05/25

IMPERIAL COLLEGE

SHAR KANGSUM 2005

EXPEDITION REPORT

MOUNT EVEREST FOUNDATION

Imperial College

SHAR KANGSUM 2005

Expedition Report

[illegible]

[illegible]

[illegible]

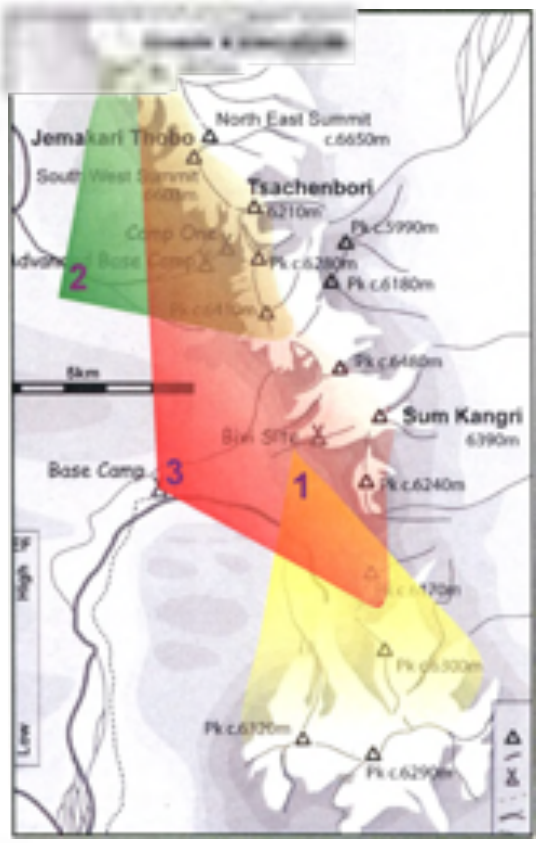
PANORAMA PHOTOS SHOWING THE RELATIVE POSITION OF PEAKS IN THE SHAR KANGELIM RA

Panorama 1. View to the south of Sum Kangri. Taken from the access on the lower part of the mountain

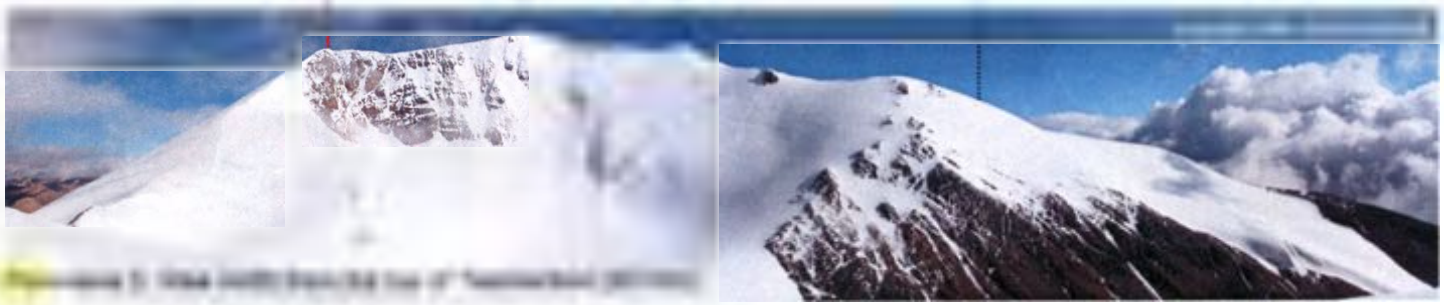
Panorama 2. Looking east from the approach to Advanced Base Camp

Panorama 3. View east from base camp. The top of Shar Kangpum can be seen on the far left of the panorama, pa

Copyright 2006, Daniel Carrivick

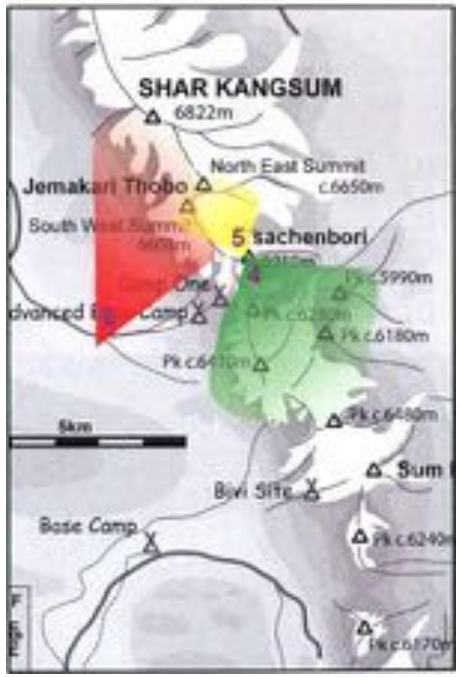

Jemakari Thobo
North East Summit
c.6650m
Tsachenbori
6210m
Pk.c.5990m
Pk.c.6280m
Pk.c.6180m
Pk.c.6460m
Sum Kangri
6390m
Base Camp
Pk.c.6240m
Pk.c.6290m
5km
1
2
3

Copyright 2006, Daniel Carrivick



Panorama 6. View north east from the approach to Advanced Base Camp.

Sketch map showing where and which direction panoramas were taken, along with the area encompassed by each.



PEOPLE

Contents

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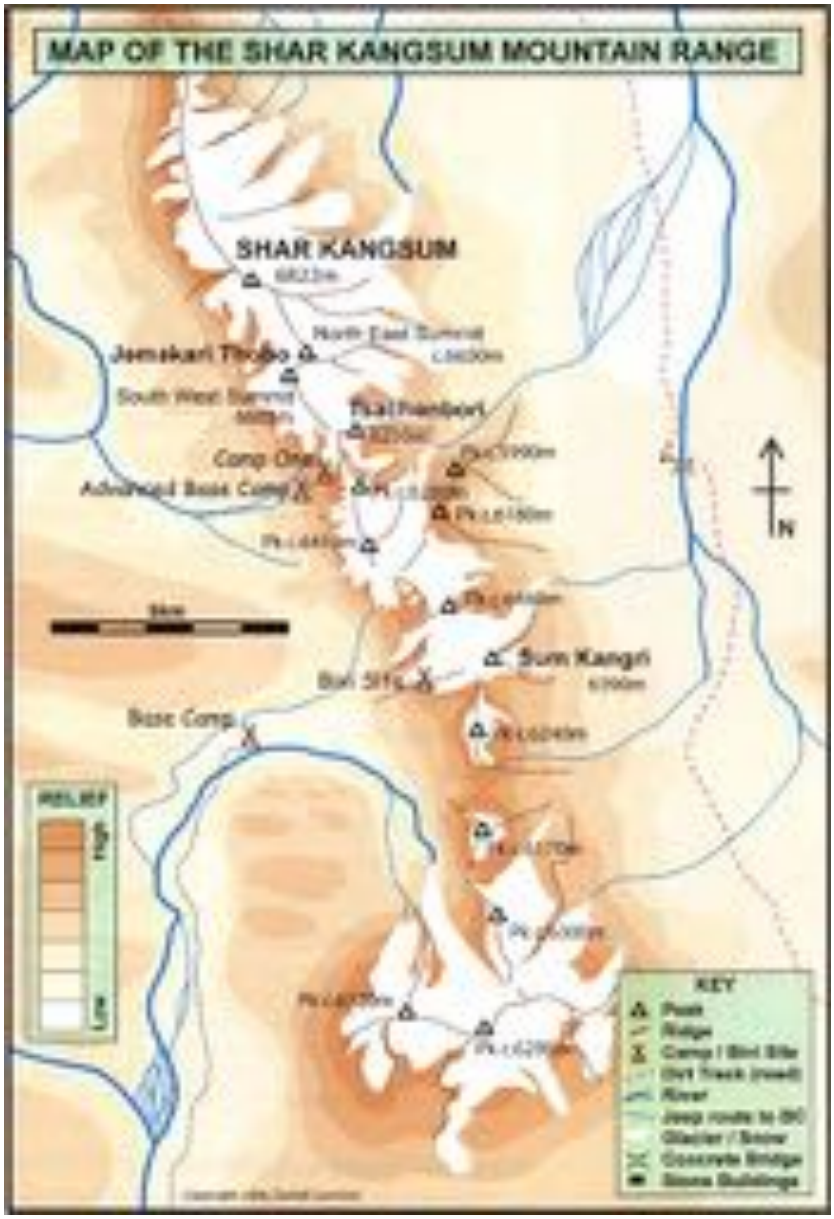
[illegible] iv
[illegible] 69
[illegible] 69

SUMMARY

INTRODUCTION



EXPEDITION MEMBERS

[illegible]

Daniel Cantwell

[illegible]

[illegible]

[illegible]

ACADEMIC STATUS

- [illegible]
- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

OTHER INTERESTS & ACHIEVEMENTS

- [illegible]
- [illegible]
- [illegible]
- [illegible]

Benjamin Gready

[illegible]

[illegible]

[illegible]

ACADEMIC STATUS

- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]

OTHER INTERESTS & ACHIEVEMENTS

- [illegible]
- [illegible]

Joseph Johnstone

Naomi Bensley

MOUNTAINEERING REPORT

Summary

Background Information

Previous Visits & Ascents

Access & Base Camp

High Camps

Mountain Weather

Acclimatisation

Attempts on Mountains

[illegible]

[illegible]

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TIBET 2005

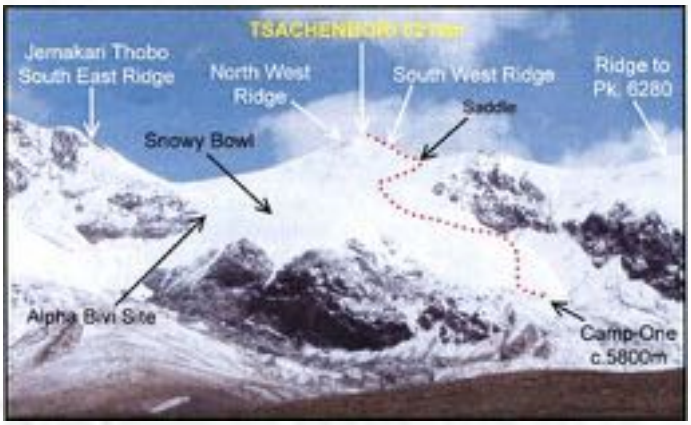

TSACHENBORO (?) Ridge
Jernakari Thobo
South East Ridge
North West
Ridge
South West Ridge
Saddle
Ridge to
Pk. 6280
Snowy Bowl
Alpha Bivi Site
Camp One
c.5800m

Fig. 2 [illegible]

[illegible]

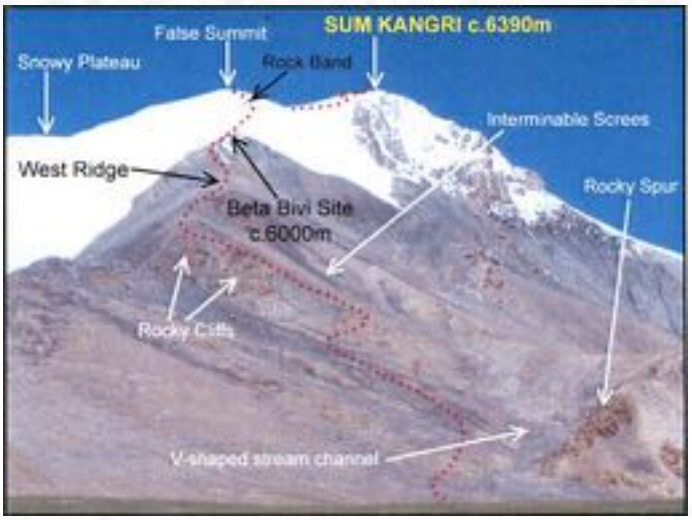
IMPERIAL COLLEGE SHAR

TIBET 2005

[illegible]

[illegible]

[illegible]


SUM KANGRI c.6390m
False Summit
Snowy Plateau
Rock Band
Interminable Screes
West Ridge
Rocky Spur
Beta Bivi Site
c.6000m
Rocky Cliffs
V-shaped stream channel

Other Peaks in the Range

Pk.6280 - 6280m (20,600ft)

SUMMIT STATS

Location: [illegible]
Height: [illegible]
Status: [illegible]

POSSIBLE ROUTES

[illegible]

The best way of attempting the mountain is thought to be along its north ridge. The north ridge can be gained by ascending a long gully in the vicinity of Pk.6410 and by the southernmost of Pk.6480's three ridges on the east side of the range. From there the long and exposed ridge leads up to Pk.6280. The ridge is predominantly snowy although rock, or rock covered glacier, ice crops up in places. The gradient of the ridge increases towards the summit (see fig. 4).

A more challenging line of ascent is up the east ridge which is centred at 50% that degrees and the gradient is sustained throughout. This provides perhaps the shortest route to the summit but considerably more rock than the first of the ridge where the crest is rocky and steep, some patches ice in certain and. Above this snowy ridge becomes more straight forward but the gradient remains steep.

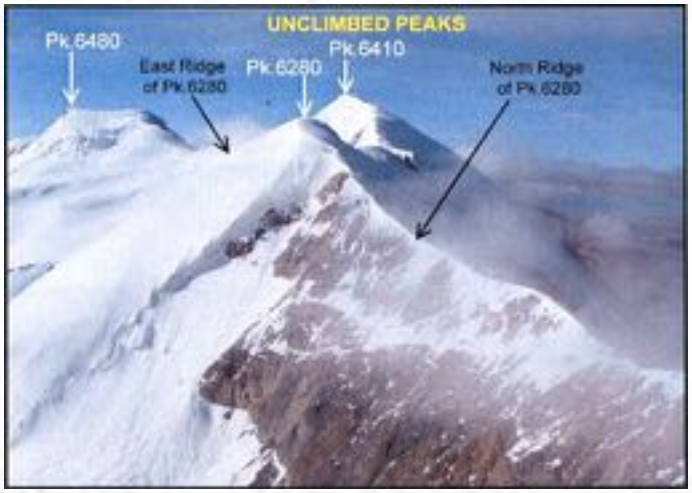


Fig 4. [illegible]

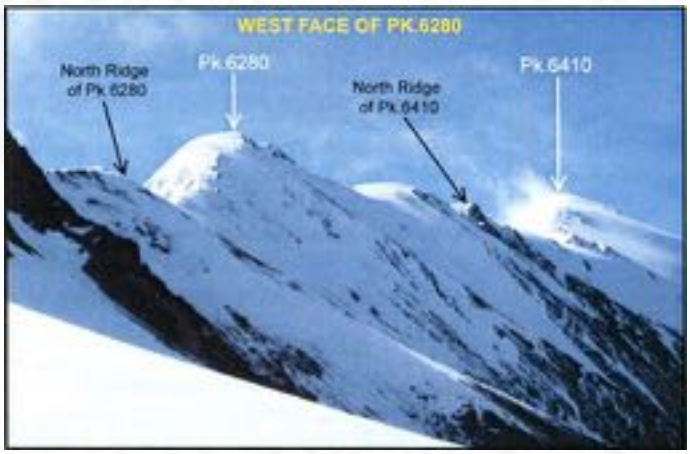
Pk.6410 - 6410m (21,000ft)

SUMMIT STATS

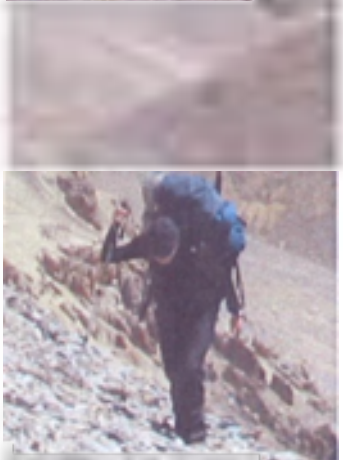
Location: [illegible]
Height: [illegible]
Status: [illegible]

POSSIBLE ROUTES

[illegible]


WEST FACE OF PK.6280
North Ridge of Pk.6280
Pk.6280
North Ridge of Pk.6410
Pk.6410

SOUTH FACE OF PK.6480
West Top
Pk.6480
Main Summit



CENTRAL PART OF THE RANGE

Pk.6240 Summit Data

Location: [illegible]
Height: [illegible]
Status: [illegible]

Pk.6170 Summit Data

Location: [illegible]
Height: [illegible]
Status: [illegible]

INFORMATION

[illegible]

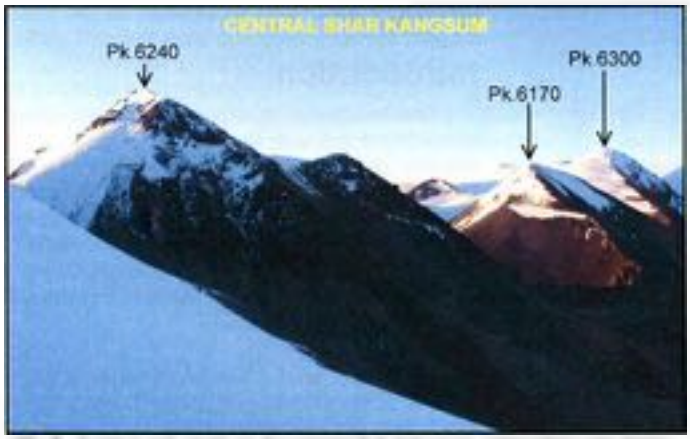


Fig. 7. [illegible]

SOUTHERN PART OF THE RANGE

Pk.6300 Summit Data

Location: [illegible]
Height: [illegible]
Status: [illegible]

Pk.6290 Summit Data

Location: [illegible]
Height: [illegible]
Status: [illegible]

Pk.6320 Summit Data

Location: [illegible]
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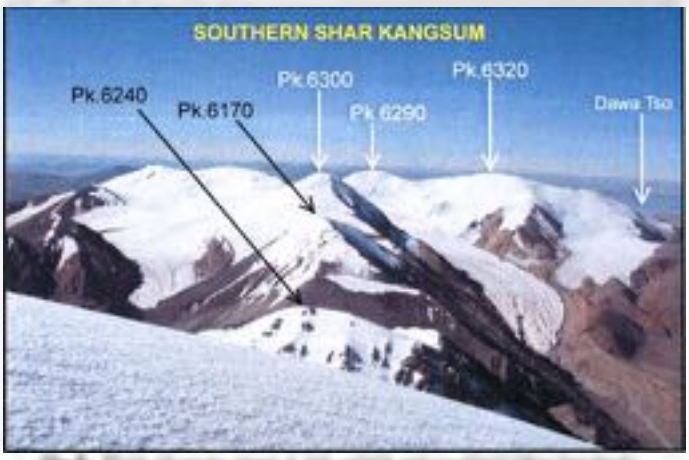


Fig. 8. [illegible]

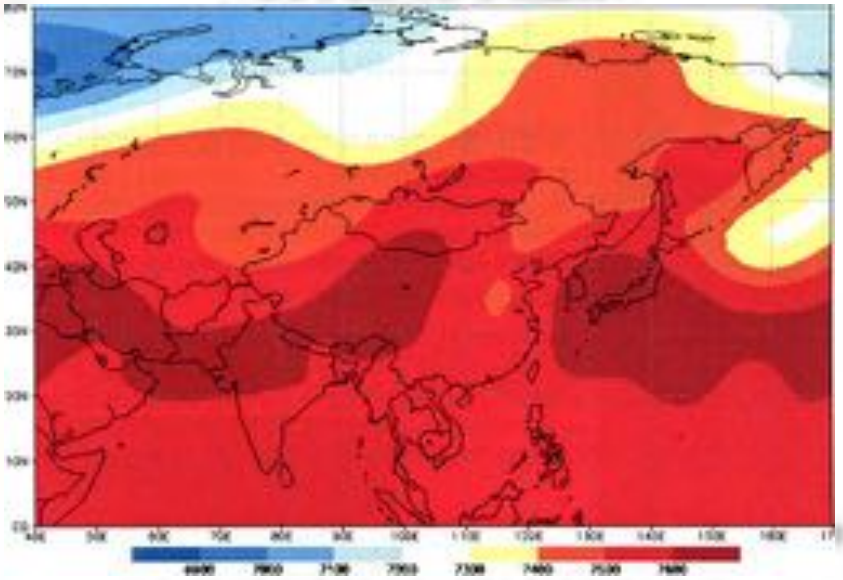
INTRODUCTION

[illegible]

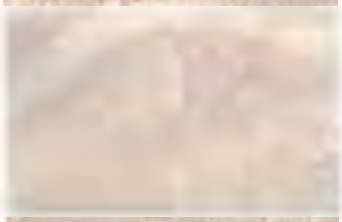
SCIENTIFIC RESEARCH

Outline

Introduction



Background



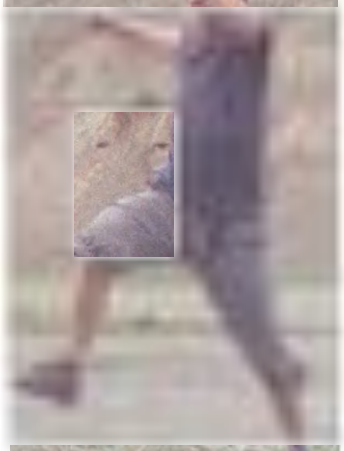
Methods

Discussion

Diurnal Variability

Synoptic Variability

Long-Term Changes



ADMINISTRATION & LOGISTICS

[illegible]

Research Materials

MAPS

[illegible]

AIR PHOTOS & SATELLITE IMAGES

[illegible]

Training

SURVEY MOUNTAINEERING

[illegible]

GENERAL FITNESS

[illegible]

Permission & Permits

MOUNTAINEERING PERMIT

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
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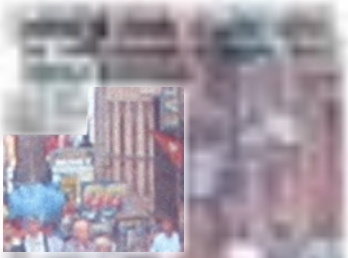
Fund Raising

[illegible]

[illegible]



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Finances

Expedition Account

[illegible]

Operations

[illegible]

Summary

[illegible]

Insurance

Policy

[illegible]

Experiences

[illegible]

OTA
282

Below & insert: Ben and Joe sorting out their food for the mountain.

Food

[redacted]

[redacted]

[redacted]

Accommodation

Camping & Base Camp

[illegible]

Communications

The Expedition

Contacting Home

Satellite Phone

Above & insert: Joe, wearing his down jacket, is disgusted at Bens attempt at making mash having been looking forward to it all week.

Clothing & Equipment

[illegible]

[illegible]

[illegible]

NAVIGATION

[illegible]

SLEEPING

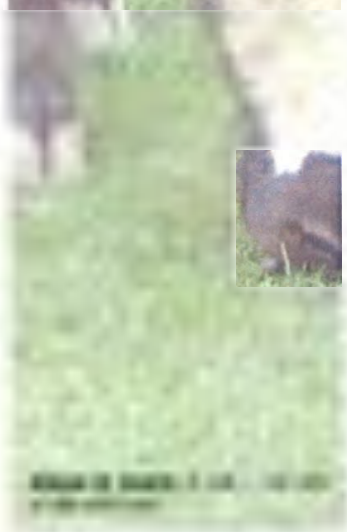
[illegible]

TENTS & BIVI BAGS

[illegible]

COOKING EQUIPMENT

[illegible]



[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

Medical Issues

Environmental Impact

Photography

DIGITAL CAMERA

Below & insert: Spectacular waterfalls in Nepal nearing the Tibetan border.
Bottom right: Stopped on a high 5000m pass covered with prayer flags on the Tibetan plateau.

DIARY

Thursday 14th July – Leaving London

Friday 15th July - Arriving in Kathmandu

Saturday 16th July - First Taste of Kathmandu

Sunday 17th July – Dealing with Formalities

Monday 18th July – Shopping for Supplies

Tuesday 19th July – Crossing the Border

Below & insert: Ang Kami takes down one of the flooded tents while Rajkumar tries to retrieve the pegs.

Wednesday 20th July - The Flood

Thursday 21st July – Drying Out

Friday 22nd July – Journeying Northwards

Saturday 23rd July – Camp Rosario

Sunday 24th July – Setting up Base Camp

Monday 23rd July – Acclimatising at Base Camp

[illegible]

Tuesday 24th July – Reconnaissance

[illegible]

Wednesday 27th July – Ferrying Loads

[illegible]

Thursday 28th July – Moving above Base Camp

[illegible]

Friday 29th July – No way up

[illegible]

Saturday 30th July – Setting up ABC

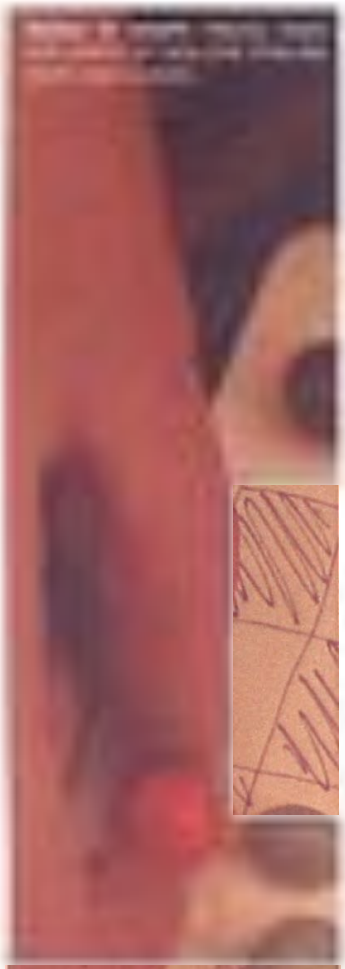
[illegible]

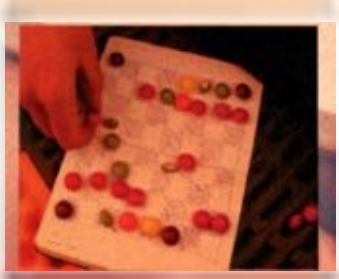
Sunday 31st July – Reaching the Snow Line

[illegible]

Monday 1st August – Preparation for a Summit Bid

[illegible]

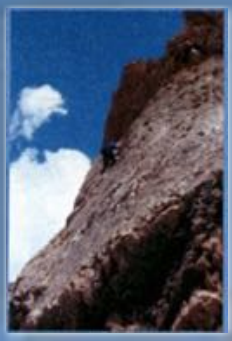




Tuesday 2nd August – Stormbound

Wednesday 3rd August – Supplies Run Low

Thursday 4th August – Back to Base Camp



Friday 8th August – Washing and Resting

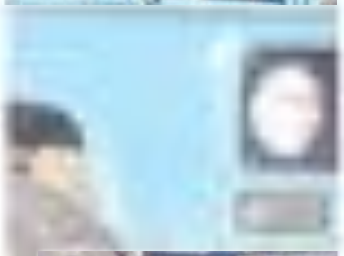
Saturday 9th August – Re-stocking ABC

Sunday 1st August – Up to Camp One

Monday 8th August – Summit Bid

Tuesday 9th August – No Time for a Rest

Wednesday 10th August – Reaching the high point



Thursday 11th August – Back on the Road

Friday 12th August – Journey to Lhasa

Saturday 13th August – Monastery Tour in Shigatse

Sunday 14th August – Visit to the Gyantse Kumbum

Monday 15th August – Arriving in Lhasa

Tuesday 16th August – Sightseeing in Lhasa

Wednesday 17th August – Visit to the Jokhang Temple

Thursday 18th August – Potala Palace Visit

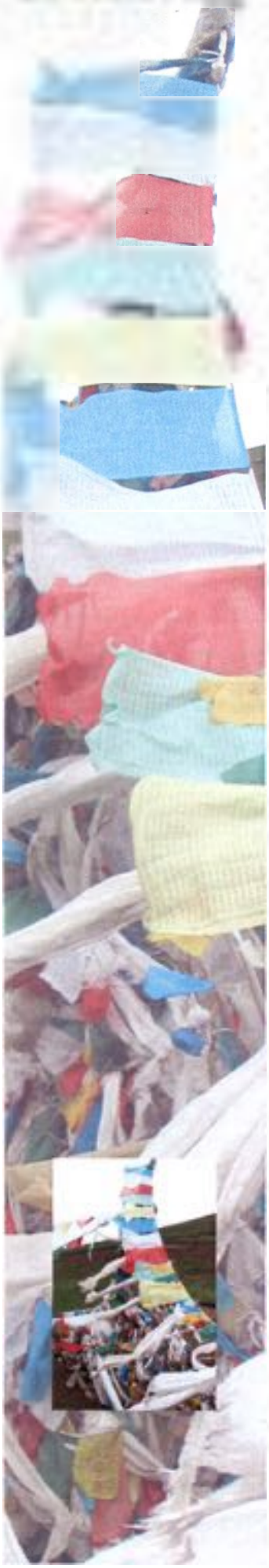
Friday 19th August – The Friendship Highway

Saturday 20th August – Shopping in Tingri

Sunday 21st August – Back in Nepal

Monday 22nd August – Celebratory Meal

Tuesday 23rd August – Souvenir Shopping



Wednesday 24th August – Flying Home

CONCLUSION

ACKNOWLEDGEMENTS

APPENDICES

APPENDIX A - Equipment List

[illegible]

[illegible]

[illegible]

APPENDIX B – Clothing List

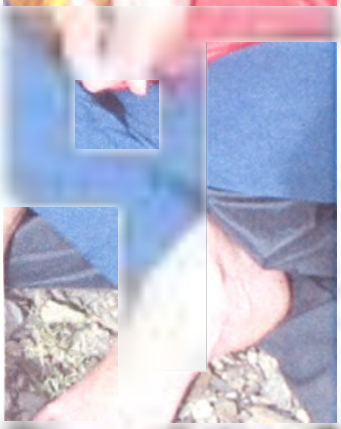
MOUNTAIN CLOTHING LIST

LAYERING (KIT LIST)

Above & insert: The contents of our first aid kit taken to Tibet.

APPENDIX C – First Aid Kits

APPENDIX D – Food



MPEARIAL COLLEGE SHAR

APPENDIX E – Finance

APPENDIX F – GPS Data

Table F1 shows the location and elevation of specific places visited on the expedition. These points were recorded by navigating using a GPS and the measurements are considered fairly complete and accurate. Unfortunately one fairly accurate but at least within plus or minus one second. The accuracy of elevations on the other hand is a lot less well known. Some points may be overestimated by as much as 100m.

TABLE F1: GPS POINTS RECORDED DURING THE EXPEDITION

APPENDIX Q – Meteorological Data

[illegible]

Table Q1 contains the original meteorological data collected during the expedition. This is not intended for scientific use in a formal presentation to prove what the weather was like during the expedition. The precision shown is that registered using an alternate watch calibrated at a high peak before any measurements were recorded. The watch was then subsequently re-calibrated on all readings are relative to the initial recording and therefore predicted changes associated with high and low pressure weather systems. The column labelled 'elevation (cm)' shows the altitude where that high was spot checked the following morning. Alternative two altitude measures in the evening of where that night was going to be spent as shown in the elevation (cm) column. Hence differences between the evening recording of one day and the morning recording of the subsequent day are due to changes in the elevation of rest level. The high point reached has been included which helps to give an idea of our acclimatisation profile. The air temperature data has been provided in °C and the applicable columns show the time the data recorded, whether it was recorded using a watch or a thermometer and whether the data recorded inside or outside.

The thermometer used was a small blue bag mercury thermometer which had markings every 0.5 while the altitude watch provided a digital display to the nearest 0.1. Readings were taken both in the elevation watch which is not hung with one arm, at time was chosen to both the users and the thermometer to reduce the amount temperature reading which outside occur in the shade, which those times in the sun were made the time in the sun. [illegible] to give one as idea of what hung conditions were like inside the tent.

Table Q1 Meteorological measurements made during the expedition.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Above & insert: Naomi eating hot soup having cooked in the porch of the tent as the storm rages outside at Camp One...

APPENDIX H – Risk Assessment

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]			
[illegible]			
[illegible]			

ADDRESS LIST

EXPEDITION LEADERS – [illegible]

[illegible]

[illegible]

PLANNING – [illegible]

Archive Materials

[illegible]

MAPS & GUIDES – [illegible]

Distribution

[illegible]

BIBLIOGRAPHY

BOOKS

[illegible] **Lonely Planet** – **Nepal** [illegible]

[illegible] **Lonely Planet** – **Tibet** [illegible]

MAPS

Nepal – [illegible]

Russian Topographic Map – [illegible]

Tibet Autonomous Region – [illegible]

DISTRIBUTION LIST

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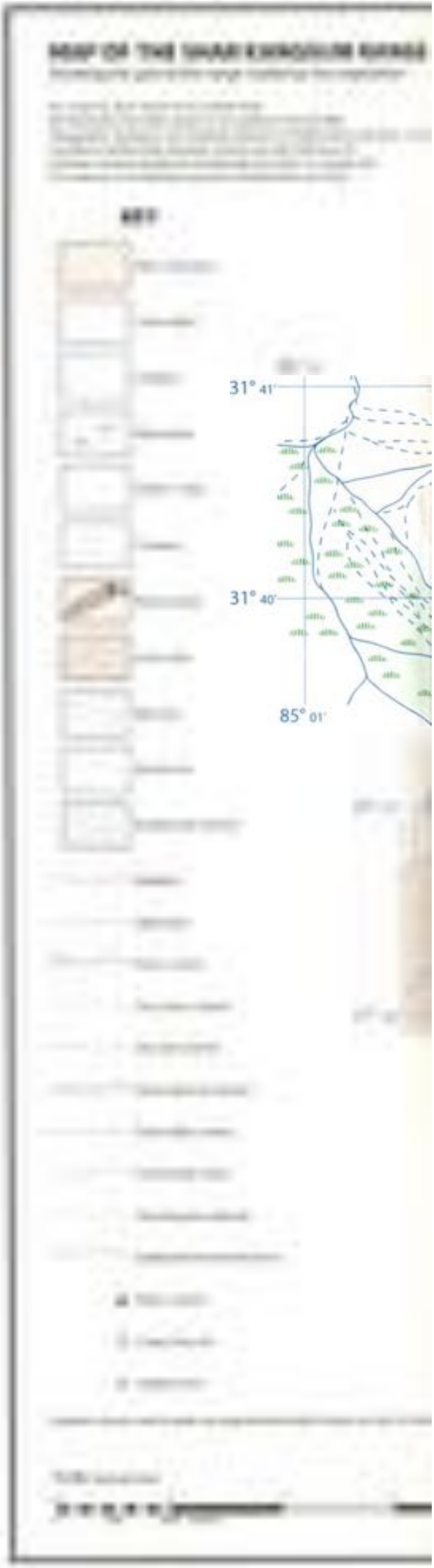
31° 41'
31° 40'
85° 01'

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This report is copyright and no part of it may be reproduced, stored in a retrieval system, and no part of the video, except for the purpose of personal and private research, all other rights reserved.