Contents: October 1979

Volume LII Number 1

- Jovian atmospherics
  Photographic study from Voyager 2
  Peter Francis 105

- North of the Altar line
  Turkish part of Cyprus
  Russell King 117

- Eternal problems in the Highlands
  Land of the Scots, 6
  David Turnock 125

- Caravan route to the Muztagh
  Karakoram
  Through the Nubra valley
  Edward F. Noack 132

- This is Indian country
  Fashioning the American landscape, 2
  Karl W. Butzer 140

- Dam troubles in Zululand
  Mismanagement in a water-rich country
  Jane Taylor 149

- THE POSSIBLE DREAM
  Mandu - erstwhile Indian City of Joy
  Allan Stacey 154

- Geography at Birmingham
  Growth of a department
  Iain Bain 156

- Reviews and News
  162

Contents: December 1979

Volume LII Number 3

- Icebergs are a frozen asset
  Fresh water from the Antarctic
  John M. Reynolds 177

- Italian cuisine is individual
  Flavours of regional tradition
  Anna John 186

- Specialist volunteers
  Twenty-one years of VSO
  Charles Piggott 192

- France in the Caribbean
  Guadeloupe and Martinique
  Philip Ogden 197

- Spanish roots in the Borderlands
  Fashioning the American Landscape, 3
  Richard L. Nostrand 203

- Industrial fortunes and misfortunes
  Land of the Scots, 7
  Ian H. Adams 210

- Apa Tani tribe on the road to prosperity
  Confident people in the Himalayas
  Christoph von Führer-Haimendorf 216
On the upper part of the former Central Asian Caravan Route between Chinese Turkestan and India lies Nubra, a forbidden land close to a sensitive frontier. After two years of negotiation E. F. Noack was allowed to visit this area. Here, he describes his journey and its rewards.

Our Ladakhi driver had travelled the old Central Asian Caravan Road between Chinese Turkestan and India so often that he knew every bend and dip of it. We were on the famous trade route at daybreak in late August headed for the upper Nubra Valley and the Muztagh Karakoram not far from the Sinkiang Frontier of Chinese Turkestan. There were nine in our group including my family, our liaison official and linguist, our cook and bearer.

While climbing a steep, sinuous hill track to Khardung La, 5611 metres above sea level and the first lofty pass of seven between Leh in Ladakh and Yarkand in Sinkiang, we were confronted with a huge boulder slide which blocked our way. Two years of planning and meetings in Delhi and Srinagar with India’s officialdom including the Prime Minister and her staff, which eventually produced permits to enter Nubra’s restricted areas, seemed fruitless. Our driver scurried off on foot towards the pass apparently hoping to find a sentry at his nearby outpost. Two hours later he returned with a large military road crew who had been at work nearby. With brute force and a measure of skill they soon provided a passable opening and we were able to continue.

Khardung Pass crosses the Ladakh Range through a snowfield and glacier that extends several hundred metres into the Shyok-Nubra highlands. The view ahead was remarkable and it was amazing to see the vast extent of the Shyok-Nubra watershed realm and the magnificent heights of snow-bound Karakoram-Himalaya rising precipitously above the river valleys. In the distance we identified the white icy massif of Saser-Kangri, 7672 metres, not far from our planned base camp at the lonely village of Panamik. Khardung was one of the three dreaded passes of seven crossed by Central Asian caravans.
During the Last Ice Age the Siachen Glacier covered the entire Nubra Valley to a depth of 1220 metres and left evidences of its existence on canyon walls high above the valley plain. The lower Nubra valley is a network of streams and quicksands.

Descending and driving rapidly past several and glaciers and into a luxuriant growth of vegetation, including alpine wild flowers, we entered a rimmed defile which emptied into the turbulent Shyok River. Every furtive fan and delta, deposited over the canyon floor by a glacial stream discharging through a rocky cleft in the Om Karakoram, is a masterpiece of agricultural cultivation by native villagers using crude hand implements. Following along the Shyok's left bank for six kilometres we came to the Tiriki cable suspension bridge built by the Indian Army to span the fast flowing river and replace a similar structure of an earlier vintage that had been washed away by flood waters in 1926. Kumand Glacier in the Muztagh had advanced across the upper Shyok Valley forming an ice dam which burst and released the impounded water down river for 480 kilometres wiping out villages, farmlands and bridges, inundating Nubra Valley up to Panamik where several caravans were destroyed.

After crossing the dubious structure spanning the raging Shyok at flood stage, the road ended and we were forced to follow the caravan track marked by shallow gullies set up at intervals through a flooded plain near the confluence of the Shyok and Nubra Rivers. Without warning we plunged into a deep channel but our course had again proved his worth and we were soon back on dry land. Our surroundings convinced us that we had arrived in a strange new world - vast distances, snow-peaks, unusual vegetation and people with a tendency towards Mongol features. Some stared at us with apparent fear in their eyes. Soon a long mule post wall, appeared, indicating that we were still on the land of the Lama. Carved prayer stones coving its surface and a stately crenelation at each end mean that you can pass with the wall on your right to gain credit for your rebirth. The magical Tibetan prayer 'Om Mani Padme Hum' is repeated, over and over, on every carved stone.

Summer, a former small village and caravan camping ground was soon seen. Only at the mouths of ravines, on the fans and deltas of fertile soil, brought down by glacial melt, do these widely scattered hamlets exist. Perched upon a cliff, high above the few stone and mud dwellings of the inhabitants, is the imposing Samantling Lamasery, by far the largest, oldest and grandest sanctuary in the remote Nubra Valley of the yellow hat sect of Tibetan Buddhism. Tibet formerly extended into what is now Ladakh and even into adjoining Baltistan. Nubra once played an important role in the commerce and trade between Lhasa in Tibet and the west and although this intercourse exists it has diminished greatly.

The head Lama of Samantling offered greetings with the usual salutation, 'Jooley', the equivalent of 'good day'. He led us through Samantling's innermost sanctuary, chapels and altars, with intricate carvings on wooden beams, columns and wall panels portraying painted images of gods, demons and animals. Each and every true believer is urged to become thoroughly familiar with the ritual creatures he is destined to meet as he wander through the path of transmigration, after death, towards attainment of Nirvana. The painted images on the walls, the mysterious darkness of the chapel with its shadows of devils and demons and the strong aroma of burning smokes have a restraining influence on pious believers entering through the sanctuary.

Reluctantly, we hastened onward to set up base camp thirty-two kilometres ahead at Panamik, where the true wilderness of the ice-bound Muztagh Karakoram begins. Beyond, the snow fields and glaciers of the Saser are reached and the caravan trail takes on the appearance of a path of death, strewn with the bleached carcasses of yaks, ponies and camels, partly exposed above the snow where they fell, exhausted, in the thin air of extreme altitude. From Panamik it was eighteen days march at high altitude and in biting cold to the next habitation in Sinkiang, China, and twenty-six days to Yarkand. It was the closings of these frontier passes that ended the caravan trade.

Charan, a stately and ancient hamlet, appeared across the Nubra River a short distance away. Its small populace lives on a gigantic, isolated boulder near the river's bank. The enormous boulder is known as a 'roche moutonée' - a relic of the last ice age. Our liaison official informed us that, in the dim past, the village was an important centre where the hereditary rulers of Nubra lived. An ancient lamasery stands at the highest level and this was a former palace of the nobility.

The great Siachen Glacier covered the Nubra Valley to a depth of 1220 metres and extended from near Mt Godwin-Austen in the Muztagh Karakoram down the Nubra Valley to its junction with the Shyok River - about 160 kilometres. Subsequent melting has reduced the Siachen to seventy-seven kilometres of slowly moving ice but it is still the largest glacier outside Polar Areas. All around us there was evidence of this formidable ice mass, left after the retreat of the last great Ice Age which extended over Central Asia to the latitude of Kashmir - lateral moraines, grooved and polished boulders and striated canyon walls.

The following morning we met the Amban, village headman, who led us through Panamik, the most northerly point of Nubra if not the whole of Ladakh. It was a small delightful village resembling one of the tiny farmsteads...
Samstanling (left) in Nubra's most famous Lamastery. Formally a part of eastern Tibet, and still populated largely by Tibetans, Nubra Valley and its Lamasthens remain under the influence of Tibetan culture and commerce. (Below left) Arrival of the Nubra party was heralded by two musicians. The wistful, resonant sounds only added to the exotic atmosphere generated in the monastery by burning incense, dark beer, and religious carvings. Golden Buddha image was one of many objects of religious art which decorate the interior of the Lamastery. Kitchen (below) is situated in a separate building in the Lamastery compound. Only monks participate in the preparation of meals in kitchen which dates back.
The gorge was convincing enough to rule out any possibility of making a way upstream by a succession of ledges. We had no time to await the autumn freeze more than a month ahead and could not negotiate the almost vertical stony walls leading up to Siachen's terminal moraine only twenty-nine kilometres away. This discovery was utterly discouraging but we were rewarded by the magnificent panorama through the gorge and into the lowering heights of the Muztagh. However, from contour maps of the Karakorams we had discovered an alternative approach via the canyon's east flank above Panamik to a ridge at an elevation of 5500 metres.

Our early morning climb started with great anticipation. On reaching the ridge the view was breathtaking. Peaks, pinnacles and icebound vales of the Saltoro Range appeared endless as we gazed in amazement over the western horizon. The true Muztagh Karakoram with its many 8000-metre heights, of which we had only a limited glimpse from Sassoma, stood out in bold relief in the northern sector under bright midday sunlight. While 7622-metre Saser Kangri on the eastern flank was only sixteen kilometres away, a view of its massive ice-bound summit was obstructed by a stony rim only 100 metres away. Although snow and below-freezing weather set in for the night and had not abated by morning we had not been defeated for we had explored the entire fascinating Nubra Valley to its northernmost extremity - a rare privilege in a lonely and forbidden sector of high Asia.