Threatened Birds of Asia:
The BirdLife International Red Data Book

Editors
N. J. COLLAR (Editor-in-chief),
A. V. ANDREEV, S. CHAN, M. J. CROSBY, S. SUBRAMANYA and J. A. TOBIAS

Maps by
RUDYANTO and M. J. CROSBY

Principal compilers and data contributors

BANGLADESH P. Thompson
BHUTAN R. Pradhan; C. Inskipp, T. Inskipp
CAMBODIA Sun Hean; C. M. Poole
CHINA MAINLAND CHINA Zheng Guangmei; Ding Changqing, Gao Wei, Gao Yuren, Li Fulai, Liu Naifa, Ma Zhijun, the late Tan Yaokuang, Wang Qishan, Xu Weishu, Yang Lan, Yu Zhiwei, Zhang Zhengwang. HONG KONG Hong Kong Bird Watching Society (BirdLife Affiliate); H. F. Cheung; F. N. Y. Lock, C. K. W. Ma, Y. T. Yu.
TAIWAN Wild Bird Federation of Taiwan (BirdLife Partner); L. Liu Severinghaus; Chang Chin-lung, Chiang Ming-liang, Fang Woei-horng, Ho Yi-hsian, Hwang Kwang-yin, Lin Wei-yuan, Lin Wen-horn, Lo Hung-ren, Sha Chian-chung, Yau Cheng-teh.
INDONESIA BirdLife International Indonesia Country Programme; Ria Saryanthi; D. Agista, S. van Balen, Y. Cahyadin, R. F. A. Grimmett, F. R. Lambert, M. Poulsen, Rudyanto, I. Setiawan, C. Trainor
JAPAN Wild Bird Society of Japan (BirdLife Partner); Y. Fujimaki; Y. Kanai, H. Morioka, K. Ono, H. Uchida, M. Ueta, N. Yanagisawa
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SOUTH KOREA Lee Woo-shin; Han Sang-hoon, Kim Jin-han, Lee Ki-sup, Park Jin-young
LAOS K. Khounboline; W. J. Duckworth
MALAYSIA Malaysian Nature Society (BirdLife Partner); K. Kumar, G. Noramly, M. J. Kohler
MONGOLIA D. Batdelger; A. Bräunlich, N. Tseveennydag
MYANMAR Khin Ma Ma Thwin
NEPAL Bird Conservation Nepal (BirdLife Affiliate); H. S. Baral; C. Inskipp, T. P. Inskipp
PAKISTAN Ornithological Society of Pakistan (BirdLife Affiliate)
PHILIPPINES Haribon Foundation for Conservation of Natural Resources (BirdLife Partner); N. A. D. Mallari, B. R. Tabaranza, Jr.
SINGAPORE The Nature Society (Singapore) (BirdLife Partner); Lim Kim Seng
SRI LANKA Field Ornithology Group of Sri Lanka (BirdLife Affiliate); S. Kotagama; S. Aryaprema, S. Corea, J. P. G. Jones, U. Fernando, R. Perera, M. Siriwardhane, K. Weerakoon
THAILAND Bird Conservation Society of Thailand (BirdLife Partner); U. Treesucon; R. Jugmongkol, V. Kongthong, P. Poonswad, P. D. Round, S. Supparatvikorn

BORNEAN WREN-BABBLER
Ptilocichla leucogrammica

Critical □ — Endangered □ — Vulnerable ■ A1c; A2c

This species qualifies as Vulnerable because it is restricted to low-lying forest in a region where this habitat-type is being cleared and degraded at such a rate that rapid and continuing population declines are inferred.

DISTRIBUTION
The Bornean Wren-babbler is confined to the island of Borneo, where records (clustering mainly in the top third of the island) come from Malaysia, Brunei and Indonesia as follows:

■ MALAYSIA ■ Sabah Kabil-Sepilok Forest Reserve, March 1984 (Smith 1984), May 1987 (Lomosse and Lomosse 1987); Betotan (Garinono), near Sandakan, July/August 1927 (Chasen and Kloss 1930), un dated (Sheldon et al. in press); Sandakan at the Oil Palm Research Station, August 1963 (Thompson 1966); Sukau, undated (Smythies and Davison 1999); Klias peninsula, undated (Smythies and Davison 1999); Ulu Tiulon, undated (Sheldon et al. in press); Tabin Wildlife Reserve, undated (MacKinnon et al. 1996, Smythies and Davison 1999); Labau river, October 1982 (Sheldon et al. in press); Silam, undated (Sheldon et al. in press); Danum Valley Conservation Area, July 1986 (Smith 1986), June 1998 (I. Mauro in litt. 1999), including Ulu Segama Forest Reserve and the Bole river, between May 1989 and October 1990 (Lambert 1992); Sapulut, undated (Smythies and Davison 1999); Simatuh, undated (Sheldon et al. in press); Kalabakan Forest Reserve (Sabah Softwoods), May–July 1982 (Sheldon et al. in press); Silam, undated (Sheldon et al. in press); Gunung Magdalena, 50 km north of Tawau, 300 m, June 1956 (two specimens in BMNH); Quoin hill at the Ulu Balung Cocoa Estate, 250 m, July 1963 (Thompson 1966), hence “near Tawau” (in Smythies 1981); Brumas, undated (Sheldon et al. in press);

■ Sarawak Lawas river, May 1896 (male in BMNH); Marudi, Baram, May 1898 (male in BMNH); foot of Gunung Mulu presumably in what is now Gunung Mulu National Park, Baram river, August 1891 (specimen in AMNH) and again, at 300 m, September–December 1893 (Sharpe 1893–1894), and in the park, mid-1970s (Wells et al. 1978; hence Smythies 1981); Kubaan river, Tutoh, 400–600 m, February 1965 (Fogden 1976); Baram, October 1891 (specimen in AMNH); Similajau National Park, September 1995 (Duckworth et al. 1996); Gunung Dulit at foot, August 1891 (specimen in BMNH), 600 m, May 1892 (male in BMNH; also Hose 1893), 900 m, November 1898 (male in BMNH); Gunung Kalulong, “not... at any great height”, c.1890 (Sharpe 1893–1894); Bintulu, c.1875 (Sharpe 1876–1879); Usun Apau (Long Buya) (Plieran), undated (Smythies and Davison 1999); Mukah, undated (Smythies 1957, 1981); Bejalong (Bajalong), April and June 1903 (two males in AMNH); Samunsam Wildlife Sanctuary, undated (MacKenzie 1981, MacKinnon et al. 1996); Penrissen, before 1894 (specimen in BMNH; also Smythies 1981); Batang Ai National Park, 1992 (Meredith 1995); Sadong, undated (Smythies 1957, 1981);

■ BRUNEI Ulu Temburong National Park (see Measures Taken), 500 m, once in late 1978 (Brown 1979);

■ INDONESIA Kalimantan ■ East Kalimantan Kayan Mentarang National Park, undated but in the 1990s (Holmes 1997); Peleben, at the junction of the Kajan and Bahau rivers, mid-July to mid-October 1935 (Stresemann 1938a), this presumably near camp 6, north of Mandurau near the Bulungan (or Kajan) river, January–February 1914 (Voous 1961); Sungai
Blu, upper Mahakkam, November 1896 (male in RMNH; also Finsch 1905), including the Bruny or Brunij river, upper Mahakkam, November 1896 (male in RMNH; also Büttikofer 1899, Finsch 1905); Kutai National Park, “uncommon”, July–September 1974 (Pearson 1975); Central Kalimantan above Muara Joloi at the confluence of the Busang and Murung rivers, 120–500 m, Barito Ulu (Barito river headwaters), July–September 1989 (Dutson et al. 1991, Wilkinson et al. 1991a,b); South Kalimantan Martapura-Pleihari reserve, undated (and unconfirmed) (MacKinnon et al. 1996); West Kalimantan Gunung Palung National Park at

The distribution of Bornean Wren-babbler Ptilocichla leucogrammica: (1) Kabili-Sepilok Forest Reserve; (2) Betotan; (3) Sandakan; (4) Sukau; (5) Klias peninsula; (6) Ulu Tiulon; (7) Tabin Wildlife Reserve; (8) Labau river; (9) Silam; (10) Danum Valley Conservation Area; (11) Sapulut; (12) Simatupang; (13) Kalabakan Forest Reserve; (14) Gunung Magdalena; (15) Quoin hill; (16) Brumas; (17) Lawas river; (18) Marudi; (19) Gunung Mulu National Park; (20) Kubaan river; (21) Baram; (22) Simajuan National Park; (23) Gunung Dulit; (24) Gunung Kululong; (25) Bintulu; (26) Usun Apau; (27) Mukah; (28) Bejalong; (29) Samunsam Wildlife Sanctuary; (30) Penrissen; (31) Batang Ai National Park; (32) Sadong; (33) Ulu Temburong National Park; (34) Kayan Mentarang National Park; (35) Peleben; (36) Sungai Blu; (37) Kutai National Park; (38) Muara Joloi; (39) Gunung Palung National Park; (40) Pontianak.

POPULATION  The species has been called a “rare resident” in Sabah (Gore 1968) and indeed Borneo in general (Smythies 1981), but it is fairly common in Danum Valley (I. Mauro in litt. 1999), an observation confirmed by mist-netting, which shows it to be less rare than had once been thought (Sheldon et al. in press). In the Baram district and around Gunung Dulit, Sarawak, it was “by no means common” in the nineteenth century (Hose 1893). Studies in the 1960s suggested that it is one of a small number of forest birds that “appear to be rare everywhere in Sarawak”, and it was uncommon (defined as “seen only a few times”) in the Tutoh headwaters in early 1965 (Fogden 1976). It is considered “rare” in Gunung Palung National Park, Kalimantan (Laman et al. 1996), and a pair found there in August 1998 could not be relocated (E. Pollard in litt. 2000); in the Barito Ulu region it was present in small numbers in 1989 (Wilkinson et al. 1991a). The distribution of records as indicated by the map suggests that it might occur in slightly higher densities in the northern part of Borneo; but equally the number of older records from that area suggest that it may have undergone the largest declines there.

ECOLOGY  Habitat  The Bornean Wren-babbler—which has the appearance, gait and tonality of call of a Rail-babbler Eupetes macrocerus (Wells et al. 1978; hence Smythies 1981)—is a bird of the floor of lowland primary forest, reaching 600 m on Gunung Dulit (Hose 1893, Finsch 1905, Pearson 1975). It has only been recorded in lowland (not swamp or upland) forest in Gunung Palung (Laman et al. 1996), but was also (and indeed only) found in mature Shorea alba peatswamp forest at Gunung Mulu (Wells et al. 1978; hence Smythies 1981). It is known in Sabah from primary, secondary, upland heath (=150–450 m), recently logged forest and (once) seven-year-old Albizia, ranging from sea-level to 500 m (Sheldon et al. in press; also Mitra and Sheldon 1993); however, it is much rarer in logged than in primary areas (Lambert 1992) and the statement (in Wilkinson et al. 1991a) that it tolerates logged forest is best treated with caution in case, as with Blue-headed Pitta Pitta baudii, logged forest may in fact represent a “sink” habitat for the species, insufficient in quality to provide for self-sustaining populations.

Food  Small insects were in the stomachs of two birds (Finsch 1905). Birds forage on the forest floor and in the herb layer, probing under leaves and among rotting tree falls (Smythies and Davison 1999).

Breeding  Two specimens taken in June, Sabah, had dormant gonads (BMNH label data), but two females taken there in July and August each had an egg in the oviduct (Thompson 1966), and a male also had enlarged gonads in October (Sheldon et al. in press). Territories appear to be held year-round (Smythies and Davison 1999).

THREATS  As with its congener, the Falcated Wren-babbler Ptilocichla falcata (see relevant account), this species is highly sensitive to forest disturbance by logging (Lambert 1992), and of course disappears entirely with lowland forest loss. Deforestation in the Sundaic lowlands—biologically one of the most diverse biomes of the world—has proceeded at catastrophic speed in the past few decades, seriously compromising the future of every one of the uncountable multitude of primary-forest life-forms in the region, including that of this particular species, even inside key protected areas (for an outline of the crisis, see Threats under Crestless Fireback Lophura erythrophthalma). As a Bornean endemic (for others see Threats under Bornean Peacock-pheasant Polyplectron schleiermacheri), this species is all the more at a disadvantage.

MEASURES TAKEN  Although legally protected in Sabah (Smythies and Davison 1999), the only real conservation this species has experienced is through protected areas (in which
category “forest reserves” do not fall). It is known from (Sabah) Danum Valley Conservation Area and Tabin Wildlife Reserve; (Sarawak) Gunung Mulu, Batang Ai and Similajau National Parks and Samunsam Wildlife Sanctuary; (Brunei) Ulu Temburong (Batu Apoi) National Park (see Dawn 1993); and (Kalimantan) Kayan Mentarang, Kutai and Gunung Palung National Parks (see Distribution).

**MEASURES PROPOSED** Urgent concerted survey of and conservation effort for major tracts of extreme lowland primary forest in the Sundaic region is called for in the equivalent section under Crestless Fireback.

The ecology of the Bornean Wren-babbler needs to be clarified through studies of population density, breeding success, feeding patterns, dispersal and survival in a number of carefully evaluated primary and secondary habitats. The results of this work will allow for improved reserve design and habitat management in all future efforts to secure viable populations of the species.