1949 I

25. 3. 49 - 13. 9. 49

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Calcutta

25th March. BP 2047 = 3840 70° 21.0824. Ht. approx

It was very nice to get off at last after a good many days of hectic planning. Planning - not for the trip, which ought be easy, but for the sake of Tashiding Crockery, wondering what would happen if we did not get a 'let' for Tashiding. Most of this fell on Betty, who also had all the bother of thinking what was to be done in the Homes. We all left, with relief, at 7.30 this morning in Mintri's lorry & in our old Jeep, lent by Tobgye which filled with the Driver, Betty Hicks myself & four Lepchas, two in the Jeep & two in the trailer. All went very well indeed & we reached Rydak T.E. by 5.0pm with no trouble. It wasn't even very hot, nor very dusty.

26th Hatisar - c 250 miles by Raidak from Kalimpong. We thought this part would be very easy. We knew the road to Sankosh, easy & about an hour or so. Tobgyes Driver said three hours easy from there on, but it took us 10 hours & some anxious moments to get here. First the lorry stuck in the ford of the small branch of the Sankosh. Everything had to be taken out, the jeep hitched on to tow the lorry, then all loaded up again. The track was punctured here, & that took time to put right. The same happened at the ferry & a worse leak started. From then on we kept on having trouble with the brakes due to bad roads, leaking tanks &c &c. Luckily we had Tobgyes Driver who knew the road well, & luckily also the road improved for the last 20 miles.

27th Kabare This we were told was 8 miles, 5 along the flat & three up. If it is only 8, then are very long ones & we only got up in 10 hours. The road is easy along the river bank for 4 miles or so,

then turns up a side valley on the left bank ascends very steeply for about 2000 feet. Over the pass one loses 1000 ft at once, starts up again a long climb which continues till within a mile of Kabare. This climbs is on the ridge most of the way. Kabare must be about 4500 ft or so. Nothing interesting botanically seen.

28th March. Surelakha BP. 204·7 = 3840. 70° 1·0844. Ht approx. 4164

This is only three miles. An easy ascent to a pass over the ridge, a down about 1000' the other side. Again nothing of interest, only Rhododendrons at all seen. In 1937 I did not come this awful up down route, neither did I reach the village, but I went to a place called Surelakha, which must have been down in the valley from here. It struck me as very much easier than the route, what's more there were many rhodos in the trees. All the inhabitants so far are Nepalis. It seems very wrong that there should be political agitation here, but there has been, stirred up by a Kalimpong Nepali who came here first to do that. One wonders if he does that on his own, for what he can collect, or if he is instructed by others higher up. Not clear today.

29th March. Camp 6 m. beyond Chungsing or Chungsemo. Cultivation at Surelakha is now quite extensive & extends from where we camped at over 4000' down to about 1500', up the other side of the valley. We lost nearly all yesterdays altitude at once, dropping into the valley bottom crossing the river at about m 2. Then steeply up 500' or so to a pass at m 3. Then more or less level thro' dense forest to Chungsing or Chungsemo at m 5. There are no huts here, but Hill's cattle come here in winter. The only pretty flowering trees seen were Bauhinia variegata & an Erythrina. I think I saw Albizzia Stipulata, but not in flower. Beyond Chungsing the path continues up for a mile, then

steeply down to another valley & small river at m 7. From there ascent is never steep, but is constant, up the river bank, in a narrow gorge which gets narrower as one goes up. The forest is dense all the way. Camp in a small clearing at m 11.

30 March Byiki Sam 9 miles. There was a little rain yesterday evening, but none today, though clouded & close. Bhutanese seemed have met us at camp, but only 27 came, one had to send on for another 22. So kit will not arrive in till very late. The road today was much easier. First up a steady ascent for 1 m. to the Mön La, then very steeply down for 3 miles, less steep for a further 2 miles. Here the valley suddenly opens out & the left bank is a fine forest of Pines longifolia. Path continues easily down slight descent with pine on the left all the way. Beyond the Mangde Chu also are pines. The only remarkable thing today were the magnificent Bauhinias & Erythrinas, which are very common about 2-3000'. Took a lot of flowers but not very interesting.

31st March. Shamgang Dzong 8 miles. about 6500'. 5 hours going slow. We were shooed away from the bridge without knowing where it was & went up the R bank to a queer contraption called a 'Pin', consisting of about 20 long bamboos tied together into a small square platform of 8' on top amidships. On to this boat only one of us was allowed at a time, while two men, one forward one astern pulled the thing across the Mangde Chu by two right male bamboo ~~ropes~~ ropes stretched tight from bank to bank. A return was made because it was feared that we might not

have managed the bridge, which was high over the water, long, and swung from side to side. After that, we had a mile, level above the L bank, & then straight up the hillside at the steepest point we've ever had - Coolies tackled it in wonderful style, keeping up with us on HHis fine mules, which took the hill in a series of short sharp rushes. This continues for abt 5 m. where oak mixes with the Pinus Longifolia forest, which is slowly replaced. And so to m 7, a pass is reached on the ridge, called the TATHA LA. Just over this lies Shamjong Dz, a fine square building on a spur, with a village behind it, & a little cultivation. The most noticeable thing today is that all the young pine trees are burnt. One passes nothing but old fully grown trees, except near the top where it seems little pass has been burning has been carried out. What potential waste has taken place in these forests, & this cannot be put right now. Even if re afforestation is started, there will be a long gap of bareness. It has been clouded all day, & just as we got in at 12.0 the rain started, & we had thunder & heavy rain this afternoon. I hope that will clear away the haze over everything, which takes the beauty away. A few Rhodo arboreum seen, but no others. Flowers worth uninteresting.

1st April. Tesar 17 miles. A long day, starting with a heavy thundershower, which cleared up before we left camp. It was said to have to lose all our altitude within the first two hours. The path goes straight down to the Wangdi Chu, at almost the level of the Nangde Chu. But once over that it goes even steeper up the other side to the Bruksong La, which is not so high as Shamjong Dzong, but not far off it. It is about 4 miles down & nearly the same to

the pass again. After that we meandered along a pleasant reasonably level path through pine forest. Wherever there is a side valley, the forest changes to mixed rain forest abruptly, & then back to pine in a curious & most marked way. So far, we have had three of HH.'s mules to carry us, & I must say we are very glad to have had them. The climbs are very steep & sometimes nearly 4000 ft. Unfortunately the box with the hypsometer in it has been behind both the last two days, & have been unable to take a height. Camp here is about 4000'. Without Tsewpon we would be hard put to it. He can get on with the locals. The others are all completely new, & every time they see & do is new to them, so they are not yet very good at helpful. But they are all very keen willing. We are collecting quite a number of plants, though nothing interesting yet.

2nd April. Kinga Rapden. 9 miles. This was the first clear day, with few clouds till the evening. We all dressed up as much as possible, as we were to be met on the road & might even see H.H. as soon as we got in. So we had a comfortable start at 7.0, getting in about 1.0 pm. Mostly the road was level, but near the end it rises 1000' or more to Yumdra Cholung, before dropping to Kinga. When about 3 miles short of Kinga Rapden, we were met by 2 of HH's men & given tea & saffron rice. He also sent us three very fine ponies, richly caparisoned with gold brocade saddle cloths, to ride in on. The next excitement was meeting the two dancers, with their two man orchestra of surnais. This

was about 2 miles from camp, but then played + danced the whole way in. How they manage that I cant think - up hill, down hill, over muddy patches, small streams so on - the music + dancing continued. They are dressed in very bright clothes, the dancers in white skirts + many coloured top half clothes, with a little brightly coloured cloth adorned with a fur ornament. The sarnai players are in red flannel. This all caused the greatest excitement locally, + our procession was joined by everyone, men women + children, + also by all the coolies carrying our loads. We reached camp Kinga after a pause to get scarves ready in case the R. + two Maharanis were there to meet us. But they were not, so we had a rest here till HH. came at 3.0. The camp is a magnificent place, with three large tents for us, an E.P. tent for reception + another huge tent for our kit, besides a kitchen with a good chula made. Everything is laid on, + our wants catered for. At 3.0 HH arrived. He rode up + got off his pony 30 yards from the door, where we all went to meet him. I was surprised at the way he has changed. He has become very fat + flabby + the few yards up hill walking made him very out of breath indeed. I should think it may well be that he drinks now. At any rate he has aged greatly. But he is still the pleasant thoughtful man he always was to meet. He remembers all the old P.O's, + asked after them all by name, Bailey particularly. He seems to have been HH's particular friend.

B.P. at Kinga 201.8. Temp 66° Ht. approx 5800'.

3rd + 4th April. Halt. Rained, with mist often down in camp most of the time, but very heavily at night. We had lunch with HH. on 3rd, in

Estimated Cost.

All	50 coolies	to	Bumthang	150		
"	"		Lhuntse.	300		
				450	+ Rs 150 exp.	600
Betty	35	"	" Tiyangsi.	210		
			Shingbe	140		
				350	+ Rs 150 exp.	500
Six weeks	in		Shingbe		500 expenses.	500
	35 coolies	to	Narimthang 12 days	420	+	420
2½ weeks	in		"		250 expenses.	250
	35 coolies	to	Bumthang	420	+ 230 exp.	500
						2170
						Say Rs 2500
						Take 3000

G.S.	18 coolies at 35 days moving	660		
	Expenses.	340		
		1000	Say 1500.	Take 2500

Cash taken from HH. 2000 + 3000 Rs 5000/— 6.4.49

" " " " 1000/— 30.7.49

HH great ceremony, with the dancers to meet us & all the accompanying tamasha. But meals with H.H. are always private. No servants are allowed in the room except to serve, & then only for the minimum time. Even so a meal is a bit of a trial. On 4th H.H. proposed a picnic, but it rained & misted, & we put it off. An army of servants had already set out, with food etc, but they were recalled, & the unwanted food sent in to us in enormous bowls fish. Spent the day in reorganising a few things.

NB HH 5th April. Hail. Again rain & mist all day, no sun. H.H. sent to say he would come up after our lunch at about 1230, & would like to have a friendly talk & stay to dinner. His usual hour for dinner is 9.0 pm, but we cd not manage that, & compromised at 7.0. He arrived a little before 12.0 & left at 8.0, so we had a pretty hard afternoon, but still a pleasant & I hope a profitable one for all concerned. He led me away after lunch to have a talk, and we talked for fully two hours or more. We discussed the Treaty & all the possibilities of various clauses in it. "Why would India not hear of any arbitration?" There seems no answer except that she will not accept any arbitration that is fair. HH Forests I told H.H. about the awful present state of the pine forests between Bhatti & Sam & here. The forest are only of old fully or more than half grown trees. Young trees barely are to be seen. All are burnt when the grass is burnt annually. I suggested either shutting off whole areas, never to be burnt, or of shutting areas for 5 or more years at a time. The grass is only burnt to get fresh grass for cattle grazing. When I asked H.H. how many cattle there were in the 25 miles of forest we passed through, he said "at

"most 300". I hope something may be done, because certainly already many lakhs of rupees worth of damage has been done in the last 30 years or so. H.H. was undoubtedly interested, & doubly so as the new Treaty although it promises 5 lakhs of cash annually to Bhutan, also says this may be stopped at any time if the Treaty is not kept. This sounds like a convenient Loophole. We also talked about Tashi Tsering, & H.H. said that he could travel where he liked in Bhutan. I still hope to have further talks, as H.H. seems to like it. H.H sent three soldiers up the Bumthang road to see what flowers they could get, & they brought back Prim. bracteosa, a Nagodia & a Daphne that were interesting.

8th April. Our time here has not at all been lazy. H.H. has entertained us fully & we have entertained him too. We were down on 6th to watch Bhutanese dancers, male & female. ~~At~~ & next day we had H.H. up for a good long session, 1·0pm till 5·30. He was then in great form reminiscing, mostly about his Calcutta visit & various doings of P.O's Cowell, Williamson, Bailey or Bell. Mostly he talks of Bailey, of whom he certainly has the highest opinion. He would very much like to see Bailey again, & thinks he may come here sometime yet. I know Bailey is anxious to come, & if he does, he will get a welcome: We have not bothered much about flowers, but took a few more yesterday from round about, including Albizzia Schimperi, (18637) which is a fine tree. Tobgye sent a few letters on from Kalimpong, which arrived yesterday. No special news, except that Ludlow got off alright, & that Norman had sold Calcutta.

leave HH

9th April. Zangrapang. 5 miles. BP. 19509' T. 61° 5.0pm. Hr. app. 9150'. 9204

This was a very short march, but we felt we cued not leave HH until a time more suitable to royalty than our usual 6.0 am. So I said we would go when he was ready, that was 9.30. We had had a long + pleasant session with HH ✗ on 8th. He came up again at 3.0pm + we had dinner at 7.0 + he left at 8.0. I talked to him again about the treaty, + more about M.K. + the danger of getting mixed up with the intrigueing of the Sikkim Maharani. He was aware of the danger there, more so because he had just heard from Tobgye that the Sikkim Maharani had induced the Nepalis of Sikkim + some Sikh to go to the Palace to say they did not want the Maharaja, but wanted Indian Raj. This naturally made HH think very much. We later on had games with the two Maharanis + H.H., + the greatest success was animal grab, which so amused H.H. that we had to stop, for fear he would do himself some harm through over laughing. Today H.H. came up again to say goodbye, at 9.30, + we were off at 10.0. He was the same pleasant friendly + thoughtful man as always, + had thought out everything for us + our comfort on the road. The road was pretty steep, straight up behind Kinza Rapden, to the last. There is now a good deal of cultivation for about 2000' up, then the path goes along the edge of the forest, down to a large area of grass. Round about here ~~the~~ there were a number of rhodos. Rhod. arboreum is common, as in R. grande (18660) + some epiphytes like R. Edgeworthii, + rhabdotum,

Tumke La. BP. 189·3° T. 58°. 9·30 am. Ht. 12972'

Gyecha. " 195·4° T. 64° 2·0 pm. " 9525'.

B+W. Film Pack. 1 – 5 Kinga Rapden. G.S. 5. Kodachrome. P. bracteosa.

6 P. bracteosa 18644 view in forest near Tumke La

7

Dev. 11/4. 8 P. mollis. 1869 On Tumke La to E a

8 o3. pr. 2 x Normal. 9 Magnolia · 18648 view with Ngadup naugyal.

10 P. bracteosa. 18675 Views N. to snows from path E of La

11 P. Whitei by stream. 18676 P. Whitei by stream.

12 Rhod. ciliatum. View from Kyikyi La to Donkhar a

Tumke La. 11/4

Dufaycolour. 1st batch. 1 P. bracteosa Byakar D3. 11/4.

G.S. ① 2 mollis ~~filipes~~ Crab Apple. Bumthang 13/4.

3 bracteosa

4 Whitei (without filter)

5 Whitei.

6 Rhod. ciliatum.

Kodachrome CS 1	CS 2		CS 3.	C.S. 4
Bauhinia 3 shots 30/3	Over Wangdi Chu.	1/4	Namtin image	H.H. + Herh going fishing
Boat at Byeti Zam 31/3	Bauhinias "	1/4	Arriving K. Rapden. Dancers 4/4	
Cooliers in worship Shamjung 31/3	Mules + coolies	1/4	Dancers	
	Doctoring.	3/4	Dancer at Palace.	
			H.H. + Her H's children. 6/4	

Magnolia which were not in flower. Magnolia Campbellii (18648) was a very fine sight indeed, in full bloom, very common. Of primulas we found P. bracteosa (18644) almost over, another I don't Primula think I have seen before, perhaps P. wollastonii (18669). It is really lovely to get away on trips again. We had a fine day with interesting flowers on the whole. Fine, clouding later, wet at night.

10th April. Gyechar. 10 miles. 195·4. 64°. 2·0 pm. 9525'. There was some rain at night, the day was cloudy with bright intervals. We were very early up & off by 545 which was good for our young team. Having two HH's men helps a great deal. They are good & what's more than are prepared to work. P. bracteosa Primula was very common on the way up, & I took it again in better flower 18675. While taking it, I saw growing with it P. gracilipes 18673, which was very pretty there. P. bracteosa gives place to P. gracilipes about 11500', Later on, further up, we came across P. Winteri 18676, it was common up to the top & much further down this side. I must say I think it one of the best primulas there is. It was markedly short of the usual farina, in fact showed none of the copious farina so usual while we found some quite low down on this side. The Rhod. Smithii 18677, 18682 path up & down is quite good, & the Tunla La is about 12900' (BP 189·3. 58°. 930 am). We made it 5 miles up & 5 down, the east side being easier on the whole. Vegetation changes rapidly. Rhododendrons & abies predominate at the top, & give way suddenly to Tsuga, Picea & Pinus excelsa, the last of which continue down here. I saw two pairs of magpies here this evening, & have seen them

Kodachrome BS 1

Bauhinia 3 shots 30/3 .
Bridge at Bjoti (Pim) 31/3
Ascent to Shamjong. Cowries 31/3

Sent 4.4.49

G.S. 2

Over Wangdi Chu. 1/4.
Bauhinias at Wangdi Chu 1/4.
Rules & cowries 1/4
Doctoring at Tesar 3/4.

Sent 4-4-49

G.S. 3

Nautin village.
Arrival at Kinja. Dancers.
Ditto Dancers.
Dancers at palace. 6/4.
HH & Herdt & children 6/4

Sent 8/4 with BS 1.

G.S. 4 = B.S. 1 ??

in July also (perhaps 1st week Aug), then must breed here.

11th April. Chamtchar (Bumthang) 8 miles. c. 9500'. It rained very hard last night for a good many hours, but stopped as we got out at 5.30. We went the quickest way, over the Kyikyi La, 11600', + down right at Byakar Dz, just beyond which we are camped. Here I had expected that we would be left alone, but no sooner were we in than large presents started to arrive from Pintso Wangdi + Ashe Choden Pokten. These were of foodstuffs, but still meant something in return. We saw little on the way. Rhod ciliatum (1868) was a new one for us, + we also got a good Barbatum Series Rhododendron (1868 Smith). Beside the Dzong (Byakar) another rhodo is in flower, (R. virgatum) 1868 which we last saw in Tongsa, but there it was a much finer plant. Here everything has been made easy for us. We have ample food: HH. has produced two mds. of atta to add to our supply, + with all the butter + rice we have been given, we need for little. I developed my first film pack, with good results. It will be nice again to have a halt tomorrow. With new people with us, there is much more to do than with old. When we had Pintso + Tendup, Rangzang + Cutha, the camp + bundobast ran itself. HH. has given me a very good man in Ngudup Namgyel who has authority to do anything, + he makes a very great deal of difference.

12th April. Halt. Rained part of the night, + off + on all day today. We spent most of the day in camp getting things ready for the next jump to Lhuntse. More presents came in, + Pintso Wangdi sent food for us all as far as the Rudo La. Bette + I went up a side valley + found a Prunus 1869, like the Kangbonga La one, + a very beautiful Crab apple (1869) which we must try to get seed of.

Prunus cerasoides 1869

Malus sapeheana 1869

BTW. Filmpack 2.

1. Crab apple. ✓ lespedezaeus 18690 Bumthang 13/4
2 Village at Tang. 13/4.
3 Crab apple tree. lespedezaeus ✓ 13/4 18690
4 Rhod. arboreum 13/4.
5 P. gracilipes. Pokpe 14/4
6 Rhod. Nadd. Ser. [illegible]. 18720 Griffithianum
7 P. cerasoides v. rubra. 20115
8 Ashe Wangmoo & Betty - 17/4.
9 Village near Lhuntse Dz. 19/4.
10 View to Simpli Dz. from Rip La. 23/4
11 Bryocarpum himalaicum 18744
12 Primula Normaniana. 18740

Dufay collection 2nd Batch.

1. Crab apple 18690 13/4
2 Crab apple tree " 13/4
3 Rhod. arboreum by river 13/4
4 } P. gracilipes. Pokpe. 14/4.
5 }
6 }

Dufay 1-2 sent on 15/4/49.

G.S. 6. Kodachrome.

Crab appl close up 13/4 18690
" " tree. 13/4.
P. gracilipes. Pokpe. 14/4.
Rhod Nadd. [illegible] 18720 (3) Griffithianum
Prunus cerasoides v rubra 20115
Ashe Wangmoo & Betty. 17/4 Sent Kurseong 21.4.49
Rhizzica Sherriffii. 19/4.
last 10 ft. stuck.

Dufay 3.

1 & 2 Rhod. Nadd Ser. Griffithianum 18720
3 Prunus cerasoides v rubra 20115 ✓
4 Bryocarpum himalaicum 18744 ✓
5 & 6 Prim. Normaniana 18740 ✓

It will again be nice to be away from here, with all the presents & people hanging about. Lhunbe should be the only place now where we may have some ceremony. After that we leave Dzongs 16th August 15th, back here again.

13th April. Bumthang/Tang. 10 miles. Approx 10000'. Little rain last night, air had begun to clear by 5.0 this morning. We were off at 5.45 & in at 11.0. The path goes up over a spur to the Bada La about 3 miles from Bumthang, then down & up over two smaller spurs, the last just close to this place. As we came down from the last spur, we passed the village of Gyema shong. Where there were many crab apples, some Prunus & also currants. I have asked the headman to collect seed of the first two, locally called 'LIGCHUMA' or 'PRAHALI (crab) & LIKSINGMA (Prunus). By 9.0 the sky was clear & we had the prettiest day we've yet had, mostly sun, but with big cumulus clouds in the sky. The path is uninteresting, because it goes through pine forest (P. excelsa) all the way, & there is little else to be seen, except in small side valleys. Prim. denticulata still everywhere, & occasionally P. gracilipes. We are under Pubso Wangdis care now, & he has sent men ahead with food & all sorts of things for us. I wish we'd never got away from it all, kind though it be. In Bumthang I again saw several pairs of magpies, & have also seen them here & on the way here.

14th April. Pokpe. Rudo La W. side. 5 miles. BP. 191.8 Temp 58°. 1.30pm Hr approx 11494' (11500). A very easy day, even the ascent being an easy one. The day too was good although there was a little rain last night. Up here there is almost nothing. The forest

on the way up is Pinus excelsa. Up here there is nothing but
conifers & rhododendron. The pines have given place to Spruce (Picea Smithiana 18702)
(Ba shing) Tsuga (Se shing) Fir (Dungshing) & some larix
(Sa shing). We saw some very nice P. gracilipes - also (Rhod. thomsonii 18697)
Bryocarpum himalaicum (1866) just coming into flower. There is a
great deal of cultivation in the Tang valley, not only low down
in the valley bed, but right up close to where we are here,
over 11000 ft. Our people were amused when we asked the
locals about fields which we saw had had buckwheat in them
last year. "Would they lie fallow this year?" we asked. "Oh they
won't be used for at least 12 years again"! was the answer. The
owner just goes to another bit of land. This is awful
near Kalimpong where land can hardly be got, & then at
Rs 600/- an acre, was wonderful.

15th April. PIMI. (9690) over the RUDO LA. (12,600) 5½ hours 11 miles. A beastly day.
When we hoped so much for a fine one. It was snowing gently as we
left at 545 this morning. After a slight ascent, the path is almost
level till 11 & when a steep ascent brings one to the Rudo La at 1115.
We had a glimpse of blue sky suddenly, & a small patch of sun, but that
was all, it snowed all the way otherwise. The wind was cold on top.
Our mules went back from there. This side descent very easy for an hour
or so, then suddenly the path goes downstairs, & continues downstairs
for more than an hour before easing off. The ridge is followed all the
way, & for that reason no flowers were seen, except one Rhodo, & (Rhod. anthopogon 18703)
P. Calderiana in fat bud, covered in farina, & smelling its usual bad
smell. Asha Wangmoo sent wine & food for us, to meet us at the
pass. Here a great place has been prepared again, against our visit,

† but with Hits orders. A bad day.

16th April. KHINAY LHAKANG. 6½ hours, including many halts for flowers etc. about 10 miles. c 6000'. At last the day broke fine, but we had little sun, as almost with daylight, clouds began to roll up, & continued till we had a little rain in the evening. But the day was a good one. We filled two presses to overflowing mostly with quite good flowers. In fact we left quite a number for which there was no room. This morning we were off very early, just before 5.30, & we just let the coolies go off ahead, while we came on slowly, trying to collect. There were some good things right away. Just below camp we took a tree (18718) with masses of trusses of white flowers, which is a very fine sight when fully out. This we hope to get seed of. Then we found a big Grande Rhododendron, which may be R. Macabeanum 18719. Beyond this was certainly the finest thing we have yet seen, a Rhododendron which I took to be of the Maddenii Series 18720, but which I cannot make into anything in the Rhododendron book. This is a tree of 20-30 ft, with a nice clean smooth trunk flaking bark, & lax trusses of 3 or 4 enormous flowers. When these are in bud they are a good pink, & even when first fully out, they are pale pink, but fade white later. The curious thing is the absence of glands on any part but the ovary. I suspect that this may be a new one. It is a real beauty, should be hardy, & we are practically certain to get ample seed. Next came several trees of Prunus cerasoides var rubra, magnificent trees up to 60 ft high. This we have now found in Pome (Compa Ne), E Burma (Gamti Chu) & here.

NB

Rhododendron Macabeanum 18719

R. falconeri 18719

R. griffithianum 18720

Nothing else was outstanding, but these three finds were enough to make the day a good one. We got in at a little before 12.0, all rather tired. The path was not steep at first, + in fact was flat for a good long way before dropping steeply down about 2000' to Ungar, where there is a fine bridge over the river. Here the coolies were changed. The path then is gradually up the rest of the way, with a few steep climbs after the village of Drula. Ashe Wangmoo sent more members out to Ungar, + 3 mules to meet us here. She says she is coming to see us tomorrow. Curiously enough the red Prunus is called here SKAMGÖN, the same as in Pome. Locals also say there is no seed, as in Pome

17th April. TAKILA. 11½ miles. 5½ hours. This is exactly the same place as we stopped at in 1933, but then it was called Tamashu. The road today was not interesting. It is nearly all through a 'dry' zone of oak + Pinus longifolia covered hillside alternating with quite extensive areas of cultivation. We got a number of flowers, but none of any particular interest. We were in at 1130, + then waited for Ashe Wangmoo to arrive. She came an hour later + sat in our tent for three hours while we tried our best to talk intelligent Tibetan to her. That was not easy, + was a strain. Then she set off preparing dinner for us in two tents she has prepared a short way away. She now lives at a place called SAMDENTSE, + is building a monastery at Jangchöling. The hillsides here again are covered with Pinus longifolia which has been badly burnt, + there are few young trees. BP here is 201.5. T. 65. Ht 5964'.

18th April. Halt. Ashe Wangmoo persuaded us to stay a day with her. We could not refuse, + in any case we are not in a hurry. We have had a

great deal of rain, again today. I don't remember this at all in 1937. Sometimes the morning is fine, but always rain starts in the evening or at night. It is at any rate better like that than rain in the morning.

19th. Kunzam. c 4 hours 8 miles. BP. 205.2° T. 67°. 6.0pm Ht 3850'
Quite an interesting day, as we got 21 flowers, though nothing of outstanding interest. Albizia Schimperi is again to be seen, a lovely big fine tree indeed. I got seed for the first time today. The path drops down very steeply on an insignificant path which was very muddy + difficult to walk on. It drops down to the main bank in 3 miles or so, then is easy up the bank all the way. The hillside is bare thereabouts, with some Pinus longifolia, except where a side stream comes in.

20 + 21st April. Halt. Mostly rain. Today we heard that the bridge over the Khoma Chu just below camp was carried away. That means Betty & Co must go all the way up the side valley to Khoma, + will not reach Lingitsi tomorrow. We have had a great issuing out of rations from the Dzong. His orders are that we are all to be fed free, it seems. I have kept a list + will try to settle with HH later. There have been large sick parades here, mostly worms & gonorhoea, even boys of 14 suffering from the latter.

22nd April. Pangkar. (Camp 2 miles beyond) 8 miles. BP. 195.7° Temp 53°. 1.0pm Ht. approx. 9116'. Just fine up till 11.0, then rain the rest of the day. Betty + Hicks had to come with me as far as Khoma where the next bridge over the Khoma Chu is. So we walked up together, + parted there. Betty was very good + showed nothing when the

time came. It is much worse for her than for me to be off alone now, & I hope she won't feel it too much. Hicks has his moods, & can be quite nice, but can also be very trying. It is a long time for Betty to have to wait, & I just wish that the flowering season was in full swing, when there would be ample to do. We should meet in Bumthang on 15 Aug unless I cannot get through from here to the Monlakarchung route, in which case she will stay in Sunkosh Dz till she comes there. The road today was easy up the Khoma Chu to Khoma at m 3. Then up a side valley from the North, called the JUMU CHU for about a mile. Then very steeply up the ridge on the L bank to Sanchar at m 6. We came on 2 miles beyond this, still steeply, towards the Rep La. High up on the R. bank of the Jumu Chu are Gangla & Khoma, where HHis Mother lives, & beyond them Tak Gompa. It is very sad without Betty now, & I will miss her a great deal in the next few months. It is extremely cold up here — colder than I've had it yet, & the wet does not add to the pleasantness. In a clearer spell I saw lots of Nagushia, & when out this evening I got Rhod. kingii, & saw an epiphytic Rhododendron in very much in flower.

NB

NB

23rd April. Halt. It was very cold indeed last night, more so as after hard rain for a long time, it cleared up & there was a touch of frost, & the ground was white. But today has been lovely — the first really fine day we've had in the 4 weeks we've been in Bhutan. It was clear in the morning, & even now at 4.0 pm we are getting some sun. A fine day like this makes a lot of difference. Betty & Hicks are going today to Punakha. Pumi must stopping at Lingitsi, I hear. They will be glad of that. I

Rhod. barbatum 18739
" dumicola 18743
Primula sonchifolia 18740
Bryocarpum himalaicum 18744

Kodachrome C5.7.

Bryocarpum himalaicum. 18744

Primula Normaniana. 18740

View towards Tom Tom from Rip La. Magnolia Campbellii + Rhod arboreum in fgrnd.

Rhod. Lindleyi (2 sheets) 18739. ✓

Sun bird on Piptanthus. 23/4.

Rhod. Edgeworthii 18777 ✓

Rhod Griffithianum 18776 ✓ 27/4

" Edgeworthii by river. ✓

647 sent 6/5

BTW. 2.

1. Rhod Lindleyi ✓ 18739 trees in b'grnd.
2. " " ✓ " sky + clouds "
3. Prim. filipes habitat 18749
4. " " close "
5. }
6. } Rhod. Edgeworthii ✓ hab. 18777
7. Rhod. Griffithianum ✓ 18776
8. " Edgeworthii. ✓ 18777
9. ? " Lindleyi. Dengchung 29/4/49
10. ↙
11. River at Dengchung inter Rhabanese. 30/4
12. " " comp " 1/5

Dufay colour 4.

1 Prim. filipes 18749

2 } R. Edgeworthii. habitat. 18777
3 }

~~4 R. Griffithianum~~ "

5 }
6 } R. Edgeworthii. camp. nr. 18777

Dufay 3+4 sent off from Shamblung 6/5/49

Rip La

spent the morning out near the Rip La. The pass is about a mile from here, & about 500 ft. higher than we are – about 9600'. From there we could see into the Khoma Chu again, & decided, rightly or wrongly to go to Dengchu in 3 days time & to have a week there. Obviously we are still early for flowers some must put off time. The valley looks good. Here everything is used for grazing. I have tried to arrange so that cowlies won't have too hard a time, but that is not easy to do. The only thing we found worthy of note near the Pass was Primula Normaniana 18740 which is a new record for Bhutan. It is to the right of the pass, 400-500' along the ridge to the East, plenty of it. Here, near camp, I found Rhod. lindleyi (18739) in full flower at the top of a tree. Boryocarpum himalaicum 18744 is now common & in full flower in dense jungle. I took photos of each, & considerably amused the locals in the process. From above the Rip La, I could see the mountains behind Sinchi Dzong & also towards Tongtong. Locals told me there was no road to Bumthang from Tongtong, & I'd have to come back this way. We also saw the Pang La, over which Ludlow & I came from Tobrang in '33. Now it is deep in snow & should say very difficult indeed. The Sibsi La seems to go from Sarpang to Khoma: we could see the ridge it crossed. We are right in the Rhododendron zone now, but there is not a great deal in flower, & this place is rather a disappointment to me. But it is nice to see the sun & a blue sky again. It won't be easy to fill in three days here, but I am bound to stay so long now. I wonder how Betty got on, if there [illegible] flowers. This is a

Dem. of Amer. Cranks

Corliss 1874 , 1866?
Thompson 1840
Wiles 1867?
Buchtel 1865 1864
Brallier 1863
Dentic 1864

bad place for ticks + fleas, both of which have given me considerable trouble today. There are cattle about, + we are camped in a regular cattle stand, so we are asking for it really. Perhaps this will be the last camp prepared for us. I certainly hope it will be.

24th April. Halt. Very cold night, but beautiful morning, without a cloud in the sky. But there was much mist down in the valleys, + this gradually came up + took the sun till 7.30 to get through. Then it was lovely again. I'm very glad, as this was the day Betty was to cross the Donga La. They may have had very fine views. We didn't go far. I tried the north face of the dense jungle with no result. Then I sent Pasang down the South face where there was a patch of forest. He got few things, but came up with P. listeri filipes (18749), which I had given up expecting any more. We now have seven different primulas in the bag, which isn't too bad for the first month. None are new, but one is new to Bhutan, + another new to us. While we were drying the papers today at about 1.0, one or two puffs of wind came + lifted a few sheets 30 or 40 yards away. Then a bigger twirling puff came, + took two sheets away — one ½ a mile + the other best part of a mile. The second must have gone 1000' in the air, as we could not see it at its highest point. Both were recovered by Bhutanese from our camp! Prim. filipes is a poor thing, but it is interesting + has not by any means become common. It was plastered on a rock in moss, just as on P. Sherriffae cliff, except that here it was in dense forest. The water here is foul. It makes black tea which tastes awful. I have sent over ½ a mile for our tea water now. We are now bound to go

Dengchung, & I want to go there. I have agreed to stay there 6 nights & then come straight back to Khoma instead of Tak Gompa. This saves the locals somewhat, as the Dengchung people will have to take me the full march. Today has been our first wholly fine day with no rain at all.

25th April. Halt. Another fine day, with just a little rain about 4.0 am for half an hour & then mist which the sun had to disperse. We had a slack day today, & I remained in camp all day, & changed flowers from wet ones to dry ones. We now are down to 3 only three presses. There was sun nearly all day & flowers are drying well. Pasang went off by himself for a jungle walk, but saw nothing at all. I hope tomorrow is fine, as I think we should get a good deal in the wooded E face of the Khoma Chu beyond the Rip La. Betty will have reached Trashigangri now, with a load of the kit they intend to have there. I think that June may be a pretty foul month, as everyone says how bad the flies are there. However we will be pretty high by then, & perhaps they won't worry us unduly. Certainly in June '47 they were dreadful when Betty & I came down through E. Bhutan.

26th April. DENGCHUNG 9. miles. BP. 199·2 63° 12·0. Ht.
It has again been mostly fine, though we started with rain & have had more in the afternoon. All the reports I got were that down here there were no flowers at all, while at Jule there was snow. I am convinced both reports are wrong. Certainly there are more flowers here than we

have yet seen. There are many Rhod. Edgeworthii in flower on the far bank, hanging over impossible cliffs, & a very great number of at least one other Rhododendron which is certainly a Maddenii - perhaps Dalhousiae. I cannot reach either yet. The road is not easy. First over the Rip La at m 1, then very steeply down a grass slope at the edge of the forest to the river at about m 4½. Then up fairly easily to the first village of Khoma Kang at m 6½ 7½. Thence rather steeper up here. The river is almost a fall when first met, & bristly ves in a gorge & a steep drop just there. Hence the Rip La. The Sissi La, although easier than the Pang La, may be a worse pass in the end, because one has to go to Khoma, then up to Pangphar, then down to Khoma Kang: whereas the Pang La route, although higher & worse, comes down to Sawang, just beside Khoma Kang. I hope we will have a busy & good time here, & just hope for a few fine days. There is certainly a lot to be had, either in flower, or just about to flower. I now wish I had arranged to go on to Tulu, but will send Pasang on with a man for a night. It will be good for him too. Midges have now started, & were pretty bad today & last night. I remember them being so bad that when waiting for camp to pack up, I used to always used to stand in the smoke of the cookhouse fire, to get some relief. I think now that Betty should leave T'angsi & go on to Tobrang which is much more the correct altitude. This is the first place I've been in where things really seem to be on the move. There are in fact

a number of Rhododendrons which are new over, & R. Ludlegi on this side of the Rip to a dozen a bit was very common. But it is never easily seen up in the trees where it is happiest.

27th April. Halt. Very wet all night. Fine for three hours this morning, then heavy rain all the rest of the day. We went to a cliff opposite, where Rhodos. cereo be seen. The place is a 45° rock slope, with no soil on it in places, while in others some trees & shrubs have managed to find an anchorage. Obviously every now & then an outcrop on the slope just shoots off to the bottom. It is quite impossible to climb the smooth slippery rock, but we went up the between bits with the odd trees & bamboo, & found it very hard work indeed. There were masses of Rhod. Edgeworthii (1877) & a little higher of Rhod. Griffithianum (1877b). Otherwise the day was rather a disappointment. We had to go on up about 2000' & then down another way. I hope I have at any rate some good photos of these two species. Nothing else of interest seen, except a bit of Rhod Ludlegi, which here is almost entirely a ground growing plant. We came across many fresh marks of both bear & musk deer, but saw none. When we returned, we found some men had brought in masses of Rhod. Edgeworthii for me. What a beautiful thing it is, at its best: the buds are rich rose pink, & opened flowers even retain quite a bit of pink in them. What a pity we constantly have this miserable weather. Nothing could be more monsoony than we are now having. Perhaps in the real season it will be better. I started writing a letter to Betty this evening, & no sooner had I decided to stop than a mail from Kalimpong came in. As it contained two letters for Betty, I decided to

by sending a local over the Sibri La to Charkarkang. I said there each in four days, so as to meet me at Pangkar. A man agreed at the great cost of Rs 5/- + the chance of a tip! So off he goes early tomorrow.

28th April. Hall. We had an absolute deluge of rain last night till a late hour, & that finished the rain for a little, as today has been perfect. But the bridge over the Kuoma Chu was washed away early this morning. It is as well we did our tour on the other side yesterday. The bridge even then was very shaky, & knew it would soon go. Got nothing of interest today. Two Tibetans came into camp, one recognised me. They had come from Tsari Chikchar, one had been a coolie with me round the "Kingkor". They remembered our last visit quite well. Pasang goes off tomorrow to Sulu, for the night there, back on 30th. We tried up a very steep side valley to the west today. I thought Ngudup was nervous all the time, the tow me this afternoon that that valley had come down in a landslip only 5 or 6 years ago, smashed all the houses & killed 11 people. After last nights rain, he expected a repetition it seems.

29th April. Hall. A fine morning, suddenly clouding over, raining by 1.0 pm. Pasang went off at 6-0 & I went up more than half way with him. There was hardly anything to be seen, certainly other than we had already collected. Rhod. hookeri very common everywhere, as is Magnolia Campbellii. I fear Pasang will get very little. Better sunset by now have got my letter & hope will send one back tomorrow. It will be interesting to hear how they got on. While

Kodachrome G.S. 8

Rhod. Lindleyi at Dengchung. ~~28/29~~
Cooliea at Mami near Hashima 8/5
Crossing bridge over Kuru-Chu 10/5
Iris decora Shamsheng 12/5
Lhuntse Dzong. 14/5
Orchid by stream. 18870 15/5
Rhod. rhabdotum 18877 17/5

Sent 19/5 Tang.

Dufaycolours 5

1 River at camp. Deuchung. 1/5
2 Rhod Edgeworthii at .. 18777 1/5.
3 Prim. mollis ~~sp nov~~. 18806. 2/5. ✓
mard 4 Primula No 18846 9/5
5 } Rhod rhabdotum. 18877 ✓ 17/5
6 }

B+W. 4.

1 Rhod. Edgeworthii at camp. Deuchung 1/5
2 Blank.
3 Primula ~~sp nov~~ mollis. 18806 2/5.
4 " " 18816 9/5
5 From Kuru-Chu bridge at Dunkhar to North. 8/5.
6 Primula a Cockburniana 18846 a 18847 9/5
7 Styrax Hookeri. Shamseng. 13/5.
8 Lhuntse Dzong. 14/5.
9 Rhod. rhabdotum 17/5
10 Rhod ~~praeteritum~~ ? 18887 glaucum. 18/5
11 Prim Roylei 18895 18/5 not filter.
12 Prim. elongata 18896 18/5

walking about, Ngudup keeps on asking me questions. We discussed Delhi today, & I a bit mixed as he was under the impression that Delhi was in England. Delhi & 'Wilayat' are the same to him I think. I have told him I will teach him Hindi when we reach Nashima. He also asked if when I went to 'London' I had to pay my respects to the King, & if when in Calcutta I had to obey the Kings orders. In Bhutan the Maharaja is everything. One can see this by the way it is impossible to stop the making of camps. H.H. ordered it: it must be done. It does not matter whether I want it or not. Today we found a good many leeches on the path, not near here curiously enough, but very much further up. Betty will have to look out on these marches, like up to Tsarang, and from Dencharme to Jula. Luckily there are not very many where leeches are said.

30th April Hall. Rain at night, but fine all day today. Pasang got back at 4.0pm, with very little sheep. He seems to have tried hard, but there can have been many flowers out: Particularly he looked for primulas, & am very surprised that he did not find any at all. Probably Jula is not high enough. I don't know how high it is, but perhaps not more than 9500'. He may have got Rheum nobleanum magnificum (1880?). I only went a short way today, & found nothing. It is most intricate how few dogs there are in Bhutan. This village has one only. The reason is there are no thieves. In Tibet every house has dogs to keep away the professional beggars & thieves

1st May. Hall. Thunder rain last night, & a lovely morning today. This is our last day here. I have been looking up my 1937 record & field notes,

I see that by mid May I was collecting a good deal at 12-13000'. So we must fix up a list & see what is to be found in Tibet, beyond Nachima. I wish I knew a bit more about the country, & also how the height will affect me. Here it is alright. Flower specimens are drying very well here, with a good wind up the valley, & with all the sun we have had. But I don't feel there is really anything of interest down here which we will want seed of badly. I have told a boy to collect seed of two things for Betty if he can, if they are ripe, one is Styrax, which he calls Tralishing, & the other a shrub with pretty hanging clusters of long tubed slightly pink flowers, which we first took on the Rudok La, & which here they call Pumpa shing. This afternoon at 3.30 (my time) there was a sharp severe earth tremor, immediately preceeded by what sounded like thunder, but which was presumably not. It only lasted 5 or 6 seconds.

2nd May. Khoma What a day - one puts incident from beginning to end - & what almost amounts to end now, that is 4.0pm. It was fine till we got in at 1.0 pm, then rainy & then fine again. We left at 5.5 & walked down to the bottom of the ascent to the Rip La, about 2 hours going. Then we started to climb, & almost at once I saw a primula I've never seen before, unless it can be a Cortusa, which I don't think. I can think of nothing which it can ever be. It is dark purplish red with a yellow eye, has very large soft rounded leaves, hairy stems & petioles, & then appears to be a Candelabra primula. By the leaves it might be Obconica or Cortusoides, but I don't think

Primula sikkimensis 16806

they have flowers in whorls. And the flowers of this one (18806) are not yet out, but already the second whorl is 1½" above the first. So I can't think what it is. We have not got good specimens as regards flowers, but I hope we will get seed alright as it is on Betty's route. I have had instructions with the man of Dengchung called Chengala that he must show them to Betty & get seed. He has also to collect seed of another tree which I took at Panghan, with attractive Daphne like flowers, from the leaves of which the locals make a good yellow dye, used in all their clothes. So Chengala has to get seed if possible of the following:- "Trali shing" (Styrax) 18802. "Pumpa shing", from Basil 18706. The new primula (18806) and the tree used for dye (18733). I have given him a letter. There were no flower excitements during the rest of the day, but we climbed to the Rip La, certainly 3000', then dropped a similar amount on the W. side, & finally climbed a good 2000 or 2500' up here. I guess I think we have climbed or dropped nearly 11000 ft. today, & the same cooties did it all. This is the home of the half Sisters of H.H. There are three. They sent their mule down for me. One is ~~a~~ a leper in such a bad way that she can't appear. The other two came to my tent a few 2 hours I had to do my best by myself to talk to them. The elder is also a leper or has lupus - her nose is disappearing - but she is quite nice & reasonably easy to get on with. The other was rather difficult. No sooner had they gone than Betty's letter came & that finished a good day. I fear poor Betty will have a bad time with Hicks, but she will have a good time with flowers. It was very very nice hearing from her, it really seems

rather silly that we are so close aged so far away.

3rd May - Chenbi Rongang. 8 miles Ht approx. 6500'

My birthday. Yesterday did not finish when I thought it had. A very filthy man arrived & greeted me in Hindi. He was Tasho, the brother of the girls. They all have the same father & Mother except the lad who has a different mother. He had come in from herding the cows. He was a cheerful soul whom I liked best of all. The younger girl came again with a bunch of nasty hangers on: she wanted medecine for Gonnorhoea. She is not an attractive girl in any way, & her sister, suffering as she is, is much nicer, cleaner & easier to talk to. The hangers on all wanted medecine & were not very grateful for it. I was very glad indeed to escape this morning, though that meant saying goodbye to the sisters. I refused to have them in my tent, so little time was wasted. All the hangers on were I thought unpleasant, & now we also hear that the head man of Kwoma has been doing the locals down by saying that he is to collect rice & other things for me, all of which he knows this order to the contrary. The men had to give quite a lot, none of which I saw incidentally. So we must take some action on this. The road leads up steeply to the Latsi ha at m 1, then more or less flat over steep grass hillside for 2 m. to Tongnangying & so on to m 4 where it suddenly enters dense forest & drops very steeply indeed for about 1500 feet I should think. The path was very muddy & slippery. It had rained all night, but luckily was not raining this morning till after

we got in. There at' about m 5 the path levels off a bit just before reaching here it drops suddenly again. In the dense forest, both close to Rongang a in the very steep bit, there was any amount of the new primula 18806, but again not in flower. Apart from that the march was very uninteresting. Poor Ngudup gets more & more depressed as he hears of where we are going & how long we will stay there. We still don't get very good information though. It seems Nashima would be much good, though the Serdong La might be good, but there is no water within miles of the pass. Tim seems our best bet for the first half.

4th May. Shambling. 6 miles. Very heavy rain all last night until just as we started. Fine but mist & cloud today. We found our primula in flower today, very close to Rongang, & also just beside camp here. Otherwise nothing of interest seen – in fact these last two days have really been remarkable for the absence of flowers. There were, near the pass yesterday, capsules of a lily – either L. nepalense or L. n. var concolor, & there were many Rhod. virgatum & Rhod Griffithianum. But today we really saw nothing at all. We can however, see the snows, not the main range, but a subsidiary running South. Todays road climbs for the first mile round a spur & back into the Kuru Chu valley from the Rongang Chu. Then more or less level the rest of the way, through Naling to Shambling, wrongly marked on the map on the R bank of the Kuru Chu. We do not cross this after Dungkar I believe. The crops of wheat & barley look very good here, & there must be many cattle, for the hillside has been cleared over a big area round about. Above Shambling,

there is another village close to. Rain again this evening.

5th May. Halt. A fine day, lovely morning, till 5 pm when the rain came on again. No flowers, although we went high up the hillside - open arm forest. But I must stay yet another day as Nyidup has got a poisoned foot + cant walk. This afternoon a man from HH arrived with a huge box (70lbs) of tinned things! I dont know how to stop him. We have all we need here with us, + now he has sent nearly half as much again. It is very very kind. Tobgye sent on a letter from Ludlow to him, in which he describes the fishing in Ha as quite wonderful. He also sends Richardsons latest letter in which it seems there will be little difficulty in Ludlow getting on his last visit to Tibet. That is a good thing for Ludlow. With HH's present came a mail from Kpong 13th April, but little news in my part of it. I hear HH has sent on even more to Betty than to me. We must stop this somehow.

6th May. Halt. Fine again up till 2-0pm then clouded down + rain. Pasang + I tried another direction this morning, but we failed to find anything. The last week has indeed produced more than 15 specimens I believe. We must get on up. Mail to Kpong + to Betty + H.H. Thangmoo all off tomorrow morning.

7th May. Dunkhar 7 miles. Another fine day. I just hope that we will have three more fine days. It would make a lot of difference even if we but get into Tibet or wherever it is we are to stay on a fine day, when we can see where we are going. From here we get some idea, but not much.

The difficulty will be to get an open space to think. Here we can see Mashima, which is no higher than this place (6400'). The Sorjong La even does not get the height of the fir trees, & fancy even this may only be at the very bottom limit. We must wait & see, as no one tells the same thing about these places - perhaps because they have never been. Many have told me all about these places, when I finally ask "have you ever been there?" then answer 'no'. From here a persian path goes up the Kuru Chu to Lhakhang Dz in Tibet, & this town it is 4 hard days journey. In the 5 & 6 months (July Aug & I expect Sept) then can go by tomtom. So there must at any rate be a path of some kind up there. All the tales of deep snow are much exaggerated. There appears to be little & none at the lower limit of ascent. Today road rises easily from Shamsling to a pass at m 2, thence nearly level till Dikkhar can be seen, then steep down to m 6 & finally up to the Dzong. Rice, & maize are both growing here now. There are several very big houses & quite extensive cultivation. I have still to have talks with the locals to find out what I can. — I met one man here who was with us in Singhi Dzong in 1933 & remembered Pintso, Pemdup & Kunted who were with us. He gives me most of the local information. This is a Dzong, ran old one, where H.H's Father & Mother came from. There is now extensive cultivation here, almost entirely on this side of the Kuru Chu. There are 5 or 6 villages, all within a mile or two of the Dzong, & large cleared areas higher up for grazing. There is one cane bridge here, over the Kuru Chu, & another some way further up, over which we will go. I must try to take the B.P. there. Across the Kuru Chu a

a mile or two up a side valley below Dunkhar, are hot springs, called Nye Chachhu. The actual village we are at ourselves, belongs to Dopala, Trashigang Dzongpon. It is very hot here, air will be nice to be over the river + on our way up tomorrow. Nashuna is obviously not at all high, + not nearly high enough for us to stay at. Caught a few butterflies today, almost the first we've seen since Kuiga Rapden.

8th May. Nashuna. 6 miles. Ht 7675 A fine, sunny hot morning, sup bit 2.0 pm when we had Thunder + heavy rain. When I was just getting up at 430 Ngudup came + asked if I would stay a day! I said certainly not, unless absolutely essential. There is some trouble with the loads, which I have not yet got hold of completely. Anyway we came on here. 515 to 10.0. The path goes up the L bank + into the Pangong Chu, a big side valley at m 1, then on to Phumpe at m 2, where Tashigang Dzongpon has another house, + there is a picturesque little Chakang on an isolated hillock. Then straight down 500' to the river + across by a cane bridge. And so up the R bank, through Chaksum + Chusa, 2 small villages of a couple of houses each. Then straight up the hillside, as only a Bhutanese path can go, for 2000' or so. There are no houses here, + just a small clearing in the forest. The slope is very steep, + continues so to the Sergen-la, just ahead of us. Ngudups foot has improved in a wonderful way with caps. Mob 760 pills. He has had to walk, as I have too, as there are no ~~animals~~ ponies this side, + Dorjong cannot get up

the path to Hashima anyway. There is a lot of bracken here, + any number of fleas in it. Horse flies + midges also very bad, especially midges. There are a particularly nasty little insect. When this bronze was reported this morning, I began to wonder what I had better do, if I could not get to Tomtom, + thought of going to the Nela to join the others. There is no other road to the east, + none to Suichi Dzong direct. Last night Ngudup was told that there were at least 2 roads going westwards. Both go from Serdna, + one more or less direct to Weitsang in 7 days or so. The other goes to Guru Rimpoches place of some sort, where there is said to be a very big thang or plain, + on from there towards Bumthang, but to the north a bit. Neither is said now to be unduly difficult, unless there is very heavy rain. So it looks as if after all — if we can get the coolies — we may get through to Weitsang, without going back over the Rudo La, which I do not want to do.

9th May. Tin. But not just Tin like that — far from it. The coolies came alright, + we were off at 515, up the steepest path ever to the Serging La at m 2. 10027'. That is 2500' up. Then on on an atrocious path, up + down through dense forest to Tin. Here we waited a bit, + some coolies suggested going on to Tomtom. As they suggested this, I agreed, + so off we went again, the same path, up + down logs + cliffs to another pass Timunggang, perhaps a mile on, but an hours very hard work, up to about 11000'. Then on again into snow, always NW but not very much further. The path was almost impossible for laden coolies, + one fell down with his load + bashed his head.

Eventually we saw Tomtem, & it is far too tight a valley, besides being in deep snow yet. They said originally there would be snow, so I came prepared there, but they said it was only a short way beyond Tim. The hills are so steep there is no possibility of camping other than in Tim or Tomtem. Tim has room for 2 tents, none can set up anywhere. It is a very great disappointment as I have to return to Dumthar, & from there - where? I can go to a choice of two places I think - one to Singki Dzong, & the other back to Bumthang & so to the Mantarkarchung, to Waitsang where I intended to go in July. Betty asks me to Singki Dzong, as there I would see her in July. But perhaps Waitsang would be the best plan of all. I must do some careful thinking these next two days. The decision must be made in Dumthar, & that means by tomorrow evening. It is all a great disappointment to me. Ngudup has been in with various suggestions, but as no one knows anything about paths passes or places, it does not help. I must just decide & stick to whatever I do decide. Bumthang seems to have more places to which one could go, but what a waste of time to go all round by the Rudo La again.

10th May. morning. I have decided definitely to go to Waitsang or Waitsang on the Bumthang Chu. It would be easier to go to Singki Dzong, although to think I had only a month & 3 quarters till Betty joined me. But from all I can hear Waitsang will be an area in which I can get around more. Were I younger & fitter, I would not mind trying this Tomtem so much. With very hard work, one might get good shots. But after yesterday, I had a

bad night + Bronchi I cannot manage. Yaks as then are here. They are too hard work now for me. I sh no sleep at all. We are all having a late start this morning, which I hate, but the coolies are no doubt tired. Our places must now be 11 Dunkhar 12 Halt, 13 Shawsking, 14 a Dzong on Kuru Chu R bank. 15 Lhumbe 16 Halt, 17 Tamila, 18 Ungar 19 Pimi 20 Tang 21 Halt. 22 Shabjitang on the Bumthang Chu. 23 Halt 24, 25, 26, northwards. 27th Waitsang. That is a lot of good time wasted, though the Rudo La may be good after Tang the route is very fairly high, DO should be of interest. Later. We got to Nashima in very good time, so I asked the coolies all to go on to Dunkhar which they did, & we were all in, tired, at 3.0pm., having come very steeply down over 5000' & up nearly 2000'. We have altered dates a little, & will leave here on 12th, are Lhumbe 14th Ungar 16th, Tang 18th Shabjetang 20th & halt there. Many sick people here, as I was specially told, including one of Wangmoo's men who fell off his horse & made a hole right through into his mouth into a stone. In some ways, it may be well I leave this area. Coolies might have been difficult. They have to come from here, & would have to come 3 days march before reaching me to move me 1 days march. And then to Waitsang would have taken, I'm told, no less than 8 nights on the way, besides going into Tibet. All the men up this Kuru Chu valley are not available as coolies. Here, nearly all are HH's subjects, personal servants: so they would come into me. At Shawsking, all are Wangmoos, Ama Choden & Pema Deden's. At Tsinyang they are Wangmoos. These people do not do the ordinary coolie work, except for their owners. Anyway we are off now, for better or worse, it does not matter what happens here.

I must now write to HH + give him the new programme, + to Wangmoo to say I want see her on the way, + to Lhunbe to say I want transport.

11th May. Halt Dungkar Another fine day after rain at night, but only a little. It is nice to think that all being well we should be over the Rudo La before having to halt again. It would be nice to halt on the pass itself, but cookie difficulty makes that out of the question. Now there are five days to get through as best we may before anything of interest is likely to be seen. At Tim we got one interesting primula 18846, which will no doubt be put down as P. atrodentata, but which is more like one of the ones put aside last year for discussion, + which is like my 3636 from the Lo La. With the primula was one other plant 18847, which I have only seen once before, at Trial in Bhutan. I think it was number 3209, taken in Cent. Bhutan, Tang Chu, in 1937. I rather think that was probably a sp. nov. of Codonopsis but has not yet been named. Unfortunately there was but one specimen here to be found, alt, like the primula, had come down from a good deal higher, nearer 13-14000'

Today the Myerchen Trepai servant, Yundrü, arrived. He was one of the many forced labourers at Sam Choling monastery, the new monastery being built by Ashe Wangmoo where Tasho Nakey died. One man per household from this area has to go, + has been there for months. He got him leave to get away from that, so as to come to Tomtom with me. Now we are not going there, I have not been sure what to do, but decided to take him with us as permanent

Kapriok + rukesak carrier. He is a nice looking lad, & I think will be useful. Here there is great demand for 'worm' medecine. Everyone has them, tape or round, usually the latter. Everyone also complains of 'heart' situated remarkably near the stomach, & cured usually with stomach powder. A few have come for gonnorhoea, but not so many as one would have expected. How grand it will be eventually to get to a place we can expect food flowers, & absorbed about. Here we have been shut in, in low, hot valleys. But there are only 5 more days of that now.

12th May Shansheng. Wet last night & rain again this AM today. Our fine weather is over for the while, but it was lovely while it lasted, & made everything look very pretty. Back again in tents this march only takes 4½ hours which means one is in by 9.30, & there are no flowers to collect or look for here. Two messengers have arrived - one from Wanjmoo, & another from Lhumbe Dzong[pon]. I hope for a third, the only one I want, which would be with letters from Betty, sent back by HH's man who took her the box of stores. He should be back by now. As a change of diet, I am having strawberries for dinner, with raspberries if they can be found. The latter are really good, but we haven't seen any bushes near camp yet.

13th May. Timyung Dzong. 4 miles. Ngudup slipped up about these two marches. He told me that from Dumdrun to Lhumbe was, for Bhutanese, more than 2 days march. So I thought I'd try & do it first night. Yesterday we were in at 9.30, today at 7.15! And tomorrow we should be in by 7.15 too I think, as we can see the Dzong. What a waste of good time in the forenoon of

places, the lowest part of Bhutan. They want ask questions, perhaps because then know they wont get a very good answer. But it cant be helped, one must fill in these two days as best we can. The Dzong here is very well built looking, & viewed say OK. There is a fine bridge over the river close about 1 mile downstream – one of the finest I've seen in Bhutan, a bigger than the Trashigangsi Chu bridge by a good bit. I vowed certainly not like to live down here. It is very hot indeed. But the Bhutanese say there is no fever. Yundrü, our new slave, has just come to ask for medecine for syphilis. I'm sorry he has that, though nearly all seem to have some kind of V.D. He tells me Kapo injected him three times a year ago, but with no result. He says it was done one in each shoulder & in the vein of the forearm, & that it hurts a great deal. I dont wonder.

14th May. Lhuntse Dzong. Back again here, but this time camped in a nice quiet place beneath some cypresses above the Dzong, rather dusty in, but pleasant. Ludlow & must have been here in 33. We were in by 8.30 this morning. Very wet last night, cloudy this morning, but just fine. I had a very disturbed night, with many fleas in my pyjamas which I caught in catch. They come in off the cooking clothes, when he is carrying the bedding, or so I imagine. The Timmyung bridge is a fine one, 42 yards from built up pier to pier, with at each end 4 cantilevers. It is quite recently built, only 6-7 years ago, the last one having been washed away in a flood. Nothing interesting in the flower line. I ~~cleared that~~ HH

15th May Menjisi. 10 miles. Wet in the night, but fine today, windy & with a v. strong wind. I had a long talk with Kapo yesterday, who came in the morning again for dinner. He gave me a letter from Betty, brought by Wanjemois Tinley. Incidentally HHis large box of stores, sent off from Lhunbe on 4th to Betty, had only got 1 days march from Lhunbe by May 11th. I dont know what had happened. That has held up other things too, as HHis man cannot return to Bumthang till he has an answer from Betty. Kapo seems to be busy with his syphilis patients, & has a great many. But he finds difficulty in keeping them in Lhunbe. Also he cannot get other drugs for HH. for other diseases. I gave him what I cared spare. It was good to hear again from Betty, though her letter was written some time ago. They seem to have done fairly well, & have also found P. Normaniana. Ischnopa doing well, & Hicks seemingly dried. I hope he can stand it all. We left at 5.15 this morning & got in about 10.30. This is a much better division of the marches — Lhunbe, Menjisi - Ungar - Pimi, & must tell Betty to do the same. We passed another dak today & took ours sent on Betty's reopened. This was a bigger one & was sent from Ti'phung on 29th April. I had several letters from Tobgye, worried about the Treaty & about the Maharaj Kumar's behaviour to him. He has not been at all kind, & his behaviour towards Tobgye is disgusting & disgraceful. I hope now that he will not get Kaysang, who is far too good for him. Norman's letter says that he is off, & he also thinks there may be difficulty about selling Crooker to Mintri, who is a slimy individual. Among other things sent to me is a will which I witnessed many years ago. It is sent in original, & have to

sign a statement that it is all in order etc before a Notary Public. What a hope, in Bunbun. Ludwig is the other witness, so I dont know what the widow of the deceased will do.

16 May Ungar 5.15 to 11.15. Fine till 11.0 + then very heavy rain indeed all evening. Another mail from H.H. passed through. One letter to me one to Betty. I added a bunch of letters for Betty, + they have gone on. A nasty place + a nasty day. Rubber + dam dims very bad indeed.

17th May. Pimi. Rain heavy all night, + all today very heavy after an hour of just being fine in the morning. Off at 5.15, in at 9.30. Pimi in my memory will always be a fine place. I want see it again, + dont want to. I was lucky to get a mule this morning, + found that it cried manage up here really very easily. We came slowly, but took just over the four hours. The only thing of interest really was Rhod. rhabdotum, which was fairly common. It also is easy for seed, as Betty + a surgeon will be able to remember the Carmine Cherry tree. About that about 4-500' is a staircase on the road, there, on the left is plenty of R rhabdotum. It is a most beautiful thing, especially perhaps in freshly opened yellow rich cream coloured corolla with the red stripes. The little Anemone which Hicks took is also very common, within ½ mile of camp, we missed at seed of that too I hope. It is a delicate pretty little plant. No day could be much worse for rain than today. Perhaps it may rain itself dry by the morning. It would be nice if that were to happen. The Ungar people were rather difficult, so Ngudup said this morning. I confess I would be difficult under similar

18th Rhod. keysii 1884.
glaucophylla 1887
pendulum 1888
cinnabarinum 1889

Rudo La

circumstances.

18th May Ganju Tang. A long march over the Rudo La taking from 5.0 am till 2.0 pm. I was lucky & had a mule which nobly carried me to the top of the pass with hardly a bit left out. We took from 5 till 10 to reach the pass, & it was through rain & mist all the way. Curiously the mist disappeared on the west side. There had been no rain this side all day. It is obviously a much dryer side, & the flora showed that. The E side is the one for rhodos without a doubt. There are many more on that side. P. elongata 18897 was not seen on the E. P. Hookeri not on the west. Altogether we got 21 flowers today, all nice. How pleasant to see alpines again after all the low much we seen for 2 weeks or more. P. Calderiana, elongata, Hookeri & Smithiana were taken. P. sikkimensis only in bud. We also got Diapensia, but saw no Pyrocarpum. There was no time to go off the path through. Nine rhodos were taken & a couple of other small Ericaceae. I wish we could have had a clear day on the E side, as it was here. Everything is so much pleasanter. This was a refreshingly good day for flowers again.

19th May Halt. A fine day all day with nice clouds. It is noticeably much drier this side of the Rudo La than the other. The air is very different. I only went out for a short time today & found a wild pear, berberis & a few small things. P. Smithiana is common all over here. The crab apple taken before has minute crabs on it, only so big —o. There are many begging Tibetan about here, all I fear, going my way over the Paipa La to either to Bumthang or more likely to the Mondakarchung La. Ngudup went off to his village, which I guessed 10 miles away over a pass of 12000', just for the night & part of today, as he is to be back tonight.

47

Kodachrome G.S. 9

Rhod. rhabdotum 18877. 17/5.
Rhod ~~[illegible]~~ 18887 glaucum. ✓ 18/5
Prim. Roylei 1889 5 "
" elongata 1889 6 -
Rhod Thomsoni against light "
Primula sessiliflora 1913 20/5
" - . 21/5.
Old man at Ngang Whakang. 21/5

Duplicates 6

1 Rhod. ~~[illegible]~~ glaucum 18887 ✓ 18/5
2 Prim. Roylei 1889 5 ✓ "
3 - elongata 1889 6 ✓ "
4 Rhod. Thomsonii ✓ "
5]
6] not exposed.

Dupes 5 + 6 sent off 19/5/49 Tang

Duplicates 7

1 Primula sessiliflora 1913 ✓ 20/5.
2 - - - ✓ 21/5
3 Enkianthus 1890 + Clematis - 912 ✓ 22/5
4 Rhod. cinnabarinum yellow. 24/5.
5 " campanulatum ✓ 25/5
6 Saxifraga 1897 2 ✓ 26/5

B TW. 5.

1 Primula sessiliflora 1913 20/5.
2 - " - 21/5
3 Old man at Ngang Whakang 21/5
4 Enkianthus 1890 + Clematis 1892 22/5
5 Rain drops on rose leaves. 23/5
6 River below Pang Sang. 25/5
7 Rhod. cinnabarinum yellow. 24/5
8 View up to Kankarpunsum from Pangotang. 24/5.
9 Rhod. campanulatum on Wallichii 25/5
10 Saxifraga 1897 2 . Pangtang 26/5
11 ? Calderiana white form. 27/5
12 Rhod. ~~[illegible]~~ ? (1899) R. elongata 28/5
Balemanii

There are still a number of magpies about here, so they certainly breed. Also since we were here in April, there are many quail in the standing crops. One can hear them all day. I send off a mail from here to H.H., Kalimpong and Betty via HH.. Also tomorrow morning Yundrum will take in a box of dried flowers to go to Pyakho Dz. with our other boxes.

20th May Takhung About 5 miles. Heavy rain last night, fine this morning till 11.0. This was a nice march, up the Tamur for a mile or so & then cross to the R bank up a side valley, called the Takhung Chu. The path is half over open grassland & half through easy forest. The whole country here is very open & pleasant looking. Crops look very good this year. Here they are barley & wheat almost entirely. We have come up quite a bit, so I was surprised to see the alt. is only just over 10000'. I have always called Tang the same height as Bumthang which it probably is not. It cannot be above 9000 at the outside. Today we found one more primula to add to the total, now 13. This is P. serratifolia (1913), common in the forest beside streams. This seems rather low for it. I have always found it mostly about 12000'. This is a grand camp, but owing to being 1000 ft. higher. The forest is mostly tsuga & picea. Near Bumthang as we are, the locals make very good camps for us. I allowed Ngadup to persuade me to say we should camp here. Here, in a lovely open place, the servants have a fine hut, while I have a very fine latrine - as if one ever used such a thing here. However if I don't use it, I see that a cow at any rate, has fine in used it much more fully than I ever owned I have.

21st May Shabjetang Very wet last night, rain almost till we were

Rhododendron 18921.
Campylocarpa 18924

49
Pelpila

over the Peipe La, at 6.30. We started at 5.0 ~~am~~ & in about 10.0 am going very slow. The pass was a disappointment, & we saw nothing of interest at all. There is a great deal of dense small bamboo, & nothing else much except grass in that. But there were some nice looking cliffs, which I scanned carefully through the binoculars, hoping for P. Hazeliana or some other primula. But I cd see nothing at all. Now we've got to our second choice of valley, & it is much nicer & more promising looking. Here the valley floor is about 10000', & I should think we rise about 1000 ft per day. I'm sorry we must stop tomorrow, but that is as arranged. H.H. has not forgotten us. He has sent in all 3 loads of rice, a load of wheat & a load of other foodstuffs. That should see us through a month or two. Yundin also returned, having left our box of dried flowers with our other boxes.

22nd May Halt. Wet at night, fine nearly all day. "Shabetang" refers to Guru Rimpoche's foot (honorific) which he put on a stone here, & the mark is in the local Lhakhang. Passang & Yundin went out at 6.0 this morning, & P. climbed to the top of a largish hill & back after 1.0 & only saw two flowers. Ngudup & I saw nothing in flower. Yundin sick to return. So his load were off tomorrow. I have seen several things nearly in flower — the big red rose, not R. macrophylla (I vowed say; a Deutzia — a Philadelphus, all in bud. And we saw a few of that woody thing Streptopus simplex in bud too. I don't know what the altitude here is. The map has it marked clear enough at 9860. But I've taken hypsometer readings twice & with different thermometers, & only make it 9100'. There seems to be quite a lot of coming & going in this valley, & we cannot be

find it easy enough to send down for anything we want. Ngudup says that HH. also sent off 5 loads of food to Betty. The locals will begin to curse us if this goes on much more. I think now we can't want any more.

23rd May. Shimitang. 4.45 to 1030. A perfect day with not a cloud till we reached camp. The route too was pretty & grand the whole way & was always interesting, although we did not get much. And camp here is the first camp that I have altogether liked. There are no more leeches, so we camped near them. We are under huge tsuga trees, with rhodo & other shrubs around, & a nice grassy sward. Ngudup had sent on to have a place prepared. Whoever prepared it, cut up all the nice turf, turned it, made it rough, & sprinkled over the top juniper branches. I found my tent pitched there when I arrived, but moved it at once. This is the first really first class camping site we've had. I went out & up the hill a good bit, but found not a thing but ticks & a few rhodos which we already have. The river all the way up today is in a fine gorge, with often very imposing cliffs, & altogether it looked beautiful with these huge tsuga trees on either bank. Now Sasang & Lyundra have disappeared. They are both keen to get more flowers. I hoped for a primula today, on some of these cliffs, but we saw none but P. denticulata & Smithiana. We are borribly sick for tea. Low.

29th May. Pangotang. 5.0 to 9.30. About 6 miles. Another lovely day, clouding up pretty soon, but clearing again, sun nearly all day. Good also for flowers of which we got 16, including the yellow primula elongata 16946 taken on the Rudo La, & also what may be P. Barnardoana 16946. P. Calderiana 16947 purple, P. Calderiana white 16954, P. atrodentata 16957. Funnily enough, P. sikkimensis doesn't even show leaf, yet on the Rudo La the flowers

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Kodachrome 10.

Papilio machaon. Shabjetang 23/5.

Enkianthus 18909 + Clematis 18912. 23/5

Rhod. cinnabarinum yellow. (2) 24/5

Up stream to Kantarpiasum from Pangotang: 24/5

Rhod campanulatum Pangotang 25/5

Saxifraga yellow .. 18972 26/5

Primula Cockburniana white form, above Pangotang 27/5

" " mixtures. Waitang 28/5

" " " 19000 ASC " 28/5

Gone sent 1/6/49

were just opening on 18th. Rhod. setosum, & R. anthopogon are just in flower, while R. campanulatum (18956) is really beautiful in full flower. R. cinnabarinum (18949) (relem) also v. prolific, & R. camphylocarpum common. Cassiope tomm also, & Pinguicula. Obviously we are nearer the real thing now, & the only stupid thing is that I am not feeling too good. Ever since last night I have felt rather poor, partly heart & partly I think a cold or else a poison from a tin of bad meat sent up by the Nyerchen Tsapa. Anyway here we must stay for a while, as we have such a hell of a place picked for us. I am enclosed in a fir zareba, which is nice enough here where there is a strongish wind. The servants have a palatial wooden Sinet hut, big enough for dozens. The local Sokpon, in charge of all the Drogpas is here, & a nice man. He will be the man we rely on from now on, & of whom we will have 12 or 13 yaks always with us, & can move about as we like from now on. I will first ride up to Waitang to see what the place is like, & then we will move camp. But we cannot move the servants place. They must now learn to live in a tent for a change. This is at the junction of 2 equal rivers - that from Waitang & the North, & another from the West & also from the Chachu La. So we can get about both from here too. But we are really too low, as anyone after the higher altitude things would have to go 3000 ft or so, & that is more than I can manage anyway. I make the place only 12050', the map 12450

25th May. Hall- Another good day for weather, but a poor one for me. I had a bad night, with no sleep at all. But the morning was so good that I went out for a couple of hours forbidden, & came back with a temp of 101°. So I've spent the day in bed. Pasang & Yunden got quite a good press full of flowers, but still the primulas. like P flabra, floribunda, macrophylla & macrocarpa are missing.

26th May. Halt. Again mostly fine, but not clear, a Showers throughout the day. I had a rotten night again, eyedrops made no difference at all to me. But this morning I had no fever at all & felt much better, so went out to the nearest cliffs with Pgundup. There we found a small Daphne shrub with reddish flowers, an androsace needs but very rich rose, a fine cushion Saxifrage 1892, a small Berberis & one or two other little things. But what pleased me most was that I saw a lot of another primula, completely dry must started in any way to start growth. This was on cliff ledges, or under jutting out rocks. There is a great deal of it & it is certainly a Soldanelloideae Section primula. I guess it to be P. eburnea. It will not be in flower for 2 months I'm sure. Pasang & Pgundrin were also out after a few things; Pasang getting P. sikkimensis in full flower. That makes one think this bit where we are in camp must be very late for some reason, dryness, wind or something else. I took the 4.10 out today after a couple of snow pigeon. They are very tame, but would not line up to let me get several with one shot, so I enjoyed myself & took them flying. We have prepared our loads to go on with 10 yaks when we want it. The Sirdar will look after the rest for us here.

27th May. Halt. Rain soon mixed but never very heavy rain, never for very long. We all went out together today, up the valley to the West, I on pony each of the rest on foot. We left at 5.30 & got back at 3.30, with on the whole, a very poor bag of flowers. But I certainly enjoyed it, & may have done it more than I should in consequence. We found no more primulas, although we covered quite an area at the top limit of the firs. Up there there seemed certainly to have been P. florida, P. prolifera, but I saw no seed of either, nor of any other than Calderiana (common) P. chrysochlora (v. common) & P. sikkimensis (just

coming into flower. Maybe they don't grow here. I hope I haven't come to a pure primula, as they are the best things in my mind, to find. Every place where the forest ends & the grassy hillside begins, is called 'Shing sam Pang sam' which just means the edge of forest & grass. It is here we intend to go later on, & must keep the country here & beyond both good. To the south, about 1000 ft up, are several lakes, & always there the slopes above them seem specially good. Away beyond, is a retreating glacier, & somewhere beyond that, I was told, is the head of the Trongsa Chu. It is here, the locals say that takin are to be found in quantity. Locally they are called Tsem, & Drong gyinsi, which is the Bhutanese word. Drogpas come over from that direction soon, & if they see any we will be able to find out. It was lovely open up there, & made one want to go on & on. I could cheerfully have gone on all afternoon, but would have failed to get back had I done so.

25th May. Hot. Mostly raining, but with nice sunny patches. I stayed in camp to rest after yesterday. The lads went out a long way, had a bad day. They brought in Mec. simplicifolia (1895) though, from miles away. In the evening I went 50 yds from my tent, & found about 100 of them! Today I took some of the dormant Schwanefelda primula off the cliff opposite camp, & packed them in an Oxo tin, sealed the tin & packed it up to go to Taylor by air mail. I have asked him not to grow all, but to examine some, to see what really happens when one of these primulas is dormant. Nothing may come of them, but it will be interesting if they fail through, still dormant. They were packed dry, on a dry day, or at a dry time anyway, & may, by being sealed, remain dormant. We should have an answer in August anyway.

29th May. Hot. Heavy rain all yesterday evening, & all night. But it stopped

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Plants to get seed from Pangsrang See also later list.

18946	P. Barnardoana.	cliffs ½m below Pangsrang
18948	Cassiope	
18955	P. elongata	1 m above camp. main river.
18957	P. atrodentata.	
18963 & 5	Legum.	to E beyond 1st gorge
18970	Cypripedium tibeticum.	below cliffs opp. camp.
18972	Saxifraga rellum-rustum	" " "
18973	Daphne	opp. camp.
18974	Androsace	below cliffs opp camp
18977	Aster.	
18995	Mec. simplicifolia	
19009	Prim macrophylla	roots.
19011	" glabra	
19021	Salvia	Tolegang. beyond 1st gorge & up cliff opp camp.
19027	Pterutifera.	a good one just before Tolegang 150
19030	P. Hopeana	" " " " "
18992	small purple pea 2" high.	

sign of clearing, we left at 5.30 for Weitang. Weitang at last! The day turned out to be lovely, but again we got nothing of interest. I did at least see P. bellidifolia in bud, & P. crispata was there too. But no gracilipes, no Whitei, no macrophylla, or macrocarpa, glabra or pruhla. Either none of them exist here, or yaks eat them all. Perhaps there are so many yaks that we will find the area very poor indeed. It almost looks like it. The only interesting thing was to find P. Calderiana becoming more common in a white or yellow form than in its true violet purple form. I took a good many variations, & called them P. Calderiana, hybrid white, hybrid powder blue ~~purple~~ violet, hybrid yellow, & P. strumosa. I am sure that is what it is, & had the same views we left. Bruntons in 1937, at a later date & more profuse. The great news today is that the Dzuk Locha (Bhutanese Representative) in Lhasa, is on his way to Bumthang, & will be here tomorrow or next day. He has 8 mounted people, 11 in all & 120 animals of kit, stores etc. It is the same Locha as was there when Betty & I were in Lhasa, so I must meet him & call on him I suppose. He was always very pleasant to us in Lhasa. His son – the spoilt brat as we called him – is with his father & has his own wife too, & Lhasa girl for ford.

30 May. Halt. Another mostly fine day with rain off & on in the afternoon. I stayed in camp. Pasang & Thundi went up to the NE, & at last got P. macrophylla & P. glabra. That is two of the missing ones found at last. Both were pretty late & in flower. I have been looking at Cooper's names & dates, & his Champa Bumthang is this place "Tsampa", then I am not likely to find much we have didn't see as yet.

31st May Halt. A very good day, with no rain at all. We went on at 5.30 & in at 3.0 pm. I rode a Zho up the whole way, & was

57

Kodachrome 11

Mec. simplicifolia Pangotang 30/5/19.
agglutinatum.
Rhod. [illegible] 19023 " Drogpa. Pangotang 31/5
Aster 19019 " " 11
P. macrophylla " Caltha 19014 " " "
Gormotangka. Monastery. 5/6
Group of P. elongata " Calderiana under
Rhod. Thomsonii shrubs. 6/6

Dufaycolour 8

1 Primula elongata 189 27/5
2 Prim Calderiana cuneifolia 1889 27/5
3 " " " 27/5
4 " " " 27/5
5 X X
6

Dufay 7 & 8 (4 only) 10 in all. Sent together about May 31. See Below

B & W. 6.

1 Mec. simplicifolia. Pangotang 30/5
2 Primula glabra " 31/5
3 " macrophylla " Caltha 19014 31/5
4 " alpicola var luna. 9/6.
5 Gormotangka monastery 5/6
6 Mec. simnata "
7 " " "
8 Lobswingi Lato Kankar pumum 8/6
9 " bach comp. 8/6
10 Primula glabra. 8/6
11 Anemone narcissiflora "
12 Lloydia serotina "

Dufaycolour 9

1 Rhod. [illegible] ? (1898) = P. elongata 28/5
2 Heads of various P. Calderiana or P. strumosa = Lofilter 28/5
3 " " " " " " with filter. ✓
4 Mec. simplicifolia Pangotang. 30/5
5 X X
6 7 8 & 9 sent May Pangotang June 1st
See below

Dufaycolour 10

1 Rhododendron grande. Tolegang 19023 31/5
2 Aster 19019 ✓ " 31/5
3 Prim. glabra " "
4 " macrophylla " Caltha 19014 " "
5 Rhod. cinnabarinum 1/6
6 " " 1/6

6 & 7 & 8 & 9 & 10. Sent 1/6

very steep indeed. At first we found little, but at the highest altitude, about 14000, found a good many little things, including P. glabra, 1902 P. sapphirina, P. Hopeana, P. macrophylla, a good Aster & one Mec. paniculata in flower, but not elongated. Mec. simplicifolia is everywhere, but a miserable thing. Saw a few monal, & a pair with 3 young. Also some heads of bunkel lying about. It was lovely up at 14000, & found a nice lake there, which may be worth visiting again later on. But I think almost every stream starts in a lake up here. Although the weather was so good, we did not see anything very much in the way of a rhod, but a press of flowers was worth more. Still no mail. It is a good long time since I heard from Betty now, & hope she is alright. Her last letter came very quickly to me, written on 13th & reached me 15th at Menjisi. I have sent her 2 or 3 letters since then, but I feel perhaps the dak may be showing up now with all the work it has to do. In 1937 I had bigger mails, but not so often, rain except one came through alright. That one was found later abandoned by the roadside - no harm done, but just left there.

1st June. Halt. Our last day here. We leave some boxes behind, and calculate that we will be back in 3 weeks at most. A poor day, with a good deal of rain. I sent off a mail today - a letter to H.H., a parcel to Raja Dorji & a parcel of books & a letter to Betty. They reach Bumthang tomorrow, but I wonder when they will be sent on from there. There seems to be some delay now in the mails, which at first came so quickly.

2nd June. Kantanang. There was heavy rain all last night, & although little rain today, it is very monsoonish & misty & wet. A pity as we came over a delightful pass, the Lubsing La, of about 14500 I should say, & must have had a very fine view on a good day.

But it was a sad day in every way. We should have seen things, I expected, as our route lay up through the forest to the Rhod. & open hillside above; & then from about 6.30 on till 11.0 we contoured the hillside about 500' above the fire, keeping south, & finally up to the Lussing La, which is a pass over a ridge only. Beyond that we were in the valley called on the map Pangyetangka, which runs down to the Rufo Zam. The whole day we got 3 plants, only small bits of three trees, & I saw nothing of interest. Now we may have to stay here 5 days, which seems a pity, but the Drum Locha need all transport in town, & there it is. I rode a yak today, & had to be very careful getting on & off, & in allowing anyone else behind. But we had no accidents. This place doesn't really have good. It is too much burnt & too much yak eaten for my liking. I don't think we will get much. A mail came in yesterday after all. But not for 4 hours after I had sent off my mail. Little Ian one was a letter from Betty. She is not happy I fear, & it worries me that she should be there with Hicks, & not enjoying it. And there is still a good long while to go, before she will start coming my way — 2 months from now. Not much news in my mail, but Betty tells me she has two good primulas, which Tsering Dorje doesn't remember. I should think one might be P. tsarensis & one P. Cawdora, but how much earlier they must be than we are here. Ludlow also talks of a queer Pedicularis which I have no idea about. It should be interesting.

3rd June Halt. A lovely morning + fine till 3·0pm, then mostly rain. Three of us went in three directions and we scraped together 6 plants. There seems nothing here at all. P. alpicola v luna is now just coming into flower, five tons km. It is one of the few things which is commoner here than I have seen it elsewhere. Tomorrow we must try lower down, as that is no use, move on to Gomotangka as soon as possible. It looks good, but it may also be late.

4th June. Halt. Heavy rain in evening + all night, cleared up two + fine today. I only went down to the river, a formal nothing but Mec. Simiata, just coming into flower. The lads went downstream, further. But they also got nothing of any interest at all. I have decided to go myself to Gomotangka tomorrow, see the place. And I think we should try to move on there next day complete. It looks better than this as lower, + has very fine cliffs beyond. which should hold some interesting flowers. But still we may be early. Yuendon found young blood pheasant today, stupidly brought two of the young here with him.

5th June Halt. This place seems completely dead. I don't know where the flowers are. Were gone high + were gone low, + we can't find anything. I went to Gomotangka today + looked at some most promising cliffs. But there was nothing to be seen, + not even signs of anything. I wish I had never come up this way at all, but had stuck somewhere in the centre of Bhutan, perhaps the Donga La ridge running up between the Mesa + Singlis Dzong. With difficulty now we are getting 2, 3, 4 or 6 specimens in a day, none of them is interesting. Mec. Simiata is common here, + represents the beauty + interest of the flora pretty well. It is a miserable little thing, which rarely has more than one flower open at a time, + the colour is purple-blue at best. A lovely bright dry day.

Kodachrome 12

Shots at ♀ blood pheasant. 7/6
P. Calderiana x yaks. 8/6
Lubsing Lato Kanta pinsum 8/6
Clumby ditto telephuto "
Ditto with Ngudup x dropa in front. "
Anemone narcissiflora. 8/6
Lloydia serotina "

Dufaycolour 11

1 Prim. alpicola x luna. 5/6
2 " " " 11
3 Rhod. Thomsonii ~~1934~~ 19046 11
4 Gormotangha monastery 5/6
5 Mec. sinuata "
6 " " "

Dufaycolour 12

1 Primula glabra. Lubsing La 8/6
2 " macrophylla. no filter 10/6
3 " " . ✓ 10/6
4 P. reticulata. 19108 13/6
5 Cypripedium tibeticum 19123 14/6
6 P. umbratilis 19128 14/6

Kodachrome 13

Primula macrophylla by stream 10/6
Mec. simplicifolia. (ave. 10/6.
Blood pheasant. telephuto 10/6
Monal ♂'s 2 shots. (tele.) 12/6
Cypripedium Tibeticum. 19123 14/6
Up valley from Pangdang.
5 ft. left.

11.12.13.
sent. 15-6-49

Dufaycolour 13

1
2
3
4
5
6

Duf 11 & 12
sent 15/6/49

6th June Halt. Very wet night, but fine most of the day. Sent a man up to the pass we want to cross, to see if there is too much snow. I say that we want to cross, but I am probably the only one who wants it. The other way would be simpler + easier for the locals. I looked for blood pheasant today with no success, though I saw many pairs. We found but did not collect P. yargongensis. Otherwise the day was blank. The locals mostly wear very gay clothes here. + I wanted to see them wearing them. But Nzundup tells me they all come from near Tsetang on the Tsangpo. That is the big bazaar we passed in '46 on the R bank, where the huge chorten is. The cloth is coloured + woven there it seems. But no Tibetan would ever wear clothes made of that pattern. Surely there used to be made in Bhutan? Of course the Drogpas here wear woollen clothes, not cotton which are general in Bhutan.

7th June Halt. A real monsoon day, rain almost all day, but never very heavy + no fine periods for long. One can almost see the snow drifts melting, + one can certainly hear the result of the rain + melting snow in the rocks falling down the hillside. The man we sent off yesterday morning for back by evening, + reported only about 30 yards of deep snow at the top. He, in fact, said we could go alright, as long as I did not mind boxes being bumped against rocks, + was prepared for a bad bit of 200 yds where rocks keep falling down. I don't like the last thing. It is always beastly, but I think we shall try when the Drogpas come back from taking the Drok Lochs down to Shabjetang. In the meantime, as there is so little up

here, I sent the lads down to Shabjetang for the night. I know there must now be such things as Philadelphus, Deutzia, Rosa macrophylla, & many other things besides, which we must arrange to get. I think they should go down once in July too to see what is happening there then too. I did little here, but took some small things, & went out looking for wood pheasant & young. I found the latter & caught two separately. The parents never went far away, never more than 20 yds, but the chicks were so small they cared not 'cheep', so the parents wouldn't come into the open as much as I had hoped. I got a few poor cine shots of the ♀, but couldn't catch the ♂.

8th June Hatu. A very fine morning, & fair no rain till the evening. I had told Lhakpa not to come early this morning, expecting rain, & in any case there being no hurry to go & look for nothing. So he came at 5.15 only. Then I got up & decided to go to the pass as quick as possible to see the snow, including Kula Kangri which we had been told we would see from there. Ngudup was a bit tired, as he has become a bit slack these days of little to do. And Lhakpa took 3/4 hr to get breakfast. What he does always beats me. These people have no idea, as the Kashmiri has, of getting things going. Anyway we were off at 6.15 & went very fast, getting to the Lubsing La in time at 7.15, to see Kankarpünsum very prettily, with clouds about, but clear itself. There was no sign of Kula Kangri, so we went on, to the next ridge, but again there was no

Sign of it, eit is Briona that one cant see it from anywhere near the Pass. But the other peak is a fine one, which I well remember seeing from Dumpshingpang. On our way back I shot two herons. At least that is what I think they are, but it is so many years since I've seen them, that they appeared nearer Kuking' to me, than that seems impossible. In case they are, I skinned one of them. We found on the pass, P. glabra, & lower down masses of Anemone narcissiflora, Lloydia serotina, one Nomocharis nana & many Prim. pusilla about 1" high in bud. So things are moving. There is no forest there are. I have noticed how very quickly the snow is melting now; each day shows marked changes, & that means flowers will be on the move too. I wish these two lads knew something of flowers. They go out & look at many cliffs, but unless they see a flower, they can tell me nothing.

9th June Hall- Another fine day, but no flowers. The two boys' came back with only 15 specimens for their three days down the valley. They must have left many flowers behind, but neither knows what to do really, & I suppose I cannot expect them to bring much. But they even did not bring flowers I particularly asked for. A disappointing day, when I had expected a good deal. How I miss Isongpen now, when I can't get about so much.

10th June Hall. Another wet day until 2.0, when we got back. There was heavy rain then, but we were in in time. We all went up the valley to the west of here & had quite a good day- Ngudup is the one who is most disappointing always now. Everything is an effort to him, & often times of returning him to H.H. to be

Seed from Svalbjetang.

Philadelphus No. 19075

Deutzia " 19074

Streptopus " 19079

Cypripedium " 19076

Tree "Lachasling" 19077

Briggsia? "

Bird cherry "

Big Cotoneaster " 19083 at small bridge.

Rosa mac. " 19082

freshened up. He is never lazy & eats too much I believe. Hence no headaches. I told him today he was eating too much, which he did not quite like, but he gets all the meat there is, but greedy as soon. As we got away, a huge & v. fine wild animal ran along the path in front of us, so I called up Ngudup with the gun. He asked me not to shoot, but I wasn't having that. He eats all the meat, & doesn't want any bird's meat. "It is the 15th of the month, don't shoot." However I told him it was the 15th, he seemed eat no meat, but I wanted shoot, & he owes me Rs1/- to the gompa. So we got our bird, enough for Pasang, Lhakpa, Gyaldu & myself. We found what would probably be called P. yargongensis (1909b) & soon ? higher up what will be called P. inflorescata (1909a). Even if the cytology is different, I cannot see how these two can be separated. In the primula monograph, one is pink (but may be white) while the other is white (but may be pink). One P. pusilla was found in flower only. I walked up the local river, or climbed up it, where it came down in a 45° waterfall, & got one or two things by the side. I also found the nest, with 3 eggs, of a white throated dipper, at 14000'. It was half way down the waterfall, in fact on a rock in the middle of the fall, not far above the water level, about 1 foot perhaps. I have only seen one other nest, on the Thampa La, in 1937, a much calmer, quieter place than this one. On our way back, we roused a pair of blood pheasant, secured 1 chick & I managed to get a short cine (telep.) of the cock, but I fear it may be underexposed. The place was in dense rhodo and

Seed from Kautamang.

Prim. alpicola v luna 19041

✓ Mec sinuata - 19052 Taken Pangotang.

Prim. involucrata 19096

X P. pumilla 19104 Clip up v. fm Gaurishanka.

Mec paniculata 19106 "

✓ P. reticulata 19108 "

~~P. pusilla~~

Seed from Pangotang.

Seed taken from Kautang.

✓ Cypripedium tibeticum 19123

✓ Salvia 19125

✓ ~~bis~~ P. umbratilis 19128

× ✓ Cruciata 19130

✓ ~~X~~ Cypripedium sp 19134

X P. Careana 19144

X P. sapphirina 19147

✓ P. pumilla 19149

✓ Primula 19151 below camp.

X P. tenuiloba 19167

Bow. T.

1 P. macrophylla. q. 10/6

2 P. involucrata. 19098 10/6.

3 P. reticulata 19108. 13/6.

4

5

6

7.

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12

storm scrub, it was very difficult indeed to move, or to get a clear shot at the bird. I hope sometime may come out. We have decided to leave here on 12th, & to go via Paungtaung. I am sure if Nyundup had guts now, he could fix up the other route.

MB ** flowers

11th June Halt. I decided to go as far as I could up the valley where we had been told we could not go - yaks, women &c unable to take us to Weitang this way. It has always seemed odd to me that we could not go, when one man came each said it was alright. But Nyundup is a poor fish with these people, & never asks enough questions, & never tries to persuade them. Anyway we went as far as I was able to walk - probably 3 miles from Gorumtaungpha, & there was no difficulty at all the whole way. Where we stopped we might have had to carry loads about 50 yds. We had quite a good day - got P. pumila P. beesiifolia & P. reticulata, the latter uncommon, but plenty of beautiful ones found. We also got Rhod. paucinlata in flower. The local form of P. alpicola = luna is very like P. reticulata. In fact I was leaving it reticulata today after having started to take it, when I noticed the absence of the v large stocks, which should have been brown. Then later I saw that reticulata has no farina ring in the eye, like alpicola. P. pumila & P. bellidifolia are only just in flower. A very wet day indeed - the wettest by far that we've had so far, & a sign of the monsoon at last surely. I got soaked through bottom half, but don't mind that, & remember now that I always used to. Without waterproof trousers one never gets soaked, & they are difficult to walk in. Started to rain about 8.0 & has not stopped by 5.0 pm.

P. reticulata = P. beesiifolia

P. pumila 19105 P. beesiifolia ? P. reticulata 9108

Rhod. paucinlata 19106

P. alpicola = luna 19103

P. pumila 19104.

12th June. Hoath. This is undoubtedly monsoon. It still has not stopped raining, & the rain has been very hard indeed. At any rate it must bring on the flowers, & that is the best way of looking at it. I'm not doing out today, but packing up any dry flowers there are, & getting ready to leave tomorrow, back to Pangstrang by the same way as we came. I fear we will have about the same view as when we came too - in the mist the whole way. I wonder how Betty will manage this weather, & how glad she has a big comfortable tent.

Later. Still no let up even by tonight, it looks like going on for a month. I did go out eventually, & picked up some mixed mush. Then after that I took out Yunder-P. & took my gun & cine with telephoto lens in. We went after monal, & should have got 2 quite nice pictures of cock monal provided the light was good enough, & my focus correct; both were difficult to judge & the rain very hard. I have never seen near monal so long before. I had a shot but missed unfortunately, as P particularly wanted some meat. I think I eat less than anyone in that line here, though I have had a couple of bits of bully beef.

13th June. Pangstrang. Back again to our old camp, but on a soaking wet day; rain without pause again all the day. And although the dwarf rhodos were out now, still the march never seemed interesting, one got rather sick. I sometimes wonder now what I have missed, just because Pasang has no idea of what he sees, & is afraid of putting something in the press which may not be wanted. I've told him many times not to think of that, but put in the press anyway. The worst that can

happen, is that it will be thrown out. Today we found the completely dry, dormant roots of a Schlaginweit primula. The soil amon it was in, were in some way yet completely dry, in spite of the rain. It seems a small one, with scape only 2", might be interesting. While I was looking at that Pasang Caenaby said perhaps the ~~dry~~ primula he & Gyundu had seen 14 days ago, further up the hill owned now be in flower. It was then he said in small bud & appeared red. This is the first I had heard of this. It sounds interesting, though perhaps he has made a mistake, & it is not a primula. He has so far been good at guessing primulas, which have certainly varied enough, from a minute little thing like P. sapphirina, to P. alpicola. A very very wet day, but no damage done to boxes, flowers or myself. There is a good deal of difference here in the flowers. Rhods are pretty well over, except lepidostum. Primulas are coming on, & the river is fully twice the size it was. I wish we had had a good day in one direction of todays march - going or coming - because the Himalaya seemed have been in view for a good deal of the way. Traders have started using the route too. This place is later on a small market for Bhutanese & Tibetan traders. The latter bring down salt & wool mostly. There is to be another huge caravan through shortly. I hear. Tasho Pubso Wangdi's smallest son is a reincarnation of some Tibetan monastery, & we hear that the mother with a big caravan are coming to Lhasa very shortly.

14th June Halt. This was a somewhat busy day, & thoroughly good one too. It was fine at last, after 3 days & nights of incessant rain. So I went out locally, to the cliff opposite, & got P. muscarioides in full flower, & a number of other things too. Pasang went up a

KB
Umbrella 1912 8
in Vol. f 53

Primula farinosa 19149
Primula Zalpfiorum 19147
Cyclamen hiemalense 19131
" elegans 19134
Orchis chusua 19139

Meconopsis 19136
Crematosperma sikkimense 19148

19164

valley to the east, after P. Careana in full flower, and to a few things collected by Gyundon, we are 27 gatherings in all. I was busy writing these up when the mail arrived, a good mail too, with two lots from Kalimpong, and two letters of 23 - 28th from Betty. She has done pretty well I think, & has found P. segwicciana for the second time only. They also have P. Careana at supper most of what I have shown me. She seemed more cheerful too, but Hicks is not a great success I fear. He wrote to me in a cheerful enough way, & realized he was not as good as he might be. I fear he has'nt done much with the camera, whether the camera's or his fault I don't know. There was no special news in the mail I think except that Bhutan now seem to have all points of their Treaty settled at last, & not badly either, if India keeps the bargain. Chris tells me the car I ordered at home on 18 mths Delivery in Nov. last, will be delivered in June - now. That is rather unfair to him I feel, but it's very nice to know I won't have to take our car home. Para Penlop is apparently worse, & HH very sorry he cannot manage to go & see him which he feels he certainly ought to do. I suppose it is cancer without doubt now. As there was such a lot to do, I decided to send off a mail tomorrow & go on after flowers.

15th June Hatt. Stayed in camp sent off a mail to Betty & to Kipong & to H.H. Fine with some heavy showers. Nothing to report. I find we have disposed of over a maund of butter in 3 weeks, & cannot think how that can possibly

happen honestly. Whether it is Ngudup or Thakpa who is doing it, I don't know. Either is capable, but Ngudup would think it quite usual.

16th June. Halh. Half wet half fine, mostly misty up the hills. We went up the valley above the Sokpons huts, & on the whole had a v. good day. Got P capitata, (one only) P. tenuiloba, & P. Walshii (v few) & another finest bit of P. Careana I have ever seen. It is common as dirt here. Lots of P. bella-jubia beside the Careana in places. There were many Oreandala flying about, but I saw no nests. All this was of course built up, & tho' v tired tonight, although I rode to 14000 most of the way. The walking beyond was steep & there was a long last walk back. A good day. Bravely we are into things now - all of a sudden really.

17th June Waitang. Ht. 13400'. Fine at times, mostly misty, raining & cold. The day was notable for two things - the miserable pony I had, who shied at everything & a new White var. of P. Careana. After several shies, the pony in some way loosened the girth & the saddle slipped round, & me with it. Luckily we were on no dangerous part above the river, & only fell among smooth boulders which did no damage to me at all, but smashed my reading glasses. Luckily I have another pair. We are camped almost at the junction of the two rivers, but it is not very convenient, because to cross the main river we must go down 2 miles or up 3, & the best side is the other side. I wandered about a little, but saw nothing of interest. The lads went on separately, & came back very depressed, but Yundrün had found a White var. of P. Careana, or that it is what I take it to be. It cannot be anything else, but I have never heard of such

B.W.7.

1 P. macrophylla 10/6
2 P. involucrata 1908 "
3 P. reticulata. 1908 13/6
4 Cypripedium tibeticum 1923 14/6
5 Prim. umbratilis. 1928 14/6.
6 Nomocharis nana 14/6
7 P. Careana. moved? 1944 16/6
8 " habitat rq. "
9 " closer "
10 P. kermilbæ. 1967 "
11 P. umbratilis ~~1928~~ 1983 18/6
12 Cassiope 1095 "

Kodachrome Cs. 14.

Prim. Careana. backward. bad. 16/6.

Rest moved not turn.

Kodachrome 15.

P. umbratilis ½speed 1983 18/6.
Cassiope. 1095 "
P. Careana 1944 "
P. macrophylla v macrocarpa -
Mec. simplicifolia across Nantahalachum. 20/6.
" " of P. strumosa 1920 "

Dufaycolour 13

1 P. Careana. profiles. 16/6.
2 " habitat "
3 " closer 1944 "
4 P. kermilbæ. 1967 "
5 P. umbratilis 1983 18/6
6 Cassiope 1095 "

Dufaycolour 19

1 Cassiope & bud setosum & Nomoch. 19/6
2 R. setosum. R. anthopogon & R. aeruginosum 19/6
3 Mec. simplicifolia & P. strumosa. 1920 20/6
4 " " " "
5 Mec. simp. & lake at Nantahalachum La "
6 " " " "
7 Prim. bellidifolia. 21/6
8 Small purple pea 1"-2". 1899 "

a thing before. Unfortunately he got little fit, but says there is more, not in flower yet. I must be careful to get roots of it later on. The other side I feel sure is very much better, air is drier, there is no bridge here. We thought of making one, but it would be too much of a business over the main river.

18th June. Hach. Mostly misty & rain, with some fine intervals. We went up the valley called Dirupnang which leads over a pass to Ceomotangka. On the first cliff there was masses of P. umbratilis, much finer than the first lot I got. Then we had a very bare day until we had gone as far as I could manage. I decided to try to come down a difficult waterfall, & was repaid by finding there the fine P. macrophylla v. macrocarpa. It tucks itself under cliff ledges, on sheer rock cliffs, but where it gets the constant splash of water. I always feel that that is one of the varieties that should be a species. It has more difference from its species than many species have. A good deal of Careana & of Selinifolia too. A very wet evening, air is cold too up here when so wet.

19th June Hach. Had a day in camp, & it was a fine day with some sun. I have been waiting for a fine day to go to the Nunkanchung Pass, but I think they are unlikely to come now, we must go tomorrow. At about 3:0 am last night we were all awakened by the noise of huge rocks coming down the hill behind camp, & coming as it sounded — as I see it actually was this morning — straight for camp. They made a rather fearful noise crashing among boulders at first, & then a worse noise of tearing rhododendron bushes to bits as they crashed through them. I almost got up, then didn't, then when Lhakpa snorted, I did get up & ran off to one side. But the nearest boulder,

about 5 ft across, stopped 50 yds above camp. So back we went to bed. The boys were out across the river down below, but had a poor day, got nothing. I did some photographs in the morning, changed flowers & that is about all today. Flowers take much longer now to dry. The atmosphere is always damp, & our fire is not so good in the tent as in the huts were been used to. I'm told now that many Tibetans will be coming down in the next few days, with salt, wool & woollen cloth. They exchange at Pangtang for madder mostly, & some rice. But most of the rice is H.H's & Her H's & other officials, all is sent to Tibet for sale in Tona Dzong & other places.

20th Snow Hall. It was misty & doubtful when we left at 530 this morning, but there was a clear patch of blue sky to the South, which I was sure would mean a good day. But we didn't go straight for the pass. I wanted to investigate the cliffs on the W. side as soon as we could cross the river which we did about 9.0 am. But there was very little indeed in flower. Rec. horridula had not opened its buds at all: P. bella-donna was common, & Pasque for P. muscoides to add to the list. I had seen a yellow-man through binoculars & want to find out what this was. It turned out to be P. (1903) strumosa, & I now know that all the yellow varieties we found before were hybrids of Calderiana & strumosa as I suspected. What is interesting is that P. strumosa has the exact same unpleasant smell as Calderiana has, which would seem to put it nearer P. Calderiana than ever. There is no doubt they are the parents of all the mixed colours about here... It was a fine day after the first

two hours, & we had bright sun all the day until just before getting in at 4.0 pm, when a very sudden storm came up over us from the west. The snow range was absolutely clear & very fine too. I wanted like to have gone on, but knew it to be too late in coming back, so we only went to the lake, which I would think to be 2½ miles short of the pass. Meconopsis simplicifolia (Muirspan 1905) up there is a much finer plant than lower down, & quite getting seed fr. We found the first of the Cyananthus (Shakabpa 1936) today - a yellow one. Otherwise there really was remarkably little to be seen, but the day was thoroughly enjoyable. I rode most of the way up, except up the steep bits to the cliffs, & walked all the way home

21st June Halt. Another fine day, not as good as yesterday, but still a dry day. I was glad, as we have our presses all full, & needed these two days to get some plants dry from the presses. So we all stayed in today, & did odd jobs, & washing &c on. Tomorrow we must make an effort again, as these last two days have produced very little really. This place is late - in fact all this area seems late. I don't think it is very prolific either. Perhaps one always thinks that, but it certainly is not so good as the area I visited in Central Bhutan in 1937. I want to try to get to the head of the Trongsa Chu sometime - from Thanleng, when we go up that way. I forgot to mention that yesterday, I saw a pair of Blackbirds T. m. maxima, at 14000 about 5 m this side of the Monla Karchung La - Also an ibis bill at [redacted]15000 by the lake, a two cuckoo's just below the lake, between 14500 & 15000', cuckooing away very happily, & a tree nuthatch sighted. I never remember seeing them so much as I have this year, & would much like to know what they use for their eggs.

22nd June Haer. A wet miserable day. We split forces, & sent Pasang & Gyndon up Dimpnang valley with instructions to leave it when wet in, & to try high up on the south side. They are not in yet, but I had a very poor day in the place I chose. I went up the hill dividing the valley to the north of us. It was dry & almost bare of vegetation. At 15500 we found masses of Diapensia lindenbergii & beside it P. tenuiloba 19212 & P. concinna 19213. There is also some P. Convana 19211, which always tempts me. But that was really all - a disappointing clutcher we had. I found 2 plants of white P. Convana, vowed with the axe to get plenty of seed of that, or roots, if seed not available. Pasang came back at 330 & had a good collection, a new Androsace, the Cochleareas (?) which I wanted & which is I believe new, first got in 37: some more P macrophylla var macrocarpa in fair class condition, a curious androsace & various odds & ends. So the day was not so bad after all. I have seen a good looking place for tomorrow, up the valley to the E from the junction. But one can always tell.

23rd June. Hall. Up the valley to the E above camp. A soaking wet, windy, cold, beastly day. This was the place I thought looked so good, but it had nothing in it. Gyndon went miles, but for nothing but a good collection of white P. Convana 19216, & we got nothing worth while either. While I felt the climb up after leaving the pony, a good deal. It was very steep indeed, & in waterproof & W. trousers was hard going. I really don't think now that we will be able to stay on here till the end of the month. Another 3 days will finish anything we can do, & there will be no other side valley to try. This has been our wettest day yet, I think.

24th June. Halt. Again very wet indeed all night & day, very cold too. We stayed in camp, or just wandered about near camp, & have decided only to remain up here till 28th returning that day to Pangboche for a week. I think everyone is glad. This has not been very interesting at all. Today I got Sorbus microphylla (I think) in flower at last. It is a very pretty rowan, some worth introducing at home. Seed should be easily collected I think. Also I saw an immense amount of Thalictrum chelidonifolia, more than I have ever seen before. It is not yet in flower, & I fear will not be fully out till after we leave. But the patch I saw must be a good sight when fully in flower. We are all tired of rain, & need to get a good sunny day. I hope to one clear day, to make a dash up to the Nima Karchung La. I don't think we will get many flowers, but I'd like to see Kala Kangri from the pass.

25th June. Halt Still a filthy day. For three days we have hardly been able to see 100 yards at any time, & it has been very cold indeed. We meant to be off early, but the pony did not turn up. Then when we got away at 7.0 a man from HH turned up with mail & rice & potatoes & butter &c. So I had to come back, & only got off at 8.30. Found very little indeed. Yuncken went over the pass up the Dingpoche valley, but found little there too. The mail was only from Kipling, none from Betty. We have got one of our timings now, & may have longish waits I fear.

26th June Halt. I stayed in camp & P+Y went up to the head of the valley to the E. They marked 8 white P Cawdoria plants. We should get the roots of them with any luck. Otherwise not much seen anything of. A miserable day of driving rain & mist again.

B.W. 8.

1	Prim. Careana.	18/6
2	" macrophylla v macrocarpa	18/6
3	Mec. simplicifolia + sweet nean pan	20/6
4	" " a P. strumosa.	20/6
5	" " a lake at pan.	20/6.
6	Primula bellidifolia	21/6
7	Diapensia himalaicum.	22/6
8	Primula sapphirina	23/6.
9	P. Careana.	25/6
10	P. pusilla ??/ Alba	25/6
11	P. pusilla Sorbus 19235	26/6
12	P. bellidifolia	27/6

Kodachrome 16.

Diapensia himalaicum. 22/6
(some blanks, stuck film)
Mec homidula 22/6
P. Careana 2 shots 25/6
Mec. simplicifolia + Red and anthocyanin 25/6.
Prim umbratilis on cliff. 25/6.

Kodachrome 14, 15 16 sent. 30/6/49

Duplicates 15

1	Diapensia himalaicum	22/6
2	Mec. horridula	"
3	Prim. sapphirina	23/6
4	P. Careana	25/6
5	Sorbus vacinia? 19235.	
6		

D. 13, 14, 15 sent 30.6.49

Duplicates 16

Sent in batch 15

1	P. bellidifolia	27/6
2	Cypripedium tibeticum	"
3	P. umbratilis	"
4		
5		
6		

I had rather looked forward to some fried liver this morning, but sometimes- presumably a dog.- took away the whole liver, kidneys & some fat which Khahpa had put aside in a dekchi, during the night. Yundrü was sleeping outside a yard, so I don't think it could have been a man - unless Yundrü himself! Khahpa suspects Tibetans as many are passing down just now, but I don't think that is likely. There is a slight sign of a let up in the rain this evening. The most startling news in the mail yesterday was in a letter from Rani Chunni, who says 'we are so glad to hear from H.H. that the Maharajkumar is going to England with you for 5 or 6 months'. Now we have heard nothing of this at all as yet, & that seems a bit odd. Presumably HH will ask us in August what he wants. He has probably only said what he would like to happen. In any case we must tell him it will be alright. If we have a house, then there is no great difficulty. But if we have to wonder about looking for a house, & at the same time look after M.K., then it won't be at all easy.

27th June Halt. We all think we have finished this area, & I don't consider it a good one at all. We're worked every valley round about bloody tomorrow. Notable as not occurring here, & occurring at the Neta are P. leguminosa, Dichroa, Tonardum, soldanelloides, & ebumea. Perhaps there are some extras here, but I doubt it. And there are practically no meconopsis here, other than simplicifolia. I've seen 3 M. paniculata only, & a few horridula & one betonicifolia. Today we crossed the river by the bridge below, & got nothing. There is masses of P. umbrahilis. We saw a large herd of burrel, about 15 I should think, & one good head. I could easily have got some

Seed from Waitangi

✓	Nomocharis nana	19121	
✓✓✓	P. Calderiana x struminosa X	19000	Apex. roots. 1 ½ blue 300ˣ N of camp. 1 white in bottom ½ m N of camp. Dark eye 1 " " " among stumps. Light eye. 2 ½ blue below camp near big rock.
✓	P. Careyana white	19175	X 8 plants marked up at head of valley running in from E.
✓	P. bella Wilsonia	19181	
X	P. muscarioides.	19183	
✓	Conifer	19198	across river
✓	Blue anemone	19201	1½ m above camp where path used to go up. Keep below near where been from again.
✓	Yellow "	19202	
✓	P. struminosa	19204	
✓	Mec. simplicifolia	19205	200ˣ S of lake.
✓	Small purple pea	19992	
✓	Big anemone by lake	19207	
X	P. tenuiloba	19212	
X	Cochleariaa White	19215	Same as in 37. Cliff on L. bank near bridge.
X	Androsace glabifera ~~sp~~ cushion	19217	
X	" 2"-3"	19220	cliff L. bank near bridge.
X	P. capitata	19227	
	Anemone narcissiflora	19232	
✓	Primula elongata		
✓	Sorbus ursina	19235	
✓	P. macrophylla V. macrocarpa		near where pony tied up Dumpman. up past R moraine to overhanging cliff with big rock beneath.

wtr rpd

Seed sent to Taylor on 30/6

18907	Sorbus ?	
18924	Rosa mac?	
✓ 19058 (2)	Berberis (Kantang	
19092	Atrium white.	
18943	Myricaria.	
20123	Prunus Rudolfa	

Sent to C.T. on 10/7.

Prim. atrodentata 19

nice telephoto cine pictures, but found I had left out the film from the camera! Then we saw fresh pug marks of leopard, probably after the bunkel. And also we saw young monal, just able to fly. Today for a change we saw the sun. It was quite nice + dry from about 7.0 till 1.0 pm. Since then the rain curtain are down again, & its v. cold. We leave tomorrow, will have about a week at Paungtang as a centre again. Tasho Pubo Wangdi's small son passed on his way to Tsurphu monastery near Lhasa today, with a terrific string of animals. I did not see the mother, but there were two other small children very gaily dressed mounted. They are going to a miserably cold place, which I seemed not much keen homed like after Bhutan.

28th June Paungtang. Betty's mail of 11th June came in late last night about 6.0pm. She also complains that there is not much to collect there, but I am pretty sure she will find a good deal later on. In any case there have been P xanthopa, Tomardumi, Sclavaneliodes, & I think have done very well indeed. It dawned fine today & I thought we'd have a lovely day, but mist came up at once & turned to rain. We did have a couple of hours sun though before rain set in hard about 11.0, & it has continued since. Packed up a mail for Kipong, H.H. & Betty, & did Hicks first film pack which is not very good but could be worse. He has not stopped down enough in any photos, & has underexposed a bit all through. There's a great difference down here now. Many Tibetans, both of salt & madder loads lying about, ready to go down or up as the case may be. Betty also wanted about her shoes, & patching them with odd bits of cloth & stuff. Lobsang brought Dunlop

shoes, at calculated on a life of 6 weeks easy. Actually they are through in 3 weeks or even less, and better than the cheap Bata muck costing Rs 2/- each. Before the war Dunlop tennis shoes lasted 2 months or more on these trips. Nail got off early in the morning, Pasang + Mundu go down to Shakjetang to get what they can, return on 1st July. Among the letters Betty sent me was one from Chumi. She had heard that B.J.'s new wife was to have a baby, BJ being I suppose 70 now. Chumi's remark was "Is there a Lost Horizon in the Isle of Wight?"

29th June Halt. A fine day right up till 2-0pm, after which a good deal of rain. Stayed in camp again, to the great showing up of our collection. In two days we have got 2 specimens only! Pasang + Mundu went off to Shakjetang. I developed photos, which are good, re-arranged stores, as we won't come back here till just before going to Bumthang, + Khampa washed some clothes. Since we've been away, other people have used our hut, + it seems to me it is full of fleas. At any rate I have collected a great many today, + have had to cover myself with DDT. I still cannot think why this place – indeed Bhutan generally – is so late flowering. The Lo-la South side was free of snow except for a very small bit at the top, in April. Betty talks of walking over 1½ miles of snow to the Nala on June 10th. The Nala is higher, but not all that. One is 13500 + the other about 14500'. Here we have not come across much snow, but there is no doubt that flowers on

the South side here, are later than similar ones on the north side in SE Tibet. I can't see the reason, unless it be that rain does not reach the main range in any amount until about the first week in June, whereas it certainly does before that further east. A line of rain gauges at similar heights from Sikkim to the Tsangpo Gorge, on the actual ~~road~~ axis would be most interesting.

30th June. Halt. Rain most of the day, especially morning. A thoroughly bad day for the last of the month. I went out ~~on~~ round over the cliff opposite camp, & came back without getting a flower. It seemed ideal for Mec. bella for instance, but there was no sign. In fact the only common Mec. in this whole area is simplicifolia. I hope we will find Markam better than here & Waitang. At any rate I plan to get over to the Tsarpa Chu somehow, & feel confident that will be better. But one cannot find out anything about these places without actually going. Locals will tell you anything without knowing, or nothing if they do know. Seed of P. atrodentata is now ripe. It is always the first to ripen.

1st July Halt. A very wet day indeed, but I went out into just one Rhododendron forest, & went up the Chachun La route to a very big lake about 15000'. We had a good day on this whole, & had I only been living up there, I believe we would have done really well. Saw masses of Notothrix in ~~my~~ Aconitum, but only in bud. I now know why there are so few Mec. paniculata here. The locals eat them. As soon as they see one in flower, they go & cut the stem ~~from~~ at the very bottom. Then eat the stem. No wonder they don't spread. When I got back I found Farrer & Co also back, & between us we had 49 flowers to write up. They

B. W. 9.

1 P. umbratilis on cliff. 27/6.
2 Sax. mitis Stolons 19270 2/7
3 P. umbratilis. "
4 Mec sinuata × P. alpicola × Inna P'taus "
5 Mec paniculata in mist. 3/7
6 Prim umbratilis hale 19332 × Sax 19306 3/7
7 Prim. Waddellii. 19330 3/7
8 Androsace 19366 6/7
9 Potentilla curviseta? 19344 7/7
10 Primula Sonardunii. 1938 "
11 Mec. simplicifolia × lake. "
12 P. Hopeana by stream.

Kodachrome 17

Salvia. 19125 28/6

Mec. paniculata × waterfall 1/7.
Rosa 19082 2/7
Sax mitis Stolons 19270 2/7

Potentilla umbratilis. 6/7

Mec sinuata × Prim. alpicola 2/7

close up.

Kodachrome 19

Potentilla curviseta 19344 7/7
Burnhel. Tele. "
Lake below burnhel: "
P. umbratilis. against sun on cliff "
P. Sonardunii. 1938. "
Mec. simp. × lake behind. "

Duplications 16.

1 Sax mitis stolons 19270 2/7
2 Prim. umbratilis. "
3 Mec. sinuata × P. alpicola P'taus. "

Slide No.
(2) 4 Prim. umbratilis hale 19332 × Sax 19306 3/7
(3) 5 Prim Waddellii 19330 3/7
(9) 6 Prim " " 3/7

Duplicated 17

(5) 7 Androsace 19366 6/7
(6) 8 Potentilla curviseta? 19344 7/7

Kodachrome 18

Prim. Hopeana near Tolelaus 3/7
Prim umbratilis light form 19332 3/7
" " × Sax. 19306. 3/7
Androsace 19366 6/7
Yakherds hut surrounded by Primulas
sikk. × Hopeana. Close up. Asters.
Pedicularis. 6/7.

1st July: Saxifraga brunoniana 19270.
Rhod. Campylogynum 19277
Rhodiola wallichiana 19280
Cardiocrinum giganteum 19294

for a few nice things, the best being what I think is a Buddleia, but if so, its a much bigger flower than B. Colvilei 19272 which it somewhat resembles. Lil. giganteum is also common down the valley, & Primula B. muscicola 19266. on a tree, is rather nice. A miserable day for weather, but a good day for flowers.

2nd July. Halt. In camp, a fine morning after a night of very heavy rain indeed. From what I saw of the valley towards the Chachim La, it is good. But one would have to spend a night or two up there. There are two yak herds shelters, one at 13500, & one about 14500 just near the biggest lake I have seen in Bhutan. That would be a good place. There are magnificent cliffs all around, & I did get two nice saxs from the only cliffs I visited. But primulas, other than Calderiana & umbratilis were scarce. P umbratilis is common at 14500 & rather paler. I saw one white one, & hope it may mean that real white ones are close. If we can't get wild places in Nanking, we must return there. A mail from Betty came in on 30th night, very surprisingly, sent by Wangmo's servant to Bumthang. So I have written letters to Betty & Wangmo, to go off today if possible - or at any rate tomorrow. We collected the first of this years seed - P. absconditata. This is always the first to seed, unless one takes it soon, it is likely to be eaten by yaks.

3rd July. Halt. Went to Tolegang, & had a day with hardly any rain, but a long one. Left at 6.0 am & got back at 5.0 pm rather tired, but into 18 flowers in the frame, & some 20 odd ones amongst them, including Primula Waddellii 19330. Primula, which I had forgotten was so very pink & different in colour from P. tenuiloba. There can be no mistaking the two. After reaching the lake, we turned up right &

Seed from Shasi track or road then from Pangtang.

19266 ✓ Boriggsia yellow on the trunk.

19269 × Green lilac creeper on ground. river bank. red flowers

19270 ✓ Sax. with stolons.

19272 × Buddleia like red flowered ones.

19279 × Boriggsia (Gesneriac) red flowered on rocks.

19280 ✓ Streptopus simplex. ROOTS

19286 × Diddins. lanuginosa on rocks. Brunt. 'Dramating'.

19287. ✓ Thalictrum dasycarpum.

19296 × Thichalmon Daisy.

Seeds. Pangtang. (base)

19305 ✓ Yellow Sax up Chachlam route OR Tolagang to Rat Lake at 16,000 ft.

19327 ✓ Pink Primula Saxifrage scree " " " "

19328 ✓ Delphinium " " " "

19332 ✓ P. umbratilis pale form " " " "

19344. ✓ Potentilla curviseta Best from nala opp camp Darlung where both plants.

19346 ✓ Prim. sikkimensis. Above Sokpens but beyond.

Then went to a big cliff straight ahead. This was covered at the foot with almost white P. nubigenalis, a mite a bit like the yellow sax I got 2 days ago (1930a). Then again to the right, where found P. Waddelii & one or two other good things, including a high altitude Delphinium 19328 & a Sax 19329 — a nice dwarf plant which I don't remember seeing before 19327, which grows in sand slopes below cliffs. Pasang was separate, where got one fine big Gentian, G. phyllocalyx 19322, also a very pretty little white Potentilla 19324, which I'd like to get seed of, but unfortunately he only saw enough for the roots. Pasang saw many bunches, & I saw one. I must take on the gun & have a go at one one day. We were lucky today, as it was almost fine the whole day until 5 minutes after we returned, when there was a deluge of rain. Really we should camp now at 14500' to get the best of the alpines. There all seem to be high, & camped here at 12000 is far too low: it makes a long walk to reach 15000'. Tomorrow we have an off today, & then go up to Nanling, at about 13500. Perhaps from there I will send the lads off for a couple of nights to one of the yakherds shelters, which now surely seem to be about 14500'. Sent off a [illegible] letter to Betty & one to Arthur Wangmoo this morning.

4th July. Hail. More fine than wet. Great movings of trade up & down today, mostly Bhutanese, but also Tibetans. I stayed in camp, but Pasang & Yundon preferred to go out. They went up the valley behind the Sakpa huts, then over the ridge to the north, & then collected lots of quite good plants, including one fine Prim. soldanelloides, which was growing on a cliff, which I think unusual. I've always seen it just on steep open grassy hillside. Ngudup seemed surprised when I told him we would return here after Bhutan, for seed. I've been wondering whether it might not be good to go to the Tibet-La for Sept 1–12th or 15th,

Seed Markings.

19348 pink Saxifr. 400' up ~~stream~~ from camp. marked by old juniper tree.

19350 } Pedicularis v dark red }
19352 } Hedysarum white v brown } all 1 place about 1½ m up on R bank.
19366 } Rubus saxatilis }

19360 Sax? Gunnera (?) up towards Pinsum

19373 Pinus Wallichii up from camp.

19378 " Tonarduni "

19380 Acer pseudoplatanus.

19392 a A White reflexed P. Cavaleriei in lake up big valley to Drolma Shuki La.

19393 = 19415. Best type of camp: over top of ridge above A. pseudoplatanus from other side.

19395 + 6 Mixed. Take from camp.

19399 Delphinium. In sand scree near pass, up valley by goat 1½ m upstream.

19402 Pinus Arenaria. with Delphin. same scree. " " "

19403 Yellow Fumaria " "

19404 Too late Androsace Chamaejasme " " higher, nearer pass level with pass.

19405 Stolon Sax.? at pass exactly. may find a little

19416 P. capitata by camp 100' above on juniper.

19420 P. scabrifolioides. up gully 300' from below camp.

19423 P. macrophylla v macrocarpa up gully one below P. scabrifolioides, about 300' from top. R side

Seeds

as that would be a chance we would give much trouble. The snag is that from there to come up here one would again have to pass through Bumthang, & we don't want any more of that, when already we must pay a last visit on this return about 1 Oct.

5th July MARUNG. 6 miles. 13500' Pretty fine day, but no views. I rode up here on a yak today in great comfort. But we are not nearly high enough here, & should really be in the highest yakherds huts. The cliffs here are again covered with P. umbratilis, but there seem precious little other wise.

6th July Halt. A foul day of rain, wind & mist. We went about 4 m up the valley, then turned south up a side valley, the one I eventually hope to leave by. But we were so low in such mist, that we could see only 10-20 yards, & did it matter if there were cliffs about, or open country or what. That doesn't make plant collecting any easier. One can only take a chance of finding things, without knowing where they should be. In spite of that we got quite a number of flowers, though nothing very startling. The yakherds huts up there are very beautiful – at least round about them is beautiful – a mass of white aquilegia P. subhimeneris (or Hopeana) Euchrysone 19365. in a sea of yellow potentillas & Calthas, asters & red pedicularis. When I got back I found a flower box had been sent up here from Bumthang, with no letter or message. The boy only said that he had been told it had come from Bumthang. It must be Ludlows, & makes one wonder what is happening to other boxes that were left there. And it also makes one wonder what will happen to the boxes & bows & arrows & other presents which are coming from K Pong to be left in Bumthang. I hope they don't come on here!

I don't feel as if today had been a good one, exept Parasa at have 16 flowers in the press. Yumdrin at 5.0 pm. is not yet back! He sometimes does this, but I am a little worried as he went off by himself, & the mist was very thick for most of the day.

7th July. Hoch. Rather a good day in some ways. There was terrific rain last night, but it was fine when we left at 6.0 this morning, & even the extreme tip of Kangkar pünsum was clear. It remained almost fine until we were a mile from camp at 3.0 pm. when I was glad to hear thunder, thunder only two claps. But that did what it usually does, & cleared the atmosphere at once, after an hour we had bright sun. Now at 5.30 we're having a heavy hail shower, which I also think seemed to be a good sign for tomorrow. The dry Tibetan Malean air is fighting the monsoon, & hope for one fine day. We went up a nala opposite camp, & were somewhat disappointed near the first lake, but there are 3 lakes, & the place looked very good. Of chief interest were P. waddellii in masses on N & W slopes, & at last P. Tomentosa, looking very pretty growing among Diapensia himalaicum, which here seems to be very late. I saw a herd of burhel which I stalked quite nicely, & got to within about 50 yds of. There were about 40 in the herd, & took some cine pictures of them.

8th July. Hoch. Stayed in camp. I thought it would be a bright clear morning, after the hail & thunder yesterday evening. In a way it was - very clear above, but a thick mist here & up some hundreds of feet. But that began to clear suddenly about 7.45 & for a while we had fairy-like view of Kangkar pünsum through the over

changing mist. It was never clear altogether. I went up the opposite bank & sat awaited, but the mist eventually got thicker & hid it altogether. But we had real good sun up till 1.0 today, which has been very nice indeed to dry things & cheer us up. I wonder if we could have a second clear day. I just wish that Betty had gone over the Pang La today & had a days halt in Tsrang. In the afternoon again we had very heavy rain, but also some thunder, so I hope again for a good day tomorrow, at least for a while. We've been asking Nzudup about crossing the range to the West, but can get nothing from him. But we must move somewhere. No one seems to know anything about passes & places. We have to give 5 days notice, as coolies come from as far away as Kantamang 1m NNW. With difficulty I could fill in another 5 days here, but we were get much closer in three days.

9th July. Halt. A sparkling morning, with frost down to about 15000 up the valley. I decided to go to the pass we hope to cross eventually, but could not get off till 6.25. I think Nzudup now holds everything up in the mornings. Anyway we were off at 6.15, & we were only back by 5.45 pm, very tired indeed. I will add to this in the morning, as I cannot manage now. A lovely day, but hardly a flower. The pass is called the Drolmo Shöki La & is certainly 16000'. It is absurd to cross too. At first the route is easy, up the valley for 4 miles, then left handed up the side valley, steep at first, then easy past two lakes, & a final ascent of 500' over big boulder scree. The far side is the same. We have decided against going that way. No one seems to know the other side either. The day was lovely, though Kangchanjunsum only remained completely clear for a very short time. We had fine views of snows at any rate, & ample sunshine for a change. We saw fresh

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pugs of a big snow leopard at 15000', but otherwise no wild life. Flowers were very few. P. concinna 1939? was in masses at the first lake, & nearly all white which I've never seen before. Then a little higher, certainly 15500', Pasang got a pretty Allardia, with mauve flowers & covered densely in white felt like hairs, all over. Got back dead beat - even Ngudup- to find the mail had arrived & a basket of vegetables from H.H. Nothing very much in it, but it was nice to have. No mail from Betty. She's been v. lucky in weather I must say. Again a fine day.

10th July. Hath. Again a good day, with a few fine showers amid sunshine, & Kanchan visible quite a lot of the day. Stayed in camp & got a mail off to Kpong, H.H., Betty & Wangmoo. Tobgye is asking for our dates of sailing, so that he can get MK's passage booked too. So I have written H.H. today to ask what his plans are, telling him we proposed to fly, & even prefer to do this, but that we will go by sea, if possible, should he particularly wish it. No flowers today. We have now planned not to go by the Drolma Gyuki La, but by the one opposite here, on 16th. That decision made, is very nice. Now we have 5 days here, & we know how our time will be spent in till we go to Bumthang.

11th July Hath. Another beautiful morning, followed by heavy hail & rain about 2.0pm & clearing up after. Gyundu's feet are too sad for him to go out, so Pasang & I went ourselves. We went up stream to the first yakherds on the R bank (1½ m.) then turned up that valley. The climb was very steep at first, past a small

lake, then steep again to a pass. Here we got more fine flowers in sand scree which there abounds. Beyond this were more lakes, & we had crossed the divide, as the water flowed down another valley which comes out to the main valley a mile further up than ours. But it was a disappointing day for flowers. We can't get much now, it seems. P. donardumi was there, & P. tenuifolia & P. Waddellii & P pusilla & P. concinna white & pink. There were also plants of Parargs ahardia, but no flowers. I hope we can get seed of that thing somewhere. We were out soon after 6.0 & back at 4.0 pm. The trouble of doing that is that Lhakpa & Nguduys do all the flower changing, & then have ruined a number of gatherings by careless work & burning. I can't get either of those two to do anything well, & moved cheerfully see them both go. I must ask HH if I have a chance, for someone in Nguduys place. On 9th, we found one 'Yer-tsa-gumbu' = a queer thing - the first I have seen fresh. Certainly the root is most 'bu'-feeling & even looking. As it was found by the pony man I did not claim it. It was at once pinched by Nguduys who complained of rheumatic pains, & of course Yertsa gumbu is wonderful medecine for that. The 'flower' or I think spore case only sticks up about 1" above ground, & in grass it must be very very difficult to find any number of them.

12th July. Holt. I stayed in camp again & Parargs above went out & the valley one below opposite camp. But he soon came back up & climbed over into the valley opposite camp. He again got a little of the woolly ahardia, in the valley below camp & one over from the tent. Physocalyx in the valley opp. camp. There is ice coming on, & seed - It was misty last & again cleared up to a very nice, if cold, day, with lots of sun, & no rain here at all (now 4.0 pm). I hope I will get

B. W. 10.

1 Kangkar pūnsum in mist. 8/7
2 " " clear. 9/7
3 " " from above highest goat. "
4 Prim. concinna white & pink 19392 "
5 Prim. Hopeana white eyelow. camp. 1939 5-6 10/7.
6 P. umbratilis with rain drops on flowers. 11/7
7 Small scree plant 19402 Arenaria with P. umbratilis 11/7
8 Androsace globifera 19404 11/7
9 Primula Jonardumi & P. tenuiloba 11/7
10 P. capitata. K'punsum b'grind. 12/7
11 P. macrophylla v macrocarpa 13/7
12 P. soldanelloides. (3 only) 13/7

Kodachrome 20

P. Hopeana by stream. 8/7

Kangkar punsum in mist. 8/7
Hills behind camp in mist "
Kangkar? "
Kangkar from up valley. — 9/7
— — higher up Bhutanese "
— — further up. "

17, 18, 19. 20 sent. 10.7.49

Kodachrome 21.

P. umbratilis. 11/7
Androsace globifera 19404 11/7
P. Jonardumi & tenuiloba 11/7
K. punsum 12/7
P. capitata. K punsum b'grind? 12/7
+ close up.
P. macrophylla v. macrocarpa in mass. 13/7
Yuendin Lachung Rhenmondale. 13/7

Duforcolour 17

1 P. Jonardumi. 19378 8/7
2 P. Hopeana by stream. "
3 Kangkar punsum. 9/7
4 P. concinna. White & pink 19392 9/7
5 Androsace blue 19394. "
6 P. Hopeana white eyelow 1939 5-6 10/7.

16 + 17 sent 10.7.49

Duforcolour 18

1 Small pink screeplant 19402 11/7
2 Androsace globifera 19404 "
3 Lake at top of valley on 11/7 "
4 } P. Jonardumi & P. tenuiloba "
5 }
6 P. capitata. K'punsum b'grind. 12/7

one more fine day, before the break comes again. There was bit of rain in the night, & has been since the fine days came. How may it continue thus. Ngudup always gives such awful accounts of the rain from about now on for a month, that I can hardly expect much more clear weather. Yundru's feet dont improve much. We will miss him, as he always went a good long way, & always for some wood & twigs. And he had learnt to put flowers well, & much not to change them well.

13th July. Hael. Thick mist in the morning & till 10.0 am. by which time we had climbed one of the awful gullies just below & behind camp. What a climb, and there was nothing new at all. What was there, in greater numbers than I've ever seen, was P. macrophylla & macrocarpa - in the hundred. We looked over the other side, but it was all too misty to see anything. We came down one gully this side of the one we went up, equally steep, & almost as hard work among all the boulders & not very steady rocks. Again nothing new, but we marked a place where roots of P. sikkanelioides (19420) could be taken. There were very few in flower, but a number of plants. Beside it grows P. sapphirina, & close to, also P. tenuiloba & P. Cawdoria. The P Cawdoria up there was remarkably behind time, still in perfect flower. All these days now are disappointing, & I'll be glad to get over the pass to the Tsangpo valley. Perhaps it won't be any better, but it will have many new places for us to try in anyway.

14th July Hael. The monsoon is back in all its fierceness again today, with thick mist & heavy rain all day, & last night. But we have had a really good break since 8th, & can't complain. I again stayed in camp today, & did photos, while Pasang & Tundru went on & up the gala on the right bank some distance up, but not the furthest up, which leads

to the Drolma Shöki La. It is much colder now than a month ago, & they will be pretty chilly when they come in. A woman came down from the yakherds 1 m upstream, with her child aged about 6. The poor kid had been riding a sheep (!) that had fallen off & broken his arm - about 3 days ago. It had been tied up with some wool, very tightly, that made things worse by strangling the arm & causing large blisters. I don't know what they had put on. I doubt if it did much good, but I put a splint on & dressed the blisters.

15th July Hard. Thick mist & rain. Stayed in camp again, so did Pasang & Gyundon. We are all tired of this place, & will be glad to move tomorrow morning over the pass leading to the Tsongsa Chu. Several men have come up from Pangtang, with 1 animal, the Drukhocha mules, to graze above here. I hoped anyone coming up here might have brought a letter from Betty, but there is none. All Porters have turned up this evening. I still can't get any information about where we are going to. Someone must know, but Ngudup either won't or can't extract any useful information - the same difficulty as one always has on first going to a place.

16th July. Namdating From 5.45 to 1.30 pm. Mist all day, rain on & off. This was a queer march, & I'm not quite sure yet where we are. First we went up the valley opp. camp; over the side to the south to the next valley, down into that & steep up again to the ~~Sakpelka~~ Kyikyi Tsom La. The first pass would be about 15000' & the ~~Kyikyi Tsom~~ La about 15500. Then down rock scree & grass hillside to between two fine lakes at the head of what I had previously seen from was the Chachuncha valley. This is the one I went up on 1st July; & the lower lake was the one I just

The place is called Kyikyi Tsam

reached that day. Then again up a long rise to the Nanda La, which will be about 16000'. Then down again past a lake to the place which is just a couple of yakherds huts on the open hillside. Altitude about 14500 I should think, but I can't see anything anywhere for sure. On the Nanda La met a man who said something about a sahib, but I thought he had been ahead to arrange for us. It turns out he is from Ludlow, who is at Chachukmang, a full days journey from here. He was sending to the Sahpon for eggs, a hen, & two tapsiwks. The letter was in Hindi which the Sahpon can't read, & he has in any case gone to Tibet, we are told now. So we're sending on a Tibetan letter to his servants. And I will send a letter to Ludlow tomorrow to tell him we are going to Jiutang, & ask him to meet me there. The divide between the Buuntsang Chu & Mangde Chu is the Nanda La. Whether we will find any more flowers here or not I don't know, but one thing was immediately noticeable - Mec horridula 19436 this side of the pass is twice the size of those on the other side, & the colour is a fine blue, instead of the miserable dirty colour on the other side. It is curious & most marked. Real heavy rain did not start until we were in camp, I'm glad to say. A poor day for flowers - saw nothing new again.

17th July. JIUTANG. 12000'. Probably not more than 5 miles. Thick mist & rain most of the day. We were unable to see anything at all of the country this morning, & had no idea even which direction we were going in. After a short bit over grassy open hillside, we suddenly dropped steeply between cliffs, where at once we found lots of Meconopsis bella 19437 . It was particularly pretty, as the cliffs were covered with Primula muntaloides, & the two were all mixed up together. It would be interesting to know why Mec bella is

so happy here, ~~the~~ completely absent only a few miles away over the divide. The white androsace which grows in huge vertical clumps, which we only seen once before, in the Chachikn Valley, was here in masses – for about 2-300'. But there nothing else of much interest. An answer is in from Ludlow, & I go down to meet him tomorrow at the hot springs, Dur Chutsen, which are right on the bank of the Manyde Chu, somewhere near where the map shows. Ludlow got a new meconopsis, in masses, pink, one flowered very fine.

18th. Dur Chutsen. 10800'. Got down at 9.0 am to meet Ludlow here in a filthy camp, along a filthy path on a filthy day. But it was good seeing him again, & his Meconopsis, which I say is Mec. Grandis in a fine form. But then the blow fell. A letter came for Helen & Betty, to say Betty had had a fall & was mildly concussed into a possible broken arm, & must go to Calcutta. So all our plans, which we had just finished arranging in detail, have had to be altered. Now we must return to Bumthang at once, where Betty arrives on 26th. We will reach there on 25th & then fly on with her to Kpong. I must return for the seed as soon as I can. And that is that. It is a big blow, but cannot be helped, & we must work out the best way of getting them now out of the country.

19th July Hadi. Stayed in camp, except for short walks up muddy paths. It was interesting to see Dawang come in with his pass pole after 2 days out. He is worth 3 Pasang Kyndon together of course. That is only natural. He has had years of training, appears on his own as well as with sahibs. He brought in a big haul of quite good

stuff. We are not now sure if our coolies will come tonight or not. It will be bad if we can't get off tomorrow, but we think can reach Bumthang before Bobby, who leaves Deuchung on tomorrow. Quite a fine day for such a soaking place as this Bronsky is.

20th July. Amlungrang. 4 m S of Jü La. A fine day. A long march from 5.45 to 2.30, over two high passes, 14500 + 15500 about, a rain very heavy all day. Dorong had been over this whole place two days before, so we were not likely to find much again. Nec belia very common + growing on open grassy slopes as well as cliffs. Nec horridula also v. common, + a fine cerise, often favouring marshy very wet places, in a queer way. N sinuata also common. P. Hopeana with a red tube, either white or yellow, in great numbers. Down here, there is an iris, the first high altitude iris we've seen yet. I should think the area is good for a pretty thorough examination, but we will have no time for that. The passes are called the GOKTANG LA + the JÜ LA, the latter being the higher.

21st July. Halt. Stayed in camp. Very wet day.

22nd July. Camp 4 m above Dhur. GORZAM This was a very fine day altogether. It was misty + damp when we left at 6.0 am, but cleared up + we saw blue sky + sun for some hours. It was fine till 3.30 when a terrific storm of rain came on, half an hour before we reached camp. I don't know how long the march was: it was a good long way, but there were plenty of flowers, + good ones, + we did not notice how far it was. I started with a yellow iris, but the pick of the bunch came about ½ way, with the finding of a new lily. How lucky this was can be guessed when one thinks that only one flower was seen, + that that happened to be almost exactly where I stopped to put flowers in the press. We walked almost

B. W. 11.

1 P. soldanelloides. 13/7
2 P. Waddellii. 16/7
3 Mec. bella 1943? on cliffs with P. umbrabilis 17/9
4 Mec paniculata. "
5 large thistle. 1946?. 20/7
6 P. pusilla. 1946? camp. 21/7
7
8 Anemone rupicola. 21/7
9 Mec. paniculata habitat "
10 " " " "
11 Stephlospermum simplex. 22/7
12 Notolivium macrophyllum 1948 22/7

Kodachrome 22

Prim. soldanelloides. 1942? 13/7.
Mec horridula. 16/7.
Mec. bella 1943? on cliffs with P umbrabilis 17/6
Mec paniculata "
P. Hookeriana ~~steam~~. 20/7
P. " red tube. close. "

Kodachrome 23.

25 feet stuck. wasted.
P. pusilla. 1946? 20/7
Anemone rupicola 21/7
Mec. paniculata hab. 21/7.

Duplications 19

1 P. macrophylla v. macrocarpa 1942? 13/7
2 " " "
3 P. soldanelloides. 1942? "
4 " "
5
6

Duplications 20 X

1 P. Waddellii. 16/7
2 Mec horridula 1943? 16/7.
3 Mec bella 1943? on cliffs with P. umbrabilis 17/6
4 " " " "
5 Mec. paniculata. "
6

Duplications 20 X

1 P. Hookeriana with red tube 1946? 20/7
2 Thistle. 1946? "
3 P. pusilla clump. camp 1946? 21/7
4 Mec. paniculata habitat. 21/7
5
6 12 films sent in No 20.

certainly ab has passed true flower, & the many plants with no flower, had it not been for these coincidences. It is a new lily: it must be, isolated like that in Cent. Bhutan. It is not a startling flower, rather tubular 2½" long, & brownish red, one or in one case only 2-flowered. A new lily is what we have wanted all these years, & now we have it. Lower down Rhod campylocarpum was common & R Keysii (1948) v. common. Buddleia Colvilei was all over the place - a magnificent shrub. Then near camp we came across masses of Hedychium macrophyllum (1949?8). I have never seen so much anywhere. To add to my excitement, a large mail came in from Kalimpong, & in it, the very exciting news that Branch is for sale & we are likely to get it. That just capped the day for us. I have taken bulbs of the lily to send home. A letter from Taylor says that the dried roots of P. unistratilis have arrived safely. He gave one to be microscopically examined & he soaked one for a night - to find it already showing green next morning. Alboretum a very fine day to remember. The valley we came down is one which would repay a thorough search. I wish I had chosen it instead of the Bumthang/Chu, but one can't tell from the mouth of the valley what it will be like.

23rd July. DHUR, about 4 miles. Mostly fine, but very damp, & rain after 2.0pm. An uninteresting march down a filthy path. We were right out of the interesting zone today. There are some flowers, but they are low altitude ones & common. Here two rivers join, the Dhur and another from the N-West, almost equally big. That valley might also prove a good one to work. The more I see new of the country, the more I wish I had come up this way instead of Wallich.

Seed wanted from Tongsa Commander.

✓ 1943? Mec. bella clipp below Mandarin.
✓ 1943g White Androsace. just below them.
✓ 1944 ? pink striped flowers "
✗ Notolirion hyacinthinum. on Yankeedrift.
✓ 1944? Prim. geraniifolia
✓ 1946a. " Hookeriana - some white red tube.
✓ Fine big polygonum just beside them.
✓ 1946? Big buttle.
✓ Meconopsis horridula.
✓ " simulata.
✓ 1946g Primula pusilla
✓ ?. glabra.
✓ Anemone rupicola.
✓ Mec. horridula
✓ " simulata
✓ " bella
Viola big white.
✓ Iris blue.
✓ 1949o Lily x x x
✓ 1949? Polygonum fine big flowers. behind rhodo sinus in clearing.
✓ 1948a. Geranium big flowered same clearing.
✓ 1949? Notolirion macrophyllum.
Yakwa Orchid on rock 100ˣ below camp R side.

From Bumthang

Clematis big. ✓
Honeysuckle " x
Primula yellow on trees. x
Polygonum. x

Seed from Kyikyi La. Rhod. ciliatum. Notolirion macrophyllum, Thalictrum chelidonii. 1954.

Yuto La. Big clematis Gaultheria, Streptopus, Smilacina Veratrum, Rosea
Tongsa-Tashiding. Codonopsis purpurea. Lily. 1955. 1956. White rose 1956.

24th-Hakk. Hurley developed photos. A good deal of rain.

25th July. Bumthang. A short march of about 4-5 miles into camp at the "football ground" of 1933, where now there are large + comfortable quarters made for P.O.'s, but never yet used by them. HH called in the afternoon + stayed some hours + was in good form. He told me he definitely wanted TK to go home with us. This will also be very difficult for us, but it must be done. I have heard that we are likely to get Branch, + so we will have to move into an unfurnished new house on arrival. There will be very hard work there.

26th-30th Hakk. Good weather each day, with bright sunshine most of the day, + very heavy rain at night. Betty arrived on 26th with Hicks, + we met her on the Badr La. She has great pain always, but the arm is getting on slowly, + she can manage now to do everything herself. We arranged to go together to Ha only, from where I will return here for seed. On our way in from the Badr La, HH met us in a tent in the palace grounds. Next day we all called on him + had lunch + tea + gave our presents. Then he came here on 28th with the children + Choden for lunch + tea. He is coming again today for lunch + to say good bye to Betty + Ludlow. HH has been v. kind indeed as usual + did at once all the requests we made: Hicks back to the Tela: Ludlow to Chendebi + awaits a special riding yak: B + I to Ha + then I come back here + to Waitang. For presents we gave steel bows + 12 steel arrows: saffron, pens, jumpers, + many other things, + to the Ashis + velvet from Liberty's + four Isle jumpers + gloves.

31st July. Halt. Another good day, with very heavy rain indeed at night. Each day here has been good & each night very very wet. We were left alone today, except for a few odd things sent to us from some one.

1st August. Gyechar Again fine & sunny until after we reached here at 2.0 pm, when there was some rain. We left at 8.0 a.m. & Chöden came out to meet us. Then on past Lame Gompa where Tashi Pubo Wangdi gave us tea & 'āō-ed' to us from the window of the Dzong. It was very hot & sunny, but very pretty up to the pass, where the Rhabdotum (Chelidonii?) was really magnificent. Some of the plants were 10 feet high, bearing huge heads of flowers. We sowed for ample seed time. Nyidup came on here to give us food & see that all was in readiness for us. Betty stood the journey well, but two slips on the clay paths near the end hurt her arm a good deal.

19514

2nd August. Trongsa Dzong. From 5.10 am till 11.45, with half an hour on top of the pass, & the usual flower halts. A perfect day, blue sky & bright sun, & of course very hot indeed down here, but there is a breeze. Nothing much to be seen on the way, of any interest, but we got some seeds — of 2 raspberrys, & a few of Streptopus & Clintonia. We stowed for more on our way back. Betty much better today, & not feeling her arm so much. H.H. has provided food again here for us all, servants included.

3rd August. Tashiling A clear night & hardly a cloud in the sky this morning. A good march, & not too hot, as we were up by 5.15, through the huge Dzong, & done to the bridge over the

Manjo Chu. I always remember that bridge, where in July '33, Ludlow & I arrived very hot indeed & somewhat tired after a long day collecting birds & flowers. Tobgye very kindly had sent down 2 mules for us to ride to Tongsa Dz, a most welcome sight, 2 bottles of beer, kept cold in the river water. The only flowers of note today were Lilium Wallichianum 1959, and Codonopsis purpurea 1957, seed of which we need get in October this year. We taken it before, but not seed. Here they have made a very fine bamboo house of 4 rooms for us, & also stables & cookhouse. I wish it could be kept clean. At present it is unused & absolutely clean, & even smells clean.

4th August. Chendebi. Another perfect day, after a bright clear night. All this clear weather is very unexpected & unusual, but welcome, especially on these potentially leechy days. We took a good many flowers today, & could have taken more, but I have limited space in my boxes now. Here I went up the Lamsa La route to get Prim. Hayekiana 1957?4, & found it in masses on the same cliff as in '37. Again we are out in tents, but in a bamboo house, built 2 yrs ago for H.H. when he visited Ha. This was a longer march than I remembered it to be, from 5.10 to 11.20, but we had many stops for flowers.

5th August. Ritang. Another fine day, after a fine night. But the clouds are now low & there have been some drops. This will be our last fine day I think, but we have had a wonderful spell. Today we passed many Lil. nepalense, but all in unripe seed. On a cliff about 2 m above Chendebi we got a pretty little flower, which I hope Ludlow won't take, as we've kept just enough for seed. The Pele La is easy from the Chendebi side, but very steep indeed down this side. The headman here is poor, & had made no arrangements for us at all. We passed 32 of His own fine young cows, all going to Ha, presumably to replace those which have died there.

B.W. 12.

1 Thalictrum chelidonii 19544. 2/8
2 Chorten at Chendeki. 4/8
3 }
4 } Codonopsis vaciniifolia 19620 16/8.
5 Polygonum vaciniifolia 1961 17/8
6 }
7 } 1961 7
8 } Mec. supersa. Halakyala. 17/8
9 }
10 P. capitata v crispata 22/8.
11 }
12 } Wangdipotrang bridge 25/8

Kodachrome No. 24.

Thalictrum dipsumflora. in Sun o
Buddleia Colvilei. 22/7
N Stolicsin macrophyllum "
Compost Camp Bumthang. 29/7 22.23.24. Sent 31/7.

Kodachrome No. 25.

Children of HH. at party inter balloons. 29/7.
Thalictrum chelidonii. Yutora. 2/8.
Child at Tashiding. 3/8
Chorten by river, Chendeki. 4/8.
16013 Rosa red (macrophylla)
16012 Acer sp.
16014 Berberis sp Hala. Sheptopus Hayalaila
19614 Myricaria sp. Vaccinium " "
16161 Adonis yellow Cotoneaster (Crab)? " " 18685 Euphorbia.
19570 Viburnum (Pseudopsis)
19620 Codonopsis vaciniifolia.

Dupgaelom 21.

Sheptopus simplex
1 Thalictrum dipsumflora. 22/7
2 Buddleia Colvilei. "
3 ? Stolicsin macrophyllum -
4 Seed sent
5 No 20 31/7/49
6

Dupgaelom 21.

1 }
2 } Thalictrum chelidonii Yutora. 2/8
3 nil.
4 Polygonum vaciniifolia 19 17/8
5 Mec supersa. "
6 Not taken. 4 only. Sent Ha 21/8/49

Seed to Taylor about 22 20.8.49.

20963 = 18692 ✓ Ribes -
~~20964~~ R. Smithiana
20902 ✓ Omphalogramma.
16279 ✓ Mec. dicaysera
16704 ✓ " sp nov.
16685 ✓ Prim. 2 phts.
20964 = ~~20967~~ 20937 ✓ Prim. Smithiana.
16266 ✓ Thermopsis barbata.
16296 ✓ Fritillaria sp. 15500'.
20921 ✓ Iris decora.
~~18800~~ 19545 ✓ Rasp berry.
19548 ✓ Rasp berry.
19549 ✓ Rasp berry.
18800 ✓ Clintonia. ?
19280 ✓ Sheptopus simplex

we hear Raja Dorji lost 160 cattle three lately.

6th August. Sauteygang. Rain at night, rain & mist most of the way here. Nothing of interest on the way, except Lilium nepalense, which is fairly common, & immature seed just now. We took from 5.30 to 12.45, the longest march so far. The Ritang headman was not good. He was not ready for our arrival, had no wood or supplies, & then failed to have any coolies in the morning, & did not turn up himself. Sauteygang was very different, & everything there was ready & well done.

7th August. Wangdipetrang. Thick mist & rain – on the one day I thought we could certainly expect to be fine. But it cleared up later & was bright for a while. The local Dzongpon came & called & he caused us some consternation by staying for an hour & a half. At last I thought he was waiting for me to tell him he could go, so I got up & induced him to get up too. Then I led him out of the room & showed him the steps down. But not a bit – he led me through two other rooms & then said "Here you are – here is the Laratory". I told him I did not want that, & then reluctantly had to lead him back to our room, & where Betty was very surprised to see him again. A pleasant, polite man, but very little use, one would think.

8th August. Halt. Wet all day.

9th August Camp Hinglai La. Off at 5.15 in heavy rain. We reached the pass at 1.0 pm, & coolies not till 4.0 pm. They were very slow. Cleared up in the evening. Little of interest seen.

10th August – Tsalimape. A little over 3 hours. No flowers except one Pyrola. But we got very good seed of Stephanus simplex, & also of Vaccinium & a Cotoneaster. Here a very pleasant & simple

seen on 19592 familiars 19595

Seed to be collected Tongsa Dz. to Ha.

Kyikyi La - Rhod. ciliatum ✓ N.Stoloniun ~~macrophyllum~~. Thalictrum big. 19544 ✓

Yuto La. Clematis big. Gaultheria Streptopus Smilacina. Buddleia about 2 m from Tongsa.

Tongsa-Tashiling. Codonopsis purpurea. 19558. Lil. Wall. 19559 / red creeper. Luculia Pinceana. Ludlow's white tree. aff Poncissia 19561. White rose.

Tashiling-Chendebi. aff Poncissia red ✓ Rhod. Cerasocinnum. P. Hopeana ✓

Chendebi. Ritang. Lil. nepalense - Dregatra on cliff 19580 2m above Chend. Adenophora 19577 on steep ground where lily was in 37 ✓ aff Poncissia on trees W of Pass. N.Stoloniun on rock with L. nepalense where first seen.

Ritang-Wipetrang. Small plant on cliff where landslide in 19579 Morina ✓ 19581. Compare Rita info.

Ritang. S'gang. Lil. nepalense. ✓

S'gang - W'trang. nil. ✓

W - Hing La La. Saccale tube? Thalictrum opp camp. Lil. Wallichianum bulbs. ✓

H.L.L. - Tsalimapa. Streptopus. Vaccinium.

T to Paro. Ceratostigma. Codonopsis.

P to Ha. P. elongata. P. Pet? Impatiens yellow. Aconite. Paeonia. Ranunculus.

Kodachrome 26 finished 16.8.49 not numbered.

Wangdiphrang bridge.	8/8.	Taken by Betty on 16/8 Hpong-Kpong 22/8
Paro from East. ? ? ?	17/8.	
Codonopsis spunr No. 19620	16/8	

Kodachrome 27

Polygonum vacciniifolia	17/8 ?	Ha la.
Meconopsis superba..	"	
Polygonum vacciniifolia	-	
Cyananthus l.Balms. Hala.	"	
Ha Dzong Trees	20/8	

Bulbs sent to Parbir. 22/8/49?

19490	Lil. sp-nov.	2 bulbs.
19498	N.Sto. macrophyllum	1 –
19465	Corydalis white.	–
20056	N.St. hyacinthinum (pink).	–
	Lil. nepalense	3 bulbs
19460	Germinated seed. Lil sp-nov.	
19620	Codonopsis sp-nov - separately.	

Zimpon rode down from Tashi Cho Dzong to see us, & he stayed a long time with us. He has imported two rice mills & I went to see one. It is a small & easily transported machine, which husks 30 mds a day. He takes 5% of rice as payment. He made the wooden driving wheel & the power is water. It all works very well. I showed him how the rice huskers of Kashgar work, & I think he will make one to try.

11th August. Pyimitangka. 5.15 to 10.30. Fine till we got in, then a few showers, & a fine evening. A nice valley, dryer than any seen in Bhutan with mixed pine & broadleaf forest. Ceratostigma Griffithianum common on first half of march, but in poor flower this year. 1959?

12th Aug. Paro. Mist & some rain until close to Paro. Were met on the Bolaka by some of Tasho Dzongpen's men with tea & biscuits, & later on by Tasho himself. This was unfortunate, as I had no chance of finding the Cardamine again, which I got on 19 Aug 1937, & which is new. This was very sad indeed, but I will have another chance on returning.

13th August Ha Dzong. 6.30 to 2.30 Heavy rain to start with but clearing up. Did not see any Peony, but was not looking carefully today. Cotton were late, & have never got in tonight at all. Have both a few plants on the pass, & some seed of Paraquilegia. Very nice to get in here, to a comfortable, clean rest house & polite smiling people to meet us. No one in Ha wants one: in this way it is quite different from any Dzong we have seen so. This must also be due to Ugyen's influence. Tasho has also come over from Paro. I think he was glad of the excuse of coming over with us, so that he could get more shooting on the way. This is what he really wants the whole time. He has forgotten a lot of his English, & is now not nearly so nice as he was when in Kalimpong last winter. He now runs about

Seeds to collect from Ha to Ha La.

Codonopsis sp nov. 9620 — 54 tubers marked with sticks.
Prim. ferruginea — 2 m above Domthang.
Polygonum vaccinifolia — & ROOTS
Primula pusilla
Primula Petiolata. — ROOTS. — top of pass
Potentilla white red centre — ..
Meconopsis superba
Cyananthus lobatus. .
Primula elongata. .
Primula Kingii. — ½ m before pass

with unlimited servants, who are mere dirt to him. What he needs certainly is to be taken away from all that kind of thing, made to do something, & think for himself a bit. He knows nothing of his country at all, seems to care less.

14th or 15th August. Hooker. Tobgye has sent orders here that everything is to be done for us, everything produced free & any wishes we have fulfilled. Apay has been very good & useful. We have at our plans now fixed at last, after a small mail came in from Kalimpong. We suddenly decided that Betty should fly home as soon as she can – on Sept 2nd if that could be arranged. She can do more that way than by remaining in India, with no home. She will get good treatment & she will be able to see about a house for us at home. Branch is only offered at too high a price, but there is another very attractive sounding place near Inverness which she can see. So now Betty leaves tomorrow, reaches Gauhati & Kalimpong on 21st & Calcutta on 26th. She'll have a few days there to do all we have all asked her to do, & fly on 2nd Sept or as soon as poss. after. We've been out fishing each day for a few hours. I've never seen so many trout. Thundu was unable to catch any big ones. None were feeding much, though then came to the fly alright. In the first 10 mins. I had caught over 30, it was really not much fun. There were too many. Twice I had 3 on at once. Tasho has no idea of fishing. He prefers standing in one place with bait & dangling his line trying to get big ones. His servants hold his rod & catch them too. We have missed at least one mail while coming here, & this has been somewhat worrying, as there have been important letters in it. I thought that it would have been returned by H.H. but it has not been. Tobgye tells us that the Treaty has been signed at last. He must be very relieved indeed, & he

deserves the thanks of everyone in Bhutan for what he has done. It leaves Tarka unmoved. He hardly knows of such things at all.

16th August Damthang. We left this morning after a night of very heavy rain, at 930 were in Damthang at 130. The only interesting thing which happened on the way was the finding again of the very lovely Codonopsis which I got in 1937 under 3568. This we failed to find near Paro where originally taken, & was very worried about it. But here - just below Haba village - we found many plants, & showed have no great difficulty in getting seed & corms fit in October. I will in any case have them marked with stakes. The flower is more beautiful, a bright mauve blue, & bigger than Codonopsis viridiflora. This is shown up well by a wine red ring ½" diam in the centre of the flower, & a rusty brown large globular ~~style~~ stigma. Otherwise it is just like C viridiflora. If we get this introduced, it should be a great attraction at home. The corms or tubers are like potatoes, & can be as much as 2" long.

Codonopsis Convolvulacea 1962 Cf. 3568.

Rhododendron 1961

17th August. Return to Ha via Ha La. The day started well, after heavy rain at night, & B & I got up to the Ha La by 930 in drizzling rain. But when we reached the place where Rhododendron grows, between the two passes, the sun came out & we had one hour quite bright again. During this I took some habitat photos of the Rhod., which of course is now in unripe fruit. It was very pretty up there, as flowers are still numerous. The most beautiful is certainly Polygonum 1961b vaccinifolium sprawling over rocks & forming huge clumps of bright rich pink.

Polygonum

Granantha Waters is in full flower too, several Scrophreaces & even Prim. farinosa. When we left each other at 1030, Betty to go on to India, & to return to Bumthang, the rain came down in solid sheets. Later we it continued till after I reached Ha, which took 5 hours going fast. It was very sad leaving Betty, & I know she felt it very much not being able to finish her trip there in the seed collecting. She will have a very busy 2½ months now till she flies back at the end of October - just as busy as we will have here I think.

18-19-20 August. Hatt. Ha. Both days very wet, either here or up the valley, or every where. River very full indeed, fuller than any high water marks on 18th & much discoloured. I tried fishing but never touch nothing at all that day. Other days fishing fair, but I have seen no fish over 1½ lb, except on 19th one of perhaps 2½ lb came to my fly - the only big fish seen. Ludlow would have called that a small fish in May. It seems that the time for fishing here is certainly not in the wettest part of the monsoon. Probably the best months are Apr. May June & September. Got a letter back from Betty to say she reached Bumthang alright, but obviously very wet. She will now be on her way from Chazam to Karpang, & in Kalimpong tomorrow, all being well. It has been very nice here, but one wants someone else to enjoy the place with. There are few flowers up at this altitude now, & so little interest except fishing. No news still of the missing mail. I think H-H. must have kept it till I return. Had a letter from him, but no mention of the mail in it.

Seed sent ~~varia~~ Ita on 21. 8. 1963 Pomocarpum himalaicum
1928o Staphylaea simplex

Pyimitaungha to Paro. Seed of big white Astilbe.
✓ purplered " } Where NK met us.
yellow Sax near top L side ¼ m down
Codonopsis.

Tsalimapa to Pyimitaungha. ✓ Campanula. all open steep earth banks.
✓ Cotoneaster. 19632
X many coloured sorts R bank river below 3rd br.
✓ Ceratostigma 1st village.
X Red Clematis. upper ruined village below Pyi.
✓ Anemone Japonica between 2 ruined villages ...

W' patraun to Tsalimapa. ✓ Roly Wallich. Opp Talundu.
X Luculia Pinceana ½ m above "
✓ Red clematis 2nd clearing beyond 5/6 bridge R bank

21 August. Paro A dreadful day again. We left in heavy rain at 6.0 it continued heavy till 12.0 when we reached Gorena. At 1.0 we got in, to be met by Tasho. Last night after I had been in bed for over 2 hours, the Tongsa Zimpon was announced. We had a cheerful talk for an hour before he left. I thought that politeness itself on both our parts, & said goodbye to him. But just as I was ready, at 515 next morning, to start off, the 2 Zimpons Bhutan delegate rolled up, again we talked for an hour. In Paro, I stayed in the same place, & this time was again offered a bath. I said knowing the house before, that I never let we have one, sat down to tea. Half an hour later the Ha Zimpon said, I'll leave you now to have your bath. Water had been in all the time. Nothing else exciting happened, until it was dark when the mails which had been lost came in. Tasho said he was sending an 'express man' to Kalimpong who would be there in 4 days. So I hurriedly packed up Betty's letters & sent them off. She will get them before going to Calcutta. It was all an awful rush in Paro. I had ample time there, but I was not left alone for more than 10 minutes till Tasho left at 745 pm. Otherwise I could have gone through Betty's letters to see if anything needed an answer or not. Got nothing special on the way, & never see no sign of Saussia superciliosa which Bl. Gioned us from Gorena down. Either it has gone due to fires, or it was grown at Gorena Monastery - cultivated - & something like that.

22nd August. Rymitanga Again wet & misty, but not so bad. Tasho came to breakfast at 515, & my new cook did not excell. He produced an omelette each in a plate each & a spoon each. Nothing else at all. Gradually salt & other things materialised. No milk or sugar. Rather a failure. We left just

after 6·0 am Tasho rode up the first mile. Here one of his men pointed out Codonopsis "aff rincaflora", the one I was looking for when we last passed. It was just now we had been looking, but then it was not in flower, & all mixed up in the herby oak foliage. Now we saw about a hundred plants, all just coming into flower, so it must be about a fortnight later this year. Tasho was much relieved now like this time. He appears to have been talking to Jigme Dorje about various things in the country - hospital at Tongsa, getting the doctors going, & medicine organised etc. I am going to talk to HH about it all, & see if HH will give Tasho the job of organising all medical work now in Bhutan, - also putting the rest houses in order.

23rd August. Isalimape. 5·30 to 10·0. Mist some rain, but just fine all day. It is obvious that there has been exceedingly heavy rain lately. The river is quite different now - it is over the path in 3 - 4 places & much discoloured. This certainly seems the wettest month in Bhutan. I notice all plants here are later than in 1937. P. capitata v crispata is just coming into flower now, & in 37 it was in full flower by 12 August. Cerastostigma also is just becoming a fine sight. The Jimpon met me here, has Brought taken great trouble to make this place better than before. Beds are made curtains hanging (!) & all sorts of improvements. All I'm afraid for fleas & bugs.

24th August. Tahundu Fine most of the day, but misty & damp. There has been terrific rain everywhere lately, & the path is washed away in very many places. We were all in camp by 2·45 or 3, after 5·15 start. The only interesting things were the tight, across the valley here, of 2 patches of each of about 100 Lilium Wallichianum. And I found Meconopsis Ponceana. It is a beautiful bee, with very fine big flowers. Got (red) seed of Streptopus simplex.

News just come in that we can't go to Ritang. The bridge has been washed away. So this very heavy rain has been general. We will have to wait in Wipshang tomorrow, then to a very long & difficult march over a high pass, to Gonte Gompa. From there I know the way, but as far as there seems to be very difficult. The number of marches would be the same, but we lose a day in Wipshang.

25th August. Wangdipotrang Damp misty. A very short march in here, which we reached 7.0. The Dungpa came shortly after, he has stayed for over an hour here. He is very worried about the break in the usual route. Like the pass which he described to us last time as being so many - "dashing about here & there every day", this is causing him great trouble, superstition his given way of late. Letters must be sent to cancel our plans & make others, & his whole staff is brought in to work it all out. As far as one can see it seemed not to be the least bit difficult. It will be a change for us to go a different route each way. Everyone describes the rain as very bad indeed. I suppose Sweden must have had it too.

26th August. Kotakha. 5 am till 1230, coolies 2.0. It is certainly a good stiff climb up to the Nimle La, which I estimate to be about 10-10500', & perhaps 8 miles. Over that the descent is easier & short, to a broad open valley with a good deal of cultivation in it, & some villages. Height here about 9000'. We were lucky & only had 2 hours rain on the march, & no more except showers till late evening. The local headman is very nice. He had built a good hut for me, but as rain came in pretty easily, I gladly got out of it into my tent. The hut had

too many fleas in it, from the bamboo mats supplied by locals. Nothing of interest seen on the way, except we noticed that there are some Lilium nepalense, though not many. Kotakha is about 2½ m beyond the Mule La, on the L bank of the wide valley. This valley here is called the Pausa Chu, & the headman says that lower down it is called the Biamesho Chu, which is marked on the maps.

27th August. Issa in Phobsikha valley. Very heavy rain last night, but it was to a clear sky at last that we woke up, got off at 5 am. It remained fine except for some showers till the evening. This is the first sun we have seen since I left Betty at 1030 on the Harla-Kyn La. The ascent to the Shole La was easy in climb, but the mud was really awful & very difficult to deal with. The pass is about ~~1000~~ 10500-11000' & about 5 m from Kotakha. Descent easy into another broad open valley. Path skirts the top of this, keeping up pretty well. It then climbs easily again to the Tsele La at about m 10. It is again about 11000'. Descent into the Phobsikha valley not very steep, a path comes down half way between Phobsikha & Gonte Gompa. I could not find where we were supposed to go. We had been told Gonte, but coolies insisted in coming here. The local want us to go over the pass N of Gonte, which would mean we could not reach Chendebi tomorrow. I have refused to go that way, have ask to go over another pass, the Chele La to Rukubi. Got very fine seed of Pongocarpum today. No flowers at all.

28th August Chendebi - I left in at 1.0, but Tupden had to stay for one miserable coolie who did not turn up & is very late. He had to change twice, once only 3 miles away, again at Rukubi. The pass, the Chale La, about 12000', was not bad at all, but the path this side is very poor. No news from Thudow, but it seems he has had to send Dawang back to Bumthang with a very bad leg. He is

Kodaikanal 28.

Paro.	21/8.
Cotoneaster 19632	23/8.
Butterflies	24/8
Waughs stony bridge	25/8
? ?	28/8
Leeches	29/8

Seen K. Bentham 5/9

Dufazedum 22

1.	Cotoneaster 19632.	23/8.
2	?	
3	Gentiana 19708	8/9
4	" "	8/9
5	Aconitum sp. 19710	10/9
6	TR " "	10/9
7	Pleurospyne sp 19728	"
8	Gentiana aurosea 19721	"
9	" " " Hamptan,	"
10	" " " in camp	"

Seen 12/9

Seed sent from Longsa on

described as being carried in a dhooly by 4 men. That is very sad. Hudson still miss him very much indeed. A small mail came in last night with letters of up to 6 August from home - very quick - & a note from Betty from Chaya. I heard later that with Damary went Pompoli & Chundru.

29th August. Tasiling Yesterday the path to Chendebi showed signs of wear. There were 6-7 baddies breaks, but today there were 15-20 & some were big affairs. Some have only come down 2-3 days ago. Just before we reached a bridge where sides have been scooped out a bit, a man coaxed with 3 ponies. 2 got across, & the 3rd broke one of the long tree planks & fell through into a chasm below. How the pony squeezed through the breadth of only one plank, I don't know. We helped for over an hour, but could do nothing, & had to leave. I fear the pony will be dead before help we send for here reaches it. I would have ridden over that bridge five minutes later, & certainly would have given way with me on. So I consider myself lucky today. It has just kept fine one more today. I expected a sparkling day because about 1.0 last night there was a thunderstorm & very heavy rain, which came in through the roof & soaked us ah. If there were decent places for tents, I would've dream of occupying these huts. Chendebi & Tasiling huts are, at any rate, clean & bugless. Isalimapeis the filthy place. Heard last night that H.H has gone back to Bumthang, so we will go straight through too.

30th August. Tongsa. A dreadful day of the heaviest rain yet seen. Again the path was washed away in many places. In Tongsa D.C. has said considerable damage had been done by the rain in the last 7-9 days. That was when H.H

was here. We got a few flowers again today, including a rather striking creeper 19664 which I don't ever remember having seen before. Leeches pretty bad. Damang + Co passed through here returned to Bumthang today, I'm told.

31st August. Gyetsa Heavy rain all night, but clearing up soon after we left. Mist round hill the Yuto La, + then pretty clear + bright. Nothing of interest all the way on the way. Here the country looks very pretty indeed, with the patches of bright pink here + there of the buck wheat crops.

1st September. Bumthang. Wet night, but fine fine till we got here when there was quite a lot of sun. I sent a letter to HH to ask if I could come to see him today or tomorrow. He sent round to say he was coming today at 12.0 & he came. We had a pleasant talk, with the ever present difficulty of Urdu + Hindi. He seems in good form, but had again had a giddy fit on the way to Tongsa. I asked him today if he drank much, & he gave the answer Not now. I used to when worried + depressed, but have given it up. He was quite frank about it, & am sure truthful. HH was on his way to have a bathe in some very hot water just beyond Gunchi Monastery which is supposed to be very good for one. Khampas take lot of the water away into Tibet when on pilgrimage from Kham. HH told me that Kapstupa Shape was very safely locked up. He said in Netang. I wonder if he means Neching. He is said to be shut up in a small place where there is little more than room for himself. He also said there was some trouble between the Dz & the Tib. Government. I sincerely think that Kapstupa is at the bottom of it all. What surprises me is that they all seem surprised that Kapstupa should be locked up. A more patently crooked man it would be hard to find. always too nicely spoken. Asa Wangden is coming the day after tomorrow. I'm glad to have tomorrow free a

live a bit to do, with fondos + dry flowers. Damang is here in hospital. He seems better, but I have not yet seen him. I hope he will come tomorrow, & I have asked the doctor to come too, & we will start 4 hourly injections. I have only 10 doses I can give him, & I hope that will do the trick. Lhadun sent a letter with Yunden, & a small press of flowers. He has found every one of the wanted plants - P. umbrathis alba, P. tsaparensis, P tsaparensis alba, P unijlora, Lychnis Wardii P. stramosa & fine forms of Rhododendron. Yunden has marked all the plants too, & I hope will be able to get them all in October. If so, that little trip will have been very worth while.

2nd September. Hail. Mostly fine in the valley, with a heavy shower or two. I for Damang along here this morning. There is no doubt he is better than he was. But I am sure that penicillin must be the thing to give him, as I have 10 injections, we have started at 12 today. He must take a chance after this, as I must go off on 5th. He & Pemphi must go off on 10th at latest to catch Lhadun at Pasum Sepa. If he came for so far, he must join me or go back to Kalimpong by himself. The valley here is very pretty now, with the beautiful pink fields of buckwheat scattered over the valley bottoms, & in places along the sides too. I don't remember noticing this so much before. HH seems to think that he will have some kind of bridge made over the Tang Chu before very long - in concrete he suggests. I do hope so, as it will save us a long chukker again. I have tried to work out how long it will take Pasang & Yunden to get the two primulas on the Tinke La, then to Tsonga & then to collect all plants from Lhadun's area. I think it will take 6 days from Chendebi to Ritang & back to Chendebi, altogether from here 11 days, while we will take 4 to Chendebi & 5 to Ritang. So if we start on 15th we will reach Ritang on 19th, & Pasang must start on 9th to reach Ritang & Chendebi on the 19th.

BW. 13

1.	Houses in Phobsikha village. mix	28/8	
2	View up Bumthang Chu below Swimitang	6/9	
3.	Gentiana sp. 19706	8/9	
4	Aconitum sp. 19710	10/9	
5	" " 19710	"	
6	Pleurospm sp. 19728	"	
7	Gentiana amoena 19721	"	
8	" " " in camp. flrs. open.	11.9.	
9	C.S., Passang Lhamdu. nr Chaekm la.	13/9	
10	Polygonum vaccinifolia 16689.	16/9	
11	Allardia sp. 19716	16/9	
12	[illegible]		

Ludlow F.P. from Narethang.

1.	Incarvillea grandiflora	16722	(red.
2	Rhod. sp.	16752	"
3	Potentilla sp.	16792	-
4	Cushion plant.	16784	-
5	Prim. umbratilis.	16811	-
6	Mec. horridula, all colour forms.		"
7	Prim. wigelura.	17106.	Nagpod
8	Lychnis sp.	17154	(red
9	Mec. horridula. red rose.		"
10	Prim. tsaneisis v. alba.	17140	"
11	" " " "	17140	"
12	" umbratilis v. alba.	17161	"

Kodachrome 29.

Buckwheat fields at Burnthang.	3/9.
Iris bill at Pangetang. Tele.	7/9.
Gentiana 19706	8/9
Aconitum sp. 19710	10/9
Pleurospm sp. 19728	"
Bunkul at Tolepang	"

Sent 12/9.

3 & 4 Sept. Haa Bumthang. I went to HH. each day, & had 3 hours alone the first day & a short visit, when Chioden was present, the second day. HH very easy to talk to & much more to say. He is worried about Paro & the poor servants who are there running the place - or failing to. He intends to stay himself in a month or two's time. Then on to Chamurchi for a month or more. I tried to get him to say he would go on to Kalimpong, but I don't think he will. He talks now of doing some things for the locals, probably will. I fear he will be practical & over done. I asked him not to spoil Tasho Dungyel by letting him do nothing & have a dozen servants also, but to give him a definite job of work. I wonder if he will. Tasho will be left in Bumthang Thondu, with his Mother, when HH goes to Paro. Two of Pubo Wangdi's servants returned from Thimphu yesterday. They described Kapsinpa Shapa as being very securely imprisoned, with iron manacles on wrists & legs & a cangue round his neck, & shut up in a closely walled in room, from which there is no normal exit. More reports of road damage come in from near Chendebi & more extensive from the Ha - Chamurchi road area. The rain must certainly have been very very heavy these last 15 days or so. Betty should have reached London on 3rd, all being well. I continued to give ~~[illegible]~~ Darlong penicillin injections, 100,000 units a time till I had given 10 injections. Then I gave him a course of 12 B 760. He is very much better, & should manage to reach London alright.

5th September Shabjetang. Rain almost all day. Left at 6.30 a.m. at 10.0. Nothing of interest, except that the new Cordyceps is common from the mouth of the Dhur river, for quite a long way up the valley. We took 14 tubers & another pressing. There is a

lot of coming & going on this route, perhaps especially just now as HH holds a fair in Bumthang on 7th for seven days. People come from quite a long way away for it. He told me he expected 1000 people at the fair, from every part of Bhutan and also some from Tibet. This is one of the innovations of late years. But it is nothing to what HH plans for the near future, like payment in cash for work done - "after seeing that the work is good" he added. It is a pity that this must be introduced, but I suppose it must. Inevitably it will lead to trouble; when that will be depends on the time money takes to govern everything, as it does elsewhere.

6th September. Shingkhar. Fine most of the day, rain most of the night too. Some difficulty in getting off this morning, due probably to Ngudup's dislike of leaving early. I must say Changchuk is a much pleasanter man to have running one's transport arrangements. We got a little seed, but nearly everything is just not quite ripe yet. Passang & I have to return here in a month's time, & make a hurried collection of the better things. For most of these we would have to come very far south - Shabjetang. We want seed of the following: "Lachashing", Deutzia, Philadelphus, Kushim shing" "Rugo shing", & from further up, the big white Clematis, but this can be had from Bumthang - the Kyikyi La. I took a queer plant out of a small 5' deep lake today. It is nothing to look at, but it is covered, 1/8" all over with a perfectly clear transparent jelly, which has made pressing rather difficult. The jelly at first is not sticky, but later on seems to become more & more so.

It is much cooler up here than in Bumthang, more like May when I came up first.

7th September. Paingtang. Heavy rain in the night, but fine all day today, with much more of a feeling of dryness. We got a few seed on the way up, but again found most things were not ready. In fact we got Primula sinopurpurea in perfect flower on a cliff where no sun reaches. Here I have not yet looked round, except to see Rhod. simsii, seed of which has mostly been thrown: My Saussa here had been dispersed of, but Ngudup ordered another, & it really is rather nice because it keeps the very strong wind off the tent. It blows very strongly all day long here.

8th Sept. Hall. Fine all morning. Rain all afternoon. We only went up the hillside opposite camp to look for seed. Some were over - like the nice little Daphne; but we got about 60 seed in the end. The nice Aster that was everywhere is not to be found - all eaten by yaks. On the other hand we got two Arabis in very ripe seed, & the cushion saxifrage, whose seed were nearly all thrown. I could not find a single Anemone rupicola. Rhod. hanidula seed is ripe, but the plant here is so poor that it is not worth taking. P. sinopurpurea is not yet ready, but seemed not take more than 10 days or so in places. As usual the worst enemy to seed collecting is caterpillars or little bugs of some kind. There was not a ripe seed of Salvia to be found, though lots of unripe ones. As soon as they showed any colour at all, a snip got into them. The prettiest flower we got was a fine annual Gentian, with a minute root, but sometimes as many as 25 flowers on the plant, each about ⅝" across. It is worth trying to get seed of, & a white Sax still in pink flower is also worth while. We have a nice ibis bill at the spring beside us. He seems quite happy. I took a cine picture of him last evening. I hope permanent residents at his spring won't frighten him away.

9th Sept. Hoek. I stayed near camp today, + Yumdo + Sasan went off to the N.E. They got some flowers, but seed again were difficult. Seed of P. schlagintweitii was all eaten by bugs. Also a very fine polygonum had no seed – 1 pod in 14 seed out of at least 1000 flowers! I spent some time in making out dates from here to Waitang, Nachung + across to Sur Chu Bum + the Tsu La to Dhuo. Our real movement will start on the 19th + we now have a rest till Oct 7th when we reach Bumthang. Today was the same as the last three days – a lovely morning, + heavy rain in the afternoon. But it does not look like the monsoon now. No doubt we'll get lots more rain, but I don't think it will be the same as before.

10th Sept. Hoek. Fine all day except for a short shower at midday. This was a good day on the whole, though few seeds were got. We left at 5.30 – returned at 5.0pm. At the first dogpa above the forest there is masses of the fine Aconite found yesterday, + we secured lots of roots of it, if not seed. The two sex flowers found were both high altitude ones, from about 15000' or above. Yumdo got a very nice wine coloured Allardia 19716 from the left hand valley after turning R. at Tolepang Tso. I did not see this myself as I was up the right hand valley, as before, + on the same scree found a good many Saxs + of course P. umbrachilis. This is the almost white one. Seed was not ripe though it seemed to be by 1 Oct. Must go again. This scree is at the R hand end of the big cliff facing one, as one leaves the Tolepang Tso. Away beyond this in a cup to the right, there are some more screes, + in one of these we found a fine Gentian 19721. This is G. amoena or near it, but grows only in sand scree, which amoena doesn't. Also it is not blue, but a deep wine or wine purple, rather a nice, + not unusual

Colour. Altogether we got 17 things in the press, & are now so full up that we can't go out for a day or two. There won't be many more flowers now. I have worked out our programme fully now, till we reach Ha.

To Wantang 19th
Halt - 20 - 23 4 valleys to be visited here.
To Pangtang 24
Halt .. 25
To Marlung 26
Halt - 27 - 29 4 valleys to be visited here.
Then we divide up

	G.S.	Pasang + Yundrin.
30 Sept.	Pangotang	Namdating
1st Oct.	Tolegang	Dun Chutsen.
2nd "	"	Camp N. of Sin La
3rd "	Amlungnang	Amlungnang
4th "	"	"
5th "	Gorzam	"
6th "	Dhun with Pasang.	Yundrin to Strabjetang
7th "	All back to Bumthang.	
9th -	G.S. Halt.	P+Y to Tongsa via Tunde La.
12th	"	" to Chandebi
15th	GS + Hicks + Co all start from Bumthang.	P+Y onto Marathang. Onto Tso. Thampe La.
19th	All reach Ritang on the same day + thence to	

Sauntegang, Wangdipotang, + so to Ha Dzong on 25th October.

11th September. Halt - Stayed in camp got seeds aired + sorted + put away. Wrote a small mail + packed it up ready to go tomorrow morning. There is not

very much more than we can do. The later we wait for seed the better. I will send the lads off to Kantanang on 14 - 15 or 16th, & all I feel I must do before we go to Waitang is to go to Tokgang again on 14th & the Chachhen La route on 18th - or perhaps 16th. It was just fine or just wet time most of the day. Cold but never heavy rain & never any sun. I fear it is getting more like rain each day. Though. It would be nice to get it over now & have our fine weather from 20th on. We always used to find that the real sparkling weather only started on Oct. 18th - a very depressing thought. That has been true on a good many years to our knowledge, except to high up near the main Range.

12th Sept. Halt. Stayed in camp. The lads went up the valley to the E. beyond the Serkpens hut. Tried to be fine but failed, but still shows signs of the end of the rains, except that we have no Thunderstorms & sparkling weather, which really mean fine weather coming. I wish we could have more sun & clear skies, as these are what ripen seed quickly. At about 1030 a mail arrived from HH. with it Nangye, HH's cook, whom HH insists I must keep with me. I don't want him at all, & would very much rather just have the man I have. But after arranging to return him at once, I agreed to keep him. He has been sent with full rations & even tents, & I fear HH would only be worried, or annoyed, if I sent him back. It is only two weeks away now. With the mail came many letters from TBgye & 2 from Betty with news of the fine X rays, which show the arm broken in 2 places, but well mended, it seems. TBgye's latest news was that Betty had reached Calcutta safely on 26th afternoon. So far all was to plan. But the second horse we had hoped we might get was also off - it had already been sold. It did not take long to go either. We are advised not to be in a hurry, but with Tgmie &

Taosho coming here with us, we dare want to wait. The only flower today was a very fine Aconite again - a small one with a single very big flower, really very beautiful. Ludlow got this in the Nanga Chu valley about 5 weeks ago, but here it is only just in full flower. So seed will be impossible I fear, now our hope is to take roots when we return from Waitang. Time is getting on now, & many things are not nearly ripe. It is v. worrying, but I can't change plans now. Had to send off the mail today, but kept it to add a little after the new mail came in. This one came in exactly 15 days from Kalimpong, & that is wonderfully quick.

13th September. Hail. We had the heaviest rain of the trip last night, & hoped for thunder, but there was none. However this morning the hills were all covered with snow down to about 14500. That is the first sign of the autumn & the first sign of the end of the rains. We want that, to harden on the seeds, so few of which are yet ripe. Today we went up the Chachen La route, i.e. the route that goes to the Nanda La past two lakes, joining at the lakes the route we followed when we left Marbung for Nandating. I had been up there before once & seen hundreds of N. stoloniw in maximum, but only in bud. So we went for the bulbs & perhaps seed. I lead the lads to the place, & was very surprised to see no sign whatever of even one. However we searched closely in the potentilla which grows everywhere, & then saw the leaves of a few - just 3" or 4" leaves. That was all there was to see. Yaks had eaten everything else. But we got 120 good bulbs, about 40 small bulbs, & at least 1500 bulbils. I accused Yeodon of eating them all. Like all Bhutanese, he eats most things, even the way up eat many berberis berries, podophyllum fruit, Gaultheria & other things too.

	bags per acre	bags	Yield	Yield	Worms
Different varieties of seed	126, 127	128	131	132	134

BT

xx Never collected by L+S. before.
x " " in Bhutan "

Primulas taken 1949

By B.S. J.H. C.S.	18614	P.	denticulata.	1	Common all over the country.
	18644	P.	bracteosa.	2	Also common on Pip La: Juli: above Shambling:
	18669	P.	~~mollis~~ filipes?	3xx	
	18673	P.	gracilipes	4	v. common near Tomtom.
	18675	P.	bracteosa		v. common at Serpang La + beyond Takbung.
	18676	P.	Whitei	5	Not on Rudo La.
	18740	P.	Normaniana	6x	
	18749	P.	filipes	7	
	18806	P.	~~sp. nov~~ mollis	8xx	Much more frequent near Chembi Rongang.
	18809	P.	Normaniana		
	18816	P.	mollis		Common at Shambling. 6500-7500'. v common Dumtchan. +Nashima.
	18846	P	atrodentata ?	9	near atrodentata. Not farina. Like No 3636.
	18894	P.	Hookeri	19x	Just before the small pass 2 m E of Rudo La + more W. After pass Same
	18895	P.	Calderiana	10	
	18896	P.	elongata.	12	Down steep bit. Along a bit to open where much Calderiana, then common.
	18901	P.	Smithiana	13	
	18913	P.	geraniifolia	14.	
	18946	P.	Bamardoana	15	Rhaptse
	18947	P.	Calderiana		Rh over Tsampa.
	18954	P.	Calderiana v. alba		
	18955	P	elongata.		
	18957	P.	atrodentata		Everywhere.
	18976	P.	sikkimensis	16	
	18981	P.	elongata.		
25	19000 A	P.	Calderiana		
	" B	"			
	" C	"			

Primulas from Kanpenang in our garden at 4500' have green leaves like bracteosa. Due to lowalt?
Never seen this rich rose colour before.

Locally quite common.

Eventually found very common, highest altitude about 8500' near Serjong La.

This does not answer the key 'tube 3 times as long as calyx'. It is nothing like it.

Might be elongata, but leaves are pretty rotund.

Not common.
This seemed be the same as 18946, but leaf varies. Probably both are the same thing.

A gathering with very few ripe capsules even some old seed.
These three are all natural hybrids. As one gets above 12500', so white forms of P. Calderiana become more & more common until at 13000 & a little above - just at the top edge of the abies zone - these hybrids become much more common than the true P. Calderiana, which here is deep rose. What are the parents?

P.T.O.

19001.	P. strumosa?	17.	
19009	P. macrophylla	18	Common Kantanang 10/6
19011	P. glabra	19	Both appear very late. " " "
19016.	P. Barnardoana		Wont collect any more of this. Leaves may be
19025	P. sapphirina	20.	Also Kantanang
19030	P. Hilpeana	21.	
19041	P. alpicola	22	Common all over this area. The bracts
19096	P. yarjungensis.	23.	Taken in same valley, the first 500' lower
19098	P. involucrata	24.	to test the validity of these before they are
19099	P. glabra.		includes a few pure white ones, which
19103	P. alpicola v luna		Never has more than one whorl of flowers
19104	P. pusilla.	25	A late flowerer. Just the first in flower
19105	P. bellidifolia	26	Much the same as pusilla. Just appear
19108	P. reticulata	27	I take this to be reticulata. It is most easily distinguis
19128	P. umbratilis	28	
19138	P. schumensis v Hilpeana		
19144	P. Careana	29	
19147	P. sapphirina		
19149	P. pusilla		
19163	P. capitata.	30	Only one seen today.
19167	P. tenuicaulis	31	Very common.
19172	P. Walshii	32	Very few seen, & then appear mostly over.
19175	P. Careana var alba		Seems to be merely a var. of Careana. The on
19177	P. Careana		
50) 19181	P. bellidifolia.		
19189	P. macrophylla v macrocarpa	33.	Mostly over already. The most see of this plant, the
19183	P. umbratilis		

Wilson & Fletcher rather hint that P. nepalensis may be P. strumosa. It may be that some of the specimens here might answer to nepalensis, in which case it would be washed out. My mixtures in 1937, under the numbers L+S 3433 3434 3435 3436 were put down as P. tranieusis + P. strumosa, & 3437 as Calderiana. But I think a better identification would have been P strumosa + P. Calderiana + hybrids. The real tranieusis are smaller plants, with the coarse parts of either P. strumosa or P. Calderiana, which was copied in these hybrids. [was predominant.

P. Calderiana is one, of which two in P. strumosa, two others. I put the same mixture in 1937, where P. strumosa

Perhaps P. strumosa will yet appear in masses, but it is not yet evident.

[Certainly everything I have taken so far can be called the same]

as shewed those of Rotundifolia, or not. In my opinion P. Barnardiana selengata are the same.

enclose the flowers like bud scales before the flowers open.

than the second, which however is much further out. Must one now wait for Prof. Brown

identified. Knowing nothing of such things, I would say they must both be called involucrata,
a pink or white form, & arrangements washed out.
are occasionally seen. Lubsing La.

here. Have seen hundreds of 20 scapes, but only 1 bunch.

now.

now.

unshake from P. alpicola v Cuna which it closely resembles, but the two facts that i) it has no farinaceous eye, a
2) alpicola has a very large bunch of leafy bracts, absent here. alpicola bracts enclose the whole
flowering head when in bud. Also formed Lubsing La. Tsampa.

only Differences seem to be larger calyx & Different habitat. Must get more.

the more worthy of specific rank it seems – much more so than some others.

53. 19185 P. atrodentata — Same as 3636 in 1938.

19186 P. Walshii — Scape up to 1" long bearing 1, 2 or 3 flowers. Nr farinosa.

55 19190 P. bellidifolia.

19195 P. sikkimensis. — A fine form with big flowers, yellow or almost white.

19203 P. muscoides. 34.

19209 P. strumosa. — See no 19000 A B & C taken at Waitangi where a glorious mixture of colours

19211 P. Careana v alba

60. 19212 P. tenuiloba

19213 P. concinna 35. — I think this is correct because of the fairly copious yellow

19216 P. macrophylla v macrocarpa

19226 P. Careana v. alba. — A good collection of 5 sheets, but they are odd plants

19227 P. capitata.

65 19231 P. muscoides. — Mixed blue & white, which grow actually touching each

19244 P. macrophylla v macrocarpa

19245 P. glabra

19251 P. australis v. — Nice fully grown.

19258 P. Careana v — fully grown.

70 19318 P. atrodentata. — With new plants growing on the old flower head.

19325 P. glabra.

19330 P. Waddellii 36. — The colour of this is so distinct, that it cannot be confused with P.

19332 P. australis. — I have never seen so much on this cliff. The soil is very poor indeed, & some

19346 P. soldanelloides 37 — I never noticed before the quite different texture & the corolla. Ask for

75 ✓ 19364 P. muscoides. — White form. Here v. common.

19373 P. Waddellii. — Very common indeed here, & in quite big clumps, not singly, as

19378 P. Jonardunii. 38 — Common here, on open steep grass hillsides, not so much

19383 P. Careana. — Much scarcer here than round about Waitangi.

79 19392 P. concinna v. alba. — 80% of P concinna here are white, rem. pink purple, no

occurs. That is 13500'. When the spec was taken is 5 mile up the valley at 15000'. There are no Calderana & there are no hybrids. Between Waihaim there are no strumosa. Inbetween are the mixtures. Note that strumosa has the same bad smell crackly as Calderana.

farina on calyx, pedicels & each of leaves.

from among thousands of the true colour.

Others. The blue flowers are definitely later than the white ones.

tenuiloba. This is pink to deep pink. P. tenuiloba is blue to deep blue violet.

are practically white. It looks as if the Buntingsmere Clun – Trumpet Clun Divide may be the divide of the blue white forms.

explanation.

found before.

on cliffs as in SE Tibet. Many are distinctly pubiculed. This should not be a diagnostic character for P. strigulosa.

mixtures.

80	19395	P. Hesperana	These two are everywhere mixed up, one pronounced
	19396	P. Hesperana	are smaller, one here lower. Probably best to drop P.
	19416	P. capitata.	Almost always in dwarf juniper.
	19420	P. soldanelloides	Given seed P. sapphirina & clearly terrible. Same alt. as Caroana
	19423	P. macrophylla v. macrocarpa.	Never seen so many as here before. There are several
85	19447	P. geranifolia	Common again here.
	19461	P. capitata v crispata. 39.	
	19464	P. subk. v Hesperana.	Are into red tube, but mixed up into more which
	19469	P. pusilla.	Very fine here & bigger than seen elsewhere.
	19574	P. flagellaris	40 at Chendeski Sarò.
90	19606	P. elongata	fruiting spec. No seed yet.
	19610	P Pet?	no flowers.
	19656	P. capitata v crispata	Very late flowering. Barely one yet, even at low
	19684	P. umbrabilis.	Just one flower very late, but then was on a cliff in a
	19712	P. macrophylla v. macrocarpa.	Seed specimen. Seed barely ripe.
95	19746	P. reticulata	Seed — . — — — — —
	19747	P. elongata.	— — Seed ok.
	19749	P. yargongensis.	Mostly red, some white. V common. Still many in flower.
	19750	P. macrophylla	Seed spec.
	19757	P. stramina = 19204.	Seed spec. from same spot.
100.	19766	P. Caroana.	Roots taken.
	19777	P. tenuiloba.	Roots taken. Seed spec.
	19781	P. atrodentata with alt.	" "
	19785	P. sapphirina	Seed spec.
	19788	P. capitata v crispata.	
105	19791	P. flabra.	Seed spec.
	19796	P. geranifolia	" "

the same, whether P. Hopeana or P. sikkimensis, I don't know. At greater altitudes they Hopeana ~~are~~ become ~~all~~ sikkimensis.

hundred plants in a small area of a few square yds.

have no red tube. More white than yellow, but ~~am~~ ample each.

altitudes. This seems also to separate it from P. capitata.
forge where no sun reaches.

(5)

KODAICHANAL.

G.S. I. | Bauhinia No. 1 | 3 sheets 30.3. 31.3. 3.4.
Sachin ch Pin at Byiti Saun
Woolen comin upto Shaungang.

G.S. II.

PRIMULAS. 1949 contd

19804.	Prim. pusilla	Seed spec.
19808	P. sikkimensis v Hopeana	= 1949 in flower.
19811	P. .. .. - ??	~~Hookeriana~~. ~~Seed~~ seed. Same as Ludlow & 21/7.
110. 19812	P. - .. .. -	No Herb spec. Probably same as 19811. Seed taken.
19816	P. capitata v cinerata.	

115

Heights by Hypsometer -

✓	SURELAKHA.	209·7	70°	4·0pm.	Approx 4164′
✓	KINGA RAPDEN	201·8	66°	3·0pm.	5800′
✓	ZANGROPANG	195·9	61	5·0pm.	9150′
✓	TUNLE LA.	189·3	58	9·30am.	12972′
✓	GYECHA	195·4	64.	2·0pm.	9525′
✓	POKPE	191·8	58	1·30pm.	11494′
✓	TAKILA (Tamashu)	201·5	65	4·0pm.	5964′
	KURIZAM	205·2	67	6·0pm.	3850′
	Camp above PANGKAR	195·7	53	1·0pm.	9116′ (Ripla 9600′)
✓	DENGCHUNG.	199·2	63°	- 12·0, noon.	7268′
✓	CHENBI RONGANG.	200·5	60	1·30	6475′
✓	SHAMBLING.	199·8	60°	6·0pm.	6875′
✓	DUNKHAR.	200·9	72°	10·30am.	6401′
	NASHIMA	198·8	75.	11·00	7675′.
✓	SERGONG LA.	194·3	58°	7 30 a.	10,030′.
✓	TAKHUNG.	194·3	58°	1·0p.	10030′ (Tang must be under 9000′)
✓	SHABJETANG.	196·0	62	2·0p.	9110′
✓	SHIMITANG.	193·2	66	11 30 am.	10850′
✓	PANGOTANG.	191·0	62	10·0 am	12064′ -
✓	KANTANANG.	189·3	58	12 30 p.	12862′
✓	WAITANG.	188·4	54.	4·0p.	13395′
✓	MARLUNG.	188·3	55	2·0p.	13480′
	JIUTANG.	190·7	59°	11 30 a	11985′

		Advances before leaving.	For families	
Tsongpen	Rs 55.	100 + 15.	Rs 30	To wife 1st Adv to 1st Oct. Rs 210 paid ✓
Chemtso	35	60 + 10	Rs 15	To brother Thage Lepcha. Dalapchen School
Lhakpa	40	40	Rs 25	- wife Buddimaiya Rai. 1 May. ✓
Passang	35	40 + 10	nil	
Kanden	45	80	Rs 20	brother Passang Sherpa.

Ration allowance at Rs 20/- p head pm.

Advance on 27. 3. Rs 30 = Rs 6/- each

5. 4. 20 . Rs 8/ -

Ngudup joined on 9.4.49 Rs 30/- paid to Rai Pemdorang 4/7/49. Paid.

Yunden -- - 12.5.49. Rs 10/- paid.

Changchub. to be paid fm 9.4.49 Paid up to 5 Sept.

Tupden fm 15.8.49 @ Rs 35. Adv. pd Rs 30/-.

Nawang - 13-9.49.

Ngudup to be pd fm 5.9.49.

3840
0840

307·20
15 360
1 53
324·09
3840
4164