

China (Yunnan) - A Plant-hunter's Paradise

Naturetrek Tour Report

25 May - 12 June 2013

Report compiled by John Shipton



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Participants:	Vicki Syme
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Summary

The plants and country were as wonderful as ever in this small corner of the eastern edge of the Himalayas - the land of the three great rivers. This year there was hardly any snow which normally falls on the Zhongdian plateau and little if any rain in the early part of the year, however thankfully a few weeks before we arrived precipitation arrived both here and around Lijiang. The result was that what we saw this year differed considerably from last and previous years with a weather pattern making plants much later than normal. However we captured most of the highlights of previous years even though some species hadn't really got going but others flourished in abundance, notably Rhododendrons which on our journey this year were quite stunning, producing rivers of colour down the mountain sides. As last year we were accompanied by the incomparable and indefatigable Gonpo, the best companion anyone could want, who arranged practicalities of accommodation and food to perfection. Yet again the great Nongbu from Geza drove us brilliantly as ever along with a new member to the team Ashin from Zhongdian. The boys' zeal for plant hunting sometimes exceeded our own, finding many new sites and it was sometimes hard to drag them away from some of the wonders.

Day 1

Saturday 25th May

Group leave UK and Australia on various flights.

Day 2

Sunday 26th May

Kunming

The group arrived on the flight from Hong Kong and Vicki from Bangkok. We repaired in taxis to Grand Park Hotel and then to the finest little restaurant for our first meal together followed by a walk through Cue Hu (Green Lake) to the Mandarin Bookshop.

Day 3

Monday 27th May

Kunming – Lijiang

We returned to the airport in taxis for our flight to Lijiang. Here Gonpo met us with our two temporary drivers, charming Naxi ladies both called Xiao He.

We drive to our guesthouse in Shu He a satellite of Lijiang dolled up for the burgeoning Chinese tourist trade but a lot more peaceful than Lijiang town centre. After ceremonial tea with Mr Wang He the manager we had lunch in a restaurant and drove out to Yuhu, the Naxi village under Yulongxuesha inhabited once by Mr Rock botanist and Naxi champion of the 1920's. On getting there the burning sun disappeared and rain came down, but the mountain remained clear. Our normal walk across the meadow was curtailed and we had to shelter under a bridge. At the start we had our first *Arisama consanguineum*, *Roscoe humeana* and the *Stellera chaemejasme*. Instead of carrying on to the gulley we turned back and got to the artificial lake above the village surrounded by huge *Acer caudatum* where we found our first *Primula poissonii*, *Thalictrum delavayii* and much else, before returning to Shu He for dinner.

Day 4

Tuesday 28th May

Wei Bang Sun had arranged for us to be met by a Dr Wu to accompany us up the mountainside to Wan Hai and the Lijiang reserve. As we rode the 500m above the Lijiang plain we were met by banks of *Rhododendron decorum* and *R. yunnanense* in full flower and on turning up the track to the reserve, on the pass above Wan Hai village we came across sheets of *Roscoe cauteloides* both yellow and purple forms which certainly hadn't been there last year, interspersed with the diminutive *Iris collettii*. Dr Wu joined us in examining plants on the way to the reserve. At the entrance buildings above the redundant reservoir we had a picnic and Dr Wu showed us greenhouses and plant projects including his 100 species *Primula* collection from all over the Hengduan mountains.

After lunch we explored the meadows next to the reservoir before driving back down to the Lijiang plain. On the way we explored the wonderful high meadow before the descent where we found our *Primula beesiana* in full flower. Dr Wu wants to convince the botanical world that this is a separate species from the orange flowering *P. bulleyana* and I think I agree. After a visit to an embroidery workshop we returned to the smiling Wang He and his tea and another fine Gonpo-arranged dinner.

Day 5

Wednesday 29th May

Driven by the two lovely Xiao He's in their mini-vans we headed north round the eastern flanks of Yulong Xue Shan. After the usual palaver with entering the so called "park" (which we are not really involved with but passing through to Daju on the banks of the Yangtse) involving passports and money and stern officials, we soon climbed up to the woodlands above the Dong Ba limestone gorge and was happy to see again a massive display of *Roscoe cauteloides*, absent last year with the lack of rain. Here Vicki made a new find of the slipper orchid *Cypripedium plectrochilum*. On a descent a little way into the gorge I found the orchids *Herminium ophioglossoides* and *Pleione limprichtii* interspersed with *Primula forrestii* in flower. Further on we came to a halt for a group of *Hemerocallis forrestii* in full flower backed by more *Roscoe cauteloides* interspersed with *R. humeana*. Over the pass we arrived at the new tourist complex of monstrous Disney style blocks and golf courses which has wrecked the once pristine meadows of a few years ago, but we had to stop for our first *Incarvillea mairei*. Round two ridges we arrived at my *Primula bulleyana* stop. Last year I was horrified to find a machine had levelled the meadow but I was pleased to find that the site seemed to have been again abandoned and *P. bulleyana* making a valiant comeback. Not only that but the little patch of *Calanthe tricarinata* had reappeared and even joined by *Cephalanthera longifolia*. Below the road above the tiny hamlet the *Benthmidia (Cornus) capitata* was in full flower.

After the cable car we stopped for our picnic in a bank meadow full of plants. Vicky found our first *Arisaema elephas*, and Jane our first *Cyanoglossum triste* amongst a wealth of tree, shrub and herbaceous species. We carried on up to the last pass before the 1500m descent to the Yangtse. Here true to form the *Dipelta yunnanese* was in flower and the rich deep scarlet *Paeonia delavayii*. Before the final descent we found again my *Iris forrestii* meadow. The Iris had only just made a start and the *Primula poissonii* which covers the glade just waking up but there was a great display of *Salvia* spp. On a photograph stop to look over the mighty Yangtse on its course between Haba Shan and Yulongxue Shan below Tiger Leaping gorge we made a new plant find in *Arisaema yunnanensis*. We then descended 1000 metres into a different climate, warm and subtropical and found our little guesthouse. Greeted by Mr He and his family he reminded me that this was the fifth time I had been there. Nothing has changed in time, fish ponds, gardens of veg and flowers and beer on the veranda looking up the great gorge between the mountains in the sunset...

Day 6

Thursday 30th May

Daju to Zhongdian

We set off after breakfast for the 150m walk down to the Yangtse where the ferry barge was waiting, our luggage carried by Mr Xiao He, Mr He's son (all Naxi seem to be called He) and his mates. On the other side our drivers Nongbu and Ashin were waiting and helped us carry bags along the scrambly track above the river to the two 4x4's. We drove up the 1000m taking in the vista west towards Tiger Leaping Gorge with both 5000m mountains either side clear of cloud, before skirting the east side of Haba Shan passing the Muslim Hui village of Haba and then several Yi minority villages with the older ladies in their large square black hats.

We had an excellent lunch at Baishuitai where the *Itea yunnanensis* was flowering on its usual bank outside the eating house. Climbing over several passes, the masses of flowering Rhododendron appeared, *R. decorum*, *R. yunnanese* and the rich pink of *R. oreotrephes* being dominant. In forest at 3500m we found our first carpet of the pink *Androsace rigida* interspersed with many other herbaceous plants while above us the rich red flowers of the parasitic *Taxilus* hung from *Abies*, *Picea* *Acer* and other forest trees. Reaching the pass that heralded the beginning of the Zhongdian plateau we wandered through the purple flowering upland shrub Rhodis, attempting to pin them down. But it was getting late and cold so we drove on to Zhongdian, through the Shrangrila meadows of the plateau and passed the villages with the gorgeously ornamented pillared houses of the Gyalthag Tibetans. On the eastern approaches to town the Primulas, Iris and *Incarvillea*, which in the past carpeted the moist meadows at this time of year, had not yet appeared in their profusion. We had hot showers and soft beds in the new hotel just opened by the old town, and a splendid Tibetan meal at the Potala restaurant welcomed us to our first night in Gyalthag/Zhongdian.

Day 7

Friday 31st May

Tian Chi

The boys picked us up in the morning and we drove half an hour south to Xiaozhongdian past the meadows covered with Euphorbia, before turning west toward the hills containing the sacred lake of Tian Chi. My worries about the tardiness of plants on the plateau were soon put to rest on our first stops. Before climbing into the hills we found the great slipper orchid *Cypripedium flavum* in flower and plenty of *Incarvillea zhogdianensis* to go with lots of other plants.

Then at the first transhumant meadow, we wandered through the habitual carpet of *Primula sikkimensis* and *P.secundiflora* even finding a white form of the latter. In the same valley we found a bank of the gorgeous *Adonis davidii* and under the limestone rocks our first blue poppy the Shangri La resident now classed as *Meconopsis prattii*.

The road up to Tian Chi came up trumps with flowers beyond expectations. Great stands of the massive purple *Primula chionantha* var *sinopurpurea* (strange that on the other side of the valley the *P.chionantha* is all white), the valley carpeted with *Adonis davidii* and a river of purple *Primula deflexa* greeted us as we climbed, and just beyond the upper transhumant settlement with their smiling friendly inhabitants *Rhododendron wardii* just coming into flower.

We arrived finally for our picnic beside the ethereal Tian Chi, surrounded by a carpet of *Primula amethystina* under *Rhododendron phaeochrysum* in full flower. Leaving Patrick meditating the rest of us made our kora around the lake. Some of the Primulas hadn't yet emerged and it was far too early for the great *Megacodon* but Elaine found the mysterious mandrake, *M.caulsecens* and Vicky the holy grail - the dark lily *Lilium soulei*. With this we came down from paradise, buying honey on the way, and headed to a hot pot supper in Gyalthang.

Day 8

Saturday 1st June

Tin Bao Shan

Driving south again in the morning we turned east towards the range opposite yesterday. Having stopping to admire the monastery that guards the mountain we drove up the valley which I was pleased to find full of *Primula sikkimensis* and *P.secundiflora* in their usual partnership in the moist river plain. There too were the populations of *P.bulleyana*. These seem to be smaller, but just as pretty as our *P.bulleyana* on Yulongxueshan. A little higher up, the white flowered *Primula chionantha* began and was soon in profusion and to everyone's delight the *Podophyllum hexandrum*. This time we hit them at exactly the right moment, thousands of them in full flower far more than I've seen before, and we had our picnic with our view towards the massive limestone walls of Tienbao Shan.

After lunch we walked up the valley towards the mountain where Elaine in the lead came across great stands of the purple *Ompalogramma vinciflora*. Emerging onto the heavenly sun-drenched meadow directly under the limestone wall we found the family had just moved into their summer quarters. Gonpo and the family invited us into their cabin where they were as fascinated by us as we by them. Around the meadow the pink rhododendron which may be *R.davidsonianum* was in glorious flower, and across the stream before the yak tracks start climbing *R. wardii* was just getting going. After most of us climbed a few hundred metres, we wandered back through the elysian meadow, past pigs wandering through the *Polypodium* and *P.chionantha* leaving these wonders undisturbed. After the boys handed out tea we started back but first I had to make a stop to check for the little *Meconopsis forrestii*. Hunting through the *Euphorbia griffithii* sure enough Vicky and Elaine found small clumps of the little Blue Poppy.

Day 9

Sunday 2nd June

Napha Hai

Today there was a call for some cultural time and since Songtsam Monastery has been now thoroughly theme parked we opted for at least a market visit in the afternoon.

In the light of this I chose to take Napha Hai in reverse to normal. We crossed the plateau by the airport and skirted round the edge. The new road has changed the place radically, unfortunately destroying a lot of the botanical gems on the banks of the lake. My fears about the total disappearance of plants were soon allayed when on the limestone banks opposite Napha behind the depredations of large machinery we found masses of *Cypripedium* both the smaller *C. yunnanense* and *C. flavum*. Other plants had not really got going but the *Androsace spinulifera* was just starting and there was plenty of *Incarvillea zhongdianensis*.

Just past Napha village I stopped for the banks of *Primula polyneura* above the new road, and in the concrete gully Nongbu found a magnificent *Meconopsis prattii*. Finally having skirted around the lake we found plenty of the startling crimson red *Androsace bulleyana* on the limestone scree below the Nishi road. We then had our picnic at the bottom of the little limestone gorge leading to my "magic valley". The colours provided by the masses of *Pedicularis* spp mixed with *Primula*, *Anemone* and *Trollius* made it a delightful circular walk. The plants that were in full display provided plenty to admire, the *Euphorbia*, *Thalictrum delavayi*, and again absolutely masses of *Polypodium hexandrum*, various *Lonicera* spp.

At the pass above the villages overlooking the "lake" of Napha Hai the sun shone brilliantly as we paused beneath prayer flags on a carpet of *Erigeron multiradiatus*. Coming down in separate groups, the boys were waiting to take us to a central veg and meat market in Gyalthang, a fascinating and delightful place to wander. The weather broke in the evening and we needed umbrellas to reach an eating house, after which some of us visited a bar.

Day 10

Monday 3rd June

Zhongdian to Langdu

We set off leaving a damp Shangrila plateau heading north over the northern pass and down to Nongbu's village of Geza. Of course we are all invited into Nongbu's home. His mother was working in the fields when we arrived, but quickly downed tools and bringing Nongbu's niece put on the yak butter tea. We were given a tour of the just completed new house destined for Nongbu's brother's family and had tea and yak cheese in the pantry next door. Next, heading east, we climbed out of Geza stopping at the hot spring and at 3500m find our first *Meconopsis integrifolia* which caused much excitement. Higher up rain pelted down but the *Rhododendron phaeochrysum* started getting spectacular, rivers of pink and white streaming across the forest amongst the *Rhododendron ventricosum*.

The rain eased and we emerged for our picnic at 4200m in clear weather with magnificent views of the high country around, with carpets of *Primula amethystina* again, interspersed with other *Primulas* such as *P. minor*. Again much was yet to emerge but several alpinists had made it around the flag bedecked limestone crag, *Corydalis pachycentra*, *Lagotis alutacea* and *Pedicularis oederi* for example. Beyond, the country got wilder and more magnificent, although marred now by mining that's starting to take place in this previously untouched environment. *Meconopsis integrifolia* abounded and by a mine we passed our first bank of *Diapensia purpurea*. Climbing even higher we finally passed over the rocky 4600m pass of Gudung La where Nonbu and I hung an enormous length of prayer flags to join hundreds of others fluttering their words of enlightenment into the universe. After more wonderful views we started down the valley to the east towards Langdu. The *Rhododendron phaeochrysum* then become more than spectacular, vast hillsides smothered in all shades of pink and white.

We made several pauses to take this in, Jane hardly bearing to open her eyes the road being somewhat precipitous and Patrick discovered our first *Lloydia*, *L. flavonutans* in this case. So we arrived at the Langdu “cheese factory” (I’ve yet to see the cheese factory actually working) by a rushing stream, beds with electric blankets, and great food around a hot stove.

Day 11

Tuesday 4th June

Langdu to Riwa

We drove off in clear skies up to 3800m Otik Tso the lake just above, tucked away on the left side of Langdu valley. The first time I’d been there and it was gorgeous, surrounded by *Abies* and flowering *R. phaeochrysum*. The lakeside herbaceous plants, including the masses of *Primula*, hadn’t got going but Ruddy Shelduck and their chicks floated on the water. In the forest below we made a series of stops above Langdu village, finding *Iris chrysographes* and *Aquilegia rockii* amongst a wealth of shrubs in flower, *Jasminum polyanthum*, *Dipelta floribunda*, *Philadelphus delavayii*. Stopping at Langdu village everyone was amazed by the difference in the Tibetan vernacular architecture from Zhongdian.

Driving down the valley the climate changed rapidly and we were nearly at 2000m when we entered Sichuan, with the vegetation verging on subtropical. *Aralia*, *Ailanthus* and even a *Dendrobium* epiphyte were seen where I stopped to look at more *Cornus*. Turning north up to Kaze, Nongbu stopped us for an excellent stand of *Arisaema flavum* before lunch opposite the village of Kaze. Next we climbed up to the 4100 m pass of Udzu La. Again herbaceous plants hadn’t really got going, though the *Rhododendron phaeochrysum*, *R. davidsonianum* and several other were spectacular. But on the pass there was a carpet of the yellow *Androsace bisulca*, along with other alpinines *Astaragalus acaulis* and *Spongiocarpella yunnanensis*. After this we headed on down to Riwa.

Day 12

Wednesday 5th June

Riwa (Regang Valley)

Well I had been warned that there would be problems getting near Yading. But the roads really were blocked with no way round. We were committed to Riwa for the day so needed to explore somewhere else. Gonpo soon recruited the hotel lady with his charm and she described the Regang valley above her village of Neyang just north of town. Massive roadworks to construct the new highway between “Yading” airport at 4100m 60km away above Sangdui, and Yading itself, were underway. Even getting to Neyang took some time but once off the road we were free on a little dirt track heading up the valley. At 3300m Nongbu’s car stuck in mud and had to be pulled out by Ashin. We carried on up a path through *Quercus* and *Picea* forest interspersed with *R. yunnanense* in flower. At 3600m we could look back down the valley and got superb views of 6000m Xiandorji one of the Yading mountains, the main peak from the north.

Picking up Ann on the way down, we had lunch in the meadows below, Ashin and Nongbu having found *Arisaema ciliatum* in flower. We then strolled down the valley, past machinery busy quarrying the wonderful granite, and across a bog meadow of *Primula poisonii*. With time to spare we decided to visit the nearby monastery and the village below. Road works stopped the monastery idea, but we strolled across to the village and Gonpo charmed his way into an invitation for us all to visit the oldest house there. Everyone was enthralled by the visit where a lady with her daughter and granddaughter and tiny 2 week old baby were living, and who welcomed us for a tour of the building, and views from the roof across the village houses and fields.

We had a meal in a local restaurant and afterwards we watched the hostess making rice parcels for a forthcoming festival and went shopping at the shop opposite watched by enthralled Chengdu road workers.

Day 13

Thursday 6th June

Riwa to Daocheng

Roadworks impeded us all the way to Daocheng. First we stopped at the Gelugpa monastery of Namjilan, our groups first Tibetan gompa, and up the road we climbed onto Bo Wal La guarded by a fantastic Tibetan flag tent, a Tar Gher, flapping in the wind. On the pass we walked up to find alpines such as the mound-forming *Arenaria polytrichoides*, surrounded by the yellow *Anemone trullifolia* and Gonpo found our first *Primula soongii*. Below the pass we had lunch under Tsaju Monastery in a garden of *Rhododendron* spp and *Caragana jubata*, joined by two ancient Tibetan ladies, a caterpillar mushroom collector and friendly pig in the breezy sunshine. The boys drove up to the monastery while Vicky and I trekked up. Herbaceous plants were late but there was plenty of *Iris ruthenica* and *Androcace bisulca* and other things. We had a wander through this Karmapa monastery although most of the monks were away again.

Then we went on to Daocheng arriving early enough so that we could walk the town from our hotel. Thunderous downpours interrupted our explorations but after hiding in various shops we found the bustling market just winding down for the night. The hotel provided very friendly service and a splendid meal.

Day 14

Friday 7th June

Daocheng to Xiancheng

Leaving Daocheng we approached the Sangdui junction and came across a glorious meadow of *Primula involucrata*, *Aster soulei* and *Iris goniocarpa* with banks of *Incarvillea mairei* opposite. We then had to struggle through Sangdui. This once tranquil crossroads was being ripped apart for the new road. The bridge had been destroyed and traffic was ferried across a makeshift series of logs. We made it across and just passed the monastery Nongbu called a halt for our first magnificent *Rheum alexandre* which amazed everyone. A little further on to the left a whole meadow beneath granite crags was carpeted with the dark mysterious *Thermopsis barbatum* which had been completely absent last year. We dived in with cameras, eyes and noses. Opposite towards the river and across the ripped up road the whole meadow was full of *Rheum alexandre* in full display, and amongst the *Thermopsis*, *Doloumeia soulei*, another new find. Riding up to the Haizi granite plateau we were stunned to find the new airport at 4100m complete with already asphalted approach road and wondered at this country's propensity for rapid construction, the sheer scale incredible. On the plateau the road works stopped and the skies were clear to see over the sweeping granite country. Again although there was plenty of *Meconopsis integrifolia* all the myriad of alpines had not yet emerged, so we satisfied ourselves with an ad hoc picnic in the sun.

Coming down we had to stop at the monastery. Gonpo had charmed the road works manager into giving him direct contact, and as things were happening at the bridge i.e. it was being taken away, we had time to visit the monastery. The monks were just completing some chanting and praying which was very moving and we wandered near the gompa until the call came that we could move. We were diverted onto a small village track and drove west and away from traffic and road works.

We climbed up to 4600m Uminshan La and at this breathless altitude strong winds made it a struggle to explore but despite late emergence again we found *Solms-laubachia* spp, *Thermopsis smithiana* and *Soroseris hirsuta* and just below the pass find stands of *Primula soongii*. We took the long switchbacks down and through the limestone gorges and river valleys below which were as spectacular as ever as we approached Xiancheng dam works and massive hydroelectric tunnels were far more advanced. Finally we arrived at Xiancheng, a tiny metropolis surrounding its gumpa perched above the steep valley.

Day 15

Saturday 8th June

Xiancheng to Wengshui

We drove down the large Yangtse tributary riddled with hydroelectric tunnels and past the extraordinary Tibetan houses with their vernacular style unique to this valley, Tibetan layout inside typical of Kham Tibetans but all white walls, blind on one side and painted timbers on the front. At the end of the valley where the river plunges towards the Yangtse and the road winds up towards Da XueShan is the village of Raou, with its hot spring (marked Xibde on one of my maps which means "I don't know" in Yunnanese mandarin). Road works on the switchbacks above meant that all traffic was being stopped so we had an hour to explore. We walked through the village meeting the villagers and Vicky, Ann and I were invited for tea and got a tour of the inside of one of the houses.

The road opened and we climbed up to 4000m and the pass leading on to Da Xue Shan. The area had suffered drought and herbaceous plants very late emerging from desiccated soil under the *Pinus densata*, and only a few pink form *Stellera chaemejasme* were out. The weather was perfect as we emerged on to the high road towards DaXueShan and the view of that limestone massif was breathtaking. Just below the pass we had lunch in a meadow where *Primula* and *Corydalis* were just emerging along with *Meconopsis integrifolia*. On the pass Vicky, Elaine and I climbed the little limestone peak to plant a Welsh flag (the red dragon had been adorning both vehicles since Zhongdian), while the others skirted round below. Again plants were late but we did find *Diapensia purpurea*, *Cremanthodium rhodocephalum*, the first *Fritillaria cirrhosa* of the trip, *Cassiope selaginoides*, *Lloydia delavayi* and other alpines. Here the *Rhododendron phaeochrysum* were starting to fade but still spectacular, and the *R. roxaeanum* yet to get going.

We had heard that our old place in Wengshui had been made unavailable as a village bereavement meant it had been taken over by the village for a wake, so we had to come down a little early to secure Wengshui accommodation. On the way down though, we had to stop several times to admire stunning displays of *Rhododendron oreotrepbes* and *R. wardii* just starting. We were then amazed by a troupe of monkeys crossing the road in front of us. In Wengshui we found a little inn which just had enough spare beds, others being occupied by a group of rather secretive government mining prospectors. The accommodation was typical small village style and they provided a splendid dinner in colourful surroundings.

Day 16

Sunday 9th June

Wengshui to Zhongdian

In the morning we walked up the limestone Birung Gorge. The place was as spectacular as ever and still thankfully bereft of other visitors.

Again many plants were late but there were plenty of highlights including the amazing *Anemone rupicola* and *Primula polyneura* and spectacular stands of *Arisaema elephas* along with all the myriad of trees and shrubs including my *Berberis yunnanensis*. Elaine walked on past the meadow at the end and found *Cypripedium plectrochilum*, while Vicky found *Clematis pseudopogonandra*, both firsts here for me. Since wake proceedings were still going on in Wengshui we had a delightful picnic by the river in the sunshine.

In the afternoon we climbed 1000m yet again over Xiaoxueshan Pass and the clear weather gave us more stunning views. On the pass was a carpet of pink *Androsace rigida* and we also found the pine parasite *Arceuthobium pinii* on the *P. yunnanensis*. Riding down the valley and then up to Geza again the weather started to break but not before we first found a dusty population of *Paeonia delavayii*, then the hybrid swarm of last year just going over but there was red, pink and yellow forms in flower and our first *Paris polyphylla*. The latter used to be common but over the years I've seen populations decimated by villagers collecting it for so called medicine.

As we drove back through Geza rain began and above the village the road was blocked, a truck having swerved and landed in the road gully. A combination of big digger and scores of burly drivers including Nongbu and Ashin lifted the truck and sent it on its way. On the entrance to the Zhongdian Plateau we stopped to search for *Nomocharis forrestii*, seen here on previous years. The search was successful but all though there was plenty there, the flowers had not yet opened. We entered town and at the hotel we met Tsebho, Gonpo's cousin and my old friend.

Day 17

Monday 10th June

Zhongdian - Xe Ka Shan

We set off past the airport to the Xe Ka cable car in clear skies. I was nervous of this year's regime of officials at the top of the mountain in case they prevented us nipping over barriers to find the wealth of alpines on the limestone peak and was keen to explain to everyone the need for discretion and invisibility. These plans were severely dented when Elaine banged her head trying to get into a car. She was thankfully OK, but we became a focus of attention from the officials. At the gusty summit my worries were proved immaterial and some of us crossed the barrier to find *Paraqualegia microphylla* not quite in flower but there nonetheless. Carrying on to the summit again many plants were late, no *Meconopsis* for example but we did find *Solms-laubachia pulcherima*, and lots of *Primula minor* and spectacular views. This time we could see right across to the snow decked Kawakarpo massif, and far peaks to north and east as well.

Meanwhile some members of the team went down in the cable car to the middle station with Gonpo and had a delightful walk down the mountain from there. Vicky, Elaine and I carried on along the ridge to the west walking through meadows full of *Primula ametystina* and *Anemone trullifolia* in all colours, before coming down to Lingxi Tso, a beautiful lake surrounded by *Rhododendron phaeochrysum* and *R. roxeanum*. On the way we found *Primula deflexa*, *P. szechuanica* and *Meconopsis pseudointegrifolia* on display. No one was there apart from a small French group and some villagers bringing ponies over the mountain. The whole effect was simply magical, the wildness, the flora, the mountains, snow peaks in the distance. We soon found a track down the mountain, finding *Primula polyneura* and *P. pulchella* in profusion as well as *Lloydia ixiolirioides* and heavenly *Daphne retusa*. The road ended at the middle cable car, and at the bottom Nongbu was waiting and we rejoined the others at the hotel. In the early evening we finally got to see the Tibetan dancing at its new venue below the newly constructed gumpa. In the Potala restaurant we gathered for our final dinner with Gonpo, Nongbu, Ashin and Tsebho.

Day 18**Tuesday 11th June**

Zhongdian – Kunming – Hong Kong/Bangkok

We said farewell to the boys and flew in the morning to Kunming. We enjoyed a great brunch in the Kunming sunshine before getting taxis back to the airport to catch our flights home...

Day 19**Wednesday 12th June**

Arrival UK/Australia

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Species List

Plants

NB: The plant names are often given by only a short determination, usually with help of:

- Cox & Cox, 1997: The Encyclopedia of Rhododendron species (Glendoick Publ)
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see also www.primulaworld.com and www.androsaceworld.com

Species common in many places are not exhaustive. Annual Gentiana species are notoriously difficult, they were mainly named with help of the interactive key in the Flora of China (see http://flora.huh.harvard.edu/china/NaviKey/Gentiana/Gentiana_NaviKey.html). The characters given are taken from how they appeared in the field.

Abbreviations:

lv = leaves, fl = flowers, fr = fruits,

* species seen at this place by only a minority of the participants

additions or name changes since previous list

[...] identification in previous list

North of Lijiang, 28 may

Along the road between Lijiang and Yuhu, ca 2600 m

Pyracantha angustifolia # *

Hypericum forrestii #*

Oxyria sinensis #*

Above Yuhu village 2700 - 3100 m

Ajuga sp.*

Arisaema consanguineum # *

Berberis lijiangensis #

Caragana franchetiana *

<i>Coriaria nepalensis</i> # *	
<i>Corylopsis cf yunnanensis</i>	only lv
<i>Cotoneaster</i> sp. *	
<i>Cynoglossum amabile</i> #	
<i>Deutzia</i> sp. #	
<i>Eleagnus</i> sp.	only lv
<i>Erigeron multiradiatus</i>	
<i>Geranium nepalense</i> #	fl white, small
<i>Gnaphalium affine</i> #	
<i>Hypericum forrestii</i> #	
<i>Indigofera pendula</i>	conspicuously hanging flowers
<i>Indigofera balfouriana</i> #	low growing
<i>Jasminum beesianum</i>	fl red
<i>Jasminum humile</i>	fl yellow
<i>Jasminum officinale</i>	fl white, fragrant
<i>Leptodermis pilosa</i>	
<i>Ligustrum henryi</i> #	
<i>Ophiopogon intermedius</i>	
<i>Osmanthus delavayi</i> #	
<i>Oxyria sinensis</i>	
<i>Picea likiangensis</i>	
<i>Pieris formosa</i>	
<i>Pinus armandii</i>	5 needles per bundle
<i>Pinus yunnanensis</i>	3 needles per bundle
<i>Piptanthus tomentosus</i>	
<i>Potentilla</i> sp. #	
<i>Primula malacoides</i> #	
<i>Prinsepia utilis</i>	
<i>Pyracantha crenulata</i>	
<i>Quercus aquifolioides</i>	lv beneath orange to saffronyellow felty
<i>Rhododendron decorum</i>	fl white, fragrant, lv glabrous beneath
<i>Rhododendron yunnanense</i>	fl lilac rose to white, fragrant, lv deciduous
<i>Rosa lichiangensis</i> #	fl pink
<i>Rosa sericea</i>	fl white
<i>Rosa omeiensis</i> ssp. <i>pteracantha</i>	prickles flatend copperbrown prominent
<i>Spiraea schneideriana</i> #	
<i>Stellera chamaejasme</i>	
<i>Swida (Cornus) oblonga</i> #	
<i>Vaccinium fragile</i> #	
<i>Viburnum nervosum</i>	
<i>Wahlenbergia marginata</i> #	
<i>Primula poisonii</i>	
<i>Caltha palustris</i>	
<i>Acer caudatum</i>	

*Thalictrum delavayi**Roscoe humeana***Wanghai valley and Botanical garden 3100 - 3500 m, 29 may***Abies georgii**Acanthocalyx delavayi* fl deep purple*Anemone rivularis* # fl white to bluish*Anemone rupestris* # fl white, wetland [*Callianthemum pimpinelloides*]*Arisaema ciliatum* #*Caltha palustris* #*Euphorbia jolkinii* fl yellow, large perennial, often dominant on Zhongdian plateau*Fragaria nilgherrensis* #*Gentiana ninglangensis* # annual, fl light blue, with 10 weak stripes, lvs puberulent, no meml margin*Incarvillea lutea* fl yellow, planted in Botanical garden*Incarvillea mairei* # fl magenta, planted in Botanical garden*Incarvillea zhongdianensis* fl magenta, planted in Botanical garden*Iris ruthenica* # fl blue*Iris forrestii* # fl yellow, planted in Botanical garden*Maianthemum henryi* fl greenish*Neilia gracilis* dwarf subshrub*Pinus yunnanensis**Polygonatum cirrbifolium* #*Primula bulleyana* ssp. *beesiana* fl purple with yellow eye*Primula poissonii* fl in purple whorls*Primula* sp. fl magenta*Quercus aquifolioides* lv beneath orange or saffronyellow felty*Quercus* sp. shrub, lv green beneath, spiny*Rhododendron decorum* fl white, fragrant, lv glabrous beneath*Rhododendron racemosum* fl purplepink, lv small glaucous with scales beneath, widespread on Zhongdian plateau*Rhododendron yunnanense* fl lilac rose to white, fragrant, lv deciduous*Rodgersia sambucifolia* # only lvs*Roscoea cantleoides* ssp. *c.* # fl yellow*Rubus thibetanus* twigs erect with white bloom*Sanguisorba filiformis* fl white, wetland*Strobilanthes versicolor* low Acanthaceae, fl lilac [*S. stolonifera*]*Thermopsis smithiana* fl yellow, lv densely white hairy**Lijiang to Daju 2900 – 3270 – 1700 m, 30 may****Along road close to entry Yulongshan national park 2900 m***Clematis chrysocoma* # low growing, looks like an Anemone*Corallodiscus lanuginosus* lv rosettes on rock

<i>Euonymus nanoides</i>	very small, lv linear
<i>Leptodermis</i> sp. #	fl white
<i>Pinus densata</i>	2 needles per bundle
<i>Roscoea cautleyoides</i> ssp. <i>c.</i>	fl pale yellow
<i>Roscoea cautleyoides</i> ssp. <i>sinopurpurea</i>	fl purple
<i>Primula forrestii</i>	fl golden yellow, fragrant on rocks
<i>Selaginella pulvinata</i> #	
<i>Stellera chamaejasme</i>	

Along road near golf course 3050 m

<i>Anemone rivularis</i>	
<i>Erigeron multiradiatus</i>	
<i>Euphorbia stracheyi</i>	prostrate rosette
<i>Incarvillea marei</i>	fl magenta
<i>Iris ruthenica</i>	fl small blue-lilac
<i>Ligularia lankongensis</i>	lv spear shaped, verbascum like hairy
<i>Linum perenne</i>	
<i>Pedicularis densispica</i> #	
<i>Roscoea humeana</i> forma <i>lutea</i> #	
<i>Roscoea humeana</i> #	

Primula bulleyana stop 2 800 m

<i>Benthamidia (Cornus) capitata</i> #	
<i>Campylotropis prainii</i> #	
<i>Fragaria nilgberrensis</i> #	
<i>Primula bulleyana</i>	fl orangeyellow
<i>Calanthe tricarinata</i>	
<i>Cephalanthera longifolia</i>	

Monjpin, (Yak-pasture,) lunch stop 3 100 m

<i>Abies georgii</i>	
<i>Caltha palustris</i> var <i>umbrosa</i> #	fl solitary [<i>Caltha sinogracilis</i>]
<i>Clematis venusta</i> #	like <i>C. montata</i> but petals typically curved
<i>Lonicera tanguitica</i> #	fl small whitish [<i>L. hispida</i>]
<i>Neilia gracilis</i>	
<i>Philadelphus purpurascens</i>	fl white, fragrant, calyx purplebrown
<i>Picea likiangensis</i>	
<i>Populus rotundifolia</i>	like <i>P. tremula</i>
<i>Salvia aerea</i> #	fl pale lilac
<i>Salvia przewalskii</i>	fl pale yellow or purple
<i>Taxillus delavayi</i>	fl red, semiparasitic on <i>Salix</i> sp.
<i>Tsuga chinensis</i>	lv shorter than <i>T. dumosa</i> , rounded at tip
<i>Cyanoglossum triste</i>	
<i>Arisaema elephas</i>	

*Tilia chinensis***Pass at 3 270 m**

<i>Berberis dictyophylla</i>	fl single
<i>Dipelta yunnanensis</i>	fl pinkwhite w orange marks, fragrant
<i>Indigofera balfouriana</i> #	
<i>Juniperus recurva</i>	
<i>Paeonia delavayi</i>	fl deep bloodred purple
<i>Philadelphus purpurascens</i>	
<i>Rosa omeiensis</i> ssp. <i>pteracantha</i>	
<i>Salvia aerea</i>	fl pale lilac
<i>Schisandra rubriflora</i>	fl red, climbing

Iris meadow at 2 800 m

<i>Arisaema ciliatum</i> #	conspicuously striped
<i>Iris chrysographes</i>	fl black violet
<i>Iris forrestii</i>	fl yellow
<i>Primula poissonii</i>	
<i>Rodgersia sambucifolia</i> #	lvs pinnate [<i>Rodgersia aesculifolia</i>]
<i>Sanguisorba filiformis</i>	
<i>Stellera chamaejasme</i>	

Roadside at 2 600 m above Daju

<i>Bauhinia brachycarpa</i>	fl small white
<i>Hypericum forrestii</i>	
<i>Incarvillea arguta</i>	subshrub, fl pale lilac-pink
<i>Osteomeles schwerinae</i>	fl white
<i>Rumex hastatum</i>	subshrub
<i>Scutellaria</i> sp.	fl pale lilac
<i>Stellera chamaejasme</i>	
<i>Wikstroemia scytophylla</i>	fl yellow
<i>Arisaema yunnanensis</i>	

Daju floodplain above Jangtse at 1 700 m

<i>Bauhinia brachycarpa</i>
<i>Desmodium</i> sp.
<i>Dodonaea viscosa</i> *
<i>Lycium</i> sp.
<i>Selaginella</i> sp.

Daju – Zhongdian (Jaltan, Shangri La) 1 600- 3 700 m, 31 may**Jangtse river gorge below Daju, 1 600 m**

<i>Adiantum capillus-veneris</i>

<i>Bauhinia bobniiana</i> # *	fl white with pink markings, showy
<i>Barleria</i> sp? *	acanthoid subshrub, fl lilac blue
<i>Bidens pilosa</i>	
<i>Campylotropis</i> sp.	
<i>Conyza</i> sp.	
<i>Corallodiscus lanuginosus</i>	
<i>Euphorbia prostrata</i> #	
<i>Pteris vittata</i> #	fern, pinnate
<i>Gnaphalium affine</i> #	
<i>Grewia</i> sp. *	
<i>Incarvillea arguta</i>	
<i>Osteomeles schwerinae</i>	
<i>Paluurnus orientalis</i>	lv ovate, spiny
<i>Scorzonera</i> sp. #	
<i>Selaginella pulvinata</i>	

Benthamidia stop north of Haba 2 600 m

<i>Benthamidia capitata</i>	fl cream, former Cornus
<i>Coriaria nepalensis</i>	
<i>Glycyrrhiza yunnanensis</i>	fl pale lilac
<i>Lycyteria formosa</i> ssp. <i>stenosepala</i> #	fl without red bracts
<i>Quercus aquifolioides</i>	evergreen, lv beneath orangeyellow
<i>Quercus dentata</i> ?	deciduous, lv large, dentate
<i>Rumex hastatum</i>	
<i>Swida oblonga</i> #	fl white, former Cornus [Swida hemsleyi]

Albizia stop south of Beshutai 2 700 m

<i>Acer cappadocicum</i> #	
<i>Albizia julibrissin</i>	
<i>Glycyrrhiza yunnanensis</i>	
<i>Lithocarpus</i> sp.	lv evergreen bluish beneath
<i>Cyclobalanopsis</i> sp.	fr cup typically spiralled
<i>Pistacia weinmannifolia</i>	

Beshutai village roadsides 2 800 m, Be = white, shui = water, tai = terrace in chinese

<i>Itea yunnanensis</i>	fl white pendulous
<i>Zanthoxylum bungeanum</i> *	fr dark red, sold as Szechuan-Pepper
<i>Debregeasia orientalis</i> *	fr orange
<i>Rubus</i> sp.	fr orange

Above Beshutai 2 900 m

<i>Aralia chinensis</i>	spiny tree
<i>Ilex pernyi</i>	

<i>Caltha palustris</i>	
<i>Chrysosplenium sp.</i>	
<i>Cynoglossum triste</i>	fl brown black
<i>Roscoa humeana</i> #	
<i>Silene sp.</i>	
<i>Swida macrophylla</i>	

Androsace Stop at 3 600 m

<i>Androsace rigida</i>	fl white to pink
<i>Daphne tangutica</i>	fl white to pale lilac, fragrant
<i>Caragana franchetiana</i>	
<i>Clematis montana</i>	fl white
<i>Leptodermis Forrestii</i>	fl lilac-pink
<i>Lyonia ovalifolia</i>	fl white bells
<i>Maianthemum lichiangense</i> #	
<i>Pedicularis macrosiphon</i> #	fl pink
<i>Piptanthus nepalensis</i>	fl yellow
<i>Rhododendron oreotrephes</i> #	fl big pink
<i>Rhododendron racemosum</i> #	fl small pink
<i>Salvia aerea</i>	fl pink
<i>Streptopus simplex</i> #	
<i>Syringa yunnanensis</i>	fl pale lilac, fragrant
<i>Viola biflora</i> #	

Bridge below Tulong 3200 m

<i>Arisaema elephas</i>	lv 3 large
<i>Chrysosplenium davidianum</i> #	
<i>Populus yunnanensis</i>	often with red flowered <i>Taxillus delavayi</i>
<i>Rosa sericea</i>	
<i>Salix balfouriana</i>	small tree
<i>Spiraea canescens</i>	
<i>Rhododendron decorum</i>	
<i>Tilia chinensis</i>	

Tianbaoshan La (tibetan for = pass) 3 700 m

<i>Caltha scaposa</i> #	
<i>Cremanthodium angustifolium</i> #	
<i>Hemiphragma heterophyllum</i>	small creeping like <i>Oxycoccus</i> , fr orange
<i>Rhododendron decorum</i>	
<i>Rhododendron bippophaeoides</i>	fl lilac
<i>Rhododendron rupicola ssp. rupicola</i> #	fl deep purple blue [<i>R. russatum</i>]
<i>Rhododendron racemosum</i>	fl pink
<i>Rhododendron tatsienense</i> #	fl pink small
<i>Salix balfouriana</i>	

Tianchi Hai (hai tibetan for lake) 3 200 - 3 880m, 1 june**Valley rim at 3 200 m**

<i>Acanthocalyx alba</i>	
<i>Acer davidii</i>	lv nearly entire
<i>Androsace spinulifera</i>	
<i>Anemone yulongshanica</i> #	see: www.efloras.org/object_page.aspx?object_id=40706&flora_id=2
<i>Anemone demissa</i> var. <i>major</i> #	
<i>Aralia yunnanensis</i>	perennial
<i>Betula platyphylla</i>	bark whitish-black
<i>Bistorta macrophylla</i> #	
<i>Crataegus chungtienensis</i>	endemic to Zhongdian plateau
<i>Cypripedium flavum</i>	fl pale yellow
<i>Cypripedium guttatum</i>	fl purple, white spotted
<i>Erigeron breviscapus</i> #	
<i>Euphorbia jolkinii</i>	
<i>Incarvillea zhongdianensis</i>	
<i>Iris bulleyana</i>	
<i>Lancea tibetica</i> #	
<i>Lysimachia prolifera</i> #	fl purple, low creeping [Valeriana sp.]
<i>Malus rockii</i>	fl white
<i>Maianthemum henryi</i> #	
<i>Oreorchis erythrochrysea</i>	fl deep yellow
<i>Osmunda claytoniana</i>	
<i>Primula secundiflora</i>	fl purple, nodding
<i>Rhododendron racemosum</i>	fl pink
<i>Schisandra rubriflora</i>	
<i>Sambucus adnata</i>	perennial not shrubby, widespread
<i>Syringa yunnanensis</i>	
<i>Triosteum himalayanum</i> #	
<i>Viola biflora</i>	

Primula stops at 3 600 m

<i>Adonis davidii</i>	fl white
<i>Anemone obtusiloba</i> #	fls blue
<i>Arenaria</i> sp. #	fl white, small
<i>Caltha palustris</i>	
<i>Cardamine pulchella</i> #	fl pink
<i>Draba surculosa</i> #	fl yellow, fl elongated
<i>Hackelia uncinata</i>	fl blue
<i>Maianthemum henryi</i>	fl greenish
<i>Meconopsis pseudointegrifolia</i>	fl yellow
<i>Oxygraphis glacialis</i>	fl yellow
<i>Primula amethystina</i>	fl blue lilac, nodding fringed

<i>Primula chionantha</i> ssp. <i>sinopurpurea</i>	fl purple, plant large
<i>Primula deflexa</i>	fl purple blue, nodding in dense spike
<i>Primula secundiflora</i> #	
<i>Primula sikkimensis</i>	
<i>Primula sonchifolia</i> #	out of flower
<i>Rheum likiangensis</i> #	[R. palmatum]
<i>Rhododendron oreotrephes</i> #	
<i>Rhododendron wardii</i>	fl pale lemon yellow
<i>Sanicula haquetioides</i>	fl white, plant low
<i>Soelicia vaginata</i> #	fernlike lvs

Tianchi Hai 3 880 m (Tian tibetan for heaven, chi for little, hai for lake)

<i>Abies georgii</i>	
<i>Allium trifurcatum</i> *	fl white
<i>Anemone obtusiloba</i>	fl blue or white
<i>Anemone</i> sp. #	fl white, purple anthers
<i>Anisodus</i> sp. # *	fl yellow green [Mandragora caulescens]
<i>Caltha scaposa</i>	fl yellow, singular
<i>Fritillaria</i> aff. <i>cirrrosa</i> #	fl purple or yellow
<i>Hemiphragma heterophyllum</i>	
<i>Ligularia nelumbifolia</i>	lv very large, rounded
<i>Lilium souliei</i>	fl dark red maroon
<i>Lloydia flavonutans</i> #	
<i>Lonicera mitis</i> #	fl nodding yellow
<i>Oxygraphis glacialis</i>	
<i>Oxygraphis tenuifolia</i>	lvs narrow
<i>Potentilla parvifolia</i>	shrub, fl yellow
<i>Potentilla</i> sp.	lv pinnate, not hairy
<i>Primula amethystina</i>	
<i>Primula boreiocalliantha</i> #	fl dark pink, wide throat, with next species
<i>Primula bryophila</i> #	fl pink, under Rhododendron scrub
<i>Primula sikkimensis</i>	fl lemon yellow, nodding
<i>Primula sonchifolia</i>	lv mealy, fl purplelilac
<i>Rhododendron phaeochrysum</i>	fl white to pink, lv redbrown hairy beneath, calyx 1-2 mm
<i>Rhododendron roxieanum</i>	fl white, lv with spongy yellow felt beneath, calyx 2-5 mm
<i>Rhododendron telmateium</i> #	fl lilac [R. hippophaeoides]
<i>Rumex alexandrae</i> #	only lvs
<i>Sanguisorba filiformis</i> #	
<i>Thalictrum alpinum</i> *	
<i>Veratrilla baillonii</i>	fl greenish

Tianbai-Shan 3200 - 3900 m (Tian chinese for heaven, bao for treasure, shan for mountain), 2 june

<i>Acer caudatum</i> #	
<i>Androsace alchemilloides</i> *	fl white, limestone cliff

<i>Aquilegia oxysepala</i> #	
<i>Arisaema elephas</i>	
<i>Astragalus yunnanensis</i> *	fl yellow, in scree
<i>Berberis mouillacana</i> #	
<i>Berberis wilsoniae</i> #	
<i>Bistorta vivipara</i>	
<i>Betula utilis</i>	
<i>Caragana jubata</i> *	fl pink white, fragrant, in scree
<i>Chrysosplenium davidianum</i> #	
<i>Chrysosplenium griffithii</i> #	
<i>Comastoma falcatum</i>	tiny bluish buds
<i>Corydalis atuntsuensis</i>	fl yellow
<i>Corydalis benecincta</i> *	lv only trifoliate, in scree
<i>Corydalis calcicola</i> # *	fl pink, in limestone scree [C. smithiana?]
<i>Corydalis pachycentra</i> #	fl blue [C. curviflora?]
<i>Corydalis</i> sp. #	fl bluepink, at <i>Daphne calcicola</i>
<i>Cypripedium tibeticum</i>	fl deep purple
<i>Daphne calcicola</i>	fl yellow, fragrant
<i>Daphne retusa</i> #	fl pale lilac, lvs retuse [D. tangutica]
<i>Ephedra monosperma</i> *	only 20 cm high, in scree
<i>Euphorbia stracheyi</i>	
<i>Fritillaria delavayi</i> *	fl nodding yellow green, in scree
<i>Gentiana</i> sp.	annual, small blue unmarked fl
<i>Gentianopsis paludosa</i>	long seed capsules
<i>Incarvillea grandiflora</i> #	lv not pinnate [I. compacta]
<i>Iris bulleyana</i>	
<i>Lonicera perulata</i>	fl purple
<i>Meconopsis forrestii</i> #	fl blue
<i>Myricaria rosea</i>	dwarf shrub in riverside gravel
<i>Omphalogramma vinciflora</i>	fl large, deep violet
<i>Oreorchis erythrochrysea</i>	
<i>Pedicularis oederi</i> *	fl yellow, brown tipped, in scree
<i>Persicaria nepalense</i> #	
<i>Piptanthus concolor</i> #	[P. nepalensis]
<i>Podophyllum hexandrum</i>	
<i>Polygonatum stewartianum</i> #	
<i>Primula chionantha</i> ssp. <i>chionantha</i>	fl white, plant large
<i>Primula bulleyana</i> ssp. <i>bulleyana</i>	fl orange yellow in whorls
<i>Prunus serrula</i>	fl white
<i>Rheum acuminatum</i>	
<i>Rhododendron decorum</i>	
<i>Rhododendron primuliflorum</i>	fl white, small, lv strongly aromatic
<i>Rhododendron roxieanum</i>	
<i>Rhododendron rubiginosum</i> #	fl large, dark pink

<i>Rhododendron telmateium</i> #	fl lilac [R. impeditum?]
<i>Rhododendron yunnanense</i>	
<i>Ribes longiracemosum</i> #	
<i>Salix serpyllum</i> *	dwarf alpine willow in scree
<i>Sanicula haquetioides</i>	
<i>Saxifraga andersonii</i> # *	out of fl, limestone cliff
<i>Sorbus</i> sp. #	
<i>Spenceria ramalana</i> *	fl yellow, potentilla like, in scree
<i>Spongiocarpella yunnanensis</i> *	fl deep yellow, in scree
<i>Tibetia coelestis</i>	fl lilac blue
<i>Veratrum baillonii</i>	

Napa Hai 3280 – 3500 m, 3 June

Little gorge 3 300-3 500 m

<i>Acanthocalyx delavayi</i>	fl purple
<i>Androsace spinulifera</i>	
<i>Bupleurum</i> sp.	lv strictly linear
<i>Caryopteris</i> sp.	lv aromatic
<i>Corydalis cf kokiana</i>	fl blue, white spotted
<i>Crataegus chungtienensis</i>	
<i>Daphne calcicola</i>	
<i>Erigeron multiradiatus</i>	
<i>Erysimum wardii</i>	fl yellow
<i>Euphorbia jolkinii</i>	
<i>Euphorbia wallichii</i> #	
<i>Geum aleppicum</i>	
<i>Heracleum candicans</i>	fl white
<i>Incarvillea zhongdianensis</i>	
<i>Iris bulleyana</i>	
<i>Iris ruthenica</i>	
<i>Lonicera chaetocarpa</i> #	fl pale yellow
<i>Lonicera tangutica</i> #	fl white small [?L. hispida]
<i>Meconopsis prattii</i>	fl lilac blue
<i>Pedicularis rhinanthoides</i> #	
<i>Pedicularis siphonantha</i>	fl purple, white centred
<i>Podophyllum hexandrum</i>	
<i>Polygala sibirica</i> #	
<i>Rhodiola yunnanensis</i> #	
<i>Stellera chamaejasme</i>	
<i>Thesium</i> sp.	fl white
<i>Trollius ranunculoides</i> #	fl yellow
<i>Viola cameleo</i> #	fl yellow [Viola delavayi]
<i>Vincetoxicum forrestii</i>	fl yellow green

large, yellow flowered *Apiaceae*

Slope above village

Cotoneaster sp.

Crataegus chungtienensis

Rhamnus sp. fl yellow green

Botanical Garden 3300 – 3 400 m

Aletris nana #

Androsace spinulifera fl deep pink

Anemone demissa var. *major*

Cephalanthera longifolia

Cotoneaster sp.

Cypripedium flavum

Cypripedium tibeticum

Erigeron multiradiatus fl lilac

Euonymus sanguineus

Gentiana asterocalyx # annual, fl blue, usually 10 distinct stripes and conspicuous white ring in th

Heracleum candicans fl white

Incarvillea zhangdianensis

Juniperus chinensis old, single tree

Lancea tibetica

Leontopodium sp.

Lonicera chaetocarpa fl pale yellow

Lonicera tangutica # fl white small [?L. hispida]

Populus yunnanensis

Prunus cerasus

Quercus senescens shrubby, lv green beneath, thorny

Rubia sp.

Vicia sp. # fl blue

Several stops along the road rounding Napa hai, limestone cliffs and slopes 3 300 m

Androsace bulleyana fl deep red

Astragalus sp. fl lilac, fl head elongated

Astragalus bhotanensis # fl purple, fl head round

Corydalis cf/ aff *adrienii* #

Cypripedium flavum

Cypripedium yunnanense fl pink

Ligularia latibastata # [L. lankongensis]

Maianthemum henryi

Meconopsis prattii # fl blue

Polygala sibirica #

Polygonatum cirrhifolium #

Primula polyneura # fl pink lilac [P. heucherifolia]

<i>Tibetia tongolensis</i> #	
<i>Triosteum himalayanicum</i> #	fl brown yellow [Scrophulariaceae sp.]
<i>Vincetoxicum forrestii</i>	
<i>Viola rockiana</i> #	

Zhongdian – Geze – Gudung La – Langdu cheese factory 3 300 – 4 600 m, 4 june

Roadside stop at 3 500 m above Geze

<i>Allium</i> sp. #	fl white
<i>Anemone</i> sp. #	fl tiny, white
<i>Caltha palustris</i>	
<i>Cardamine purpurascens</i> #	fl pink
<i>Corydalis pachycentra</i> #	
<i>Fritillaria cirrhosa</i> #	fl yellow, narrow
<i>Gentiana chungtienensis</i>	annual, fl blue, with 10 (sometimes weak) stripes, lvs glabrous, membranous
<i>Gentiana forrestii</i> #	annual, fl pale blue or white, heavily spotted/striped
<i>Meconopsis integrifolia</i> #	[<i>M. pseudointegrifolia</i>]
<i>Omphalogramma vinciflora</i>	
<i>Primula involucrata</i> ssp. <i>yargongensis</i> #	fl lilac pink
<i>Primula sikkimensis</i>	
<i>Thermopsis barbata</i> *	fl black maroon
<i>Trigonotis</i> sp. #	like a forget-me-not

Sharung Sung La 4 200 m

<i>Anemone demissa</i>	
<i>Anemone obtusiloba</i>	
<i>Astragalus acaulis</i> #	
<i>Berberis</i> sp.	
<i>Boschniakia himalaica</i> #	
<i>Cardamine loxostemonoides</i> #	fl pink
<i>Corydalis pachycentra</i>	
<i>Draba polyphylla</i> #	fl yellow
<i>Draba</i> sp. #	fl white
<i>Euphorbia stracheyi</i>	
<i>Gentiana chungtienensis</i> #	annual, fl blue, with 10 (sometimes weak) stripes, lvs glabrous, membranous
<i>Incarvillea mairei</i>	
<i>Lagotis alutacea</i>	fl pale lilac
<i>Meconopsis integrifolia</i> #	
<i>Oxygraphis glacialis</i>	
<i>Potentilla stenophylla</i> #	like compact <i>P. anserina</i>
<i>Primula amethystina</i>	
<i>Primula bryophila</i> #	fl lilac in <i>Abies</i> forest [<i>P. boreiocalliantha</i>]

Primula chionantha ssp. *sinopurpurea*
Primula deflexa
Primula involucrata ssp. *yargongensis* #
Primula minor #
Rhododendron bippophaeoides
Rhododendron phaeochrysum
Sibbaldia sp. #
Salix lindleyana #

fl lilac [P. sp.]

Mine at 4 300 m

Anaphalis nepalensis #
Bergenia purpurascens #
Diapensia purpurea
Draba yunnanensis #
Primula chionantha ssp. *sinopurpurea*
Primula minor #

fl purple pink

fl yellow

Gudung La 4 600 m

Draba yunnanensis #
Koenigia forrestii
Pegaeophyton angustiseptatum
Primula minor #
Rhododendron nivale boreale
Rhodiola dumulosa #

fl yellow

fl small white

fl white

fl lilac

fl pink lilac, dwarf

fl reddish

Roadside 4 200 m

Androsace dissecta #
Chrysosplenium davidianum #
Lonicera mitis #
Primula minor #
Primula polyneura #
Rhododendron beesianum #
Rhododendron rupicola ssp. *chryseum*
Thlaspi sp. #

lvs deep devided

fl yellow

fl lemon yellow

fl bluish white

Langdu –Szechuan border – Kaze – Udzu La – Rua 2 800 – 4100 m, 5 june

Gorge between Cheese factory and Langdu village 3 800 – 3 300 m

Quercus aquifolioides reaches at sunny slopes as closed forest up to 4 100 m!
Acer sterculiaceum
Acer cappadocicum
Aconitum hemsleyanum twigs climbing
Aquilegia rockii fl purple
Arisaema consanguineum

<i>Arisaema elephas</i>	
<i>Cardamine macrophylla</i> #	
<i>Coniogramma spec.</i> #	fern, ternate-pinnate
<i>Corallodiscus kingianus</i>	lv rosettes on rock
<i>Corydalis ophiocarpa</i>	fl yellowish
<i>Desmodium elegans</i>	fl lilac
<i>Galium sp.</i> #	
<i>Indigofera pendula</i>	fl lilac pendulous
<i>Paeonia delavayi</i>	
<i>Pilea sp.</i> #	
<i>Populus yunnanensis</i>	
<i>Pteris dactylina</i> #	fern, five linear leaflets
<i>Rubus sp.</i>	
<i>Sambucus adnata</i>	
<i>Smida macrophylla</i> #	
<i>Syringa yunnanensis</i>	
<i>Iris chrysographes</i>	
<i>Bentamidia capitata</i> <i>Jasminum polyanthum</i>	
<i>Dipelta floribunda</i> <i>Populus wilsonii</i>	
<i>Philadelphus delavayii</i>	

Below Langdu village and River valley up to Kaze, Szechuan 2 800-3 100 m

<i>Ailanthus altissima</i>	
<i>Albizzia julibrissin</i>	fl pinkish
<i>Albizzia mollis</i>	fl white
<i>Aralia chinensis</i>	
<i>Berberia edgeworthii</i>	erect shrub
<i>Buddleja fallowiana</i>	
<i>Campylotropis polyantha</i> #	
<i>Cupressus chengiana</i>	trees up to 50 m
<i>Gentiana choanantha</i> #	annual, fl small blue, throat yellow with 20 thin lines, lvs glabrous cartilaginous margin
<i>Incarvillea arguta</i>	
<i>Ligustrum lucidum</i>	fl white, strongly fragrant
<i>Lithocarpus sp.</i>	lv glaucous beneath
<i>Morus nigra</i>	
<i>Onychium contiguum</i> #	fern, numerous lanceolate leaflets
<i>Phytolacca acinosa</i>	
<i>Pteris vittata</i> #	
<i>Sophora davidii</i>	fl bluish white
<i>Tilia paucicostata</i>	
<i>Zanthoxylum armatum</i>	
<i>Prinsepia utilis</i>	

River valley above Kaze 3 100 – 3 200 m

<i>Cupressus chengiana</i>	
<i>Hippophae salicifolia</i>	
<i>Myricaria</i> sp.	
<i>Leycestria formosa</i>	
<i>Daphne aurantiaca</i> *	fl yellow, erect shrub
<i>Sorbus megalocarpa</i> *	lv like Sorbus aria

Stop between Kaze and Uzdu La, c. 3800 m

<i>Betula albosinensis</i> #
<i>Piptanthus tomentosus</i> #
<i>Populus rotundifolia</i> #

Udzu La 4 100 m

<i>Androsace bisulca</i> ssp. <i>aurata</i>	fl deep yellow
<i>Anemone trullifolia</i>	fl yellow
<i>Astragalus acaulis</i>	fl lemon yellow
<i>Berberis</i> sp. #	
<i>Gentiana</i> sp. #	annual, fl blue medium sized, throat white & yellow with 40 thin brown :
<i>Incarvillea mairei</i>	
<i>Iris ruthenica</i> #	fl pale lilac, small
<i>Polygonatum curvistylum</i> #	
<i>Rhododendron nivale boreale</i>	
<i>Rhododendron primuliflorum</i>	
<i>Rhododendron phaeochrysum</i> #	fl white to pink
<i>Rhododendron polycladum</i> #	fl purple, larger than nivale
<i>Rhododendron trichostomum</i> #	like primuliflorum, lvs sl. narrower
<i>Spongiocarpella yunnanensis</i>	fl deep yellow

Dhaba Lhari massive above Yading 3 700 – 4 700 m, 6 june**Green Lake below Chinschise Peak 3 700 – 3 900 m**

<i>Acanthocalyx delavayi</i>	
<i>Androsace tapete</i> #	greygreen cushions mostly out of flower [A. selago]
<i>Anisodus tanguticus</i> #	fl yellow green, calyx large, campanulate, near monastery [Ma: caulescens]
<i>Anisodus carniolicoides</i> #	fl yellow green, corolla large, campanulate, near monastery [Ma: caulescens]
<i>Caragana jubata</i>	fl white to pink, fragrant
<i>Clematis tibetana</i> ssp. <i>vernayi</i>	fl deep black brown, near monastery
<i>Oxytropis</i> sp.	fl lilac
<i>Pedicularis likiangensis</i> #	fl pink purple [P. roylei]
<i>Polygonatum hookeri</i>	fl pinkish, nearly sessile
<i>Sibiraea angustata</i>	fl white, lv bluegreen

Valley up to Milk Lake and Five Colour Lake 4 100 - 4 700 m

<i>Androsace tapete</i> #	
<i>Anemone demissa</i> var. <i>major</i> # *	
<i>Anemone obtusiloba</i> # *	
<i>Clematis gracilifolia</i> # *	
<i>Corydalis</i> sp. *	fl yellow
<i>Corydalis melanochlora</i> # *	fl deep blue, in limestone scree
<i>Daphne retusa</i> *	
<i>Draba involucrata</i> *	fl yellow, leafless stems
<i>Draba polyphylla</i> # *	fl yellow, leafy stems
<i>Ephedra likiangensis</i> *	
<i>Gentiana pedicellata</i> # *	annual, fl small, blue, reflexed lvs & calyxlobes
<i>Gentiana</i> sp. # *	annual, fl medium, blue, with 10 stripes
<i>Hedysarum sikkimense</i> *	fl purple
<i>Incarvillea compacta</i> #	
<i>Juniperus pingii</i> *	trees up to 4 500 m!
<i>Koenigia islandica</i> *	fl white
<i>Lancea tibetica</i> *	fl lilac blue
<i>Lonicera chaetocarpa</i> # *	
<i>Lonicera tangutica</i> # *	
<i>Myricaria squamosa</i> *	fl lilac before lv
<i>Paraquilegia microphylla</i> *	fl lilac blue
<i>Pedicularis sigmoidea</i> # *	
<i>Pinguicula alpina</i> *	fl white
<i>Polygonatum bookeri</i> # *	
<i>Potentilla fruticosa</i> *	
<i>Potentilla parvifolia</i> *	
<i>Primula florida</i> # *	lvs crenulate-dentate
<i>Primula walshii</i> # *	very dwarf
<i>Rhododendron nivale boreale</i> # *	
<i>Rhododendron primuliflorum</i> # *	
<i>Salix lindleyana</i> *	prostrate alpine willow
<i>Salix souliei</i> *	prostrate alpine willow
<i>Solms-laubachia xerophyta</i> # *	fl pale lilac
<i>Thylacospermum caespitosum</i> *	large cushions in limestone scree
<i>Trollius farreri</i> # *	

Rua - Bo La - Tsaju monastery - Jabpa (Daocheng) 3 000 – 4 600 m, 7 june**Wetland above Rua 3 600 m**

<i>Androsace bisulca</i> ssp. <i>aurata</i>
<i>Aster himalaicus</i> #
<i>Caltha scaposa</i>

<i>Caragana versicolor</i>	
<i>Euphorbia stracheyi</i>	
<i>Gentiana cf. heleonastes</i> #	annual, fl blue or white, throat yellow with 15 stripes
<i>Meconopsis integrifolia</i>	
<i>Myricaria squamosa</i>	
<i>Oxygraphis glacialis</i>	
<i>Primula fasciculata</i> #	lv small [?P. tibetica]
<i>Primula involucrata</i>	fl pink purple
<i>Rhododendron cuneatum</i> #	no dark scales
<i>Sanguisorba filiformis</i>	
<i>Taraxacum sp</i> #	fl yellowish
<i>Thermopsis barbata</i>	
<i>Triglochin maritima</i>	
<i>Trollius ranunculoides</i>	
<i>Viola biflora</i>	

Bo La (tibetan for Grandfather pass) 4450-4600 m

<i>Androsace minor</i> #	fl magenta [A. delavayi]
<i>Anemone demissa</i> var. <i>major</i>	
<i>Anemone rupicola</i>	
<i>Anemone trullifolia</i>	
<i>Arenaria polytrichoides</i>	dense cushions
<i>Euphorbia stracheyi</i>	
<i>Gentiana cf. heleonastes</i> #	annual, fl blue or white, throat yellow with 15 stripes
<i>Rhododendron nivale boreale</i>	
<i>Potentilla parviflora</i>	
<i>Primula soongii</i> *	fl yellow
<i>Rheum pumilum</i>	
<i>Rhodiola dumulosa</i>	
<i>Spongiocarpella yunnanensis</i>	
<i>Stellaria sp.</i>	

Tsaju monastery and valley below 4000-4150 m

<i>Anaphlis nepalensis</i> #	[?A. cinerascens]
<i>Androsace bisulca</i> ssp. <i>aurata</i>	
<i>Aster staticifolius</i> #	[?A. himalaicus]
<i>Berberis dictyophylla</i> #	
<i>Caragana jubata</i>	fl white to pink, fragrant
<i>Dontostemon pinnatifidus</i> #	[Coronopus sp.]
<i>Gentiana crassicaulis</i> #	perennial with large clasping lvs
<i>Iris ruthenica</i>	
<i>Lonicera aff. obovata</i> #	
<i>Lonicera rupicola</i>	similar, smaller, fl not fragrant
<i>Lonicera syringantha</i>	fl lilac pink, fragrant

<i>Potentilla fruticosa</i>	
<i>Potentilla parviflora</i>	
<i>Sorbus discolor</i>	fl white
<i>Spiraea calcicola</i>	fl white
<i>Rhododendron orthocladum</i>	fl lilac, lv deep brown scaly
<i>Rhododendron phaeochrysum</i>	
<i>Rhododendron primuliflorum</i>	
<i>Rhododendron roxieanum</i> #	
<i>Rhododendron cuneatum</i> #	[R. hippophaeoides?]

Daocheng – Haiza plateau - Uminshan La – Chaktreng 2900 - 4750 m, 8 june

Riverbed north of Sumdo 3 900 m

<i>Abies fargesii</i>	flaky bark
<i>Aletris nana</i> #	
<i>Anemone obtusiloba</i>	
<i>Aster souliei</i> #	
<i>Bistorta macrophylla</i>	
<i>Crematodium angustifolium</i>	fl purple
<i>Iris goniocarpa</i> #	
<i>Iris ruthenica</i>	
<i>Lagotis yunnanensis</i>	fl white spike, fragrant
<i>Myricaria squamosa</i> #	fl pink [M. laxiflora?]
<i>Polygonatum prattii</i> #	
<i>Primula soongii</i>	
<i>Primula fasciculata</i> #	lv small [?P. tibetica]
<i>Primula involucrata</i>	fl pink purple
<i>Ranunculus sp.</i> #	like R. flammula, but tufted
<i>Rheum alexandrae</i>	large erect with white bracts
<i>Rheum delavayi</i> #	fl pale pink [R. likiangensis]
<i>Rheum pumilum</i> #	
<i>Sanguisorba filiformis</i>	
<i>Trollius ranunculoides</i>	
<i>Thermopsis barbatum</i>	
<i>Incarvillea mairei</i>	
<i>Dolomiaea soulei</i>	

Haiza Granite plateau (tibetan for sea) 4 300 m

<i>Allium atrosanguineum</i> # *	fl purple lilac, along river
<i>Androsace bisulca aurata</i>	
<i>Anemone obtusiloba</i>	
<i>Aphragmus sp.</i> #	fl white, Brassicaceae
<i>Arenaria polytrichoides</i>	
<i>Bistorta macrophylla</i>	

<i>Caltha scaposa</i>	
<i>Corydalis atuntsuensis</i> #	
<i>Draba ladyginii</i> #	fls white
<i>Fritillaria cirrhosa</i> ssp. <i>viridiflorum</i>	lv without tendrils
<i>Incarvillea compacta</i> #	[<i>I. mairei</i>]
<i>Lagotis yunnanensis</i>	
<i>Meconopsis lancifolia</i> #	fl blue violett [M. aff. <i>racemosa</i>]
<i>Meconopsis integrifolia</i> #	[M. <i>pseudointegrifolia</i>]
<i>Pedicularis sigmoidea</i> #	
<i>Pegaeophyton scapiflorum</i> *	fl greenish white, along river
<i>Potentilla fruticosa</i>	
<i>Primula walshii</i> *	fl pink purple, small, along river
<i>Primula involucrata</i>	
<i>Primula soongii</i>	
<i>Rhododendron cf nivale boreale</i>	[<i>Rhododendron hippophaeoides</i> ?]
<i>Rhododendron orthocladum</i>	
<i>Rheum alexandrae</i>	
<i>Rheum pumilum</i>	
<i>Sibbaldia cuneata</i> #	

First pass below Uminshan La 4 600 m

<i>Arenaria polytrichoides</i>	
<i>Astragalus acaulis</i>	
<i>Astragalus yunnanensis</i>	fl yellow
<i>Caltha scaposa</i>	
<i>Corydalis atuntsuensis</i>	
<i>Lamiophlomis rotata</i>	fl violett
<i>Lloydia oxycarpa</i>	fl yellow
<i>Lonicera</i> sp. #	
<i>Oxygraphis glacialis</i>	
<i>Oxytropis</i> sp.	fl violett
<i>Primula soongii</i>	
<i>Silene davidii</i>	fl pink, small
<i>Soroseris hirsuta</i> #	crisped rosette, stalkless flowerhead
<i>Thermopsis smithiana</i> #	fl yellow [<i>T. alpina</i>]
<i>Trollius farreri</i> #	

Uminshan La (chinese for no name) 4 750 m

<i>Allium nanodes</i> #	lv tulip like [<i>A. sp.</i>]
<i>Corydalis pachycentra</i> #	
<i>Euphorbia stracheyi</i>	
<i>Gentiana szzechenyii</i> #	perennial, only lvs, like <i>G. cruciata</i>
<i>Iris dolichosiphon</i> #	fl small lilac [<i>I. goniocarpa</i> ?]
<i>Oxytropis</i> sp.	

- Primula minor* #
Rhododendron nivale boreale
Sibbaldia sp.
Solms-laubachia lanata # extremely rare, 2nd record of this sp. [S. eurycarpa]
Sorozeris hirsuta
Thermopsis smithiana # fl yellow [T. yunnanensis]
Spongocarpella paucifoliata

Chaktreng – Du La – Daxueshan - Wengshui 3 000 - 4 400 m, 9 june

Du La (tibetan for dusty pass) 3 820 m

- Caragana franchetiana*
Pinus densata
Rhododendron davidsonianum fl pink-lilac, fragrant
Rhododendron orthocladum #
Stellera chamaejasme ssp. *chamaejasme* # fls pink

Short stop past Du La, 3 770 m

- Berberis* sp. #
Lonicera aff. *obovata* # fls paired, hanging
Lonicera webbiana # long protruding stamens
Leptodermis sp. #

Stop by creek past Du La, 3 840 m

- Anemone rivularis*
Caltha palustris
Cardamine macrophylla
Pedicularis glabrescens #
Primula sikkimensis
Primula secundiflora
Ranunculus tanguticus #
Spiraea compsophylla #

Another stop at viewpoint with flags, 4 200 m

- Androsace rigida* #
Clematis gracilifolia #
Rhododendron oreotrephes #

Lunch stop below Daxueshan La 4 200 m

- Cardamine loxostemonoides* #
Cerastium sp. #
Chrysosplenium davidianum
Corydalis atuntsuensis # fl yellow [C. pachypoda]
Corydalis hamata fl yellow black tipped

<i>Corydalis pachycentra</i> #	fl blue
<i>Cremanthodium rhodocephalum</i> #	only lvs (Tussilago-like), margin hairy
<i>Dontostemon pinnatifidus</i> #	fl white, Brassicaceae
<i>Draba ladyginii</i> #	fl white
<i>Draba polyphylla</i> #	fl yellow
<i>Gentiana prattii</i> #	annual, small white fl, triangular basal lvs
<i>Hemilophia sessilifolia</i> #	fl white, Brassicaceae [H. sp.?)
<i>Huperzia</i> sp. #	
<i>Meconopsis integrifolia</i>	
<i>Primula chionantha</i> ssp. <i>sinopurpurea</i> #	fl purple [ssp. <i>sinoplantaginea</i> ?]
<i>Primula dryadifolia</i> #	
<i>Primula involucrata</i>	
<i>Primula minor</i>	
<i>Primula secundiflora</i>	
<i>Primula sikkimensis</i>	
<i>Rhodiola fastigiata</i> #	
<i>Rhododendron aganniphum</i> #	
<i>Rhododendron phaeochrysum</i>	
<i>Rhododendron primuliflorum</i>	
<i>Sibbaldia cuneata</i>	fl yellowgreen
<i>Trigonotis</i> sp. #	like a forget-me-not

Daxueshan La 4250 m - 4 400 m

<i>Androsace yargongensis</i> # *	no fls
<i>Cremanthodium campanulatum</i> # *	only lvs (Tussilago-like), ± glabrous
<i>Draba ladyginii</i> *	fl white
<i>Draba polyphylla</i> *	fl yellow
<i>Lagotis alutacea</i> # *	
<i>Lagotis praecox</i> # *	
<i>Meconopsis rudis</i> # *	only lvs
<i>Oxygraphis glacialis</i>	
<i>Parquilegia microphylla</i> *	
<i>Pedicularis oederi</i> # *	
<i>Potentilla</i> sp. # *	woody, only lvs, on limestone rockwall
<i>Primula chionantha</i> ssp. <i>sinopurpurea</i>	fl purple
<i>Primula minor</i> *	
<i>Rheum delavayi</i> # *	
<i>Rhododendron aganniphum</i> #	
<i>Saussurea leucoma</i> # *	
<i>Saussurea quercifolia</i> # *	
<i>Salix lindleyana</i> # *	
<i>Saxifraga decora</i> *	sect Porphyrion, fl pink white, limestone rockwall
<i>Saxifraga rupicola</i> # *	sect Porphyrion, fl yellowgreen, limestone rockwall
<i>Solms-laubachia minor</i> *	fl lilac

Soroseris glomerata *
Spongiocarpella yunnanensis *
Thlaspi sp. * fl lilac
Thylacospermum caespitosum *
Fritillaria cirrhosa
Diapensia purpurea
Pedicularis rhinanthoides
Pedicularis oederi
Meconopsis integrifolia
Rhododendron phaeochrysum
Rhododendron roxeanum
Rhododendron rupicola var *chryseum*
Cassiope selaginoides
Lloydia delavayi
Corydalis linarioides

Fir-Forest below Daxueshan La 3 800 - 4 000 m

Abies delavayi
Androsace rigida
Piptanthus concolor # [P. nepalensis]
Rhododendron oreotrepbes
Rhododendron rupicola ssp. *chryseum*
Rhododendron vernicosum fl white (similar to Rh. decorum)
Rhododendron wardii
Smilax sp. #
Sorbus discolor

Wengshui - Birung gorge – Geze – Zhongdian 3 000 - 4 200 m, 10 june

Birung gorge above Wengshui 3 000 – 3 200 m

Abelia sp.
Acer caudatum
Acer cappadocicum #
Acer davidii
Acer forrestii #
Adiantum capillus-veneris
Allium sp. # lvs with white stripe like Crocus, no fls
Androsace limprichtii fl white, long stemmed
Anemone rivularis
Anemone rupicola fl white large
Aquilegia oxysepala #
Arisaema consanguineum
Arisaema elephas
Arisaema wilsonii # extremely large, like elephas but spadix-appendage hanging down at tip

<i>Berberia yunnanensis</i>	
<i>Betula calcicola</i>	dominant shrub in limestone rockwalls
<i>Buxus sp.</i>	
<i>Corallodiscus kingiana</i>	
<i>Corydalis ophiocarpa</i> #	fl yellowish
<i>Corydalis saxicola</i> #	fl dark yellow
<i>Dentzia glomeruliflora</i>	
<i>Dioscorea althaeoides</i> #	winding climber
<i>Dipelta yunnanensis</i>	
<i>Euphorbia wallichii</i>	
<i>Galium sp.</i> #	
<i>Gentiana intricata</i> #	annual, fl blue with yellow throat and 25-30 irregular stripes, calyx cuspidate
<i>Gymnocarpium spec.</i> #	fern
<i>Iris ruthenica</i>	
<i>Lathyrus sp.</i> #	
<i>Leptodermis forrestii</i> #	
<i>Lonicera mitis</i>	fl pale yellow
<i>Ophiopogon bodinieri</i>	
<i>Paris polyphylla</i>	
<i>Philadelphus sp.</i>	
<i>Podophyllum hexandrum</i>	
<i>Polygonatum cirrbifolium</i> #	
<i>Polystichum delavayi</i> #	fern, leaflets with three tips ending in needle
<i>Populus yunnanensis</i>	
<i>Potentilla cuneata</i>	fl yellow
<i>Primula polyneura</i>	
<i>Polygonatum sp.</i>	
<i>Quercus senescens</i> #	
<i>Rheum likiangensis</i> #	
<i>Rhodiola yunnanensis</i> #	
<i>Saxifraga pulchra</i> #	sect Porphyron, out of flower [S. sp.]
<i>Selaginella sp.</i> #	
<i>Spiraea longigemmis</i> #	
<i>Strobilanthes yunnanensis</i> #	lilac Acanthaceae
<i>Snida macrophylla</i>	
<i>Syringa yunnanensis</i>	
<i>Thalictrum yunnanense</i>	fl white
<i>Thalictrum virgatum</i> #	
<i>Thladiantha longisepala</i>	herbaceous climber
<i>Viburnum betulifolium</i>	
<i>Vicia nummula</i>	fl yellow
<i>Vicia sp.</i>	fl lilac
<i>Vincetoxicum forrestii</i>	

Viola cameleo #
Wickstroemia capitatoracemosa # shrub, fl yellow
Rubus biflora
Prunus serrula
Lonicera webbiana
Cypripedium plectrochilum
Clematis pseudopogonandra
Iris bulleyana

Xiao Xue Shan 3 920 m

Androsace rigida
Anemone yulongshanica #
Gentiana ninglangensis # annual, fl light blue, with 10 weak stripes, lvs puberulent, no meml margin
Lysimachia prolifera #
Oxygraphis glacialis
Podophyllum hexandrum

Paeonia stop north of Geze 3 200 m

Gentiana confertifolia # perennial, fl deeply trumpet shaped, 25 – 30 stripes inside, calyx long point
Hippophae sp. large tree!
Ligularia lankongensis
Paeonia delavayi fl red
Paeonia delavayi ssp. *lutea* fl sulfur yellow
Paris polyphylla
Vincetoxicum forrestii

Nomocharis stop north of Zhongdian 3 500 m

Anemone sp. # fl lilac
Cynoglossum triste
Erigeron multiradiatus
Iris bulleyana
Majanthemum henryi
Nomocharis aperta fl pink
Rhododendron racemosum
Thermopsis alpina # [T. smithiana]
Oreorchis erythrochrysa

Shikashan above Zhongdian 3 800 - 4 400 m, 11 june**Limestone peak and mountainsides north and west of cablecar station 4 100 - 4 400 m and Lixgxi Tso**

Anaphalis nepalensis
Androsace delavayi # * no fls
Androsace granceae # * with rounded lvs. Extremely rare, first photographs since it was desc

George Forrest (1914), see www.androsaceworld.com

<i>Anemone rupicola</i>	
<i>Anemone trullifolia</i>	
<i>Caltha scaposa</i>	
<i>Cassiope selaginoides</i>	
<i>Corydalis pachycentra</i>	
<i>Corydalis</i> sp. nov. # *	fl blue with white. According to Magnus Liden (pers. comm.) a new sp Dactylotuber
<i>Diapensia purpurea</i>	
<i>Draba oreades</i> #	fl yellow
<i>Draba</i> sp.	fl white
<i>Lagotis praecox</i> #	
<i>Marmoritis complanata</i> #	only lvs
<i>Meconopsis rudis</i> #	only lvs, with pimples
<i>Omphalogramma forrestii</i> *	fl purple violett
<i>Oxygraphis glacialis</i>	
<i>Paraquilegia microphylla</i> #	
<i>Polystichum lachnense</i> # *	fern, pinnate lvs, soft leaflets
<i>Potentilla stenophylla</i>	like anserina
<i>Primula calliantha</i> # *	fl bluish purple, white throat
<i>Primula chionantha</i> ssp. <i>sinopurpurea</i> #	[<i>P. sinopurpurea</i>]
<i>Primula amethystina</i>	
<i>Primula apoclita</i> *	fl purple blue, lv long hairy
<i>Primula bryophila</i> # *	fl lilac purple [<i>P. boreiocaliantha</i>]
<i>Primula deflexa</i>	
<i>Primula minor</i> #	
<i>Primula nanobella</i>	fl lilac purple
<i>Primula sonchifolia</i> # *	out of flower
<i>Rhododendron complexum</i> # *	light and dark scales
<i>Rhododendron phaeochrysum</i>	
<i>Rhododendron primuliflorum</i>	
<i>Rhododendron roxeanum</i>	
<i>Rhododendron rupicola</i> ssp. <i>rupicola</i> #	[<i>R. russatum</i> ?]
<i>Rhododendron saluenense</i> *	fl purple, low growing
<i>Salix lindleyana</i>	
<i>Salix souliei</i> # *	
<i>Sanicula hacquetioides</i> #	
<i>Saussurea wardii</i> #	[<i>S. medusa</i>]
<i>Saxifraga rupicola</i> #	sect <i>Porphyron</i> , fl yellowgreen
<i>Solms-laubachia zibongdianensis</i> #	
<i>Spongiocarpella polystichoides</i>	
<i>Thalictrum alpinum</i>	

Trail from Pass below Summit to Lingxi Tso and cablecar middle station 4 100 - 3 700 m*Chrysosplenium griffithii* **Daphne retusa* # *[*D. tangutica*]*Gentiana forrestii* # *

annual, fl pale blue or white, heavily spotted/striped

Hackelia uncinata **Ligularia latibastata* **Lloydia oxycarpa* **Meconopsis pseudointegrifolia* # **Potentilla stenophylla* **Primula amethystina* **Primula bryophila* # **Primula deflexa* **Primula polyneura* **Primula sonchifolia* *

lv deeply dentate

Primula szechuanica *

fl pale yellow, narcissus like

Veratrilla bailonii **Pinguicula alpina* *