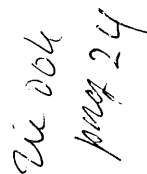


MAP 1 The natural zonation of central Siberia

- 1 Polar desert zone
- 2 Arctic tundra subzone
- 3 Typical tundra subzone
- 4 Shrub/southern tundra subzone
- 5 Forest-tundra zone
- 6 Montane open woodland and montane tundra (Putorana Mountains)
- 7 Extreme northern taiga belt
- 8 Typical northern taiga belt
- 9 Mid taiga subzone
- 10 Southern taiga subzone
- 11 Subtaiga belt
- 12 Forest-steppe zone
- 13 Steppe zone
- 14 Montane taiga (Altai-Sayan Mountains)

In the summer of 1978, a group from our expedition team investigated the shrub tundra subzone at the mouth of the Yenisei (Ravkin and Gleich 1981). At present, this region, the southern or shrub tundra subzone, remains the most poorly studied area in Taymyr from an ornithological point of view.



MAP 2 Geographical guide to the ornithological studies of the last 35 years (1956-1990) in Central Siberia. (Numbers refer to the map)

1. Oktyabrskoy Revolutsi Island (Volkov and Pridatko 1992).
2. Bolshhevik Island (Belikov and Randla 1987).
3. Cape Chelyuskin (Chernov *et al.* 1979).
4. Sibiriyakov Island (IAME expedition 1988-1990).
5. Dickson Island and the small town of Dickson (Tomkovich and Vronsky 1988a).
6. Uboynaya River mouth (Tomkovich and Vronsky 1992).
7. Rogozinka River mouth (Vronsky 1987).
8. Lydia and Pyasina River mouths (International IAME expedition 1990-1991).
9. Pyasina River delta (Dorogov and Kokorev 1989).
10. Lower Lenivaya River (Tomkovich and Vronsky 1988).
11. Cape Sterlegova (Tomkovich and Vronsky 1988; International IAME expedition 1990-1991).
12. Knipovich Bay (International IAME expedition 1990-1991).
13. Lake Taymyr and Nizhnyaya Taymyra River mouth (Sdobnikov 1959 and 1959a).
14. Schrenk River mouth (International IAME expedition 1990).
15. Trautetter River mouth (Dorogov and Kokorev 1981).
16. Malakhaytari River (Kozhevnikov 1982 and 1983).
17. Bikada River mouth (Matyushenkov 1979 and 1983; Yakushkin 1983).
18. Pronchishcheva Bay (Chernov 1978 and other pubs.).
19. Pronchishcheva Lake (International IAME expedition 1991).
20. Preobrazheniya Island (International IAME expedition 1991).
21. Yeniseyskoye Lake and Gydan Peninsula (IAME expedition 1989).
22. Golchikha River mouth (IAME expedition 1982).
23. Pura River, middle reaches (Kokorev 1983 and other pubs.).
24. Agapa River, Dudypta River mouth and Keta Lake (Krechmar 1966).
25. Tareya and Binyudta Rivers (Kokorev and Lisenko 1989).
26. Ust'-Tareya (Vinokurov 1971; Yurlov 1982).
27. Gorbitya and Logata Rivers (Pavlov *et al.* 1983).
28. Levinson-Lessing Lake (Chupin 1987 and pers. comm.).
29. Ust'-Logata, Taymyr Reserve (Chupin 1985 and pers. comm.).
30. Cape Rysyukova and Lake Taymyr, Taymyr Reserve (International IAME expedition 1989).
31. Malaya Logata, Taymyr Reserve (Gavrilov 1989; International IAME expedition 1989).
32. Bolshaya Balakhnya River, lower reaches (International IAME expedition 1991).
33. Ary-Mas Reserve, subunit of Taymyr Reserve (Chupin 1987).
34. Novaya River, lower reaches (Volkov 1989).
35. Lukunskaya, Taymyr Reserve (Chupin and Gavrilov unpubl.).
36. Kresty (Rogacheva and Syroechkovski 1969; Volkov 1987).
37. Khatanga (Volkov 1987).
38. Ust'-Port, Karaul, Nosok, and Malaya Kheta at the mouth of the Yenisey (Ravkin and Gleich 1981).
39. Kapchuk and Lama Lakes (Morozov 1984).
40. Nikolskoye, Potapovo, and Ust'-Khatayka (Rogacheva 1965; Rogacheva *et al.* 1983; Syroechkovski and Rogacheva 1961; and other pubs.).
41. Khatayskoye Lake (Syroechkovski 1961).
42. Kheta and Ayan Rivers (Romanov in print).

43. Lake Kutaramakan (Romanov in print).
44. Agata Lake (Volkov pers. comm.; Romanov pers. comm.).
45. Yessey Lake and Chirinda village (IAME expedition 1979; Volkov 1988).
46. Kotuy River, upper reaches, Murukta depression (Volkov 1988).
47. Sovietskiye Lakes and Sovietskaya Rechka (Rogacheva *et al.* 1987).
48. Angutikha (Rogacheva and Vakhrushev 1983; Rogacheva 1965; Syroechkovski and Rogacheva 1965; and other pubs.).
49. Yarovstan and Farkovo on the Turukhan River; Serkovo on the Kureyka River (Syroechkovski and Rogacheva expedition 1962).
50. Kochechum River (Vakhrushev and Vakhrusheva 1987).
51. Tura and the Syverma Plateau (Puzachenko 1968; Volkov 1988).
52. Yuktia and Kislokan on the Nizhnyaya Tunguska River (IAME expedition 1986).
53. Tutonchana River and village (Syroechkovski and Rogacheva expedition 1962).
54. Melnichnoye, Baklanikha, and the Pakulikhha River (Rogacheva and Vakhrushev 1983).
55. Verkhne-Imbatskoye (Rogacheva 1959, 1965, and other pubs.).
56. Lower Yelogy River (Rogacheva 1962).
57. Upper Yelogy River (IAME expedition 1983).
58. Alinskoye, Mirmoye, Podkamennaya Tunguska, and Vorogovo in Yenisey mid taiga (Rogacheva *et al.* 1978; Rogacheva 1959 and 1965; Kozlenko *et al.* 1983; Bursky 1987; Kozlenko 1987; and other pubs.).
59. Sosnovoye and Lebyazhye Lakes and the Birobchana River (IAME expedition 1986).
60. Lower Podkamennaya Tunguska River (IAME expedition 1984).
61. Chamba, Taimba, Tychany and Kuzmovka (Podkamennaya Tunguska River basin) (Syroechkovski 1959).
62. Chunya River basin (IAME expedition 1985).
63. Fomka, Pogodayevo, and Kolmogorovo, Yenisey southern taiga (Bursky and Vakhrushev 1983).
64. Upper Ket' River basin (Moskvitin *et al.* 1977).
65. Lower Angara River, northern region (Gibet *et al.* 1967; Gibet and Artamoshin 1977).
66. Kamenka River basin and Motyino (Syroechkovski *et al.* 1978).
67. Murozhnaya River basin (Vladyshevsky 1975 and 1980; Vladyshevsky and Shaparev 1976).
68. Chadobets River basin (Reimers 1966).
69. Chuna River basin (Ravkin 1974).
70. Kem' River basin (Kim 1959).
71. Poyma River basin (Ravkin *et al.* 1988).
72. Bolshoy Kemchug and the Kozulka plain (Naumov 1960 and other pubs.).
73. Stolby Reserve (Krutovskaya 1958; Dulkeyt 1964; Bezborodov 1971; and other pubs.).
74. Minusinsk depression (Kustov 1978, 1981, 1982, and other pubs.).
75. Minusinsk depression (Prokofyev 1987).
76. Sorokaozerki lowland area (Nalobin 1979, 1980, 1987, and other pubs.).
77. Kazyr River basin (Kim 1961 and other pubs.).
78. Southern Minusinsk Depression (Naumov and Kislenko 1974).
79. Sayano-Shushensky Reserve (Sokolov *et al.* 1983; Petrov and Rudkovsky 1985; and other pubs.).
80. Bolshiye Ury River basin (Prokofyev 1988).
81. West Sayan Mountains, high altitudes (Zabelin 1976).

TABLE 6 A gazetteer of the most important areas of ornithological observations in Central Siberia (some locations are given on Map 2).

OBSERVATION AREA	N. LAT.	E. LON.	NO. ON MAP 2
Achinsk	56°20'	90°30'	19
Agapa River mouth	71°30'	89°00'	20
Alinskoye	63°20'	87°30'	24
Angara River, lower reaches	58°10'	94°30'	25
Ary-Mas Reserve,			9 & 10
Taymyr Reserve subunit	72°30'	102°00'	8
Baykit	61°40'	97°00'	15
Bikada River mouth	74°45'	106°00'	49
Boganda river mouth	71°00'	95°40'	49
Bolshaya Balakhnya River,			12
lower reaches	73°30'	107°00'	16
Bolshiye Ury River basin	51°50'	90°30'	53
Chamba	60°25'	102°00'	7
Cape Chelyuskin	77°43'	104°00'	42
Chuna River basin	57°30'	97°00'	40
Chunya River basin	61°20'-61°45'	97°00'-103°00'	25
Dickson Island and settlement	73°30'	80°30'	66
Ekonda	65°40'	104°00'	39
Fomka	60°10'	91°00'	13
Golchikha River mouth	71°50'	83°30'	65
Igarka	67°30'	86°30'	74
Kansk	56°15'	96°00'	11
Karaul	70°00'	83°10'	66
Keta Lake	69°00'	90°00'	66
Ket' River, upper reaches	57°30'-58°00'	88°00'-92°00'	66
Khatanga	72°00'	102°30'	66
Knipovicha Bay	76°10'	98°20'	66
Kolmogorovo	59°25'	91°30'	66
Kozulka Plain	56°20'	91°30'	66
Krasnoyarsk	56°00'	97°00'	66
Lenivaya River, lower reaches	75°16'	89°10'	66
Makovskoye	58°10'	90°45'	66
Maksimkin Yar	58°40'	86°45'	66
Minusinsk	53°40'	91°45'	66
Mirmoye Ecological Station of the USSR Academy of Sciences	62°15'	89°00'	60
Nikolskoye	69°00'	86°00'	42
Nizhnyaya Taymyra River mouth	76°00'	100°00'	14
Norilsk	69°25'	88°10'	40
Nosok	70°10'	82°20'	56
Pakulikha River mouth	64°15'	87°20'	65
Pogodayevo	58°40'	91°00'	73
Poyma River basin	56°15'	97°00'	73

TABLE 6 cont'd
OBSERVATION AREA

	N. LAT.	E. LON.	NO. ON MAP 2
Pronchishcheva Bay	75°35'	113°30'	19
Pronchishcheva Lake	74°30'	113°20'	20
Pura River, lower reaches	73°00'	82°20'	24
Purinskiye Lakes	71°45'	88°30'	25
Pvasina River mouth	74°00'	87°00'	9 & 10
Ragozinka River mouth	72°50'	81°00'	8
Schrenk River mouth	75°30'	99°00'	15
Sovietskiye Lakes	67°20'	84°00'	49
Sovietskaya Rechka	66°45'	83°50'	49
Sterlegova Cape	75°30'	89°00'	12
Trautvetter River mouth	75°25'	100°00'	16
Tura	64°15'	100°30'	53
Turukhansk	65°40'	88°10'	7
Uboynaya River mouth	73°38'	82°00'	42
Ust'-Khanayka	68°15'	86°30'	40
Ust'-Port	69°45'	84°20'	27
Ust'-Tureya	73°15'	90°45'	57
Ust'-Usa	52°10'	92°45'	60
Verkhne-Imbatskoye	63°05'	88°00'	58
Vorogovo	61°00'	89°30'	47
Yanu-tarida River mouth	74°30'	103°00'	
Yeloguy River, lower reaches	62°40'	87°45'	
Yeniseysk	58°30'	92°00'	
Yessey Lake	68°30'	102°30'	

73.30 / 86.31

62.19 / 89.02

62.18 / 89.01

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Cover Photo: Breeding <i>Calidris canutus</i> during snow-storm in the first week of July at Sterlegova / northern coast of Taymyr (Peter Prokosch).	
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