

ZOOLOGICAL RESULTS OF THE INDIAN CHO-OYU EXPEDITION (1958) IN NEPAL

PART 2.—THE COLLECTING STATIONS

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(With 1 Table, 1 Text-fig., and 5 Plates)

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I—INTRODUCTION

The Indian Cho-Oyu Expedition 1958 started from Kathmandu on March 26, 1958, and returned on June 24, 1958, after climbing the top of Cho-Oyu (8,155 metres) on May 15, 1958. The route followed by the expedition is shown in the accompanying map. (Text-fig. 1). The Zoological field work in the expedition consisted of making extensive collections of the fauna in the Solo Khumbu district in the Eastern Nepal Himalayas upto an elevation of 5,500 metres in the Dudh Kosi, Bhote Kosi and Imja Khola Valleys, by myself. Altogether over 2,000 specimens were collected at the altitude between 2,000 — 5,500 metres in the varying habitats like torrential streams, lakes, high meadows, barren-rocks, ablation valleys, snow fields and glaciers. The collection includes many species of fishes, frogs, lizards, snakes, small mammals, insects and spiders.

In the torrential streams of the Dudh Kosi drainage basin up to an elevation of 3,000 metres, 13 species of fish belonging to 12 genera of 4 families were obtained. The fish *Coraglanis kishinonyei* Kimura has been recorded for the first time in the Indian region. Lizards, snakes and frogs were collected under barren rocks and in the marshy areas along the long mountainous paths up to an elevation of 3,000 metres. In altitudes of 3,000 — 5,000 metres in the high solitary Khumbu glaciated moraines, examples of mouse hares, voles, and different species of insects belonging to the families Gryllidae, Nepidae, Meloidae and Coccinellidae were collected in the xerophytic vegetation below rocks and in crevices. Spiders belonging to the genera *Tegenaria*, *Hania*, *Drassodes*, *Phaeocedus* and *Xysticus* were collected in the fissures of rocks and boulders in the ablation valleys near the Nagpala and Khumbu glaciers at 5,500 metres altitude.

A number of photographs were taken of the habitats where the specimens were collected (Plates 8-12).

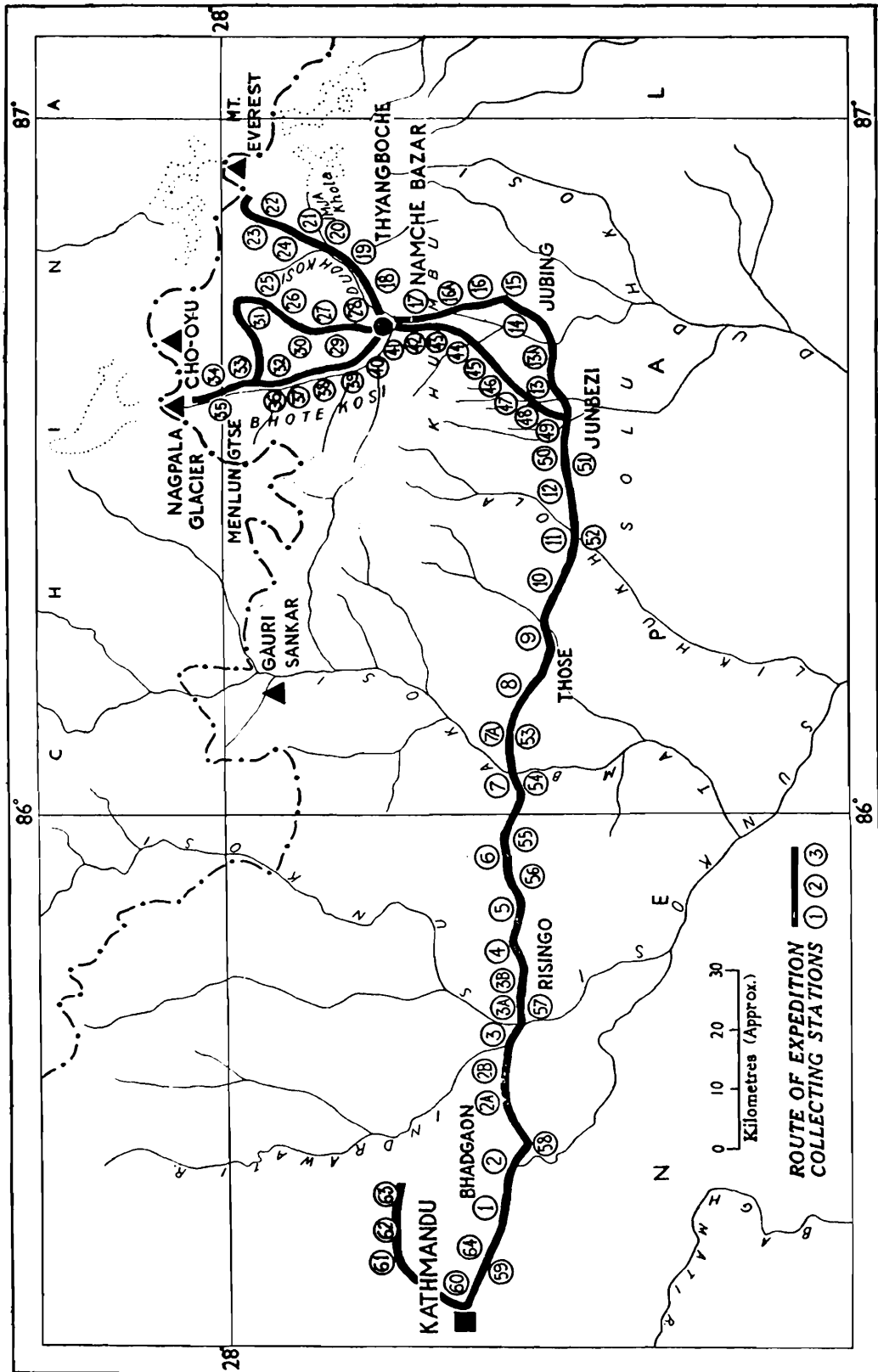
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The list of stations where collections were obtained are detailed in Table 1.

II—LIST OF COLLECTING STATIONS

(TABLE 1)

Collections were made at a total of 64 Collecting Stations which are listed in Table 1. Where possible, the air temperatures recorded and the number of specimens collected at each Station are given.



TEXT-FIG. 1—Map of the Eastern Nepal Himalayas, showing the route of the Indian Cho-Oyu Expedition (1958).

TABLE 1.

List of Collecting Stations, etc., in Nepal where halts were made and collections obtained during the Indian Cho-Oyu Expedition (1958) from March 20 to June 24, 1958.

*Abbreviations :**M.*, altitude in metres.*Ex.*, *exs.*, examples (of zoological specimens).*Lat.*, latitude.*Long.*, longitude*Sta.*, Station Number.

Serial number	Date (1958)	Station number	Locality ; approximate altitude (in metres) ; approximate latitude (N.) and longitude (E.) ; and description	Air temperature recorded during halt (in degrees C.)		Collections made (Nos. approx.)	Remarks
				Minimum	Maximum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	19-3-58 to 25-3-58	Sta. 0	Kathmandu, 1371 m. Lat. 27°44' ; long. 85°20.'	34°	45°	<i>Nil.</i>	
2	26-3-58	Sta. 1	Banepa, 1577 m. Lat. 27°42' ; long 85°31'	38°	52°	<i>Nil.</i>	
3	27-3-58	Sta. 2	Stream 2 miles N. of Panch Khal, 1800 m. Lat. 27°43' ; long. 85°33'.	34°	55°	fishes	
3(a)	27-3-58	Sta. 2A	Small shallow pool at Panch Khal.	34°	55°	frogs	
3(b)	27-3-58	Sta. 2B	At. Alt. 1890 m. Small Pool	34°	55°	frogs	
4	28-3-58	Sta. 3	Stream of Dolaghat, 710 m. Lat. 27°44' ; long. 85°48'.	32°	53°	fishes	
						aquatic insects	

TABLE 1-- *contd.*

List of Collecting Stations, etc., in Nepal where halts were made and collections obtained during the Indian Cho-Oyu Expedition (1958) from March 20 to June 24, 1958.

Serial number	Date (1958)	Station number	Locality ; approximate altitude (in metres) ; approximate latitude (N) and longitude (E.) ; and description	Air temperature recorded during halt (in degrees C.)		Collections made (Nos. approx.)	Remarks
				Minimum	Maximum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
5	28-3-58	Sta. 3A	On way to Phokda village, 700 m. Lat. 27°40' ; long. 85°42'.	32°	53°	insects	
6	29-3-58	Sta. 4	Stream N.E. of Chaubas, 2021 m. Lat. 27°41' ; long. 85°44'.	29°	50°	fishes	
7	30-3-58	Sta. 5	Pool with rocky bed at Rdisingo, 2200 m. Lat. 27°43' ; long. 85°43'.	27°	53°	tadpole	
8	31-3-58	Sta. 6	Stream at Phoktey, 2000 m. Lat. 27°45' ; long. 85°47'.	28°	55°	fishes	
9	1-4-58	Sta. 7	On way to Namdu, 2030 m. Lat. 27°46' ; long. 85°46'.	28°	51°	insects	
10	1-4-58	Sta. 7A	Stream at Namdu, 2000 m. Lat. 27°46' ; long. 85°46'.	27°	54°	fishes	
11	2-4-58	Sta. 8	Fast flowing stream with rocky bed at Sikri, 2100 m. Lat. 27°37' ; long. 86°10'.	25°	60°	fishes	
12	3-4-58	Sta. 9	Stream at Thosey, 2600 m. Lat. 27°38' ; long. 86°17'.	25°	53°	fishes	
13	4-4-58	Sta. 10	Bhandar. 2745 m. Lat. 27°41' ; long. 86°40'.	24°	51°	insects	
14	5-4-58	Sta. 11	Stream, on way to Shate, 2700 m. Lat. 27°40' ; long. 86°30'.	20°	55°	fishes	
15	6-4-58	Sta. 12	Stream N. of Jumbezi, 3000 m. Lat. 27°40' ; long. 86°35'.	20°	48°	fishes	

16	7-4-58	Sta. 13	On way to Taksindu, 3200 m. underneath stone boulders, Lat. 27°41' ; long. 86°37'.	19°	45°	snake, frogs	
17	7-4-58	Sta. 13A	Stream, N. of Takasindu, 3100 m. Lat. 27°42' ; long. 86°39'.	19°	45°	fishes	
18	8-4-58	Sta. 14	On way to Khari Khola, 3108 m. Lat. 27°44' ; long. 86°43'.	20°	38°	frog	
19	9-4-58	Sta. 15	Ghat, 3200 m. Lat. 27°45' ; long. 86°44'	19°	40°	fishes	
20	10-4-58	Sta. 16	Stream N. of Ghat, 3200 m. Lat. 27°45' ; long. 86°45'.	18°	34°	fishes	
21	10-4-58	Sta. 16B	N. E. of Ghat, 3100 m. Lat. 27°44' ; long. 86°44'.	19°	32°	insects	
22	15-4-58	Sta. 17	From Shrubby vegetation, 3500 m. N. of Namche Bazar, Lat. 27°46' ; long. 86°44'	18°	39°	insects	11-4-58 to 14-5-58 halt at Namche Bazar.
23	16-4-58	Sta. 18	On way to Thyangaboche, 4150 m. from Shrubby vegetation, Lat. 27°41' ; long. 86°46'	19°	35°	insects	Halt at Thyangaboche from 17-4-58 to 19-4-58.
24	20-4-58	Sta. 19	On way to Pangboche, 4572 underneath stones with vegetations. Lat. 27°42' ; long. 86°47'.	16°	29°	insects	
25	21-4-58	Sta. 20	On way to Thaparma, 4572. Lat. 27°43' ; long. 86°49'.	14°	30°	insects	
26	22-4-58	Sta. 21	On way to Phariiche, 4600 m. Lat. 27°45' ; long. 86°46'.	10°	29°	insects	

TABLE 1.—*contd.*

List of Collecting Stations, etc., in Nepal where halts were made and Collections obtained during the Indian Cho-Oyu Expedition (1958) from March 20 to June 24, 1958.

Serial number	Date (1958)	Station number	Locality ; approximate altitude (in metres) ; approximate latitude (N.) and longitude (E.) ; and description	Air temperature recorded during halt (in degrees C.)		Collections made (Nos. approx.)	Remarks
				Minimum	Maximum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
27	23-4-58	Sta. 22	On way to Lobujeige, 4876 m. Lat. 27°44' ; long. 86°48'	8°	28°	spider	
28	25-4-58	Sta. 23	On way to camp at 4376 m.			spider, insects	
29	24-4-58	Sta. 23A	Gorashan, 5334 m. Lat. 27°49' ; long. 86°45'.	5°	25°	insects spiders mammal	
30	26-4-58	Sta. 24	On way to Labujeje, 4876 m. Lat. 27°50' ; long. 86°50'.	4°	25°		No collections, due to bad weather.
31	27-4-58	Sta. 25	On way to Panjboche, 4500 m. long. 86°49'. Lat. 27°45'.	8°	26°		Ditto.
32	28-4-58	Sta. 26	On way to Thyangaboche, 4260 m. Lat. 27°44' ; long. 86°45'.	10°	29°		Ditto.
33	29-4-58 to 30-4-58	Sta. 27	On way to Phorche, 4300 m. Lat. 27°50' ; long. 86°45'.	10°	25°		Ditto.
34	1-5-58 to 3-5-58	Sta. 28	On way to Namche Bazar, 3810 m. from Shrubby vegetations. Lat. 27°52' ; long. 86°44'.	20°	31°	insects	
35	4-5-58	Sta. 29	On way to Thami, underneath bouldery with shrubby vegetation, 4000 m. Lat. 27°38' ; long. 68°40'.	19°	32°	insects	

36	5-5-58	Sta. 30	On way to Marlung. 4500 m. Lat. 27°50' ; long. 86°40'.	19°	30°	insects	
37	6-5-58	Sta. 31A	On way to Chule, 5000 m. Lat. 28° ; long. 86°36'.	15°	30°	insects	
38	7-5-58, 8-5-58, 10-5-58	Sta. 31B Sta. 32, Sta. 33	Round about Lunak, 5100 m. Lat. 28°25' ; long. 86°34'.	13°	20°	spider an insects	
39	11-5-58	Sta. 34	On way to Lehengo, 5100 m. Lat. 28°10' ; long. 86°40'.	13°	21°	insects	
40	12-5-58	Sta. 35	On way to Mosamba Lake, 4600 m. Lat. 28°20' ; long. 86°42'.	15°	25°	insects	
41	13-5-58 to 14-5-58	Sta. 36 Sta. 36A	On way to Dudh, Pokhari, 5000 m. Lat. 28°10' ; long. 86°45'.	14°	23°	insects	
			Small pool on the N. of Dudh Pokhari, 5000 m. Lat. 28°20' ; long. 86°46'.	14°	25°	Oligochaeta	
42	15-5-58	Sta. 37	On way to Dob, 5000 m. Lat. 27°58' ; long. 86°50'.	14°	25°	insects	
43	16-5-58 to 20-5-58	Sta. 38	Round about Namche Bazar, 3800 m. Lat. 27°48' ; long. 86°43'.	19°	31°	insects	
44	21-5-58	Sta. 39	On way to Puyan, 3350 m. Lat. 27°40' ; long. 86°47'.	19°	32°		No. Collections due to bad weather
45	22-5-58	Sta. 40	Round about Puyan, 3500 m. Lat. 27°40' ; long. 86°47'	20°	30°		Ditto.

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TABLE 1—*contd.*

List of Collecting Stations, etc., in Nepal where halts were made and Collections obtained during the Indian Cho-Oyu Expedition (1958) from March 20 to June 24, 1958.

Serial number	Date (1958)	Station number	Locality ; approximate altitude (in metres) ; approximate latitude (N.) and longitude (E.) ; and description	Air temperature recorded during halt (in degrees C.)		Collection made (Nos. approx.)	Remarks
				Mnimum	Maximum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
46	23-5-58	Sta. 41	} On way to Lukhla, 4870 m. Lat. 27°45' ; long. 86°45'.	20°	32°	insects	
46(a)	24-5-58	Sta. 42					
46(b)	26-5-58	Sta. 43					
47	27-5-58	Sta. 44	On way to Chama, 3000 m. Lat. 27°42' ; long. 86°43'.	20°	39°	insects	
48	28-5-58	Sta. 45	On way to Tata, 4400 m. Lat. 27°41' ; long. 86°40'.	19°	34°	insects	
49	29-5-58	Sta. 46	On way to Jamnaso, 4876. Lat. 27°42' ; long. 86°29'.	20°	39°	spider. and fishes	
50	30-5-58	Sta. 47	On way to Thanja, 3600 m. Lat. 27°48' ; long. 86°35'.	25°	40°	insects	
51	1-6-58	Sta. 48	On way to Jumbezi, 2700 m. Lat. 27°40' ; long. 86°35'.	35°	45°	insects and fishes	
52	1-6-58	Sta. 49	Round about Jumbezi, 2600 m. Lat. 27°40' ; long. 86°35'.	33°	50°	lizard, frog	
53	1-6-58	Sta. 50	At Jumbezi, 2895, stream with rocky bed. Lat. 27°40' ; long. 86°35'.	35°	51°	fishes	
54	2-6-58	Sta. 51	On way to Chinga stream with rocky bed, 2438 m. Lat. 27°38' ; long. 86°39'.	32°	49°	fishes	

55	3-6-58	Sta. 52	On way to Chagmz, stream (fast flowing, rocky bed), 2895 m. Lat. 27°40' ; long. 86°18'.	32°	55°	fishes, frog
56	4-6-58	Sta. 53	Fast flowing stream at Mekchang, 2590 m. Lat. 27°35' ; long. 86°16'.	39°	56°	fishes
57	5-6-58	Sta. 54	Fast flowing stream at Yarshah, 2286 m. Lat. 27°34' ; long. 86°10'.	37°	51°	fishes
58	6-6-58	Sta. 55	Stream with rocky bed, fast flowing at Kerantichap. 1828 m. Lat. 27°38" ; long. 86°2'.	40°	60°	fishes
59	7-6-58	Sta. 56	Stream at Chetra, 24000 m. Lat. 27°40' ; long. 86°.	41°	65°	fishes
60	8-6-58	Sta. 57	Stream at Sangsholi, 2133 m. Lat. 27°38' ; long. 85°48'.	39°	64°	leech and fishes
61	9-6-58	Sta. 57A	Dolaghat, 1066 m. Lat. 27°38' ; long. 85°40'.	37°	60°	No collection. due to bad weather.
62	10-6-58	Sta. 58	Baneppa, 1066 m. Lat. 27°35' ; long. 85°32'.			
63	11-6-58 to 19-6-58	Sta. 59	Kathmandu, 1371 m. Lat. 27°40' ; long. 85°20'.	38°	52°	fishes
64	20-6-58	Sta. 60	Baghmati River, Kathmandu Valley, 1370 m. Lat. 27°45' ; long. 85°30'.	38°	65°	fishes
65	21-6-58	Sta. 61	Stream near Nilkanth, alt. 1524 m. Kathmandu Valley. Lat. 27°45' ; long. 85°15'.	38°	68°	fishes

TABLE 1—concl.

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Serial number	Date (1958)	Station number	Locality ; approximate altitude (in metres) ; approximate latitude (N.) and longitude (E.); and description	Air temperature recorded during halt (in degrees C)		Collection made (Nos. approx.)	Remarks
				Minimum	Maximum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
66	22-6-58	Sta. 62	Stream near Soumbhunath, 1370 m. Kathmandu Valley. Lat. 27°35' ; long. 85°15'.	35°	69°	fishes	
67	23-6-58	Sta. 63	Stream near Thankot., 1800 m. Kathmandu Vally. Lat. 27°40' ; long. 85°10'.	35°	69°	fishes	
68	24-6-58	Sta. 64.	Stream near Kirtipur , 1981 m. Kathmandu Valley. Lat. 27°43" ; long. 85°19".	35°	65°	fishes	