ANNEX 2
DATA DICTIONARY OF KATHMANDU VALLEY GIS DATABASE

ThemeName	Description	Type	UniqueItem	Source	Scale
CONTOUR	Index contours at 20 m interval	Shape: Arc	Kvco16-id	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

Item	Description
KVCO16_ID	Elevation in metre (20 m interval)

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
LANDUSE95	Land use and land cover, 1995	Shape: Poly	Landuse_id	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets

2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

Landuse_ID	Class
2	Built-up
3	Forest
5	Agriculture
7	Open Field
12	HMG Secretariat
15	Royal Palace
20	Water Body
25	Institutional Area
30	Airport
106	Brick Factory
120	Industrial Area
121	Shrub Land
129	Soil Cliff

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
LCAP	Land capability, 1978	Shape: Poly	Gen_code	LRMP	1:50K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1978/79	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
72E5, 72E9, 72E2, 72E6, 72E3, 72E7

Lookup Table/Description of Items

Gen_Code	Gen_Class	Description
1	Class I	Slope: nearly level (< 1 degree)
2	Class II	Slope: gentle (1-5 degree); soils; deep and well drained
3	Class III	Slope: moderate to steep (5-30 degree); soils: 50-100 cm deep and well drained
4	Class IV	Slope: too steep for terracing (>30 degree); soils: >20 cm deep and well to imperfectly drained
6	Class VI	Slope: very steep (40-50 degree) or varied slope (<40 deg); soils: varried depth and drainage or <20 cm deep
8	Class VIII	Riverbeds

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
Land Use 78	Land use and land cover of 1978/79	Shape: Poly	Class	LRMP	1:50K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1978/79	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
72E5, 72E9, 72E2, 72E6, 72E3, 72E7

Lookup Table/Description of Items

Code	Class	Gen_Code	Gen_Class
1	Forest	1	Forest
2	Shrub	2	Shrub
3	Pasture	3	Paster
4	River	4	Water Body
5	Urban	5	Urban
6	Tars, Alluvial, Fans	6	Agriculture
7	Hill Slope Level	6	Agriculture
8	Valley floors	6	Agriculture

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
LSYS	Land systems, 1978	Shape: Poly	Lsys2-id	LRMP	1:50K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1978/79	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
72E5, 72E9, 72E2, 72E6, 72E3, 72E7

Lookup Table/Description of Items

LSYS2_ID	Texture	Slopes	Region	Landunit
5	Loamy Skeletal		B	5
7	Loamy Skeletal	<20°	B	7
8	Loamy Skeletal	>20°	B	8
9	Loamy Skeletal		C	9
41	Sandy/Cobbly	<1°	B	4a
53	Loamy Skeletal	1-5°	C	Midd
91				
92	Loamy/Bouldery	<1°	C	9b
93	Loamy/Bouldery	1-5°	C	Midd
101	Loamy	0-5°	C	10a
102	Loamy	0-5°	C	10b
111	Loamy Skeletal	<30°	C	11
121	Loamy Skeletal	>30°	C	12

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
POLLUTION	Sources of ruver water pollution	Shape: Point	Riv_pollut	Field verification	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1998	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets

2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

RIV_POLUT	Name	PHOTO	TYPE	PICTURE
101	Teku Kalopool	25-28	Sanitary Sewer Outfill	polu10.tif
102	Bishnumati	24-26	Sanitary Sewer Outfill	polu4.tif
103	Shobhabhagwati	29-31	Sanitary Sewer Outfill	polu2.tif
104	Balgangaghat	27-28	Sanitary Sewer Outfill	polu3.tif
106	Kalmochan Ghat	21-23	Sanitary Sewer Outfill	polu7.tif
108	Aryaghat	7-10	Sanitary Sewer Outfill	polu9.tif
109	Gaurighat	11-12	Sanitary Sewer Outfill	polu8.tif
110	Manohara khola	13-15	Sanitary Sewer Outfill	polu5.tif
112	Swayambhu	32-36	Sanitary Sewer Outfill	
300	Balkhu	16-20	Industrial Water Pollution	polu6.tif
305	Gongabu	4-6	Industrial Water Pollution	polu1.tif
207	Maitidevi-gausala po	29	Storm Sewer Outfill	polu1.tif
311	Chupinghat	30-32	Industrial Water Pollution	polu11.tif

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
Drainage	Major rivers	Shape: Polygon	Riv16ma-id	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

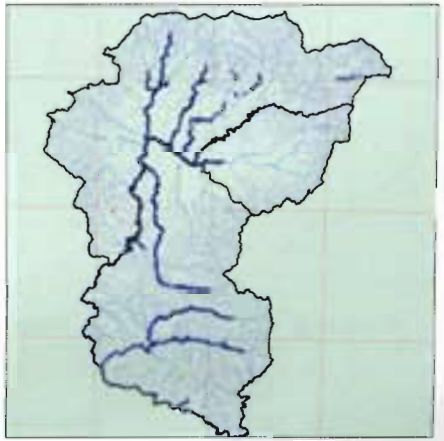
Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

Riv16ma_id	Class
0	Graticule lines
4	Water body
5	Sandy area

Quicklook Image



ThemeName	Description	Type	UniqueItem	Source	Scale
ROAD	Road network	Shape: Arc	Road_ID	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

ROAD_ID	ROAD_TYPE
1	Highway
2	Major Road
3	Feeder Road
4	Foot Trails
5	Minor Foot Trails

Quicklook Image

ThemeName	Description	Type	UniqueItem	Source	Scale
SERVICES	Location of services	Shape: Point	Services-id	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

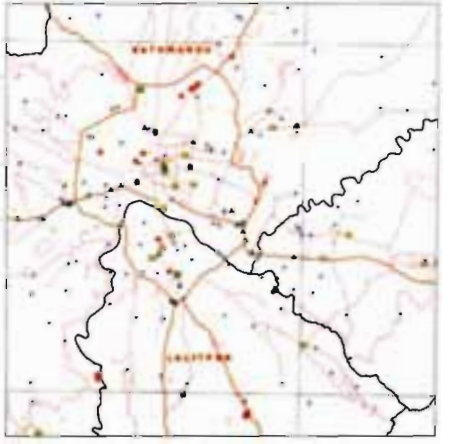
Covered Map Sheets

2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

SERVICES_I	COUNT	TYPE
1	22	Post Office
2	26	Mosque
5	468	School
7	208	Temple/Stupa
9	19	Hospital
11	40	Mane
15	31	Petroal Pump
19	1	Church
20	5	Bus Terminal
21	1	Others
22	6	Others
23	28	Transformer Station

Quicklook Image



ThemeName	Description	Type	UniqueItem	Source	Scale
SPOT	Spot height	Shape: Point	Kvco16-id	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

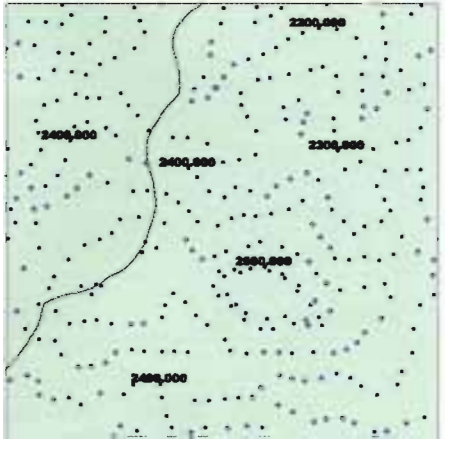
Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

Items(s)	Description
KVCO16_ID	Elevation value of each location (spot) in metre

Quicklook Image



ThemeName	Description	Type	UniqueItem	Source	Scale
VDC	Village Development Committee	Shape: Polygon	ID	Topographic map	1:25K

SourceDate	Projection	Spheroid	Origin	False Easting	False Northing
1995	UTM	Everest	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Xmin	Ymin	Xmax	Ymax
714632.625	3028469	764657.625	3084497

Covered Map Sheets
2785-01d,02c,02d,03c,05b,06a,06b,07a,06d,06c,06d,07c,09b,10a,10b,10c

Lookup Table/Description of Items

Item(s)	Description
ID	Unique ID number per each VDC
Name	Name of VDC
TPOPU	Total population per VDC
MALE	Male population per VDC
FEMALE	Female population per VDC
HHOLD	Distribution household per VDC
DENSITY	Population per sq. km. Per VDC
P_MALE	Percentage of males per VDC
P_FEMALE	Percentage of females per VDC

Quicklook Image

Theme Name	Description	Theme Type	Cell Size	Unique Item
HLSHD2	Hillshade of DEM	GRID	10m	VALUE
Rows	**Columns**	**Xmin**	**Ymin**	**Xmax**
5604	5004	714630	73008460	764670
Ymax	**Type**	**Origin**	**False Easting**	**False Northing**
3084500	Integer	84° 00' 00"E, 26° 15' 00"N	400000m	0m

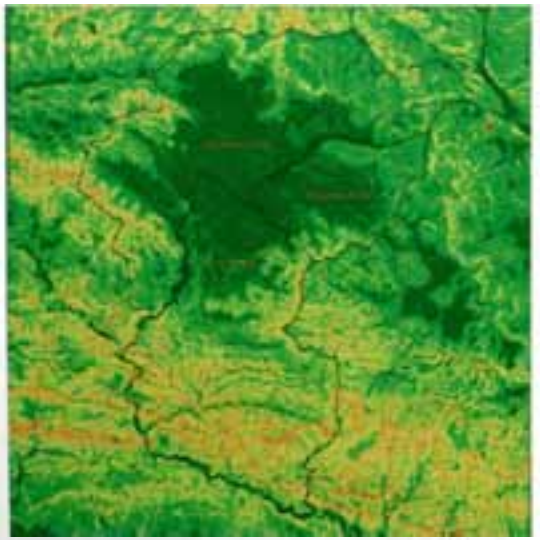
Item Description
VALUE = Intenstiy of colour; COUNT = No. of Pixels

Quick Look Image

Theme Name	Description	Theme Type	Cell Size	Unique Item
SLOPE	Slope information	GRID	10m	VALUE
Rows	**Columns**	**Xmin**	**Ymin**	**Xmax**
5604	5004	714630	73008460	764670
Ymax	**Type**	**Origin**	**False Easting**	**False Northing**
3084500	Integer	84° 00' 00"E, 26° 15' 00"N	400000m	0m

Item Description
VALUE = Slopes in degrees; COUNT = No. of Pixels

Quick Look Image



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
AVNRGEO.Img	AVNIR M	16m	10m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
11-Jan-1997	Nepal	Kathmandu	4 (Band1:Band4)	ADEOS

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

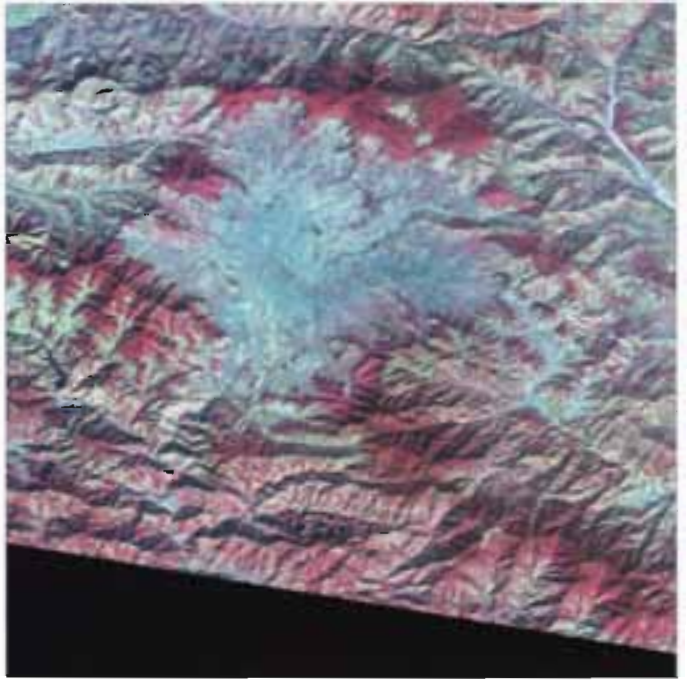
Rows	Columns
5004	5605
ULX	**ULY**
714635	3084495
LRX	**LRY**
764665	3028455

Storage
SPCD#01

Quality
Good

File Size: 111,641KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
DEM10KTM.Img	Derived by interpolation	10m	10m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
08-Apr-1998	Nepal	Kathmandu	1	MENRIS

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

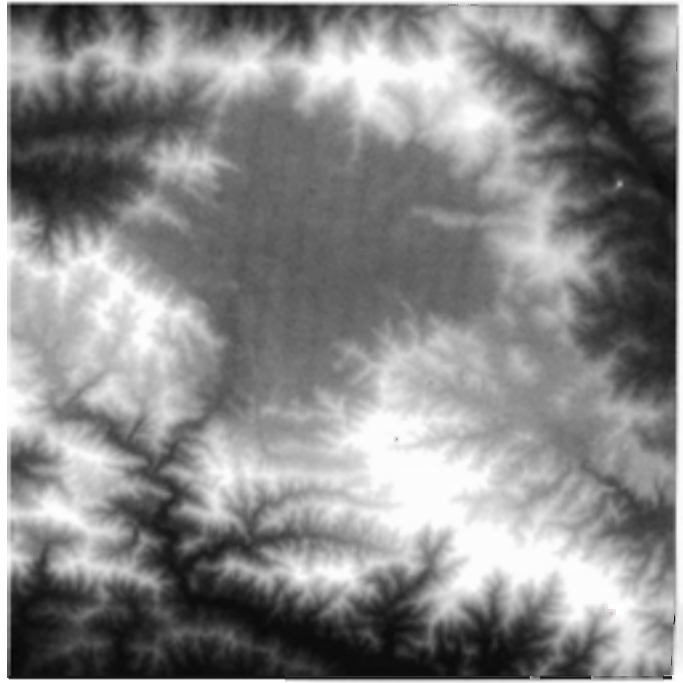
Rows	Columns
5004	5604
ULX	**ULY**
714635	3084495
LRX	**LRY**
764665	3028465

Storage
SPCD#01/19

Quality
Good

File Size: 55,723KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
IRS1C-GEO1.Img	IRS1-C	5.6m	5.6m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
23-Nov-1996	Nepal	Kathmandu	1	NRSA-NDC

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

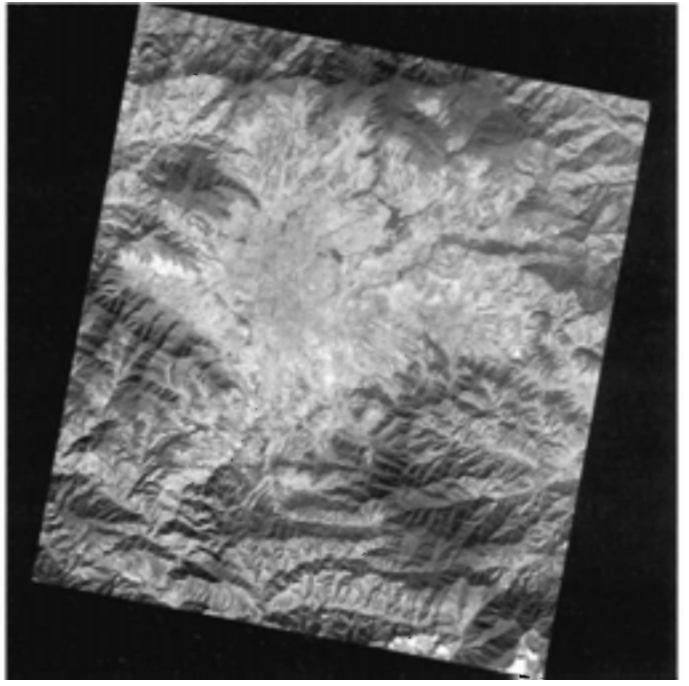
Rows	Columns
7385	8015
ULX	**ULY**
717545	3082465
LRX	**LRY**
758895	3037586

Storage
SPCD#09

Quality
Good

File Size: 60,079KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
SPIN-GEO.Img	KVR 1000 camera system	2m	2m	Imagine

Acquired Date	Country	Area	Number of Layers	Source
05-Feb-1991	Nepal	Kathmandu	1	SPIN-2

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

Rows	Columns
7024	6834

ULX	ULY
728652	3071088

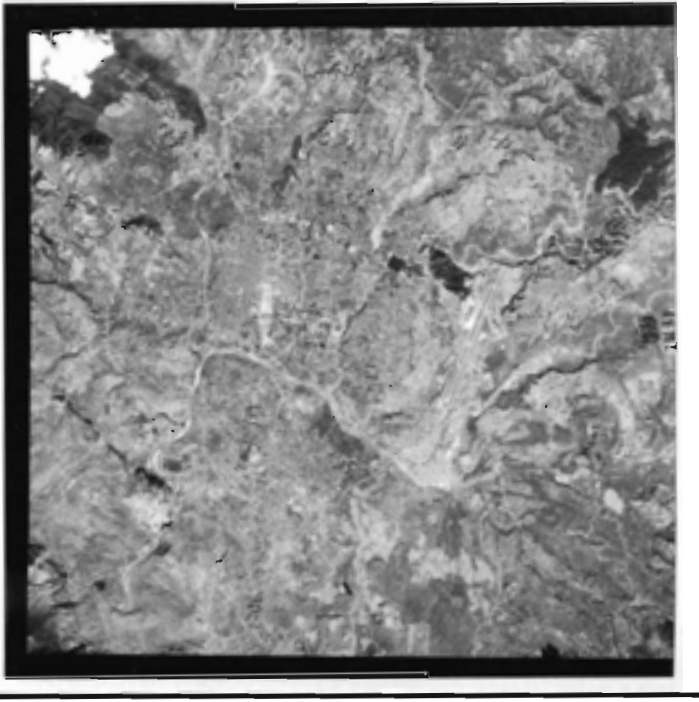
LRX	LRY
742698	3057422

Storage
SPCD#02

Quality
Good; About 2% cloud

File Size: 48,382KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
TMGEO.Img	Landsat-TM	30m	10m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
11-Oct-1988	Nepal	Kathmandu	7 (Band1:Band7)	Landsat

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

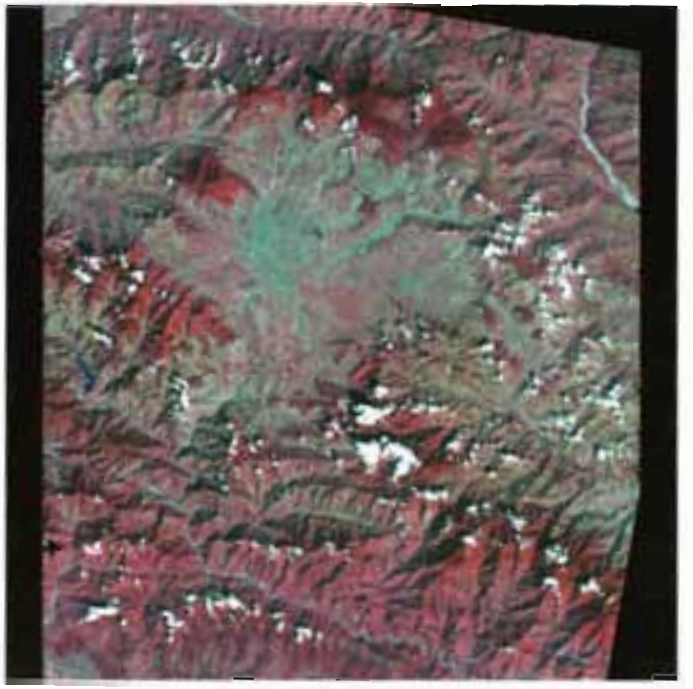
Rows	Columns
4961	5587
ULX	**ULY**
714881	3084552
LRX	**LRY**
764485	3028693

Storage
SPCD#01/19

Quality
Good, About 2% cloud

File Size: 192,883KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
SPOTXS091294	SPOT	20m	20m	Imagine

Acquired Date	Country	Area	Number of Layers	Source
09-Dec-1994	Nepal	Kathmandu	3 (Band1:Band3)	SPOT

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
None	N/A	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

Rows	Columns
3522	2997

ULX	ULY

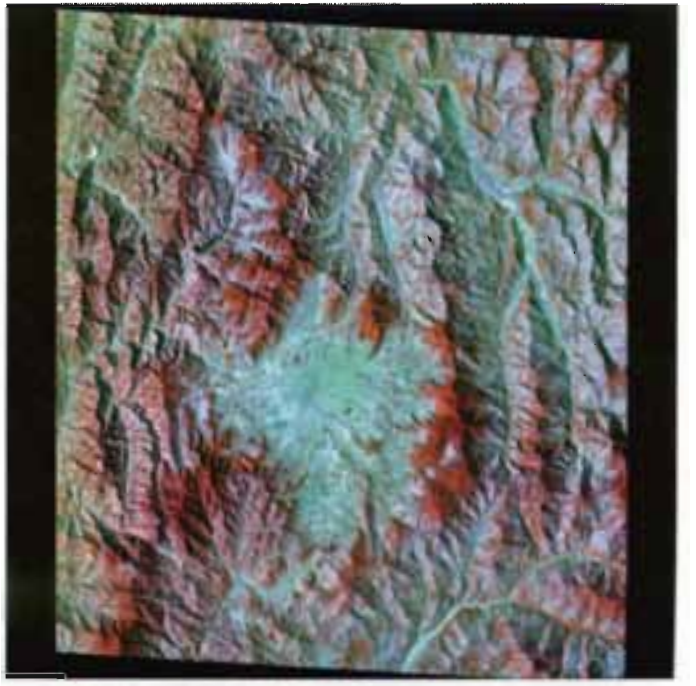
LRX	LRY

Storage
SPCD#20

Quality
Good

File Size: 31,706KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
SPOTXS050591	SPOT	20m	20m	Imagine

Acquired Date	Country	Area	Number of Layers	Source
05-May-1991	Nepal	Kathmandu	3 (Band1:Band3)	SPOT

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
None	N/A	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

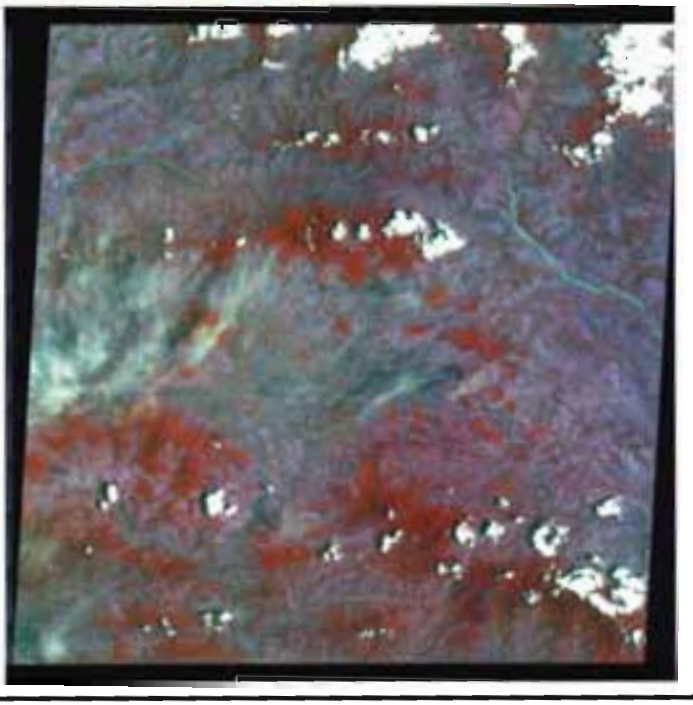
Rows	Columns
3169	3004
ULX	**ULY**
LRX	**LRY**

Storage
SPCD#20

Quality
Good, about 4% cloud

File Size: 28,311KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
SPOTPAN.Img	SPOT	10m	10m	Imagine

Acquired Date	Country	Area	Number of Layers	Source
Nov-07-1986	Nepal	Kathmandu/Southern Terai	1	SPOT

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
No	No	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

Rows	Columns
6000	6000

ULX	ULY
-	-

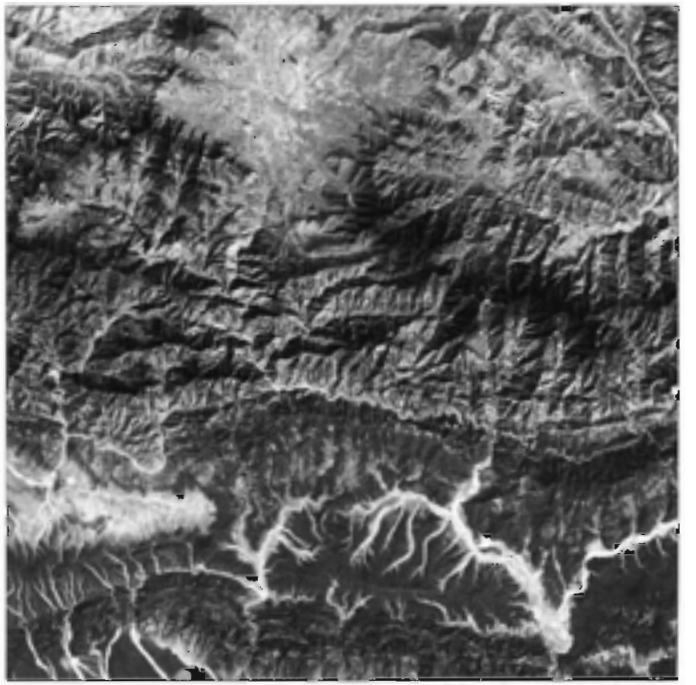
LRX	LRY
-	-

Storage
SPCD#19

Quality
Good

File Size: 35,515KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
GEOSPOTXS.Img	SPOT HRV1	20m	20m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
12-Mar-1986	Nepal	Kathmandu, Southern Terai	3 (Band1:Band3)	SPOT

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM	Everest	84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

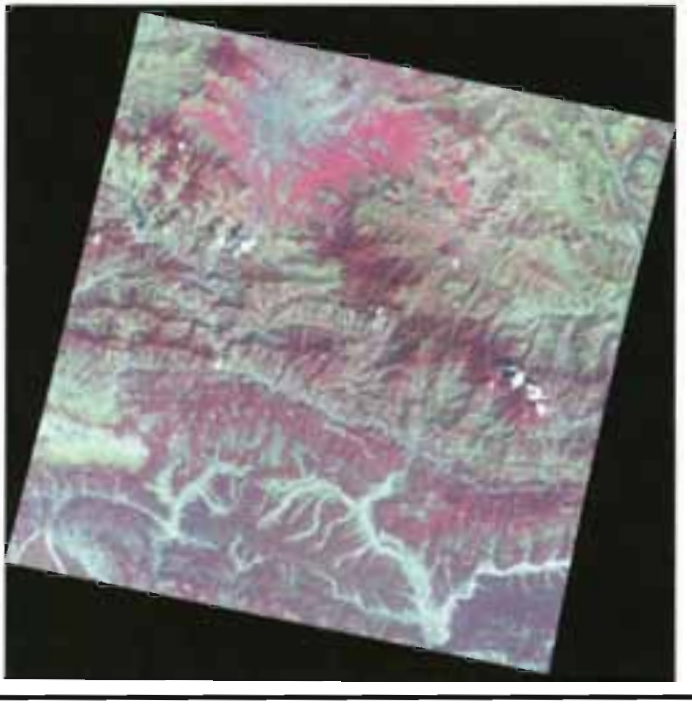
Rows	Columns
3782	3566
ULX	**ULY**
703501	3076203
LRX	**LRY**
779121	3004903

Storage
SPCD#19

Quality
Good

File Size: 40,480KB

Quick Look:



ImageFileName	SatelliteSensor	Resolution	ResampledTo	Format
ORTHO.Img	SPOT-PAN	10m	10m	Imagine
Acquired Date	**Country**	**Area**	**Number of Layers**	**Source**
07-Nov-1986	Nepal	Kathmandu	1	SPOT

GeoreferencedTo	Spheroid	Origin	Datum	False Easting	False Northing
UTM		84° 00' 00"E, 26° 15' 00"N	Everest	400000m	0m

Rows	Columns
6600	7700
ULX	**ULY**
309005	3100995
LRX	**LRY**
385995	3035005

Storage

Quality
Good

File Size: 50,516KB

Quick Look: