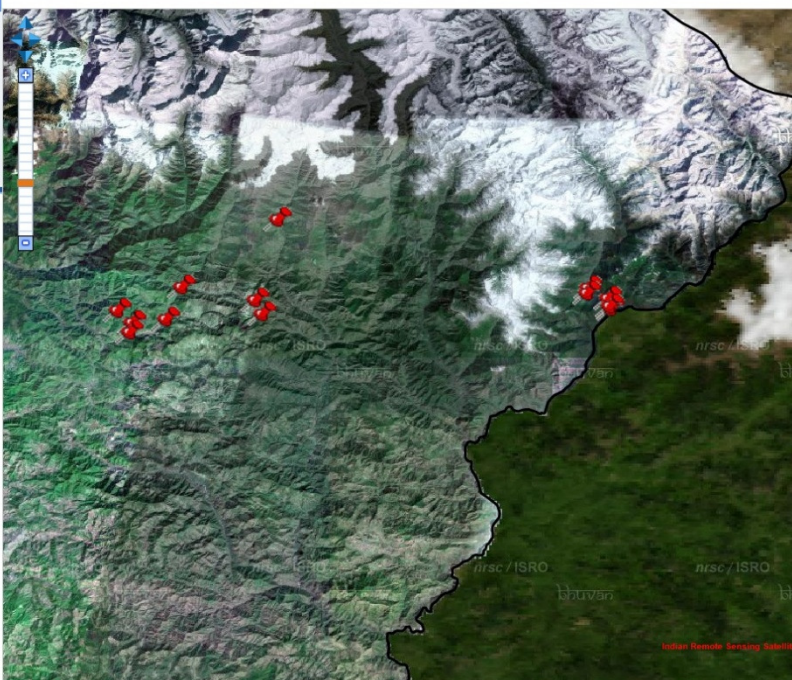
Integrated Field Data Viewer

Welcome manu_nrsc | Logout

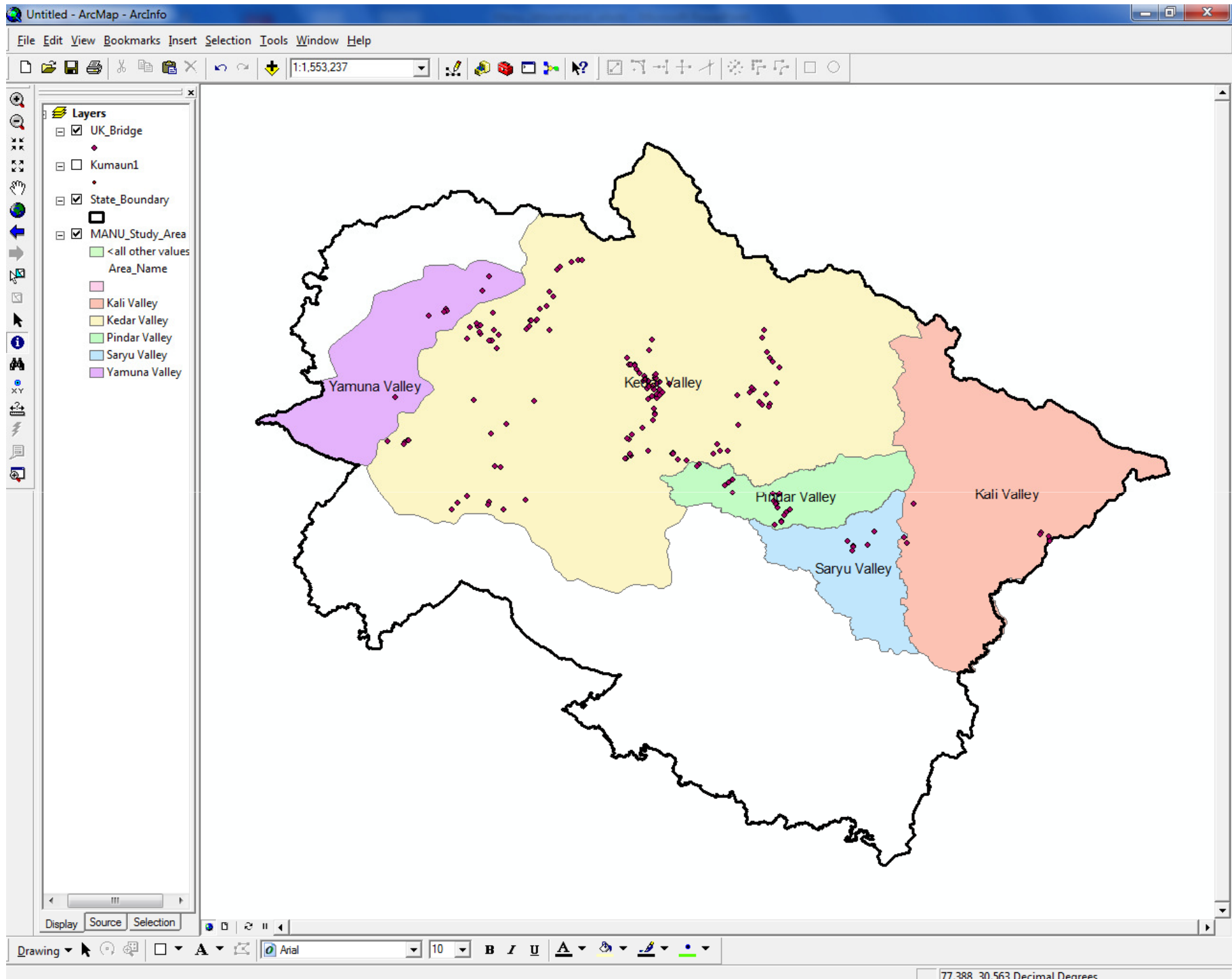
Project Details

Select project: MANU
Select Profile: BridgesORCulverts
Select State: Uttarakhand
Date Mode: ☐ Day ☒ Period
Start Date: [Select Date](#)
End Date: [Select Date](#)
Download Format: ☒ KML ☐ Shape
[Remove](#) [Download](#)

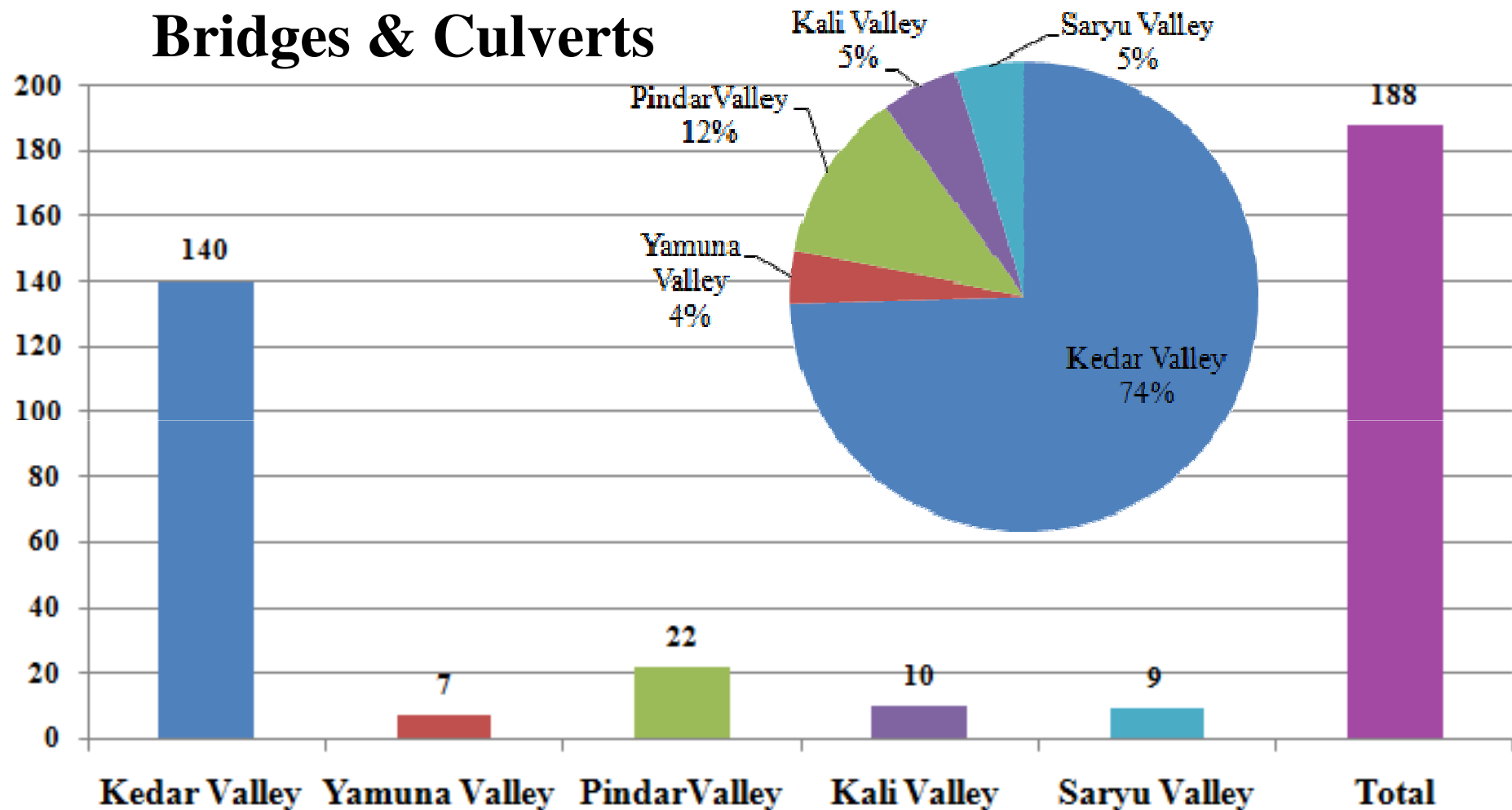
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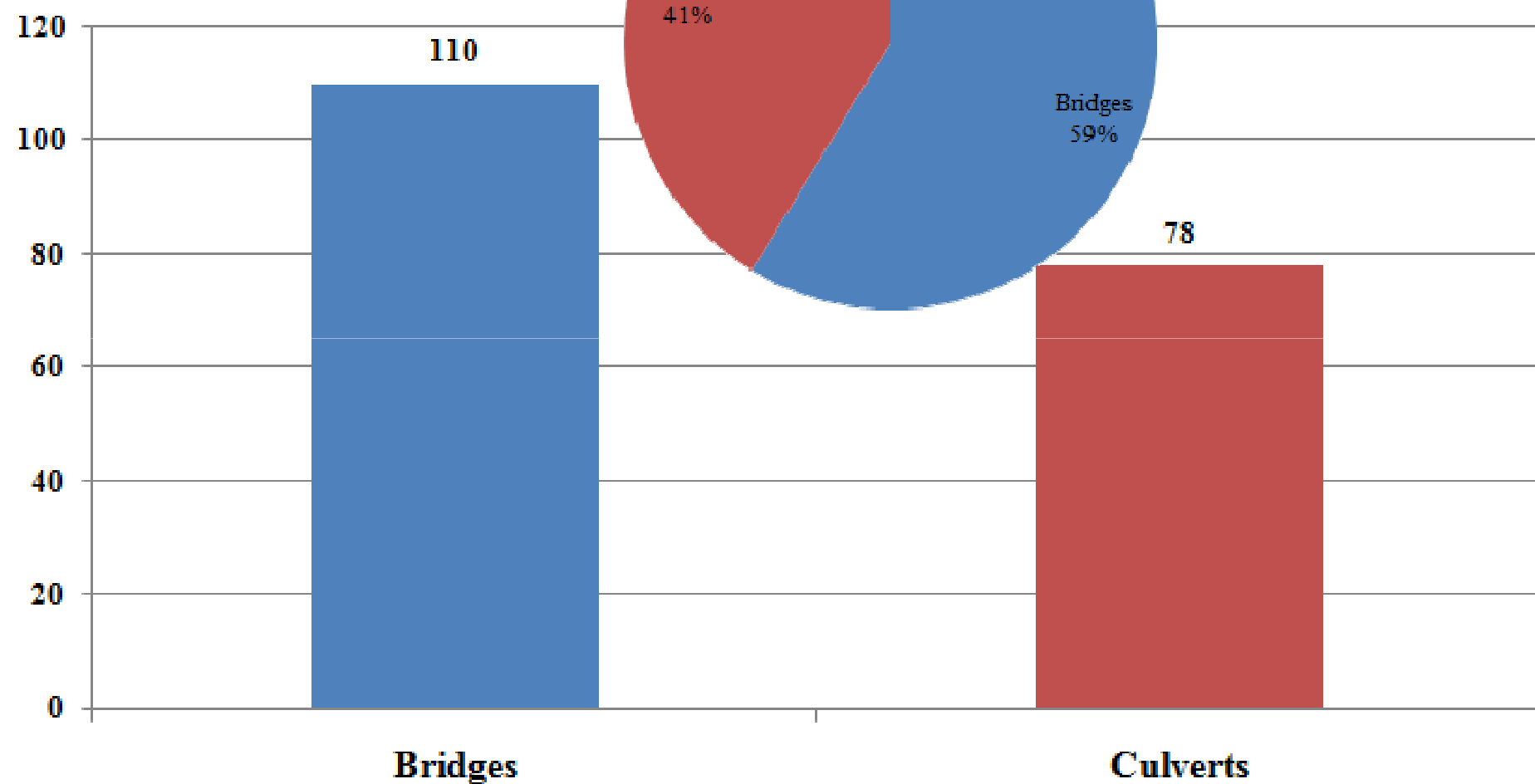
Sl.No	28840
apptype	fdc
appssubtype	fdc
FDProjectname	MANU
themenname	MANU
profilenname	BridgesORCulverts
observernname	Gaurav, Vijay, Indira
org	Kumaun University
mobilenno	9917317499
creationtime	2014-2-10 12:34:52
uuid	5a943520396e9af4
deviceid	KUM- 04 A
Damaged Structure	Bridge
Name of Structure	Tilari Bridge
Name of River or Stream	Tilari Stream
Connected Settlements	Bhashori to Dhaniyari



Bridges & Culverts



**Bridges & Culverts Total Study Area,
Total Points - 188**



Land Cover & Natural Resources: Total Points- 1206 (49)

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Indian Earth Observation Visualisation

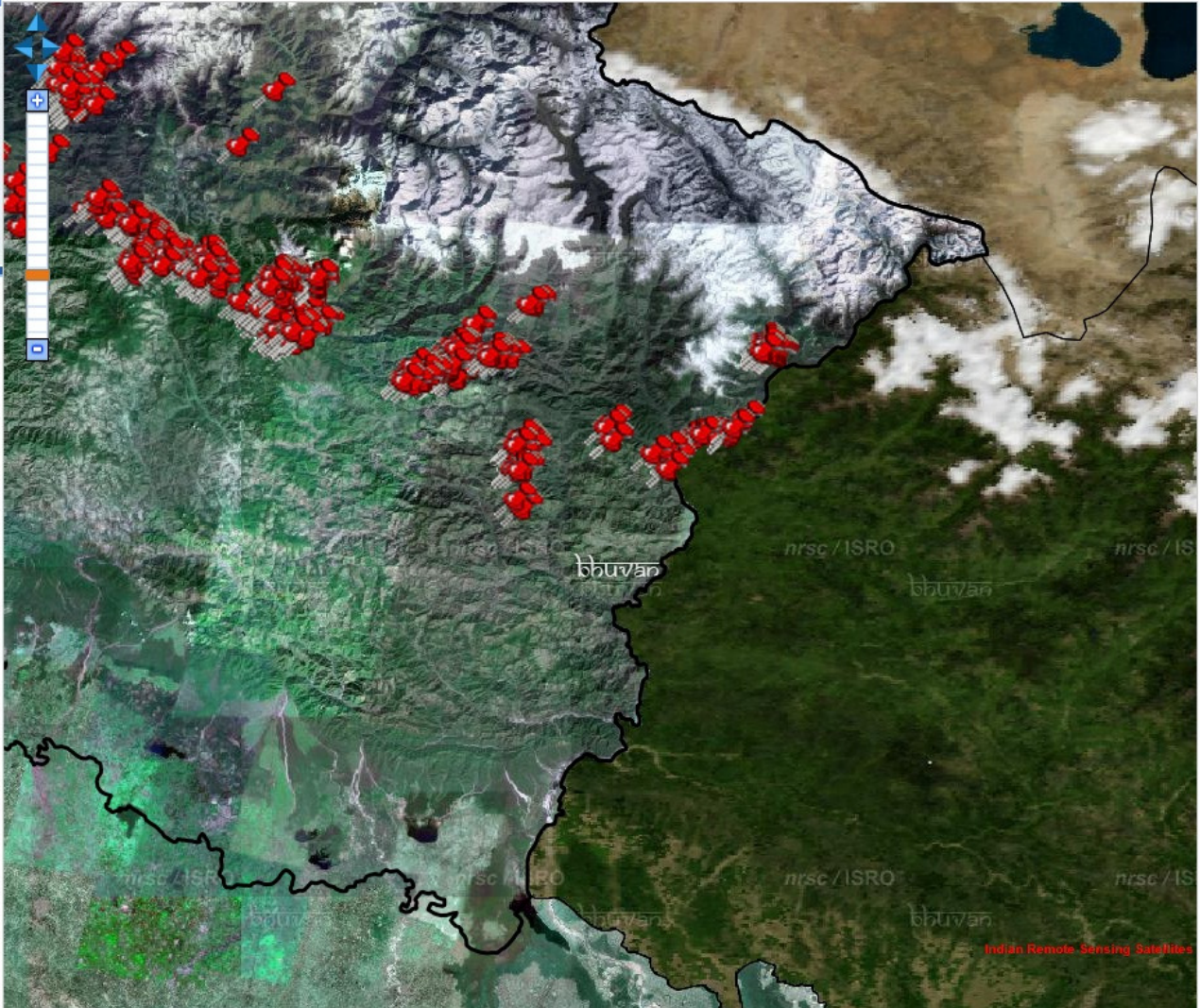
Integrated Field Data Viewer

Welcome manu_nrsc | Logout

Project Details

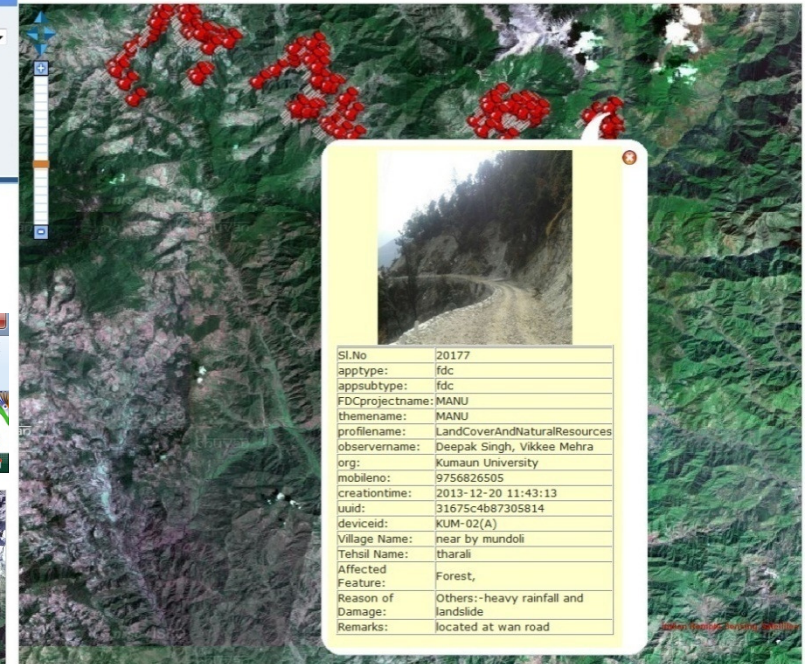
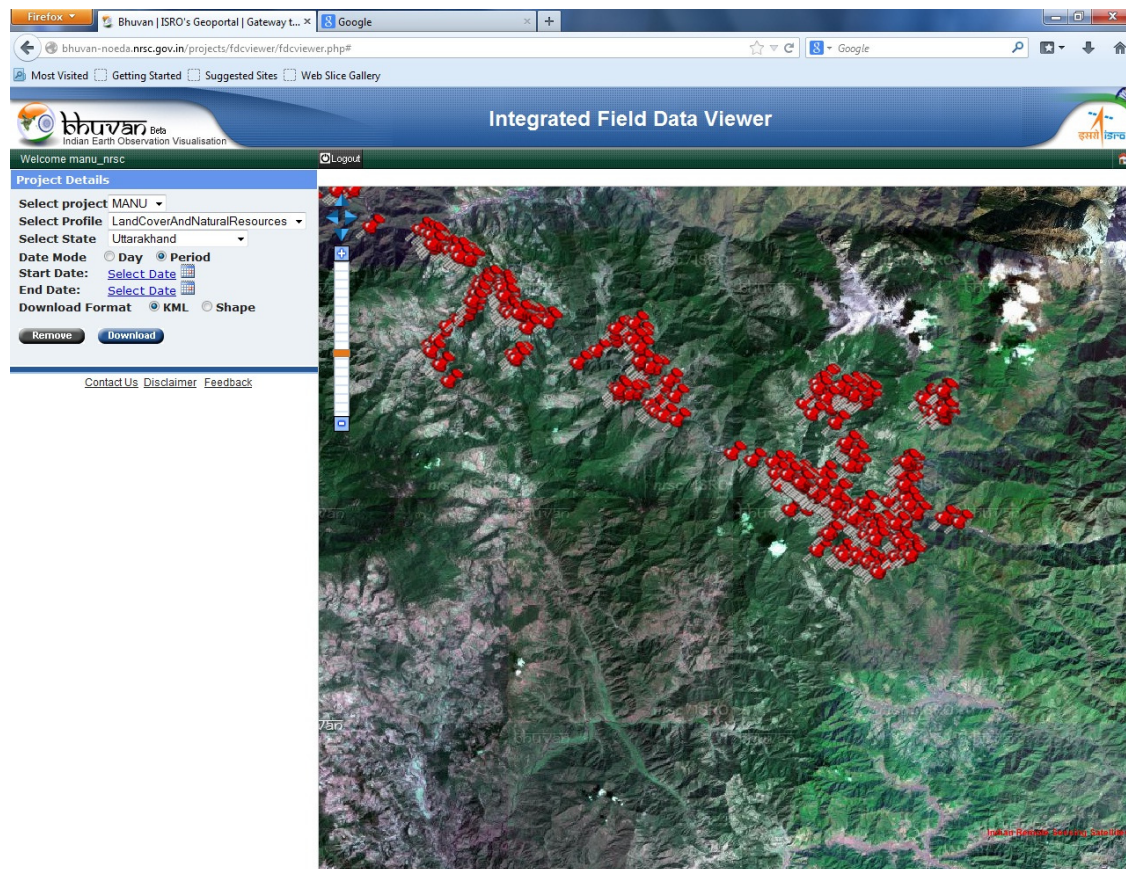
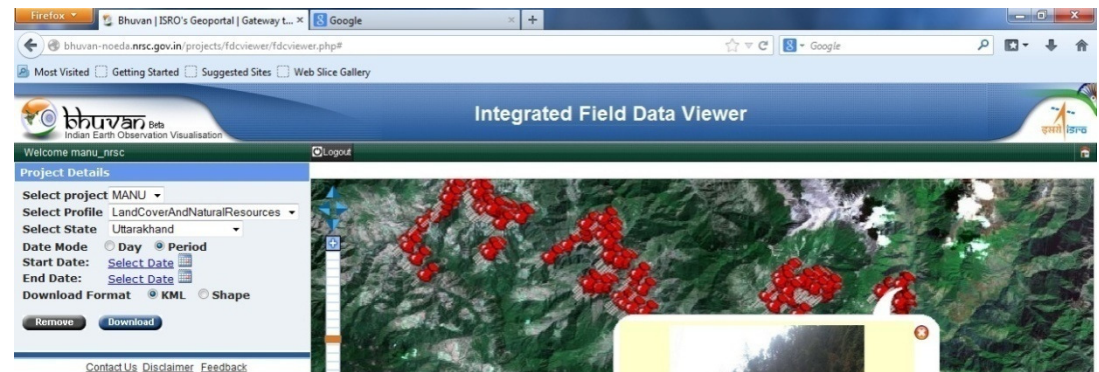
Select project: MANU
Select Profile: LandCoverAndNaturalResources
Select State: Uttarakhand
Date Mode: ☐ Day ☒ Period
Start Date: [Select Date](#)
End Date: [Select Date](#)
Download Format: ☒ KML ☐ Shape
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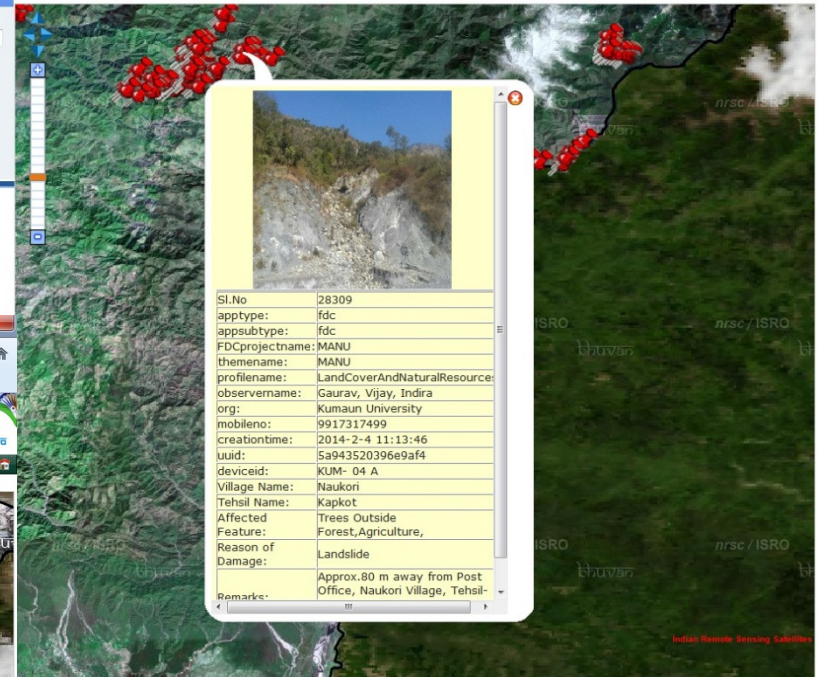
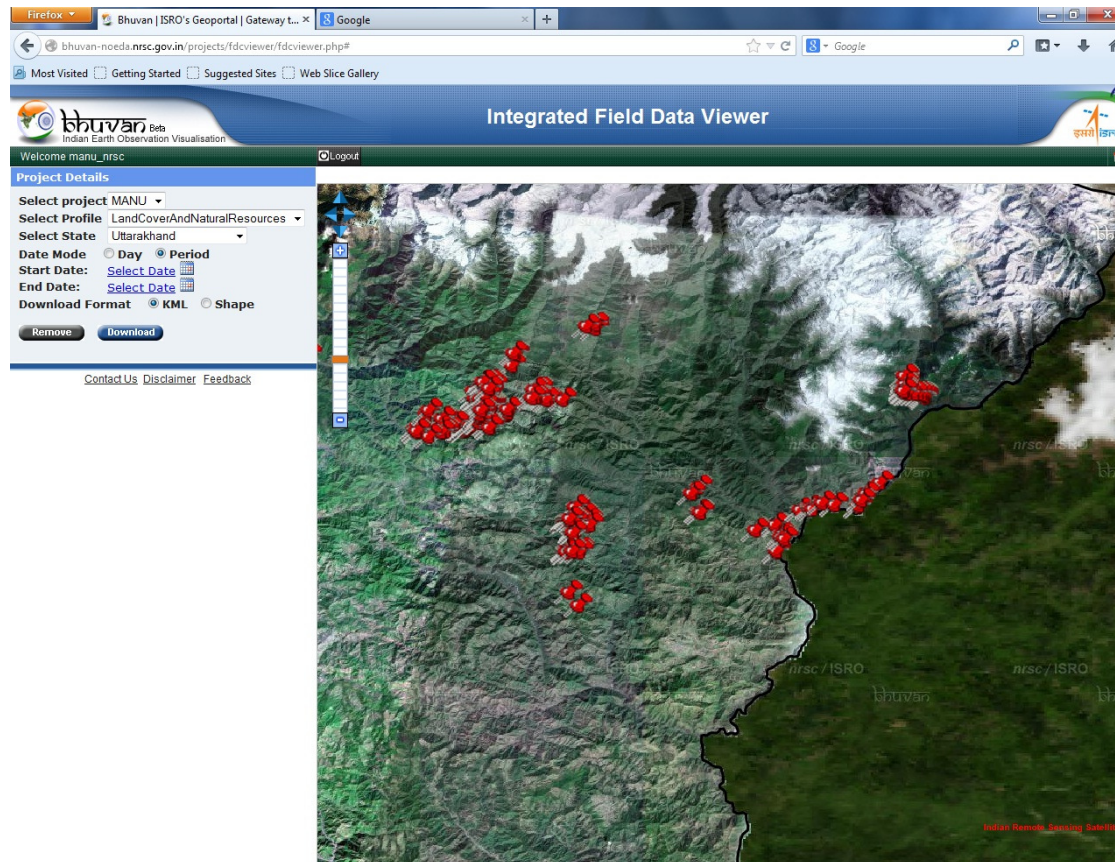
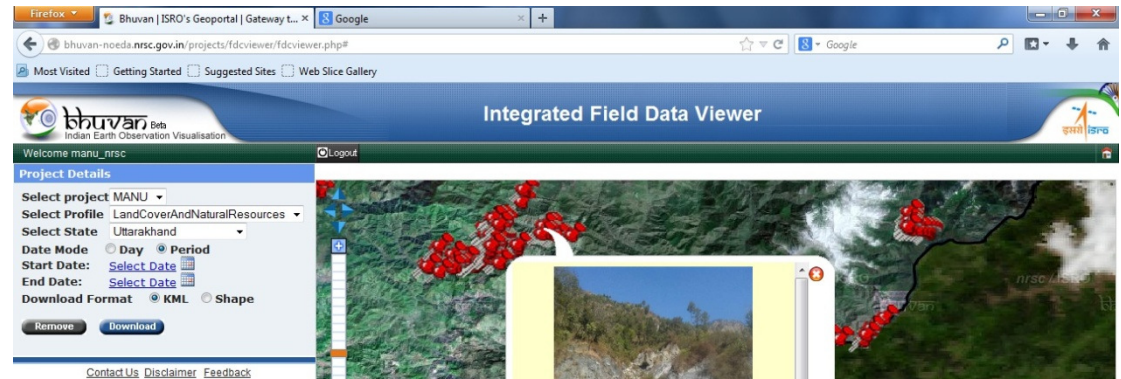


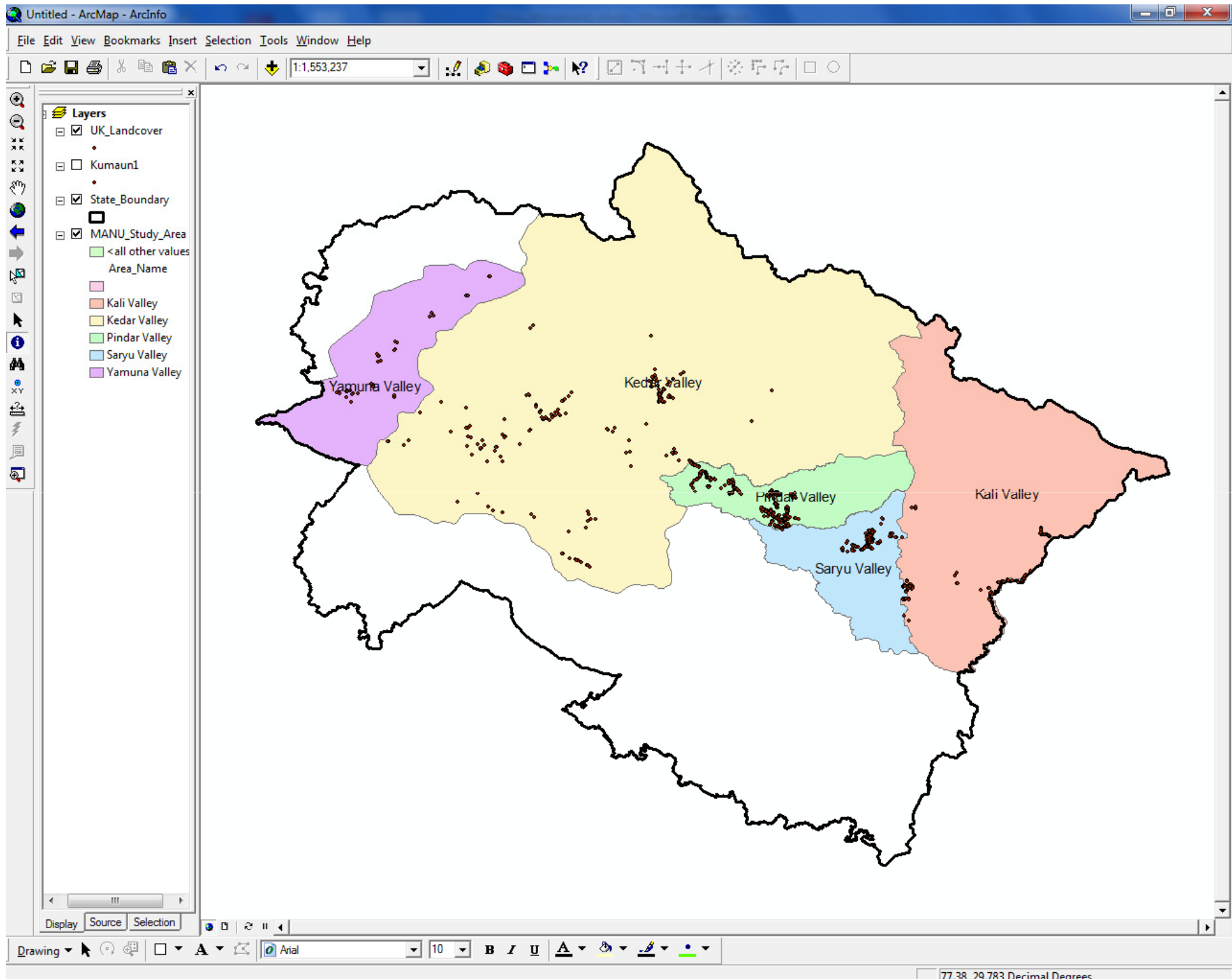
Indian Remote Sensing Satellites

Land Cover & Natural Resources: Pindar Valley, Total Points- 611

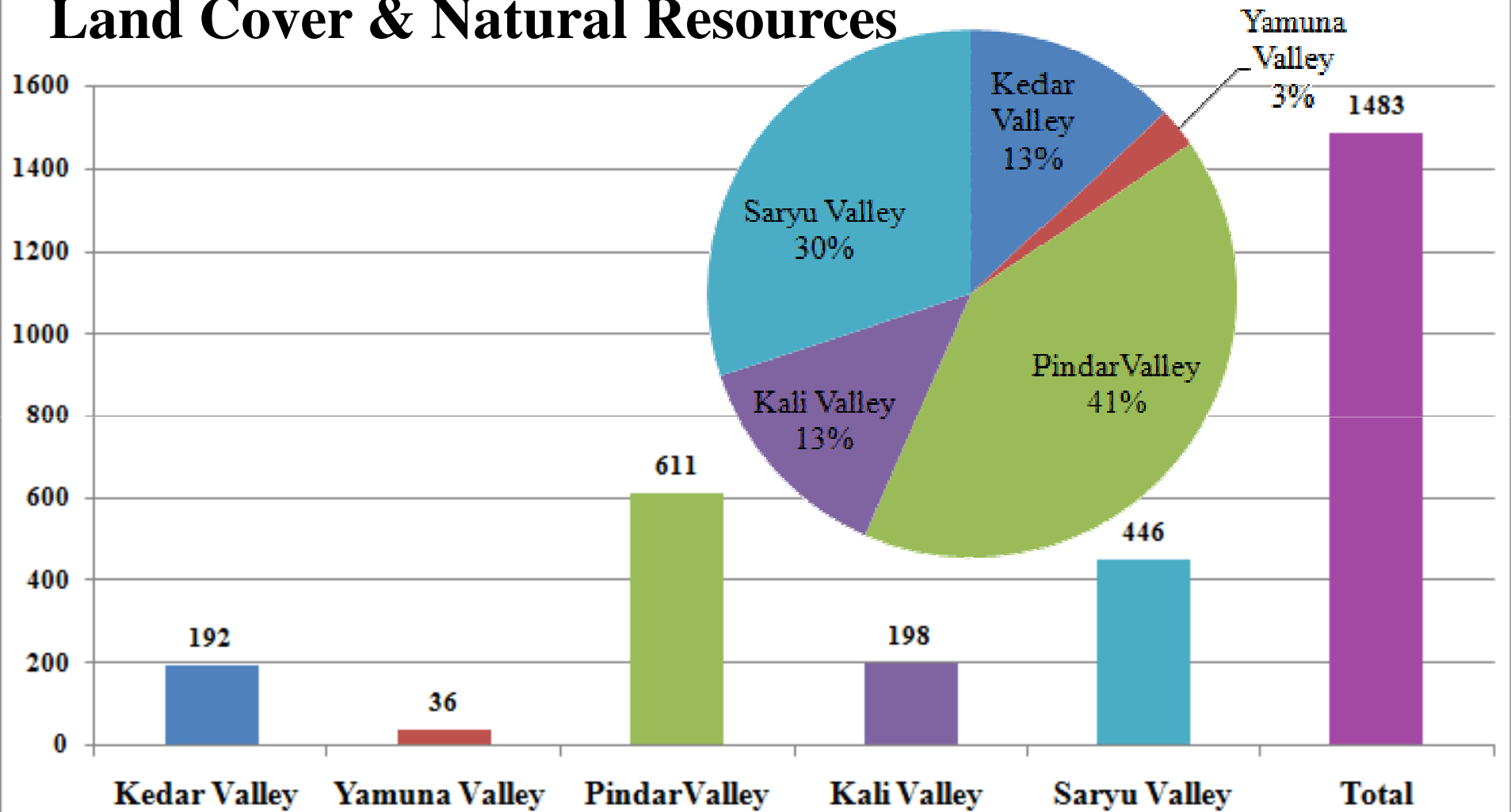


Land Cover & Natural Resources: Kali & Saryu Valley, Total Points- 595 (49)

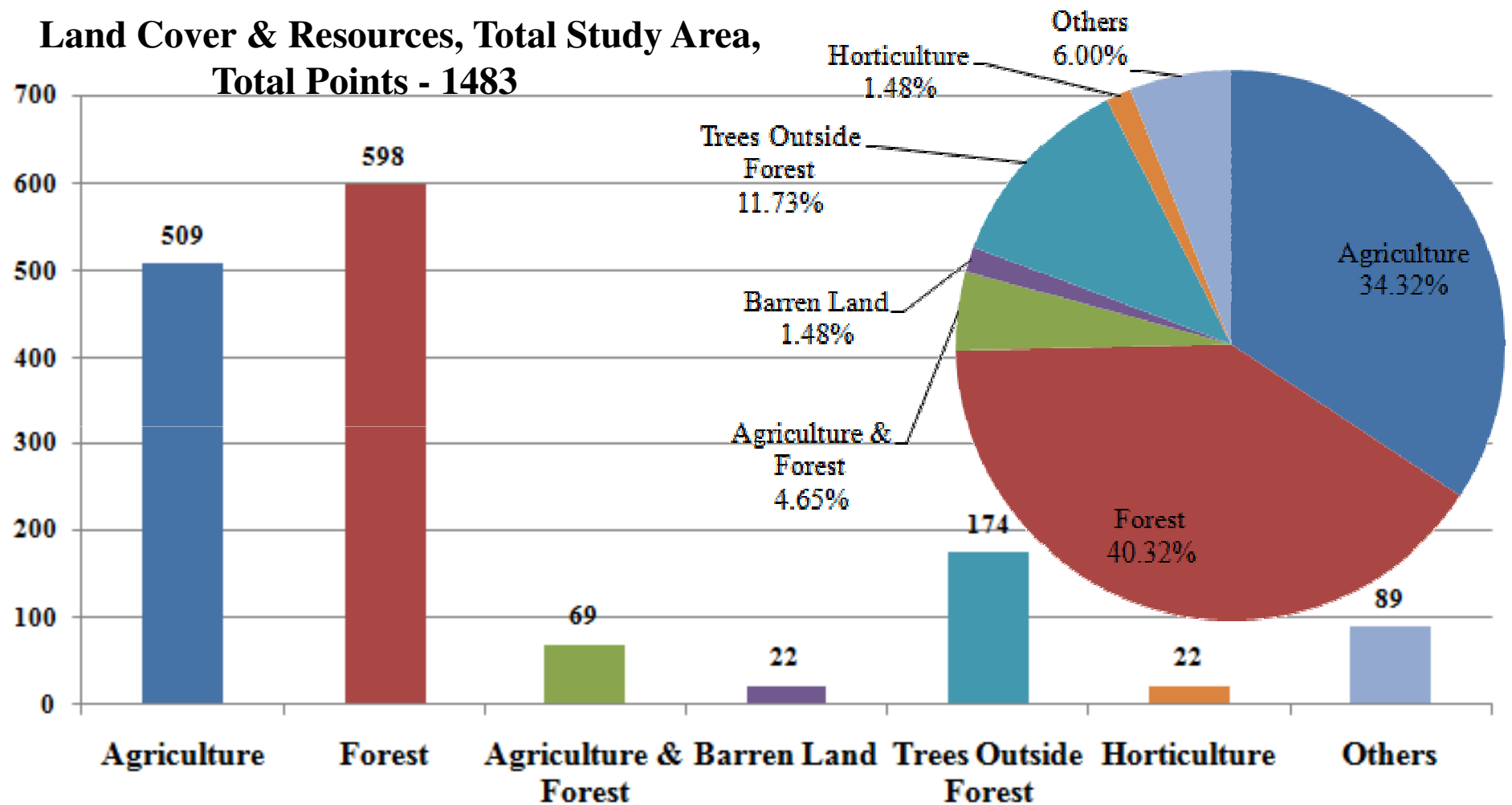




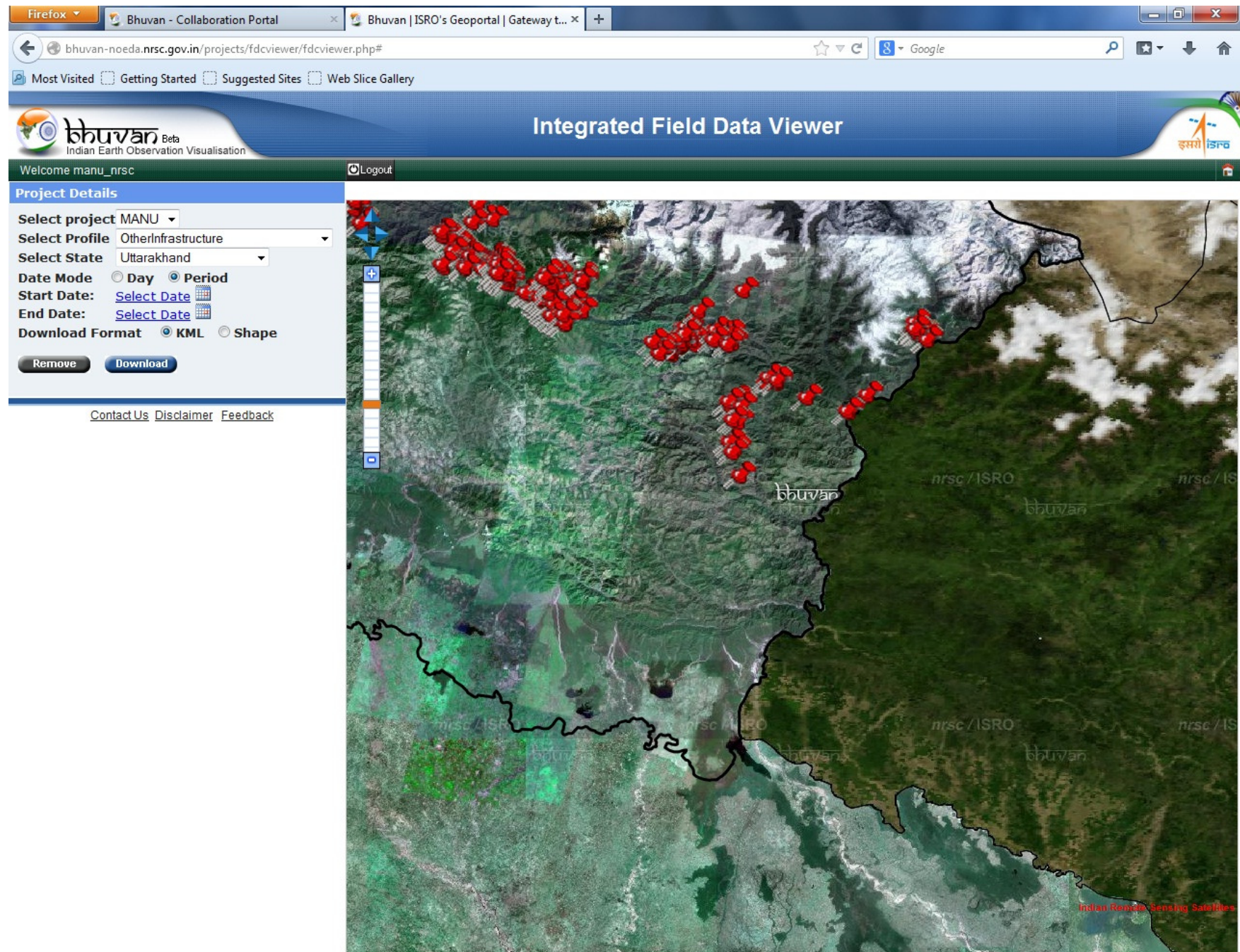
Land Cover & Natural Resources



Land Cover & Resources, Total Study Area, Total Points - 1483



Other Infrastructure: Total Points- 416 (21)



Other Infrastructure: Pindar Valley, Total Points- 287

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Integrated Field Data Viewer

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Project Details

Select project MANU

Select Profile OtherInfrastructure

Select State Uttarakhand

Date Mode ☐ Day ☒ Period

Start Date: [Select Date](#)

End Date: [Select Date](#)

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The map displays a satellite view of a mountainous region with numerous red points indicating infrastructure locations. A small inset image shows a close-up of a water tank structure.

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Project Details

Select project MANU

Select Profile OtherInfrastructure

Select State Uttarakhand

Date Mode ☐ Day ☒ Period

Start Date: [Select Date](#)

End Date: [Select Date](#)

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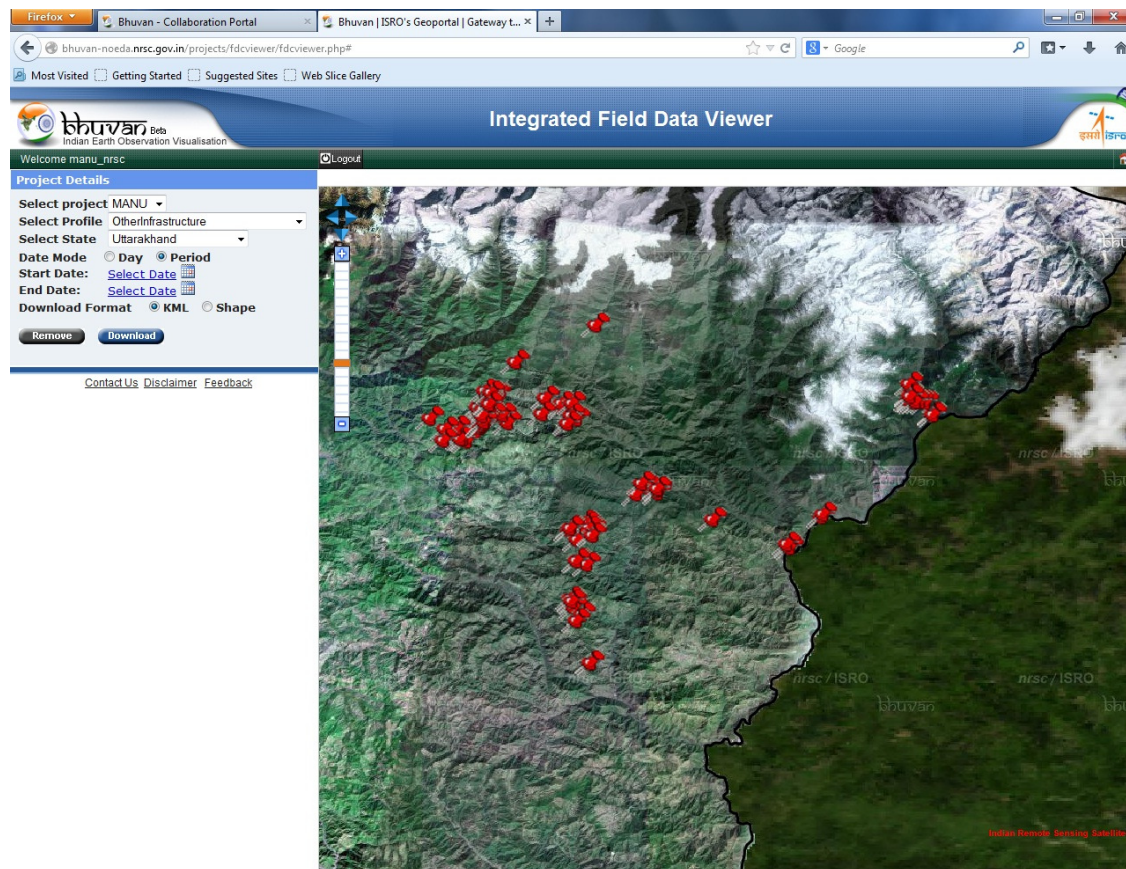
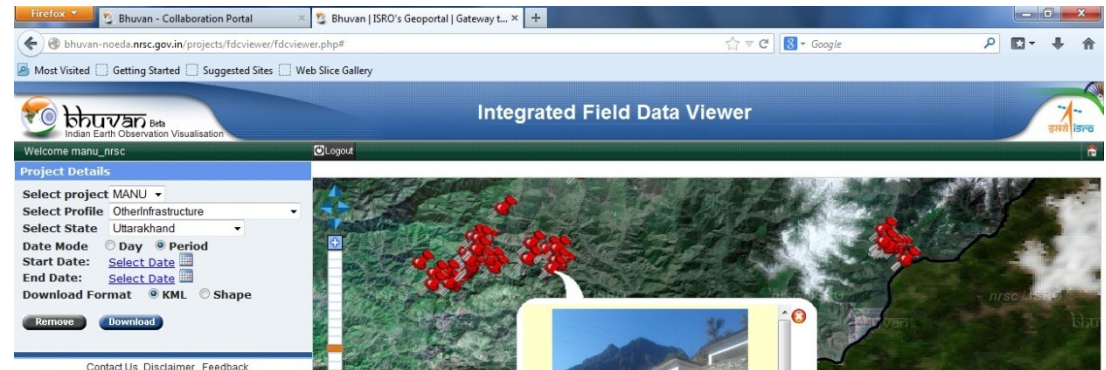
[Remove](#) [Download](#)

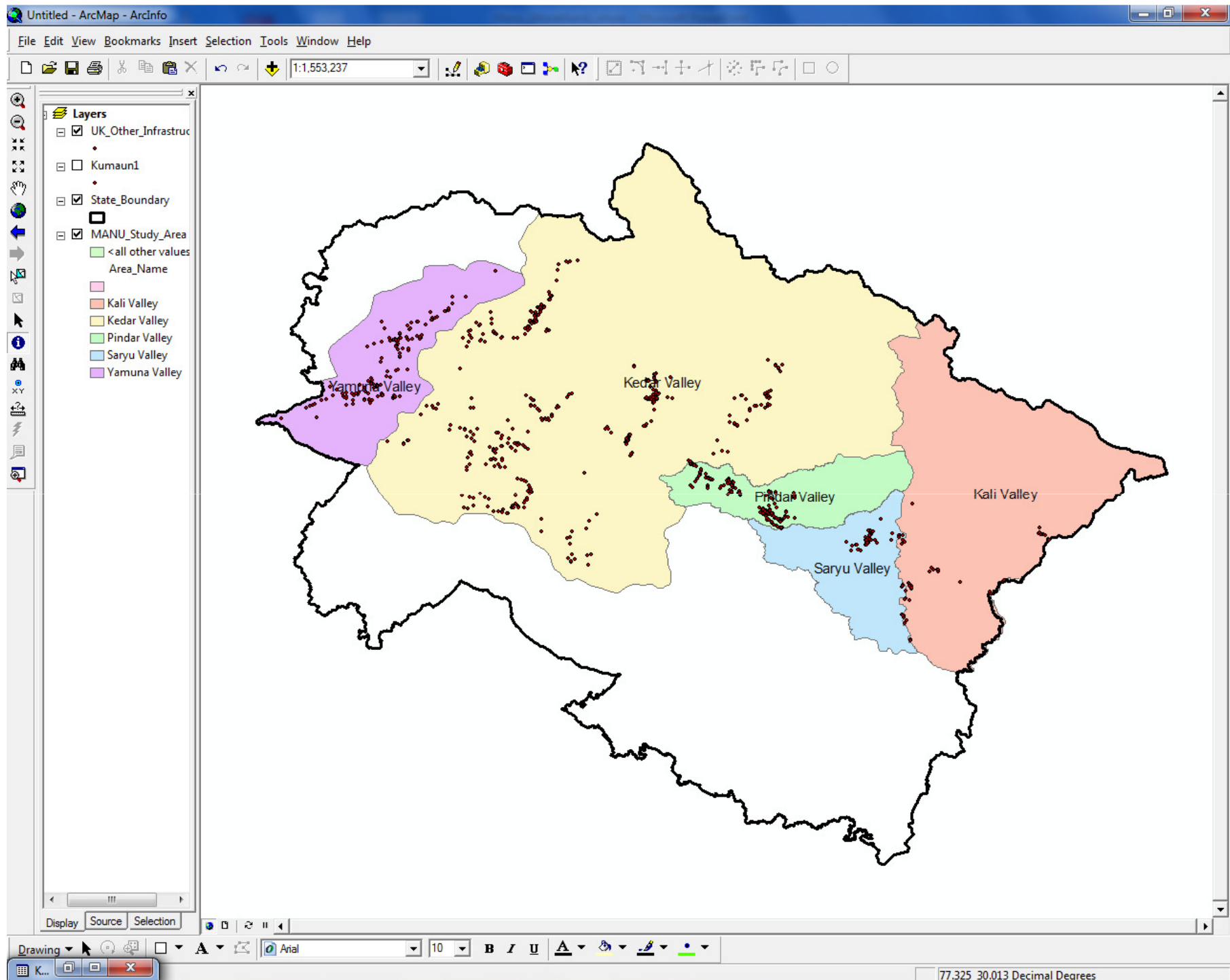
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The map displays a satellite view of a mountainous region with numerous red points indicating infrastructure locations. A detailed data table is shown on the right side of the interface.

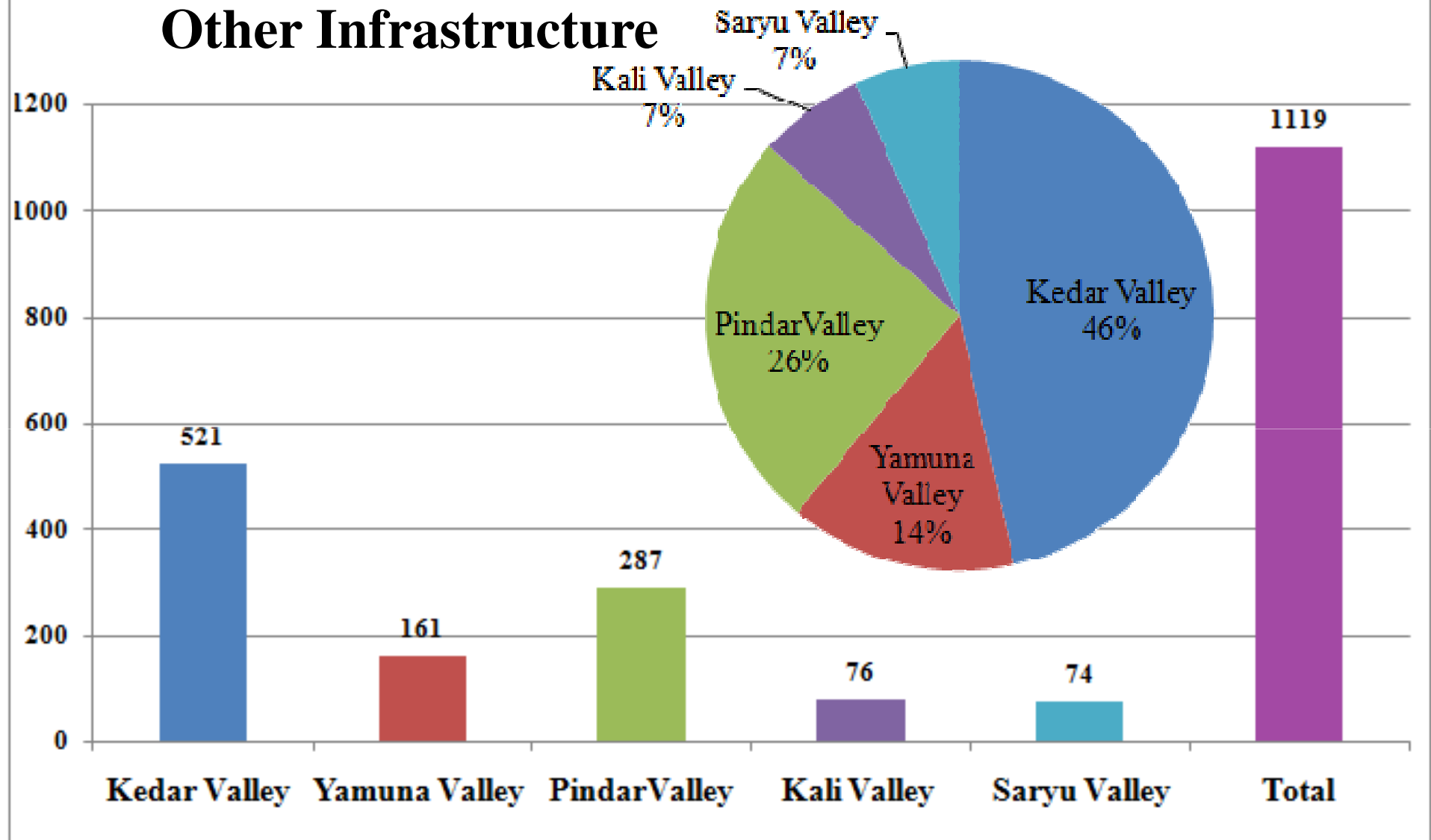
1 2	
Sl.No	21574
apptype:	fdc
apps subtype:	fdc
FD Cprojectname:	MANU
thename:	MANU
profilename:	OtherInfrastructure
observname:	Gaurav, Vijay, Indira
org:	Kumaun University
mobileno:	9917317499
creationtime:	2013-12-28 12:40:10
uuid:	5a943520396e9af4
deviceid:	KUM- 04 A
Longitude (GAGAN):	79.528752 E
Latitude (GAGAN):	30.119301 N
Type of Infrastructure:	Water Tank
Village Name:	Ghungti

Other Infrastructure: Kali & Saryu Valley, Total Points- 129 (21)

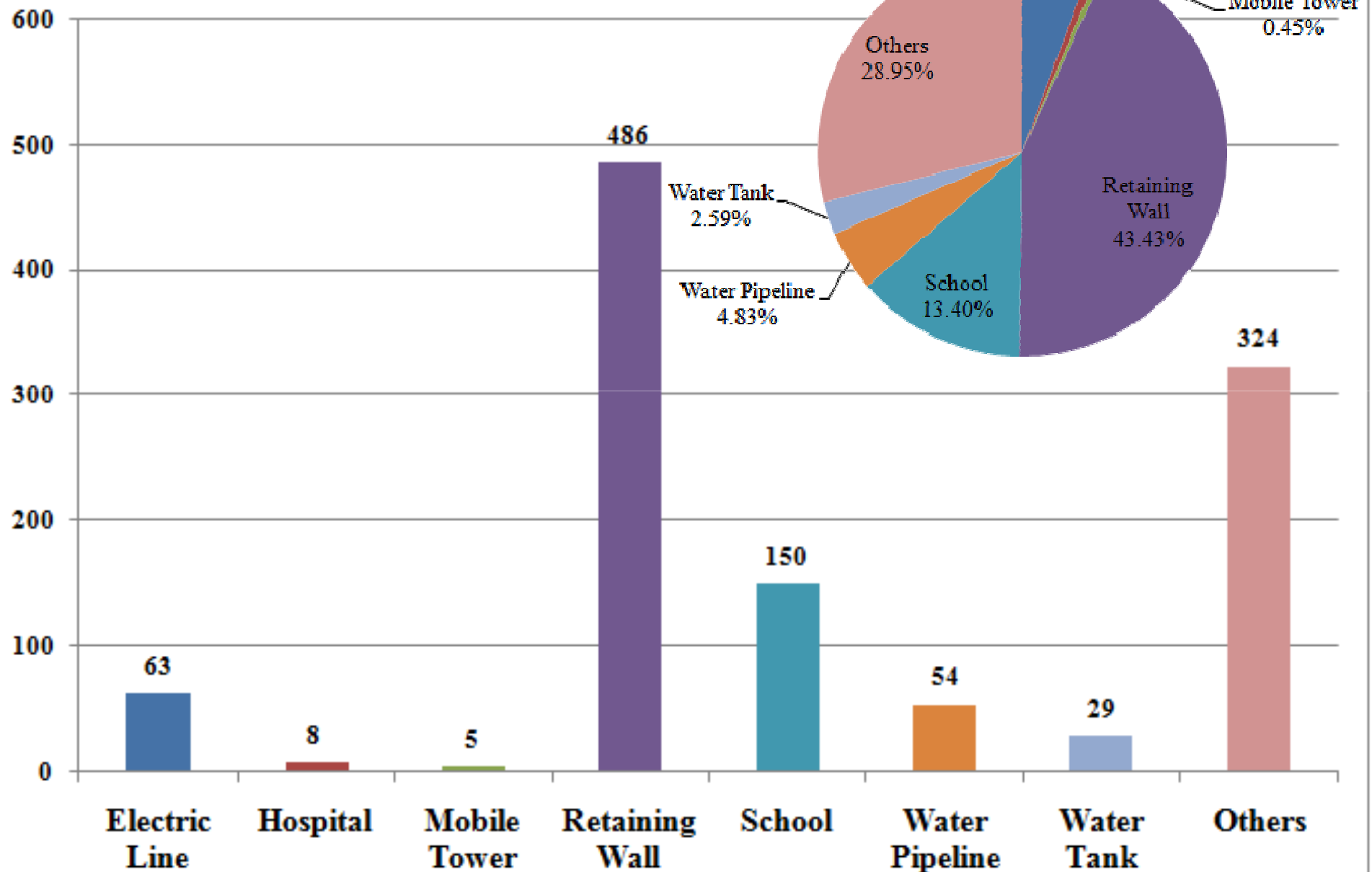




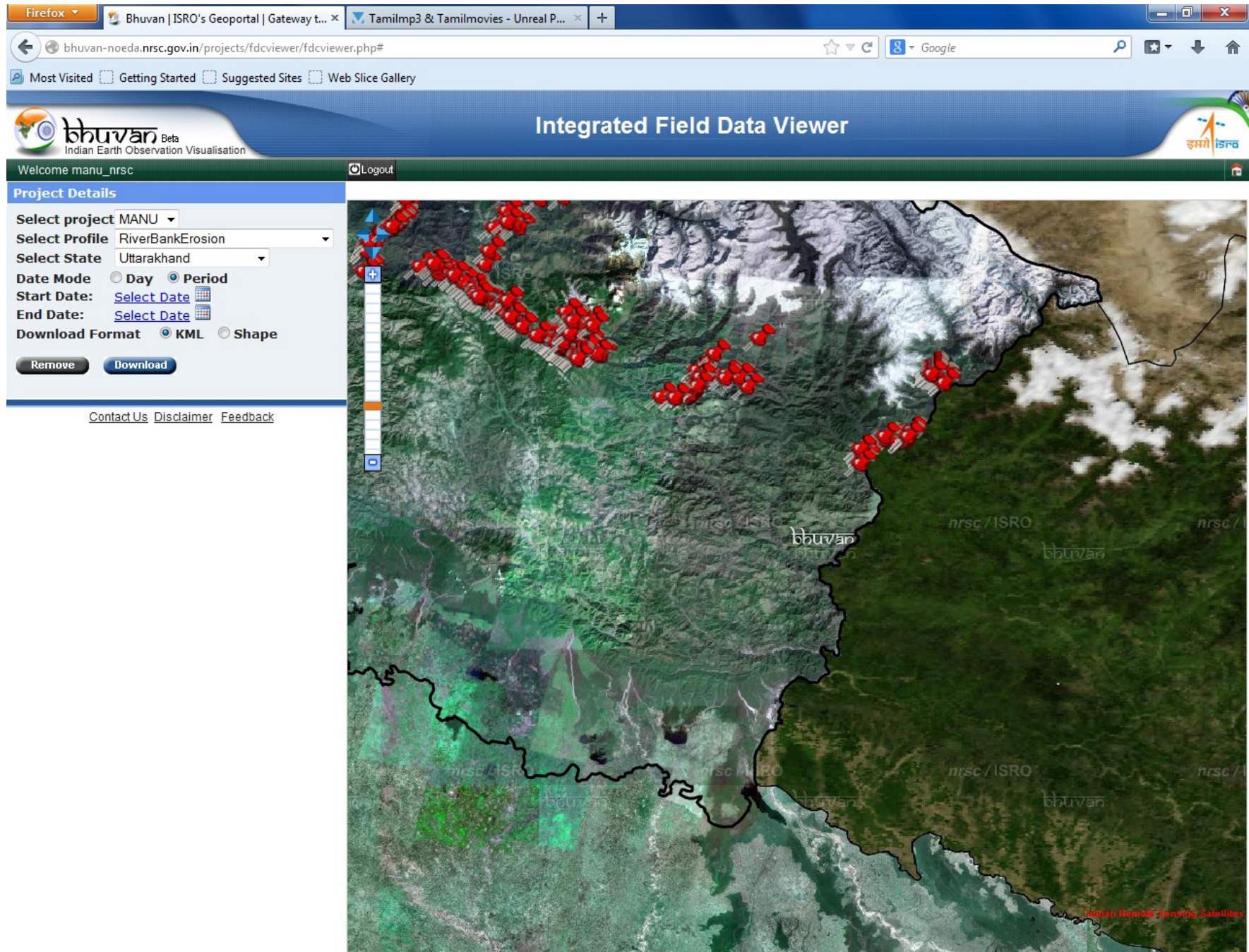
Other Infrastructure



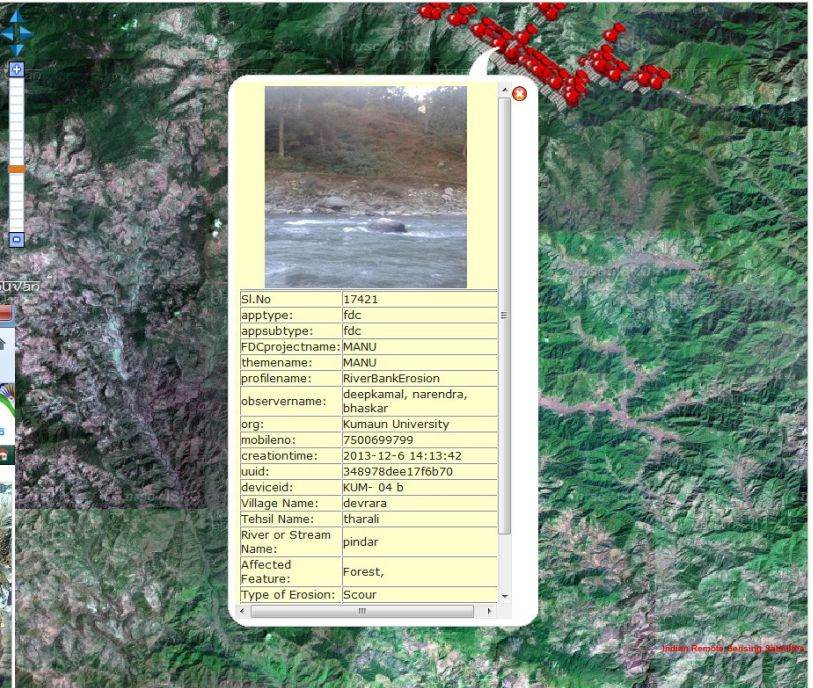
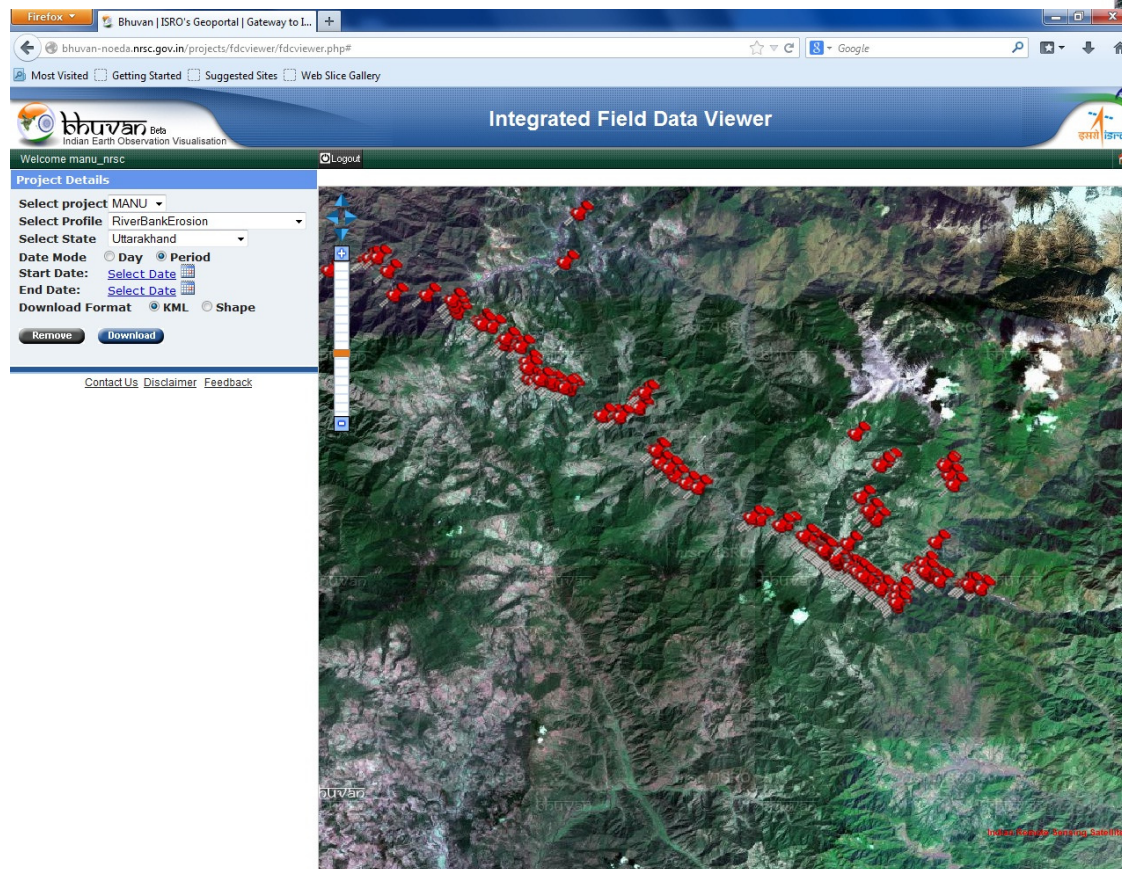
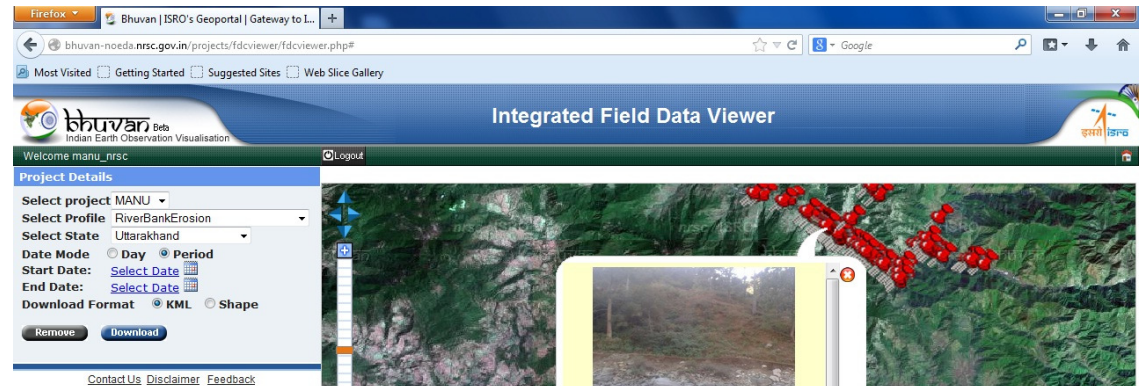
**Other Infrastructure Total Study Area,
Total Points - 1119**



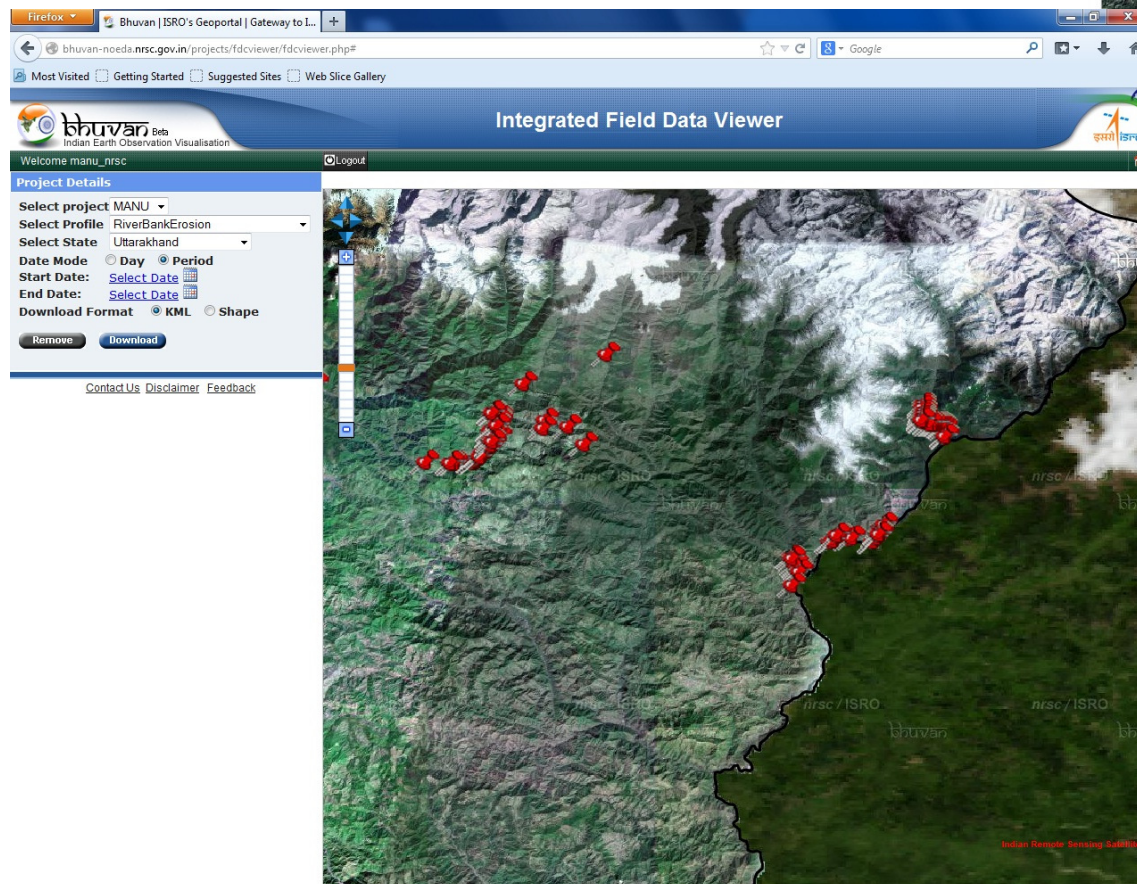
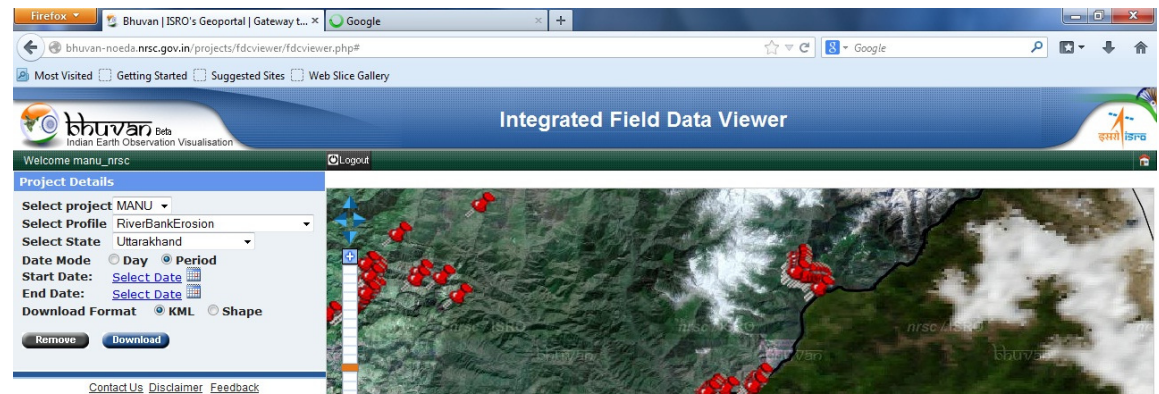
River Bank Erosion: Total Points- 524 (28)



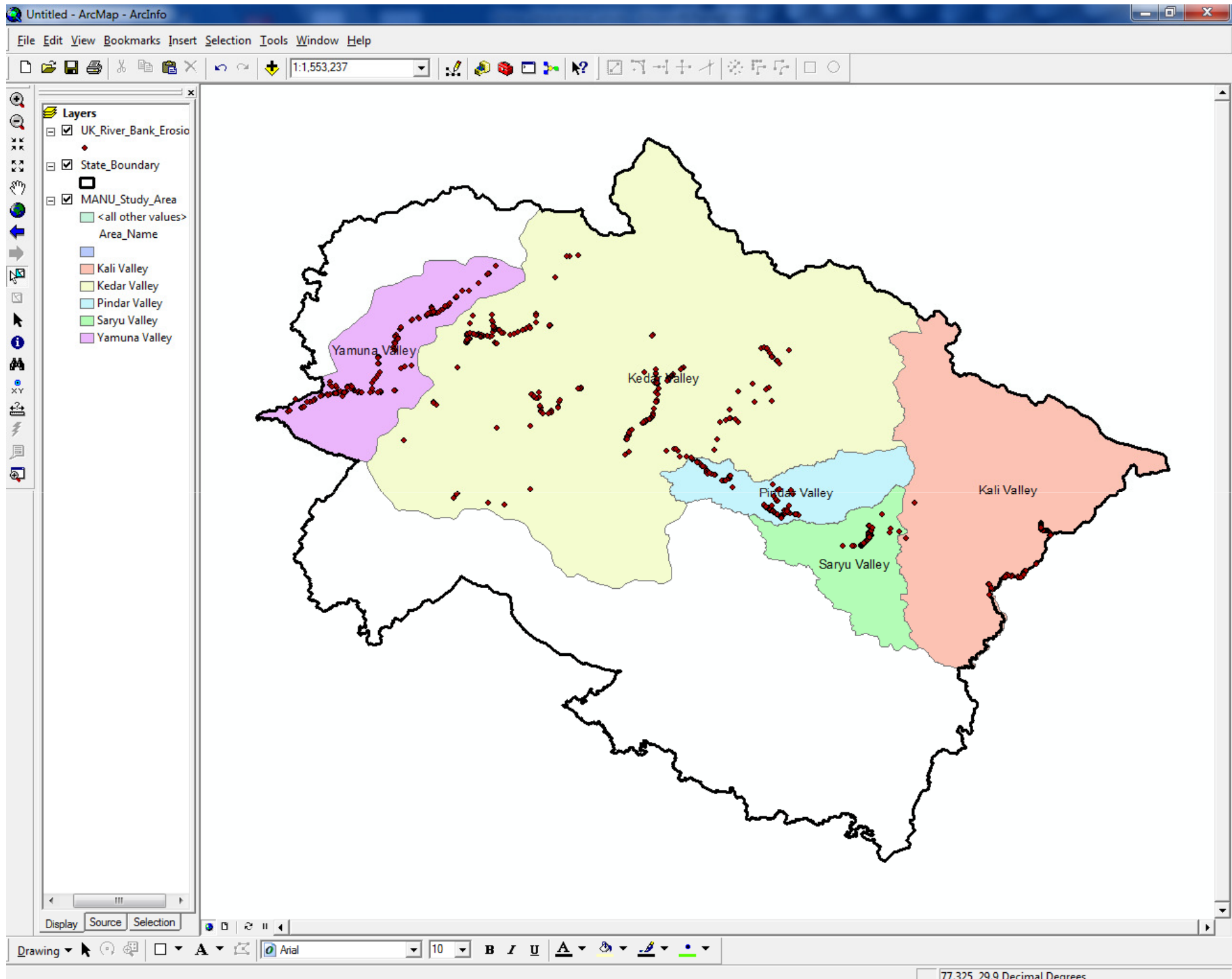
River Bank Erosion: Pindar Valley, Total Points- 211



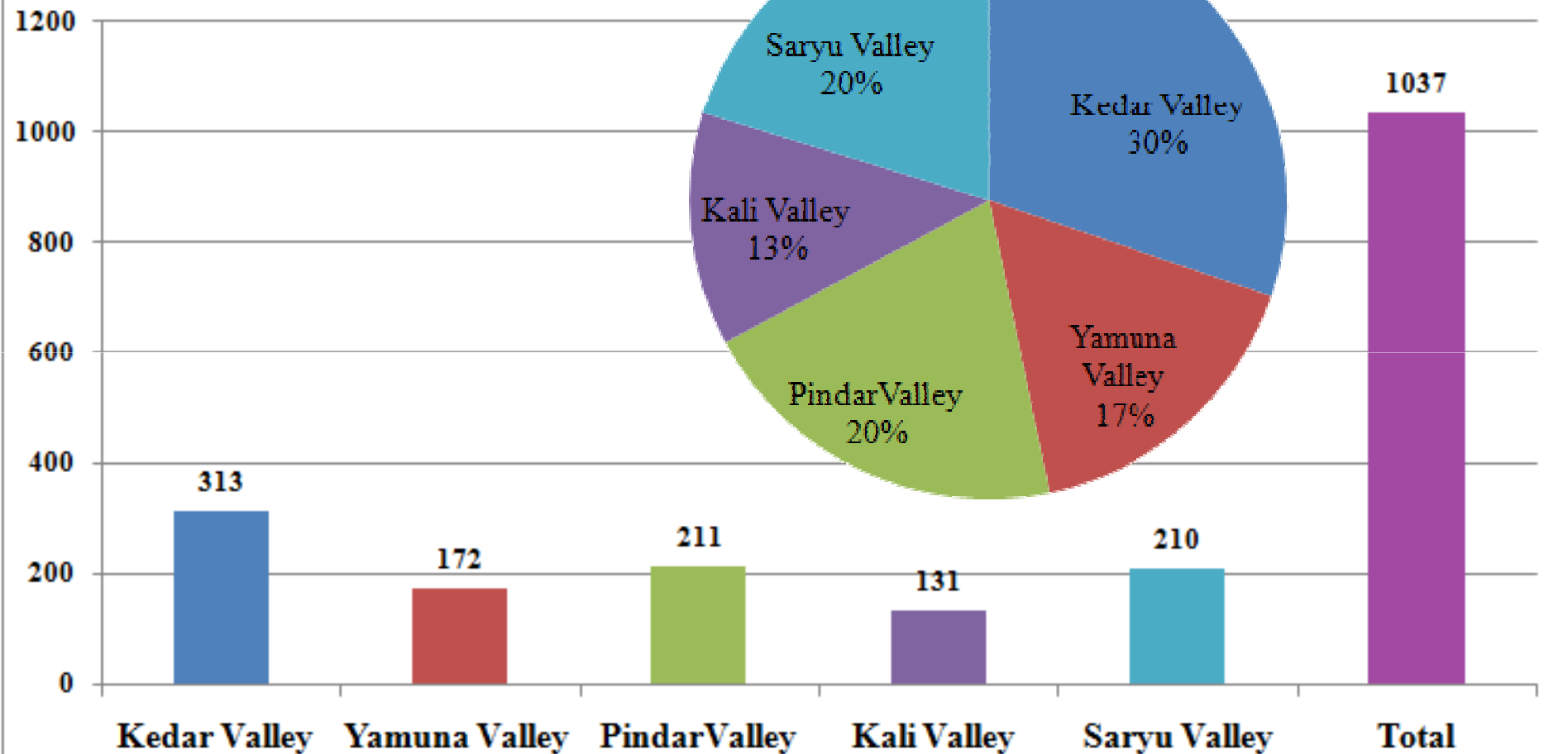
River Bank Erosion: Kali & Saryu Valley, Total Points- 313 (28)



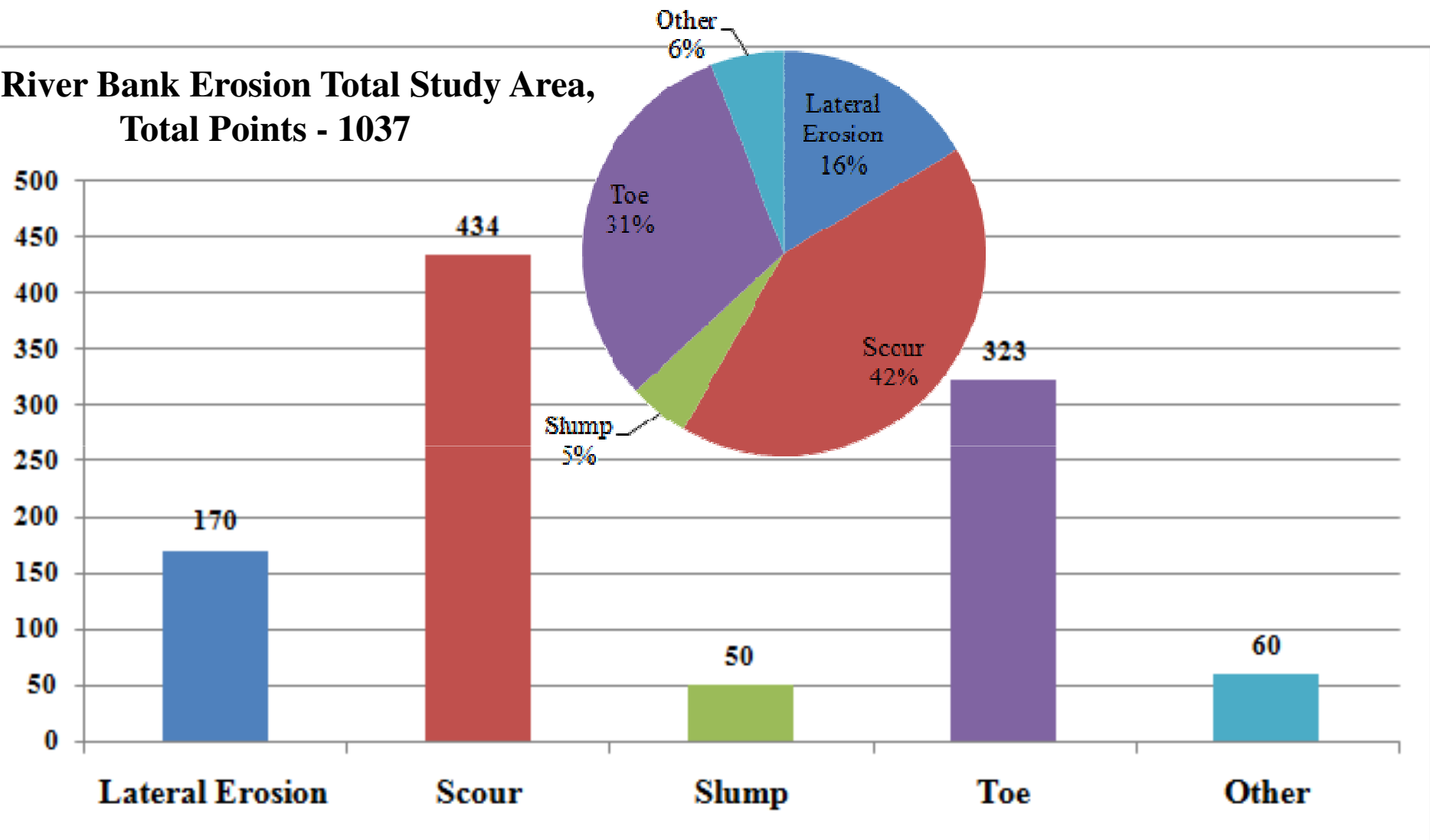
Sl.No	27130
apptype:	fdc
appsubtype:	fdc
FDCProjectname:	MANU
themenname:	MANU
profilenname:	RiverBankErosion
observernname:	sandeep, prayag,himanshu
org:	Kumaun University
mobilenno:	9627823265
creationtime:	2014-1-27 12:18:33
uuid:	b51be863662cf8d
deviceid:	KUM-05A
Village Name:	taatpani
Tehsil Name:	dharchula



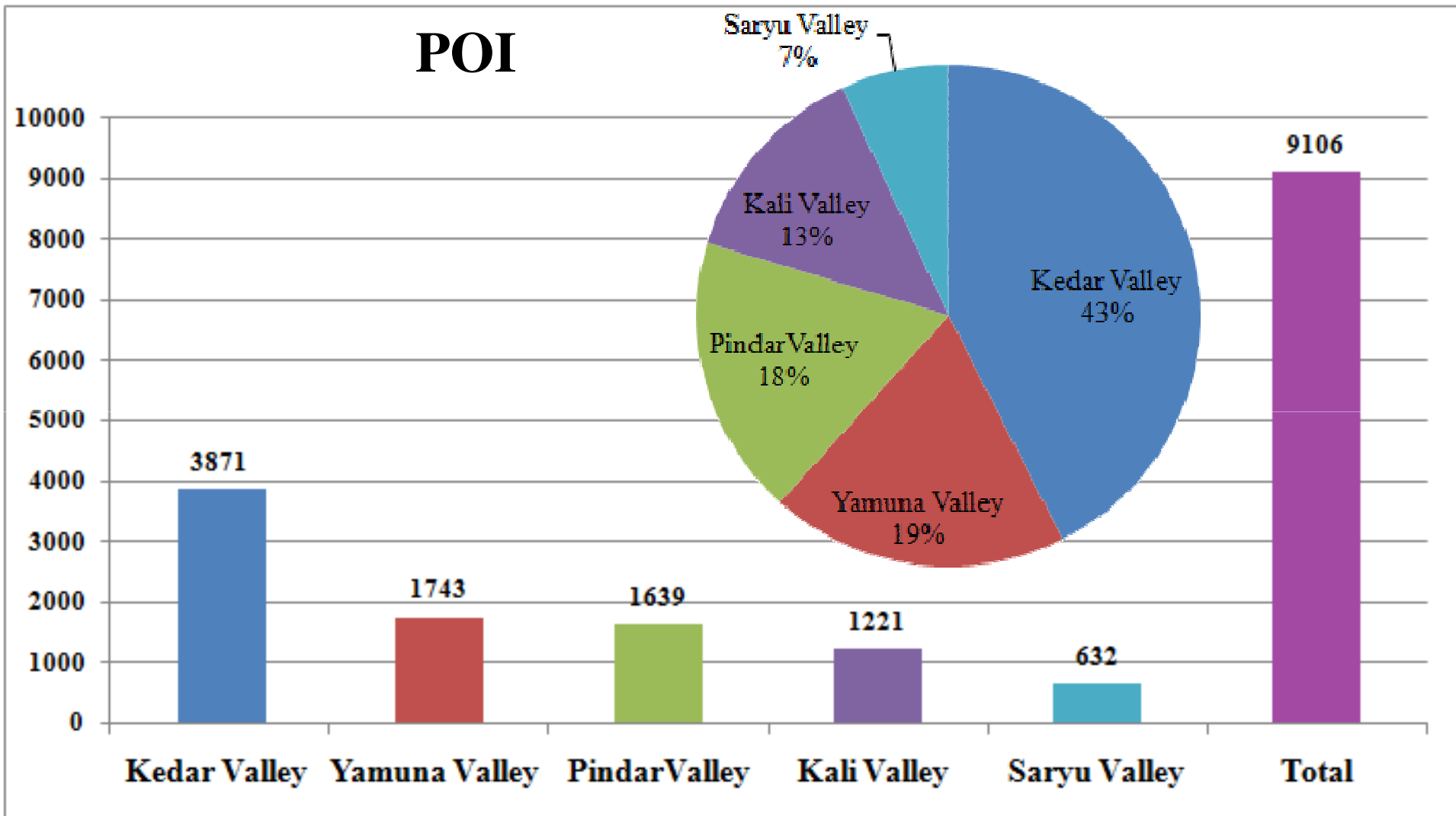
River Bank Erosion



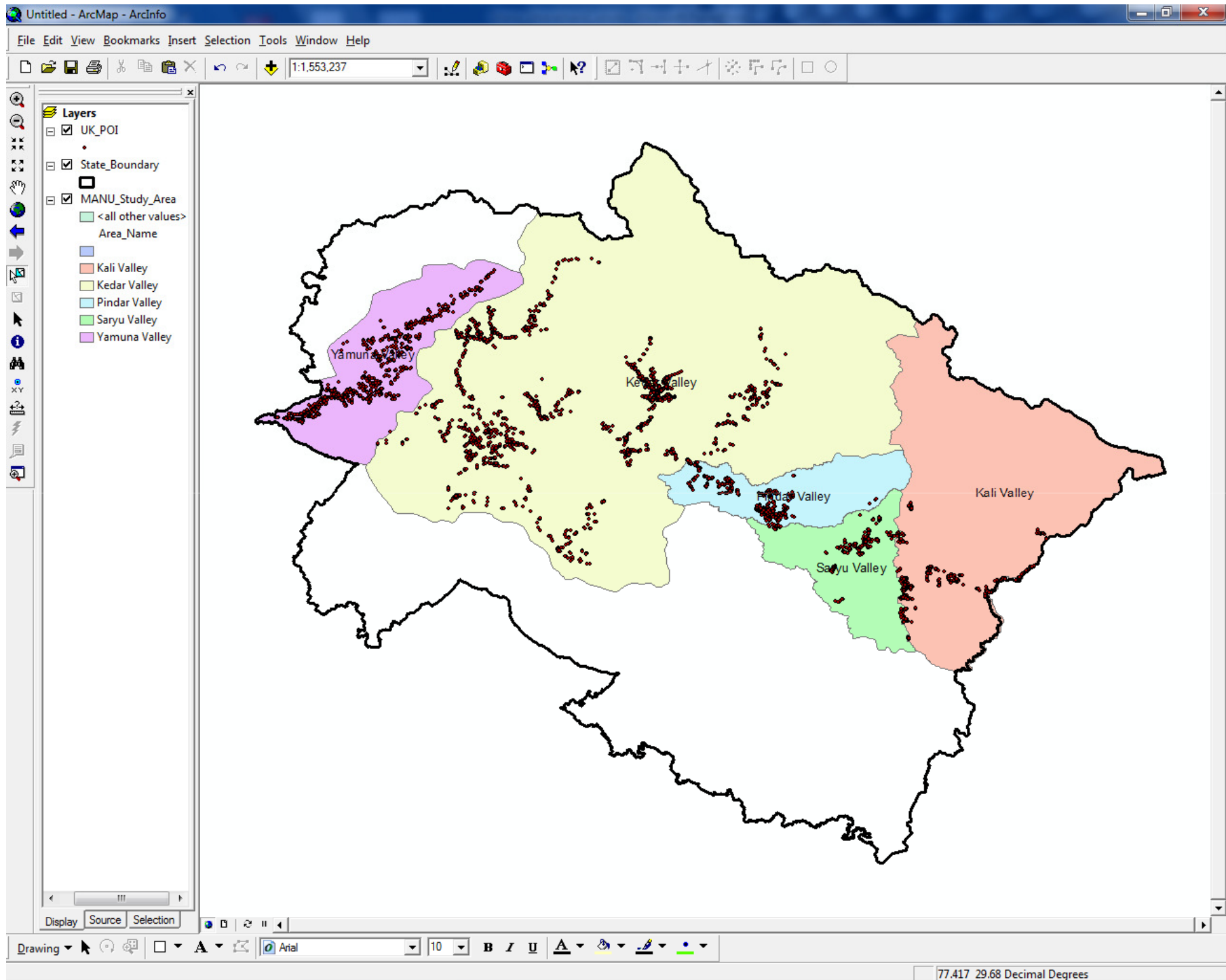
**River Bank Erosion Total Study Area,
Total Points - 1037**



POI



Open POI Point



POI Total Study Area, Total Points = 9106

