



Use of GIS/RS for the
improvement of legal notification
of Khunjerab National Park – a
step towards better PA's ecosystem
management





Presentation Outlines

- Introduction & Background
- Boundary Issues
- Methodology
- GIS Based Boundary & Notification
- Conclusion & Achievement

Introduction & Background



Introduction

- A Protected Area (PA) is an area of land dedicated to the maintenance and protection of biological diversity and natural resources through legal or other effective means
- In Pakistan, one of the main and upfront problem of PA is inadequate demarcation of boundary, that results in the multitude of various complexities
- There are about 233 PA's of different categories like, Wildlife Sanctuary, National Park and Game Reserves



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Boundary Delineation and Re-notification of protected Areas project is an initiative which aims to;

- Delineate the GIS based boundary in close consultation with the Park management and local communities
- Formulate a GIS based notification
- Re-notify the boundary with the proposed notification

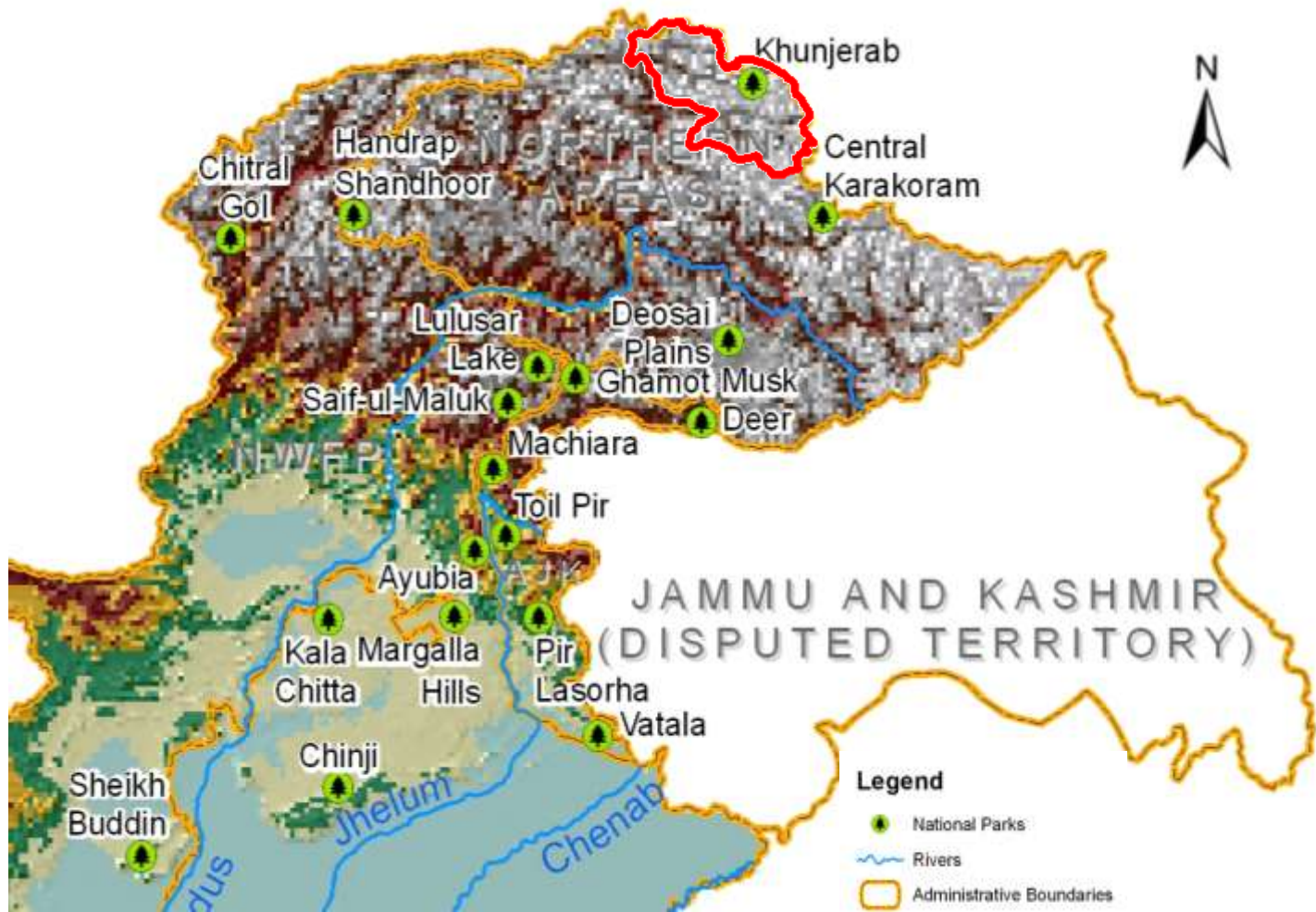


Project Partners

- Ministry of Environment (MoE)
- Provincial Wildlife, Forest and Revenue Departments
- Survey of Pakistan (SoP)
- Pakistan Petroleum Exploration & Production Companies Association (PPEPCA)
- World Wide Fund for Nature (WWF) – Pakistan



Khunjerab National Park



Boundary Issues



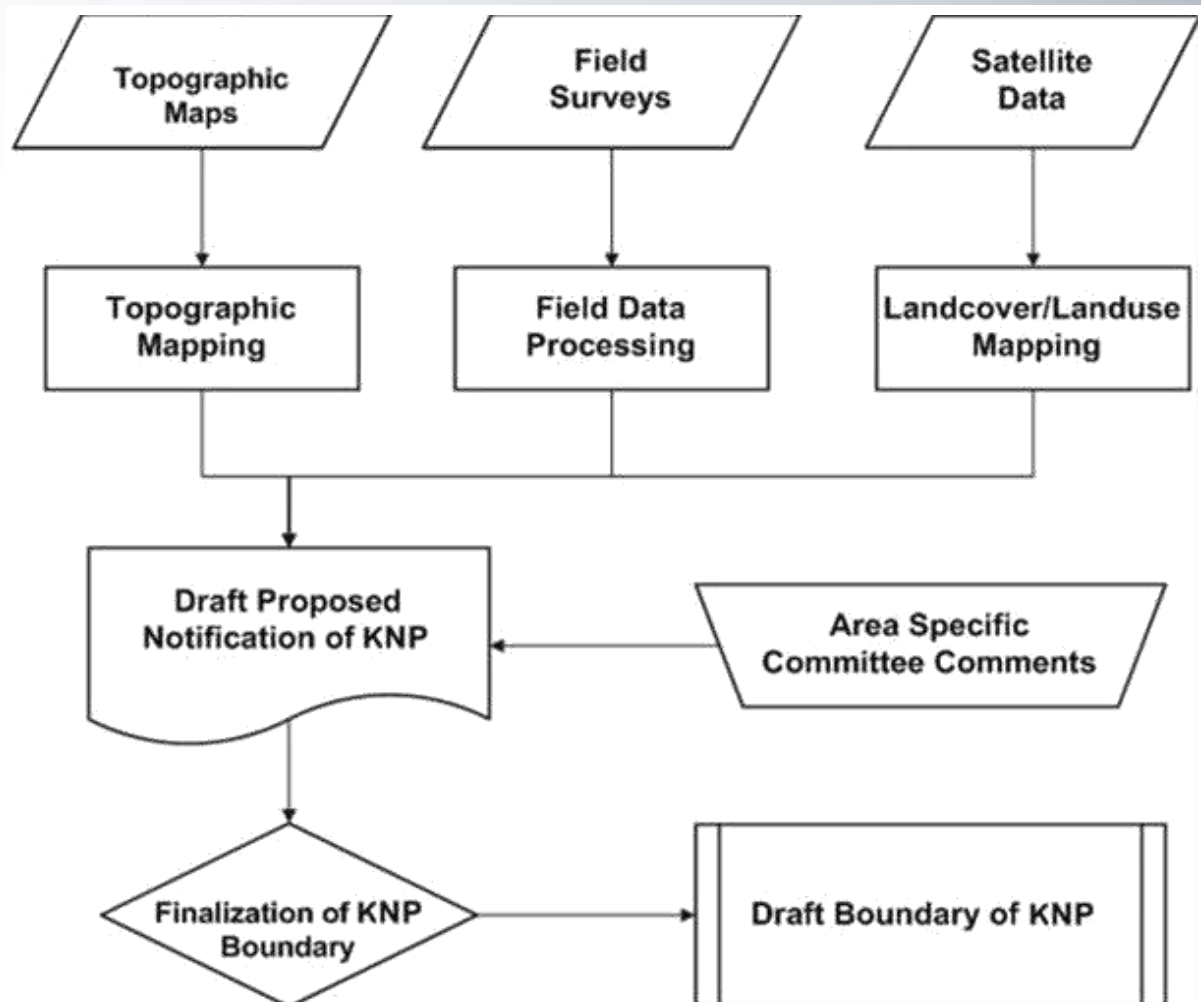
Issues/Conflicts

- KNP was first notified in 1975 with an area of 877 sq. km
- The notification did not completely explain boundary extent that lead to the misinterpretation
- To remove discrepancies, it was re-notified in year 2005 with an area of 5,544 sq. km
- The Park extent of 2005 includes certain land of surrounding communities, which they claimed that their land of economical and cultural value had been transferred to Park

Methods & Approach



Methodology



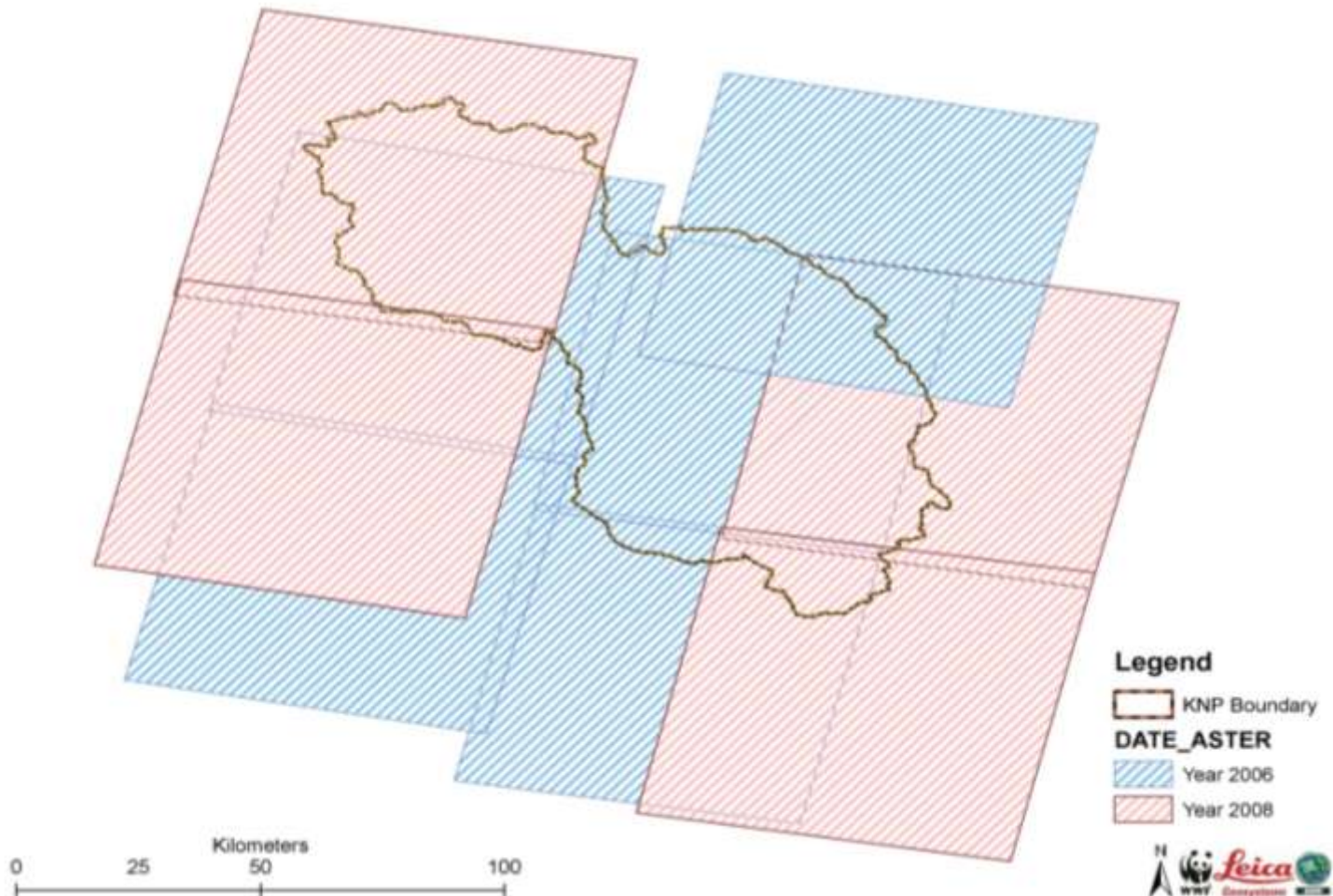


Topographic Mapping



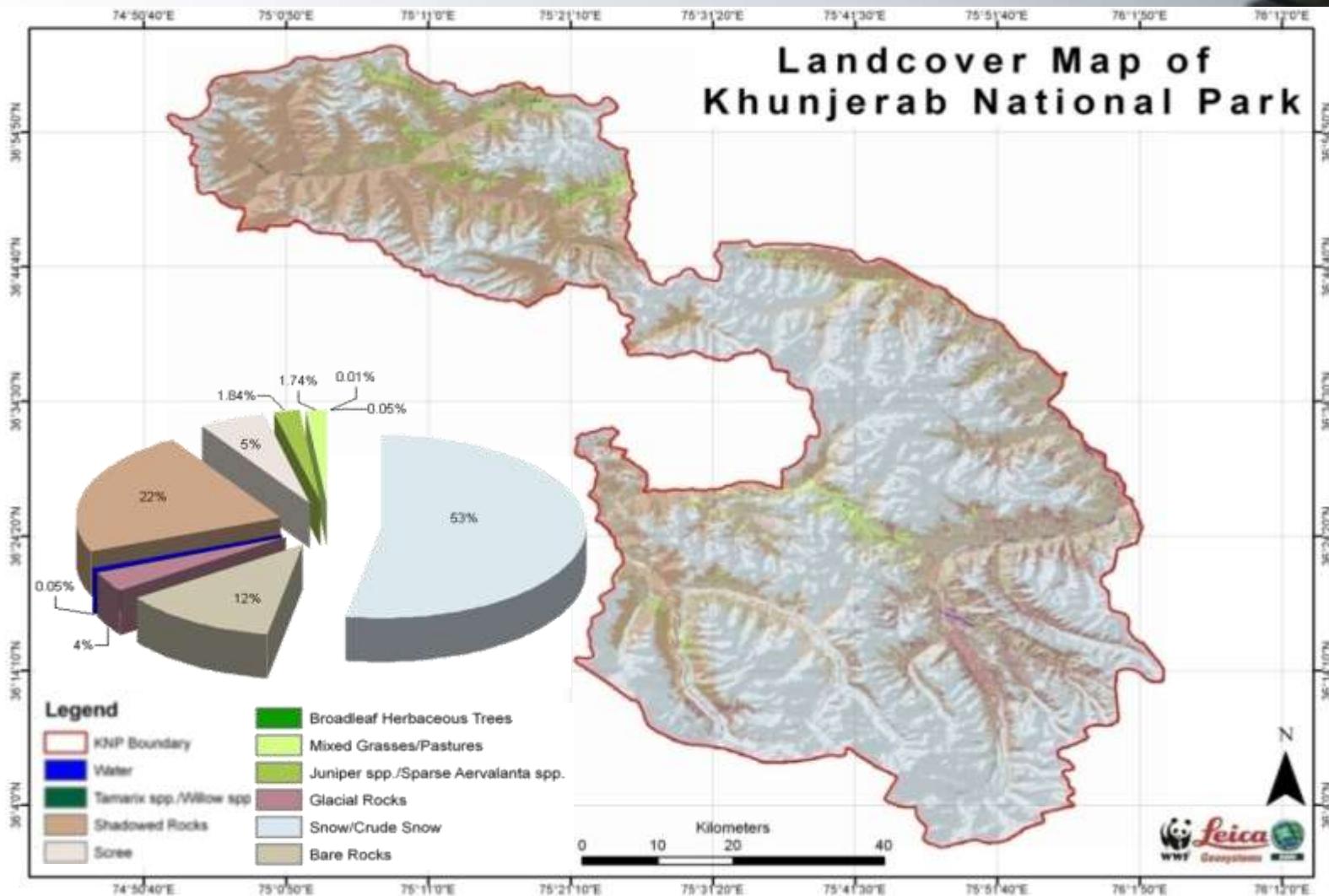


Satellite Data Acquisition



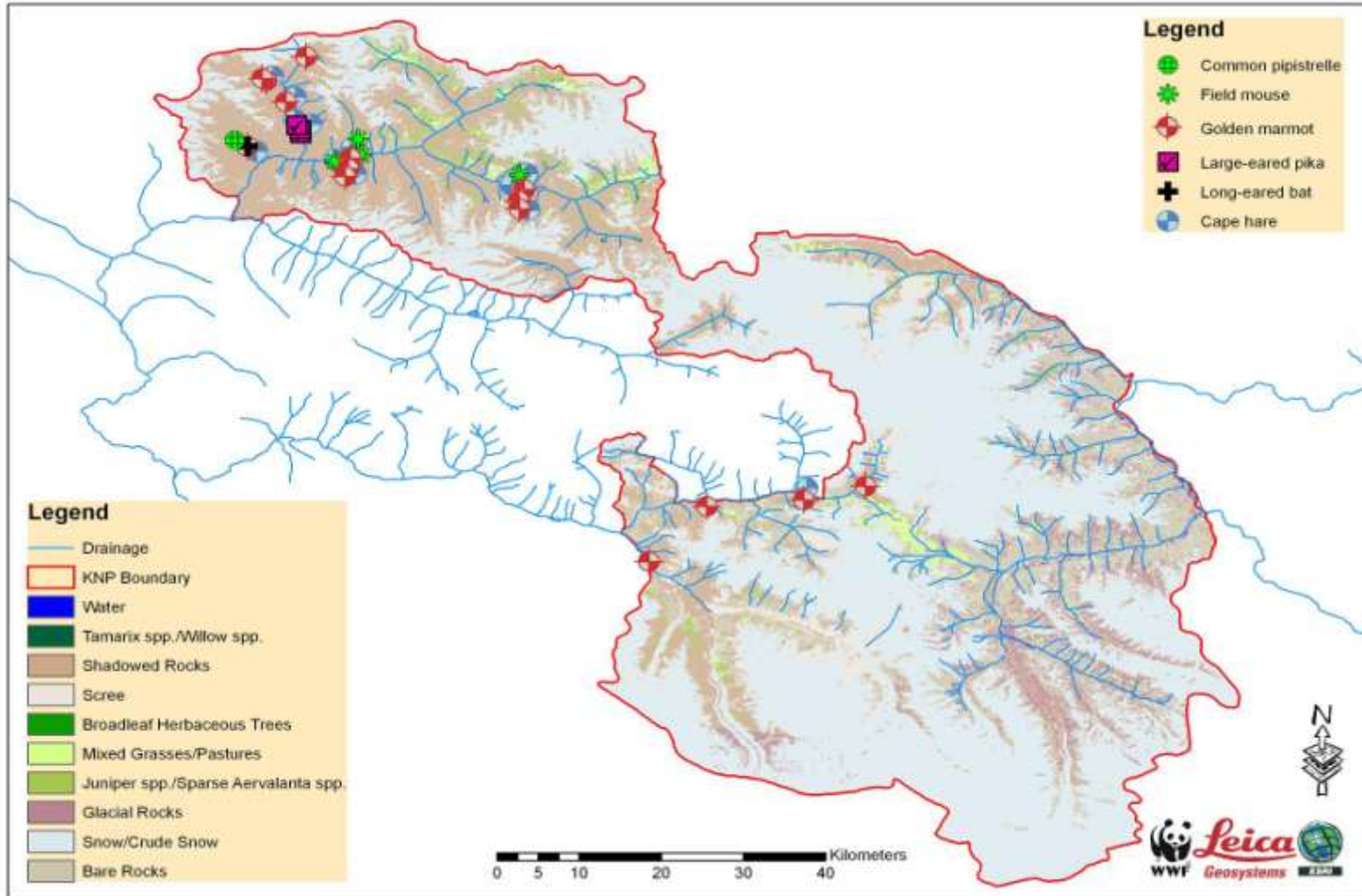


Land Cover Mapping





Habitat Mapping





Formulation of an ASC

- Directorate of KNP
- Officials of Forest & Wildlife Departments
- Officials of Revenue Department
- Local CBO representative
- WWF – Pakistan



Area Specific Committee Meeting

In ASC meeting,

- The overlapping issues of KNP boundary with Soqhtorabad and Shimshal Community Controlled Hunting Areas (CCHAs) were discussed
- It was agreed to consult these communities to delineate the extent of the CCHAs
- There is need to highlight the issues of Community with park management



Field Survey



Meetings with the members of Community Controlled Hunting Areas



Meetings with Communities

- A draft GIS based boundary of Shimshal CCHA was marked which completely translate the boundary according to 2006 notification
- All the community members as well as park management and members from the revenue department agreed on the boundary
- Similarly, the meeting was arrange with the Soqhterabad Community Controlled Hunting Area commonly known as Khunjerab Village Organization (KVO) and GIS based boundary of SCCHA was marked

GIS Boundary and Draft Notification



GIS Based notification

- A draft GIS based boundary notification has been formulated after having a brief idea about the issues, topography, land cover and by mapping the habitat zones of the areas.
- The notification consists of three parts;
 - Descriptions
 - Map
 - Boundary coordinates

GOVERNMENT OF PAKISTAN
CHIEF SECRETARY NORTHERN AREAS
GILGIT

Dated: 05-08-2009

NOTIFICATION

No. F&A-8 (4)/F/2001

In exercise of the powers conferred under section 22 of Northern Areas Wildlife preservation Act 1975, read with the section 1(2) (b) (iii), 28((1) & (2) and 80(1) (b) of Pakistan forest act 1927, the provincial government for the Northern Area is pleased to re-notify the Khunjerab National Park with its changed boundary specified in the schedule given below with immediate effect.

SCHEDULE

- 1) District(s) : Gilgit
 2) Tehsil(s) : Hunza Sub-division
 3) Locality : Khunjerab National Park (Khunjerab River, Pamirchi Bridge, Gujerab River, Pamir - e - Tang nullah, Shopdin Pass, Yazghil Sar, Yakshin Sar, Kanjut Sar, Kailas Peak and Khunjerab Pass)
 4) Area : 4, 45,508 hectares (approx. 4,455.08 km²)
 5) Coordinates : 74° 52' 33.21"E, 36° 56' 11.83"N to 76° 03' 26.98" E, 36° 13' 24.24" N.

BOUNDARIES

The boundary of the Khunjerab National Park follows the following references in all the directions.

North:

Northern side of the Khunjerab National Park follows the Pak – China border starting from the grid reference point N1/W24 (74° 52' 33.20"E, 36° 56' 11.85"N) to grid reference point E1/N8 (75° 31' 52.50"E, 36° 46' 30.04"N) {Grid reference points between N1/W24 and E1/N8 are: N2 (75° 09' 01.94"E, 37° 01' 11.03"N), N3 (75° 14' 07.62"E, 36° 57' 34.96"N), N4 (75° 23' 49.70"E, 36° 57' 25.34"N) and N5 (75° 27' 30.71"E, 36° 43' 20.50"N)}.

East:

Eastern side of the boundary starts from grid reference points E1/N8 (75° 31' 52.50"E, 36° 46' 30.04"N). From E1/N8 boundary follows the Pak - China border up to grid reference point E3/S1 (75° 57' 04.75"E, 36° 04' 05.41"N) {E2 (75° 58' 33.04"E, 36° 38' 38.34"N) is between the grid reference point E1/N8 and E3/S1.

South:

Southern boundary of Khunjerab National Park starts from the grid reference point E3/S1 (75° 57' 04.75"E, 36° 04' 05.41"N) and follows the common administrative boundary of Gilgit and Baltistan districts up to grid reference

Proposed Notification Format



Part 1: Description

point W1/S4 (75° 21' 28.58"E, 36° 14' 54.82"N) at the Yakshin Sar (7,583 m) (Grid reference points between E3/S1 and W1/S4 are: S2 (75° 49' 44.76"E, 36° 01' 21.04"N) at Kailas Peak and S3 (75° 25' 01.67"E, 36° 12' 17.64"N) at Kanjut Sar.

West:

The western boundary of Khunjerab National Park starts from the grid reference point W1/S4 (75° 21' 28.58"E, 36° 14' 54.82"N) at the Yakshin Sar. From W1/S4, the boundary follows a ridge line in northern direction to the grid reference point W2 (75° 24' 09.09" E, 36° 21' 04.05" N) at Yazghil Sar. From W2, the boundary dips northward into Virjerab Nullah at W3 (75° 24' 46.82"E, 36° 23' 11.84" N). From W3, the boundary follows Virjerab Nullah and moves in north-west direction up to grid reference point W4 (75° 22' 58.07"E, 36° 25' 32.75" N). From this point boundary moves along the ridge line and reaches at grid reference point W5 (75° 22' 26.83" E, 36° 27' 26.42" N) at Putput Peak. The boundary further follows ridgeline in northern direction and crosses Zardgarbin Pass and reaches at grid reference point W6 (75° 21' 38.01" E, 36° 31' 10.42" N) at Shopdin Pass. Boundary further extends on the ridgeline in eastern direction up to grid reference point W7 (75° 24' 33.18" E, 36° 32' 11.89"N) tracing the elevation of 5,683 m and 5,728 m.

From W7 to W8 (75° 24' 01.02" E, 36° 31' 05.34" N), the boundary moves in south-west direction along the water channel (which is primary water channel of Pamir - e - Tang nullah). From grid reference point W8 to W9 (75° 25' 09.37" E, 36° 30' 49.87" N) the boundary further moves eastward and follows a water channel which is one of the primary water channel for the Pamir - e - Tang nullah.

From W9 boundary moves along the ridgeline including grid reference points W10 (75° 24' 52.18" E, 36° 30' 13.27" N) and W11 (75° 25' 45.21" E, 36° 29' 42.49" N). From W11 to W12 (75° 26' 23.55" E, 36° 27' 37.96" N), the boundary moves southwards following a water channel (Pass). Grid reference point W12 (75° 26' 23.55" E, 36° 27' 37.96" N) to W13 (75° 36' 16.35" E, 36° 27' 56.93" N) the boundary moves along the Pamir-e-Tang Nullah and follows a primary water channel of Pamir-e-Tang northwards up to the grid reference point W14 (75° 36' 18.02" E, 36° 29' 19.45" N). From the grid reference point W14 to W15 (75° 38' 12.87" E, 36° 35' 19.36" N), National Park's boundary moves along the ridge line on sub – watershed of Shujerab Nullah including the Shujerab glacier. From grid reference point W15 to W16 (75° 34' 27.54" E, 36° 38' 26.26" N) the boundary of the Park follows a ridgeline of Gujerab mountains (Historic Pak – China Border). From W16 the boundary moves in westward direction following the ridge line up to W17 (75° 25' 21.59" E, 36° 38' 00.15" N) at Ghidim Nullah. From W16 to W17, boundary passes through the elevations of 6083 m, 5805 m, 5857 m and 5443 m. From W17 the boundary crosses the Ghidim Nullah in northern direction and reaches at W18 (75° 25' 35.07"E, 36° 40' 51.23" N) which is at the western watershed boundary of Ghidim Nullah. The boundary further passes through the elevations at 5,918 m and 4,925 m in north-western direction up to grid reference point W19 (75° 23' 11.35" E, 36° 43' 21.16" N). From grid reference point W19 to W20 (75° 17' 57.82" E, 36° 41' 42.62" N), the boundary moves



Part 1: Description (Contd..)



along the ridge line in south-western direction which is the northern watershed boundary of Chupchingal nullah.

From W20 to W21 (74° 59' 21.58" E, 36° 47' 20.17" N), the boundary further moves westwards along the ridge line which is also northern watershed boundary of Gujerab river. From W21, the boundary moves along the Gujerab river in the western direction and reaches at the grid reference point W22 (74° 57' 22.46" E, 36° 47' 27.59" N) which is at the confluence of Khunjerab and Gujerab rivers. Boundary further extends northward along the Khunjerab river upto grid reference point W23 (74° 57' 47.61" E, 36° 49' 07.51" N) at Pamirchi Bridge. From W23, the boundary moves along the ridge line (which is the southern watershed boundary of Dhee nullah) up to grid reference point N1/W24 (74° 52' 33.21" E, 36° 56' 11.63" N) at Pak-China border. Elevations 5838 m, 5736 m, 5810 m, 5442 m, 5643 m exists between W23 and N1/W24.

REFERENCE

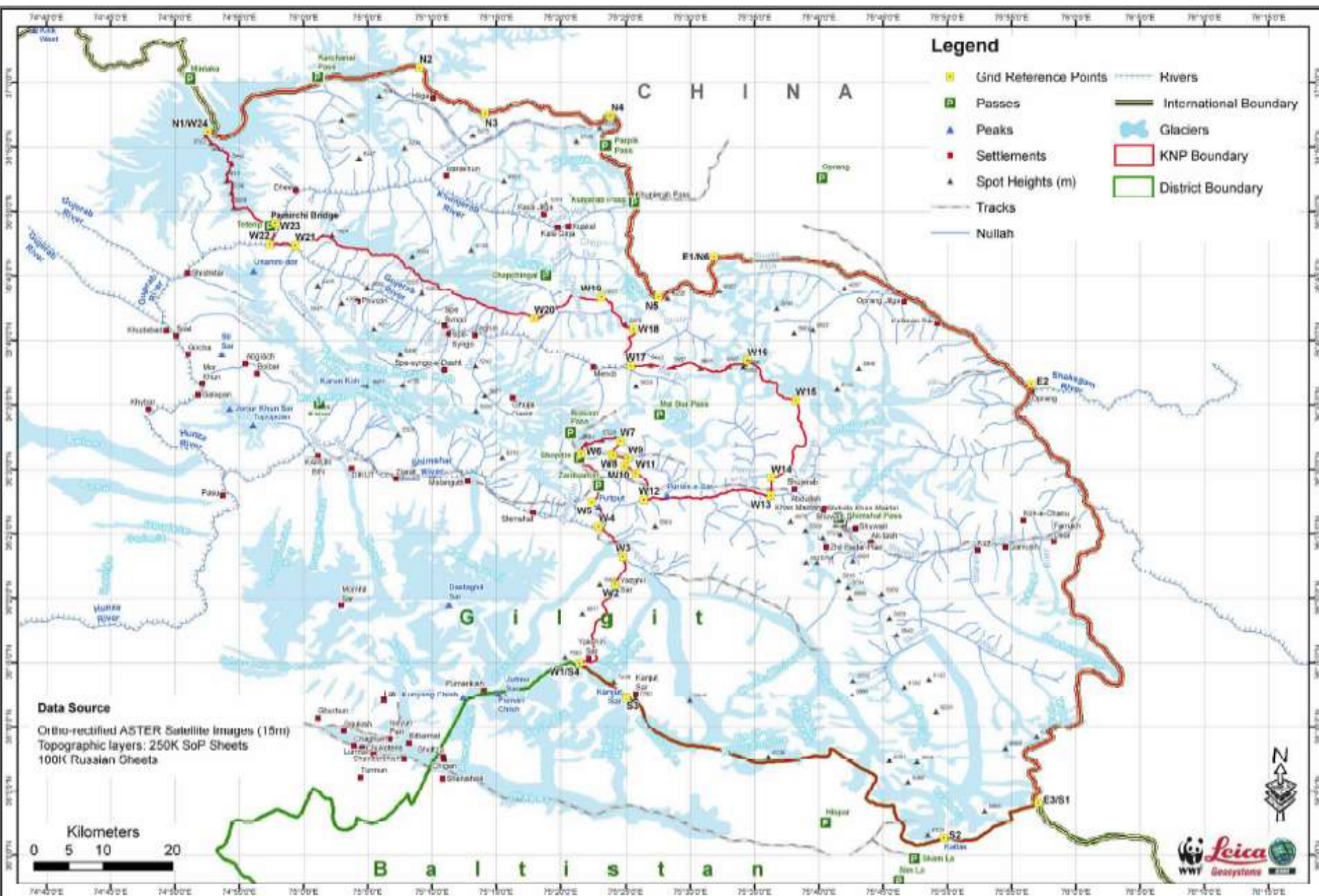
Geo-Rectified ASTER (15 m) Satellite Image
1: 2,50,000 Survey of Pakistan Maps
1: 1,00,000 Russian Maps
Projection: Geographic Coordinate System
Spheroid & Datum: World Geodetic System (WGS) 84
(Single frequency GPS receiver was used for the field data collection)

(Authority)
Chief Secretary, Northern Areas

A copy is forwarded to the:-

1. _____
2. _____
3. _____
4. _____

Part 1: Description (Contd..)



GIS Map of Khunjerab National Park Boundary with Grid Reference Points

List of selected boundary coordinates

| S. No | Longitude (E) | Latitude (N) | S. No | Longitude (E) | Latitude (N) |
|-------|----------------|----------------|-------|----------------|----------------|
| 1 | 76° 01' 46.58" | 38° 24' 29.20" | 51 | 75° 59' 35.41" | 38° 10' 00.66" |
| 2 | 76° 01' 46.58" | 38° 24' 29.20" | 52 | 75° 59' 21.28" | 38° 09' 58.75" |
| 3 | 76° 01' 41.41" | 38° 23' 59.60" | 53 | 75° 59' 11.62" | 38° 10' 03.25" |
| 4 | 76° 01' 34.38" | 38° 23' 45.46" | 54 | 75° 58' 34.38" | 38° 10' 03.90" |
| 5 | 76° 01' 11.21" | 38° 23' 42.90" | 55 | 75° 57' 51.34" | 38° 09' 41.40" |
| 6 | 76° 00' 46.80" | 38° 23' 29.40" | 56 | 75° 57' 51.34" | 38° 09' 36.25" |
| 7 | 76° 00' 25.60" | 38° 23' 27.46" | 57 | 75° 58' 08.04" | 38° 09' 09.94" |
| 8 | 76° 00' 19.84" | 38° 23' 24.90" | 58 | 75° 58' 03.54" | 38° 09' 02.84" |
| 9 | 76° 00' 12.74" | 38° 23' 16.55" | 59 | 75° 56' 59.28" | 38° 08' 32.03" |
| 10 | 76° 00' 09.88" | 38° 22' 50.20" | 60 | 75° 56' 13.67" | 38° 08' 18.63" |
| 11 | 75° 59' 58.98" | 38° 21' 59.44" | 61 | 75° 56' 04.02" | 38° 08' 12.08" |
| 12 | 75° 59' 42.86" | 38° 21' 38.23" | 62 | 75° 56' 58.91" | 38° 08' 03.73" |
| 13 | 75° 59' 23.60" | 38° 21' 28.62" | 63 | 75° 56' 00.17" | 38° 07' 40.82" |
| 14 | 75° 59' 10.10" | 38° 21' 17.68" | 64 | 75° 56' 04.02" | 38° 07' 35.47" |
| 15 | 75° 59' 06.25" | 38° 21' 11.92" | 65 | 75° 56' 42.58" | 38° 07' 20.06" |
| 16 | 75° 59' 02.40" | 38° 20' 52.01" | 66 | 75° 57' 03.78" | 38° 06' 56.30" |
| 17 | 75° 59' 10.10" | 38° 20' 34.01" | 67 | 75° 57' 06.37" | 38° 06' 49.86" |
| 18 | 75° 59' 28.10" | 38° 20' 17.30" | 68 | 75° 56' 57.37" | 38° 06' 40.21" |
| 19 | 75° 59' 39.01" | 38° 19' 56.10" | 69 | 75° 56' 25.87" | 38° 06' 37.01" |
| 20 | 75° 59' 38.08" | 38° 19' 20.75" | 70 | 75° 56' 19.46" | 38° 06' 25.45" |
| 21 | 75° 59' 42.32" | 38° 18' 50.22" | 71 | 75° 56' 20.72" | 38° 06' 18.45" |
| 22 | 76° 00' 00.11" | 38° 18' 37.76" | 72 | 75° 56' 38.08" | 38° 06' 00.40" |
| 23 | 76° 00' 24.52" | 38° 18' 33.91" | 73 | 75° 56' 46.43" | 38° 05' 43.04" |
| 24 | 76° 00' 48.92" | 38° 18' 23.65" | 74 | 75° 56' 44.20" | 38° 05' 28.99" |
| 25 | 76° 01' 03.07" | 38° 18' 03.10" | 75 | 75° 57' 07.96" | 38° 05' 08.99" |
| 26 | 76° 01' 03.07" | 38° 17' 30.95" | 76 | 75° 57' 07.96" | 38° 04' 54.88" |
| 27 | 76° 01' 00.48" | 38° 17' 19.39" | 77 | 75° 56' 45.49" | 38° 04' 40.73" |
| 28 | 76° 01' 05.63" | 38° 17' 03.98" | 78 | 75° 56' 40.34" | 38° 04' 31.73" |
| 29 | 76° 01' 18.48" | 38° 16' 44.69" | 79 | 75° 56' 43.55" | 38° 04' 20.82" |
| 30 | 76° 01' 39.04" | 38° 16' 26.72" | 80 | 75° 56' 54.46" | 38° 04' 10.62" |
| 31 | 76° 02' 06.04" | 38° 16' 11.28" | 81 | 75° 57' 04.75" | 38° 04' 05.41" |
| 32 | 76° 03' 20.58" | 38° 14' 37.50" | 82 | 75° 57' 04.61" | 38° 03' 59.65" |
| 33 | 76° 03' 33.41" | 38° 14' 07.94" | 83 | 75° 56' 56.83" | 38° 03' 55.08" |
| 34 | 76° 03' 32.11" | 38° 13' 44.80" | 84 | 75° 56' 36.89" | 38° 03' 52.02" |
| 35 | 76° 03' 26.98" | 38° 13' 24.24" | 85 | 75° 54' 54.11" | 38° 03' 25.67" |
| 36 | 76° 03' 12.82" | 38° 13' 19.13" | 86 | 75° 54' 48.96" | 38° 03' 20.66" |
| 37 | 76° 02' 43.30" | 38° 13' 21.68" | 87 | 75° 54' 58.61" | 38° 02' 54.85" |
| 38 | 76° 02' 16.30" | 38° 13' 33.24" | 88 | 75° 54' 55.40" | 38° 02' 41.35" |
| 39 | 76° 02' 00.69" | 38° 13' 52.54" | 89 | 75° 54' 29.05" | 38° 02' 36.20" |
| 40 | 76° 01' 46.74" | 38° 14' 02.80" | 90 | 75° 54' 04.00" | 38° 02' 24.00" |
| 41 | 76° 01' 28.74" | 38° 14' 11.80" | 91 | 75° 53' 37.64" | 38° 02' 16.30" |
| 42 | 76° 01' 10.78" | 38° 14' 16.94" | 92 | 75° 53' 10.03" | 38° 01' 53.18" |
| 43 | 76° 00' 39.63" | 38° 14' 16.94" | 93 | 75° 52' 21.86" | 38° 01' 22.98" |
| 44 | 76° 00' 20.66" | 38° 14' 10.50" | 94 | 75° 51' 40.10" | 38° 01' 12.04" |
| 45 | 76° 00' 09.11" | 38° 13' 58.94" | 95 | 75° 51' 04.10" | 38° 01' 10.13" |
| 46 | 76° 00' 05.22" | 38° 13' 08.83" | 96 | 75° 50' 48.70" | 38° 01' 11.42" |
| 47 | 76° 00' 06.52" | 38° 12' 32.67" | 97 | 75° 50' 16.26" | 38° 01' 21.68" |
| 48 | 76° 00' 15.52" | 38° 11' 10.61" | 98 | 75° 49' 44.76" | 38° 01' 21.04" |
| 49 | 76° 00' 16.81" | 38° 10' 24.38" | 99 | 75° 48' 04.54" | 38° 00' 53.42" |
| 50 | 76° 00' 10.37" | 38° 10' 16.64" | 100 | 75° 47' 39.48" | 38° 00' 48.92" |

| | | | | | |
|-----|----------------|----------------|-----|----------------|----------------|
| 101 | 75° 47' 32.42" | 36° 00' 48.92" | 151 | 75° 28' 20.50" | 36° 09' 02.34" |
| 102 | 75° 47' 07.37" | 36° 01' 02.42" | 152 | 75° 27' 07.60" | 36° 09' 42.80" |
| 103 | 75° 46' 44.87" | 36° 01' 08.18" | 153 | 75° 26' 50.89" | 36° 09' 55.66" |
| 104 | 75° 46' 30.76" | 36° 01' 17.18" | 154 | 75° 26' 36.10" | 36° 10' 14.27" |
| 105 | 75° 46' 22.40" | 36° 01' 28.74" | 155 | 75° 26' 27.10" | 36° 10' 34.21" |
| 106 | 75° 46' 33.96" | 36° 01' 59.59" | 156 | 75° 26' 25.84" | 36° 10' 45.12" |
| 107 | 75° 46' 34.61" | 36° 02' 22.09" | 157 | 75° 26' 09.74" | 36° 11' 30.08" |
| 108 | 75° 46' 30.11" | 36° 02' 29.15" | 158 | 75° 25' 50.48" | 36° 11' 54.49" |
| 109 | 75° 46' 05.70" | 36° 02' 51.65" | 159 | 75° 25' 33.78" | 36° 11' 55.14" |
| 110 | 75° 45' 56.05" | 36° 03' 08.35" | 160 | 75° 25' 23.52" | 36° 12' 02.23" |
| 111 | 75° 45' 50.90" | 36° 03' 26.96" | 161 | 75° 24' 06.41" | 36° 13' 03.25" |
| 112 | 75° 45' 48.35" | 36° 03' 50.72" | 162 | 75° 22' 02.21" | 36° 14' 30.55" |
| 113 | 75° 45' 44.50" | 36° 03' 55.22" | 163 | 75° 21' 45.47" | 36° 14' 39.70" |
| 114 | 75° 45' 31.64" | 36° 03' 50.11" | 164 | 75° 21' 28.58" | 36° 14' 54.82" |
| 115 | 75° 45' 02.41" | 36° 03' 50.11" | 165 | 75° 21' 35.50" | 36° 15' 07.60" |
| 116 | 75° 44' 56.62" | 36° 03' 53.32" | 166 | 75° 21' 47.20" | 36° 15' 08.68" |
| 117 | 75° 44' 32.86" | 36° 03' 57.82" | 167 | 75° 22' 23.52" | 36° 15' 03.28" |
| 118 | 75° 43' 56.24" | 36° 04' 11.93" | 168 | 75° 22' 45.55" | 36° 15' 12.17" |
| 119 | 75° 43' 38.89" | 36° 04' 23.52" | 169 | 75° 22' 49.40" | 36° 15' 24.37" |
| 120 | 75° 43' 36.34" | 36° 04' 27.98" | 170 | 75° 22' 32.99" | 36° 15' 59.80" |
| 121 | 75° 44' 27.71" | 36° 05' 57.95" | 171 | 75° 22' 33.67" | 36° 16' 36.55" |
| 122 | 75° 44' 27.71" | 36° 06' 06.30" | 172 | 75° 22' 26.44" | 36° 16' 52.28" |
| 123 | 75° 44' 24.50" | 36° 06' 12.10" | 173 | 75° 22' 24.46" | 36° 17' 11.98" |
| 124 | 75° 43' 57.50" | 36° 06' 28.15" | 174 | 75° 22' 38.89" | 36° 17' 29.69" |
| 125 | 75° 43' 40.80" | 36° 06' 33.91" | 175 | 75° 22' 42.53" | 36° 18' 09.72" |
| 126 | 75° 43' 22.84" | 36° 06' 45.50" | 176 | 75° 23' 14.03" | 36° 18' 27.43" |
| 127 | 75° 43' 07.39" | 36° 06' 51.26" | 177 | 75° 23' 31.06" | 36° 18' 40.54" |
| 128 | 75° 42' 32.72" | 36° 07' 16.32" | 178 | 75° 23' 32.39" | 36° 19' 05.48" |
| 129 | 75° 41' 53.20" | 36° 07' 40.08" | 179 | 75° 23' 14.68" | 36° 19' 29.75" |
| 130 | 75° 41' 17.23" | 36° 08' 09.64" | 180 | 75° 23' 13.34" | 36° 19' 36.98" |
| 131 | 75° 41' 03.73" | 36° 08' 17.34" | 181 | 75° 23' 28.43" | 36° 19' 54.05" |
| 132 | 75° 40' 52.82" | 36° 08' 19.26" | 182 | 75° 24' 14.80" | 36° 20' 22.42" |
| 133 | 75° 40' 50.88" | 36° 08' 00.02" | 183 | 75° 24' 16.34" | 36° 20' 32.35" |
| 134 | 75° 40' 45.73" | 36° 07' 49.08" | 184 | 75° 24' 09.11" | 36° 21' 04.07" |
| 135 | 75° 40' 35.47" | 36° 07' 43.93" | 185 | 75° 24' 12.89" | 36° 21' 17.89" |
| 136 | 75° 40' 12.97" | 36° 07' 43.32" | 186 | 75° 24' 33.80" | 36° 21' 50.83" |
| 137 | 75° 39' 53.06" | 36° 07' 46.52" | 187 | 75° 24' 54.90" | 36° 22' 15.31" |
| 138 | 75° 39' 33.16" | 36° 07' 45.23" | 188 | 75° 24' 54.07" | 36° 22' 42.35" |
| 139 | 75° 38' 38.54" | 36° 07' 34.32" | 189 | 75° 24' 49.00" | 36° 22' 53.29" |
| 140 | 75° 38' 22.49" | 36° 07' 26.62" | 190 | 75° 24' 45.61" | 36° 23' 11.83" |
| 141 | 75° 36' 09.18" | 36° 07' 14.41" | 191 | 75° 24' 26.17" | 36° 23' 27.42" |
| 142 | 75° 35' 15.86" | 36° 07' 13.76" | 192 | 75° 24' 21.85" | 36° 23' 50.75" |
| 143 | 75° 34' 37.96" | 36° 07' 21.47" | 193 | 75° 24' 17.96" | 36° 23' 58.96" |
| 144 | 75° 34' 00.05" | 36° 07' 38.82" | 194 | 75° 24' 18.40" | 36° 24' 12.78" |
| 145 | 75° 32' 11.15" | 36° 08' 16.73" | 195 | 75° 24' 05.44" | 36° 24' 20.56" |
| 146 | 75° 30' 58.54" | 36° 08' 28.93" | 196 | 75° 23' 58.52" | 36° 24' 42.59" |
| 147 | 75° 30' 41.83" | 36° 08' 28.93" | 197 | 75° 23' 26.52" | 36° 25' 12.43" |
| 148 | 75° 30' 20.63" | 36° 08' 33.43" | 198 | 75° 23' 02.76" | 36° 25' 27.98" |
| 149 | 75° 29' 51.72" | 36° 08' 33.43" | 199 | 75° 22' 58.08" | 36° 25' 32.74" |
| 150 | 75° 29' 12.55" | 36° 08' 41.14" | 200 | 75° 23' 13.52" | 36° 26' 03.34" |

Conclusion & Achievement



Conclusion and Achievement

- As the delineated boundary and GIS based notification were developed through a consensus, it tackles the major conflicting issues
- The boundary notification of KNP was approved by the ASCs and the Local Communities
- The GIS based notification of KNP was issued by the Govt. of Gilgit-Baltistan 30th April, 2010

Thank You