

species are said to have occurred together in Italy. Possibly the other specimens, which were not preserved and may not have been seen well, really belonged to other species also affected by the same storm.

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Range extensions for some Bolivian birds, 3 (Tyrannidae to Passeridae)

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This is the final paper in our 3-part series (Remsen *et al.* 1985, 1986) which documents range extensions on a departmental basis for Bolivian birds. The total number of new departmental records presented in the 3 papers, 397, is an increase of 11% in the total number of such records for Bolivia (data from Remsen & Traylor, in prep.). Records published herein are based primarily on specimens housed at the Carnegie Museum of Natural History (CM), the Field Museum of Natural History (FMNH), the Museum of Zoology, Louisiana State University (LSUMZ), the Los Angeles County Museum (LACM) and the Delaware Museum of Natural History (DMNH). Departamentos are abbreviated throughout: Beni (BE), Chuquisaca (CH), Cochabamba (CO), La Paz (LP), Oruro (OR), Potosí (PO), Santa Cruz (SC) and Tarija (TA). All specimens collected in BE, CO, LP and SC were collected by F., R. or J. Steinbach unless mentioned otherwise. All specimens at the 2 localities in SC west of Comarapa (see below) and all FMNH specimens from CH and TA were collected by Richard Crossin. All LACM specimens were collected by K. E. Stager or S. C. Bromley. All DMNH specimens were collected by C. Gregory Schmitt and Donna Cole Schmitt.

Elevations and provinces are not given for localities listed in Paynter *et al.* (1975) or for the following frequently mentioned localities: Ixiamas, 221 m, Prov. Iturralde (LP); Chipiriri, 300 m, Prov. Chapare (CO); 28 km W

Comarapa, 8400 ft, and 30 km W Comarapa, 8200 ft, Prov. Valle Grande (SC); and 108 km ENE Tarija, 6400 ft, Prov. Mendez (TA). Elevations for some localities in Paynter *et al.* (1975) are listed when these differ from those in the gazetteer or when multiple elevations are given in the gazetteer. Departmental records followed by an asterisk (*) are records for which Meyer de Schauensee (1966) listed the species for that department but for which we were unable to find a previously published record with locality, date, or museum reference.

Remsen *et al.* (1985, 1986) listed many Amazonian species that reach their southern limit in Prov. Ichilo, SC, a region of major zoogeographical significance. We here add to that list the following 19 species recorded herein for the first time from SC: *Hemitriccus zosterops*, *Todirostrum chrysotaphum*, *Terenotriccus erythrus*, *Laniocera hypopyrra*, *Myiozetetes granadensis*, *Piprites chloris*, *Gymnoderus foetidus*, *Cephalopterus ornatus*, *Microcerculus marginatus*, *Cyphorhinus arada*, *Turdus ignobilis*, *Ammodramus aurifrons*, *Arremon taciturnus*, *Saltator maximus*, *Cyanocompsa cyanoides*, *Euphonia minuta*, *Tangara schrankii*, *T. nigrocincta* and *Dacnis flaviventer*.

Remsen *et al.* (1985, 1986) also listed several species of humid montane cloudforest that reach their southern limit at the 2 localities west of Comarapa in SC (see above). Additions to this list recorded herein for the first time for SC are: *Mionectes striaticollis*, *Ochthoeca rufipectoralis*, *Haplospiza rustica*, *Catamblyrhynchus diadema*, *Anisognathus igniventris*, *Tangara vassorii*, *Diglossa cyanea*, *Myioborus melanocephalus* and *Conirostrum ferrugineiventris*. Although many species from humid montane habitats of the eastern slope of the Andes do reach SC west of Comarapa, at Cerro Hosane, or in the Samaipata region, most species that do extend as far south as Bolivia are known only as far south as Prov. Chapare, CO. Such species include several reported for the first time from CO herein and in Remsen *et al.* (1985, 1986): *Odontophorus speciosus*, *Otus ingens*, *Steatornis caripensis*, *Doryfera ludoviciae*, *Asthenes urubambensis*, *Pseudotriccus ruficeps*, *Myiotheretes erythropygius*, *Notiochelidon murina* and *Diglossa lafresnayii*.

Included among the records herein are the first for Bolivia for *Inezia subflava*, *Pseudocolopteryx flaviventris* and *Diuca diuca*.

SPECIES ACCOUNTS

ROUGH-LEGGED TYRANNULET *Phyllomyias burmeisteri*

CH: 16 km N Monteagudo, 5000 ft, 26 Nov 1972 (FMNH 294385).

TAWNY-RUMPED TYRANNULET *Phyllomyias uropygialis*

SC: 30 km W Comarapa, 8200 ft, 23-24 Dec 1972. TA: 67 km E Tarija, 7400 ft, 19 Feb 1973 (all FMNH, 294379-84).

SUIRIRI FLYCATCHER *Suiriri suiriri*

CH: 30 km SE Carandayti, 10 July to 11 Oct 1957 (LACM 35588-98).

YELLOW-BELLIED ELAENIA *Elaenia flavogaster*

SC: Buena Vista, 1909-1938 (CM, 18 specimens, FMNH 62646, 181433-34); Santa Cruz de la Sierra, 10 Sep 1909 (CM 33007-09, 43669); Propiedad Vado Hondo, 6 km S, 10 km E Comarapa, Río Pulquina Valley, 1527 m, 8 Feb 1979, coll. D. C. Schmitt (DMNH 65455).

SLATY ELAENIA *Elaenia strepera*

CO: Duraznillo, 27 Mar 1920 (CM 81091); TA: 80 km S Tarija, 6400-7000 ft, 14 Jan to 14 Feb 1973; 25 km NW Entre Ríos, 5400 ft, 2-6 Jan 1973; 108 km ENE Tarija, 22-25 Feb 1973; 67 km E Tarija, 7400 ft, 18-19 Feb 1973 (all FMNH, 294313-40). Females taken in Jan had either just finished laying or were preparing to lay; one Feb female was incubating, and 2 others had reduced ovaries; a juvenile was taken in Feb, and one male had begun post-nuptial moult. Similarly, specimens taken in the highlands of SC and CH between 2 Nov and 8 Jan were in

breeding condition (Bond & Meyer de Schauensee 1942). Thus, this species breeds in the semi-humid highlands of southern Bolivia and presumably northern Argentina (Zimmer 1941, Traylor 1979). If restricted to such a relatively small breeding range, the consequently small total population size would help to explain why lowland records of this migratory species are so few (e.g. see Zimmer 1941).

MOTTLE-BACKED ELAENIA *Elaenia gigas*

SC: Cerro del Amboró (Río Isamá), 19 Oct 1916 (CM 119361).

LESSER ELAENIA *Elaenia chiriquensis*

SC: Yungas de Samaipata, 16 Jan 1920 (CM 119525); Buena Vista, 11 Sep to 11 Oct 1923 (FMNH 62623-26); Santiago de Chiquitos, 3 Mar to 15 Apr 1973 (FMNH 295410-12).

WHITE-THROATED TYRANNULET *Mecocerculus leucophrys*

TA: 108 km ENE Tarija, 23 Feb 1973; 67 km E Tarija, 7400 ft, 17-19 Feb 1973; 80 km S Tarija, 6400-7000 ft, 15 Jan to 13 Feb 1973 (all FMNH, 294254-80).

WHITE-CRESTED TYRANNULET *Serpophaga subcristata*

CH: 30 km SE Carandayti, 7 July to 28 Aug 1957 (LACM 35619, -21, -23).

PALE-TIPPED TYRANNULET *Inezia subflava*

BE: Robert S. Ridgely discovered a specimen at the American Museum of Natural History (#792121) from Río Itenez, 30 Aug 1964, coll. Juan Cuello. This is the first record for Bolivia.

SUBTROPICAL DORADITO *Pseudocolopteryx acutipennis*

SC: Buena Vista, 5 Dec 1947 (LSUMZ 37969); Santiago de Chiquitos, Prov. Chiquitos, 700 m, 2 May 1973 (FMNH 296279). TA: 128 km SW Tarija, 8600 ft, 22 Jan 1973 (FMNH 294226).

WARBLING DORADITO *Pseudocolopteryx flaviventris*

SC: Buena Vista, 15 May 1915 (CM 51268). This is the first record for Bolivia and the northernmost locality for this presumed austral migrant.

TAWNY-CROWNED PYGMY-TYRANT *Euscarthmus meloryphus*

SC: Buena Vista, 16 June 1915, 14 Aug 1916 (CM 51374, 78997) and 20 Oct 1947 (LSUMZ 37966); Palmarito, 28 May 1918 (CM 119454); Santa Cruz de la Sierra, 28 July 1909 (CM 43627); Río Quizer on San Ramón-Concepción road, 300 m, Prov. Nuflo de Chavez, 14 June 1984, coll. D. C. Schmitt (LSUMZ 124484); Santiago de Chiquitos, Prov. Chiquitos, 700 m, 2-17 May 1973 (FMNH 296276-78); c. 3 km by road S, c. 3 km W Santiago de Chiquitos, 700 m, Prov. Chiquitos, 20 July 1984, coll. J.V.R. (LSUMZ 124486); 24 km by road N Santiago de Chiquitos, along Río Tucavaca, 175 m, Prov. Chiquitos, 26 July 1984, coll. D. C. Schmitt (LSUMZ 124985).

STREAK-NECKED FLYCATCHER *Mionectes striaticollis*

SC: 28 km W Comarapa, 23-25 Mar 1973 (FMNH 294399-403).

McCONNELL'S FLYCATCHER *Mionectes macconnelli*

CO: Yungas El Palmar, 5 Mar 1940 (FMNH 181569); Huanoi, 2000 m, Prov. Chapare, 23 Sep 1960 (LSUMZ 37987).

SEPIA-CAPPED FLYCATCHER *Leptopogon amaurocephalus*

CH: 16 km N Monteagudo, 5000 ft, 26-28 Nov 1972 (FMNH 294396-97); 70 km SE Padilla, 3600 ft, 22 Nov 1972 (FMNH 294398).

SLATY-CAPPED FLYCATCHER *Leptopogon superciliaris*

SC: Buena Vista, 2 & 10 Sep 1914 (CM 50685, 50736); Cerro Amboró, Mar 1916 (CM 78832); Cerro Hosane, 11 & 26 Aug 1917 (CM 79330, 79997); Samaipata, 11 Mar 1920 (CM 119528). These are the southernmost localities for this species.

RUFIOUS-HEADED PYGMY-TYRANT *Pseudotriccus ruficeps*

CO: Km 104, Prov. Chapare, 3200 m, 6 Sep 1960 and 19 Feb 1962 (LSUMZ 36330, 37962-63).

WHITE-BREASTED PYGMY-TYRANT *Myiornis albiventris*

SC: Cerro Hosane, 12 & 18 Aug 1917 (CM 119380, 79406); Santa Rita, 500 m, Prov. Cercado, 18 Dec 1961 (LSUMZ 36328). These are the southernmost records for this species.

WHITE-EYED TODY-TYRANT *Hemitriccus zosterops*

SC: Buena Vista, 11 Aug 1916 and 25 & 27 Sep 1917 (CM 119354, 79620-21, 79656).

BUFF-THROATED TODY-TYRANT *Hemitriccus ruficularis*

SC: Cerro Hosane, 24 Aug 1917 (CM 79440). This is the southernmost record for this very rare species.

OCHRE-FACED TODY-FLYCATCHER *Todirostrum plumbeiceps*

SC: Bermejo, 2 Nov 1919 (CM 119505).

COMMON TODY-FLYCATCHER *Todirostrum cinereum*

SC: Puerto Suarez, 1 & 10 Dec 1908 and 23 Jan 1909 (CM 31252, 31297, 31420).

GOLDEN-BROWED TODY-FLYCATCHER *Todirostrum chrysocrotaphum*

SC: Buena Vista, 21 Sep 1914 (CM 50875).

LARGE-HEADED FLATBILL *Ramphotrigon megacephala boliviana*

SC: Buena Vista, 9 Oct 1917 (CM 79763); Río Quizer on San Ramón-Concepción road, 300 m, Prov. Nuflo de Chavez, 9-15 June 1984, coll. J.V.R. (LSUMZ 123316, 124454-55). Concerning the latter specimens, all were associated with bamboo thickets, as is typical for this species elsewhere (Parker 1984); this is the southeasternmost locality for this subspecies.

YELLOW-OLIVE FLYCATCHER *Tolmomyias sulphureus*

CH: 16 km N Monteagudo, 5000 ft, 26 Nov 1972 (FMNH 294189-90); 70 km SE Padilla, 3600 ft, 21 Nov 1972 (FMNH 294194-97).

RUDDY-TAILED FLYCATCHER *Terenotriccus erythrurus*

SC: Buena Vista, 12 Aug 1913 and 28 Feb 1915 (CM 44002, 51197); Río Ichilo, 15 Feb 1937 (FMNH 181253-54).

CINNAMON FLYCATCHER *Pyrrhomyias cinnamomea*

TA: 108 km ENE Tarija, 23-27 Feb 1973; 80 km S Tarija, 6400 ft, 15 Jan 1973; 25 km NW Entre Ríos, 5400 ft, 4 Jan 1973 (all FMNH, 294166-79).

EASTERN WOOD-PEWEE *Contopus virens*

BE: Tumi Chucua, 10 Oct 1972, coll. D. L. Pearson (LSUMZ 71960; identification confirmed by A. R. Phillips); Pearson (1975) included this species in his list from Tumi Chucua without comment, although there was no previous record for Bolivia.

WESTERN WOOD-PEWEE *Contopus sordidulus*

CO: Yungas of Cochabamba, 2000 m, 15 Oct 1927 (FMNH 181229); Cochabamba, 2560 m, 10 Apr 1958 (LSUMZ 37989; identified as *C.s. saturatus* by Allan R. Phillips). Identification of the specimens from the lowlands of BE (Puerto Salinas), reported tentatively as this species by Gyldenstolpe (1945), require confirmation. North American *Contopus* from the lowlands of southern Peru are *C. virens* (Traylor 1979, Parker *et al.* 1982).

ALDER FLYCATCHER *Empidonax alnorum*

SC: Buena Vista, 5 Dec 1927 (CM 119996); Río Yapacaní, 20 Oct 1942 (LSUMZ 37937); San Javier, Prov. Ichilo, 20 Feb 1947 (LSUMZ 37936); 72 km ESE Monteagudo, 4000 ft, 5 & 7 Dec 1972 (FMNH 294149-50); 8 km N Gutierrez, 3000 ft, 8 Mar 1973 (FMNH 294151); Santiago de Chiquitos, Prov. Chiquitos, 700 m, 8 Mar 1973 (FMNH 295405). CH: 70 km ESE Padilla, 3600 ft, 18 Nov 1972 (FMNH 294152).

FUSCOUS FLYCATCHER *Cnemotriccus fuscatus*

CO: Chipiriri, 29 Nov 1962 (LSUMZ 36305). CH: 30 km SE Carandayti, 7 Oct 1957 (LACM 35622).

VERMILION FLYCATCHER *Pyrocephalus rubinus*

CH: 3 km S Carandayti, 3 & 11 Aug 1957 (LACM 35614-15); 30 km SE Carandayti, 19 July to 13 Oct 1957 (LACM 35610-13).

RUFous-BREASTED CHAT-TYRANT *Ochthoeca rufipectoralis*

SC: 30 km W Comarapa, 18-24 Dec 1972; 28 km W Comarapa, 23 Mar 1973 (all FMNH, 294026-42).

D'ORBIGNY'S CHAT-TYRANT *Ochthoeca oenanthoides*

CH: 27 km SE Camargo, 9600 ft, 5-6 Feb 1973 (FMNH 294022-24).

RED-RUMPED BUSH-TYRANT *Myiotheretes erythropygius*

CO: Incachaca, 3100 m, 30 July 1940 (FMNH 180938-39, LSUMZ 37863).

BLACK-BILLED SHRIKE-TYRANT *Agriornis montana*

TA: 80 km S Tarija, 6400 ft, 15 Jan 1973 (FMNH 294019).

GREY-BELLIED SHRIKE-TYRANT *Agriornis m. microptera*

CO: Choro, Prov. Ayopaya, 3500 m, 23 June 1953 (LSUMZ 37842).

MOUSE-BROWN SHRIKE-TYRANT *Agriornis murina*

CO: Cochabamba, June 1920 (CM 119591); this is the northernmost locality for this species. CH: 30 km SE Carandayti, 16 July to 7 Aug 1957 (LACM 35602-05).

BLACK-CROWNED MONJITA *Xolmis coronata*

CH: 30 km SE Carandayti, 8 July to 28 Aug 1957 (LACM 35522-25).

WHITE MONJITA *Xolmis irupero*

CH: 30 km SE Carandayti, 7 July to 4 Sep 1957 (LACM 35558-61); C. G. and D. C. Schmitt saw 3-4 near Carandayti on 11-12 May 1979.

SPOT-BILLED GROUND-TYRANT *Muscisaxicola maculirostris*

SC: Comarapa, 2500 m, 13 Oct 1926 (FMNH 180921). OR: J.V.R. saw one at Lago Uru-Uru, 29 Jan 1977; 6 km NE Laguna, foothills of Nevado Sajama, 4200 m, Prov. Sajama, 4 Dec 1984, coll. C. G. Schmitt (LSUMZ 124300).

CINNAMON-BELLIED GROUND-TYRANT *Muscisaxicola capistrata*

CO: Colomi, 22 Aug 1921 (CM 85547) and 10 June 1936 (FMNH 180904): Tiraque, 3297-3500 m, 7-9 Aug 1928 (FMNH 180890-900, CM 120065, LSUMZ 37851): Cuchicancha, 3085 m, 29 July 1937 (FMNH 180901-02); Incachaca, 3100 m, 30 July 1940 (FMNH 180903).

CINEREUS GROUND-TYRANT *Muscisaxicola cinerea*

OR: Oruro, 21 Dec 1921 (CM 119753).

BLACK-FRONTED GROUND-TYRANT *Muscisaxicola frontalis*

LP: 5.4 km by road W hydroelectric dam on Zongo Valley road, Prov. Murillo, 19 July 1981, coll. J.V.R. (LSUMZ 102460); Río Choquekkota Valley, 8 km from jct. Calacoto-Palca road on road to Mina San Francisco, 4025 m, Prov. Murillo, 15 Aug 1981, coll. T. S. Schulenberg (LSUMZ 101480).

ANDEAN RUFOUS-BACKED NEGRITO *Lessonia oreas*

CO: Cochabamba, 2500-2800 m, 1 June to 5 Oct 1920, 1922 (CM, 11 specimens, LSUMZ 37857); Vacas, 3800 m, 12-24 Aug 1937 (FMNH 180929-33).

SOUTHERN RUFOUS-BACKED NEGRITO *Lessonia rufa*

SC: Pulquina, 10 May 1938 (LSUMZ 37859).

CINEREUS TYRANT *Knipolegus striaticeps*

CH: 30 km SE Carandayti, 19 July to 22 Aug 1957 (LACM 35570-77).

HUDSON'S BLACK-TYRANT *Knipolegus hudsoni*

LP: Caranavi, 800 m, 4 Aug 1980, coll. J.V.R. (LSUMZ 96312). SC*: Buena Vista, 24 May to 25 July, 1915-1927 (CM 51312, 79139, 120008, 120022, FMNH 181037); Río Dolores, 17 May 1916 (CM 119343): Pampa de la Isla, 16 May 1918 (CM 80056, 80058); Santa Cruz de la Sierra, 11 July to 16 Sep 1909 (CM 43610, 32856, 43630, 33031); 2.5 km by road N, 8 km by road E Montero, Prov. Santiesteban, 300 m, 8 July 1984, coll. D. C. Schmitt (LSUMZ 125871); 1 km N, 2 km E YPFB Refinery, c. 10 km S Santa Cruz, 425 m, Prov. Ibañez, 18 Aug 1984, coll. J.V.R. (LSUMZ 124321).

SPECTACLED TYRANT *Hymenops perspicillata*

CH: 30 km SE Carandayti, 10 Aug 1957 (LACM 35601).

PIED WATER-TYRANT *Fluvicola pica*

CH: 30 km SE Carandayti, 14 July 1957 (LACM 35555); 35 km SW Carandayti, 17 Aug 1957 (LACM 35556).

CLIFF FLYCATCHER *Hirundinea ferruginea*

TA: 118 km SW Tarija, 8600 ft, 27 Jan 1973 (FMNH 294187).

CINEREUS MOURNER *Laniocera hypopyrra*

SC: Buena Vista, 12 Aug 1913 and 27 Feb 1915 (CM 44001, 51183). This is presumably the basis for the listing of this species for SC by Snow (1979).

LESSER KISKADEE *Pitangus lictor*

SC: Buena Vista, 28 Jan 1926 (CM 119919); 24 km by road north of Santiago de Chiquitos, along Río Tucavaca, 175 m, Prov. Chiquitos, 24-31 July 1984, coll. J.V.R. and C. G. Schmitt (LSUMZ 123204, 124374-75). Except for Narosky's (1983) recent record from Argentina, the Tucavaca record is the only one outside the Amazon drainage south of the Amazon.

RUSTY-MARGINED FLYCATCHER *Myiozetetes cayanensis*

CO: Chipiriri, 30 Nov 1962 (LSUMZ 36279).

GREY-CAPPED FLYCATCHER *Myiozetetes granadensis*

SC: Río Ichilo, 30 Jan 1937 (FMNH 181171).

GOLDEN-CROWNED FLYCATCHER *Myiodynastes chrysocephalus*

SC: Cerro del Amboró, 19 Oct 1916 (CM 94256); Cerro Hosane, 16 Aug 1917 (CM 79365). TA: 25 km NW Entre Rios, 5400 ft, 2 & 6 Jan 1973 (FMNH 294114-17); 108 km ENE Tarija, 23 Feb 1973 (FMNH 294118). These are the southernmost records for this species.

FORK-TAILED FLYCATCHER *Tyrannus savanna*

CH: 30 km SE Carandayti, 21-22 Sep 1957 (LACM 35520-21).

WHITE-NAPED XENOPSARIS *Xenopsaris albinucha*

SC: Buena Vista, 25 May 1915 (CM 51317); Santa Cruz de la Sierra, 13 May 1918 (CM 80055); Palmarito, 22 May 1918 (CM 119450). This species was known from SC only from the sight record of Parker & Rowlett (1984).

GREEN-BACKED BECARD *Pachyrhamphus viridis*

CH: 30 km SE Carandayti, 4 Oct 1957 (LACM 35760).

WING-BARRED MANAKIN *Piprites chloris*

SC: Río Surutú, 10 Aug 1910 (CM 43759); Buena Vista, 5 June 1944 (LSUMZ 37826).

FIERY-CAPPED MANAKIN *Machaeropterus pyrocephalus*

LP: Ixiamas, 11 Apr 1961 (LSUMZ 37832).

BLUE-BACKED MANAKIN *Chiroxiphia pareola*

CH: 16 km N Monteagudo, 5000 ft, 26 Nov 1972 (FMNH 294017). This is the southernmost record for this species in the Andes.

BARE-NECKED FRUIT-CROW *Gymnoderus foetidus*

SC*: Buena Vista, 28 Aug 1914 (CM 50665) and 20 Nov 1947 (LSUMZ 36154: exchanged by G. H. Lowery to Estación Biología de Rancho Grande, Venezuela); Río Surutú, 17 Feb 1923 (CM 119817); Guaitú, Prov. Ichilo, 25 Sep 1943 (LSUMZ 36155).

AMAZONIAN UMBRELLABIRD *Cephalopterus ornatus*

SC: Buena Vista, 13 July 1913 (CM 43995); Río Surutú, 10 July 1948 (LSUMZ 37816).

WHITE-WINGED SWALLOW *Tachycineta albiventer*

LP: Caranavi, 15 July 1963 (LSUMZ 38025).

WHITE-RUMPED SWALLOW *Tachycineta leucorrhoa*

SC: Buena Vista, 1 Aug (LSUMZ 38025) and 10 Oct 1922 (CM 94619-20) and 6 Oct 1923 (FMNH 62531); Warnes, 1 Aug 1922 (CM 94593); Santa Cruz de la Sierra, 25 Sep 1909 (CM 43675); 6 km by road W Santa Rosa de Roca, 450 m Prov. Velasco, 12 July 1984, coll. C. G. Schmitt (LSUMZ 124678).

BROWN-CHESTED MARTIN *Progne tapera*

CO: Capinota, 5 Nov 1937 (FMNH 180747). CH: 30 km SE Carandayti, 11 Oct 1957 (LACM 35828); 6 km SE Carandayti, 29 Sep 1957 (LACM 35825-27).

PURPLE MARTIN *Progne subis*

CO: Cochabamba, 2570 m, 7 Sep 1948 (LSUMZ 38028; *P.s. arboricola*). CH: 30 km SE Carandayti, 9 Oct 1957 (LACM 35823). These are the southernmost records for this species in western South America.

BROWN-BELLIED SWALLOW *Notiochelidon murina cyanodorsalis*

CO: Choro, Prov. Ayopaya, 3500 m, 12 & 18 Sep 1953 (FMNH 217798-801, LSUMZ 38029); Incachaca, 7 Nov 1921 (CM 86005).

TAWNY-HEADED SWALLOW *Alopochelidon fucata*

SC: Buena Vista, 12 Dec 1944 (LSUMZ 38032).

BARN SWALLOW *Hirundo rustica*

CO: Cochabamba, 4 & 9 Nov 1940 (LSUMZ 38033, FMNH 180771).

SEDGE WREN *Cistothorus platensis*

TA: 67 km E Tarija, 8000 ft, 17 Feb 1973 (FMNH 294446-47).

FAWN-BREASTED WREN *Thryothorus guarayanus*

LP: Ixiamas, 16 Apr 1961 (LSUMZ 38049).

NIGHTINGALE WREN *Microcerculus marginatus*

SC: Río Yapacaní, 10 Sep 1914 (CM 50733); Río Surutú, Apr-Oct 1917 (CM, 8 specimens); Cerro Hosane, 21 Aug and 3 Sep 1917 (CM 79423, 79493).

MUSICIAN WREN *Cyphorhinus arada*

SC: Buena Vista, 28 Jan 1926 (FMNH 180855, -57); Río Surutú, May-Nov, 1910-1938 (CM, 8 specimens, FMNH 180856); Río Yapacaní, 21 Sep 1914 (CM 50870) and 22 Dec 1936 (FMNH 180858); Isamá, 25 July 1943 (LSUMZ 36447).

SWAINSON'S THRUSH *Catharus ustulatus*

CO: Pojo, 5 Nov 1926 (CM 120180); Totorá, 2500-2900 m, 5-15 Nov 1926; Tin-Tin, 25 Nov 1937; Cuchicanchi, 10 Nov 1939; Aiquile, 17 Nov 1936; Aduana (Incachaca), 5 Dec 1939 (all FMNH, 181663-73); Villa Tunari, 28 Nov 1960 (LSUMZ 38078).

PALE-EYED THRUSH *Platycichla leucops*

CO: Incachaca, 23 Aug 1921 (CM 119689).

GLOSSY-BLACK THRUSH *Turdus serranus*

SC: 30 km W Comarapa, 19-24 Dec 1972 (FMNH 294516-22).

HAUXWELL'S THRUSH *Turdus hauxwelli*

SC*: Cercado, 450 m, 15 Apr 1937 (FMNH 181597); San Carlos, 9 Oct 1938 (FMNH 181598).

BLACK-BILLED THRUSH *Turdus ignobilis*

CO: Villa Tunari, 23 Nov to 2 Dec 1960 (LSUMZ 36466, 36472, 38085). SC: Buena Vista, 4 Nov 1914 (CM 50964) and 14 Jan 1943 (LSUMZ 38087); Río Surutú, 12 Feb 1928 (CM 120005); Río Palometas, 16 Dec 1917 (CM 119441).

WHITE-NECKED THRUSH *Turdus albicollis contemptus*

CO: Alto Palmar, 3 Dec 1954 (LSUMZ 38079).

YELLOWISH PIPIT *Anthus lutescens*

SC: Buena Vista, most months, 1914-1947 (CM, 10 specimens, FMNH 181702-03, LSUMZ 38100-01); Nueva Moka, 4 Apr 1938 (FMNH 181700); San Carlos, 22-23 Oct 1938 (CM 125105, FMNH 181701); San Javier, Prov. Ichilo, 20 Feb 1947 (LSUMZ 36479); Santa Cruz de la Sierra, 15 Jan to 22 Sep 1909 (CM 33023, 32847, 33041); Puerto Suarez, 26-27 Jan 1909 (CM 31436, 31439). CH: C. G. and D. C. Schmitt saw 1 at Carandayti on 12 May 1979.

CORRENDERA PIPIT *Anthus correndera*

LP: Mt Illampu, Finca Tacamarca, 4070 m, 11 Aug 1938 (FMNH 183910); Finca Capiri, 12 km W Viacha, 3900 m, Prov. Ingavi, 2-3 July 1980, coll. J.V.R. and S. W. Cardiff (LSUMZ 95462-63, 96642-50). CO: Cochabamba, 2570 m, 15 July 1954 (LSUMZ 38102).

RED-EYED VIREO *Vireo olivaceus chivi*

CH: 30 km SE Carandayti, 19 Oct 1957 (LACM 35872); 16 km N Monteagudo, 5000 ft, 26-27 Nov 1972 (FMNH 294618-19).

GRASSLAND SPARROW *Ammodramus humeralis*

LP: Ixiamas, 10 & 16 Apr 1961 (LSUMZ 36877, 38482).

MOURNING SIERRA-FINCH *Phrygilus fruticeti*

CH: 27 km SE Camargo, 9600 ft, 4-7 Feb 1973 (FMNH 294993-98); 38 km by road S Padcoyo, 3275 m, Prov. Nor Cinti, 13 Nov 1984, coll. C. G. and D. C. Schmitt (LSUMZ 123081, 124873-75).

ASH-BREASTED SIERRA-FINCH *Phrygilus plebejus*

CH: 27 km SE Camargo, 9600 ft, 6-7 Feb 1973. TA: 128 km SW Tarija, 8600 ft, 21-23 Jan 1973 (all FMNH, 294999-5007); 38 km by road S Padcoyo, 3275 m, Prov. Nor Cinti, coll. C. G. and D. C. Schmitt (LSUMZ 123082-83).

BAND-TAILED SIERRA-FINCH *Phrygilus alaudinus*

TA: 80 km S Tarija, 6400 ft, 17 Jan 1973 (FMNH 295008-10).

COMMON DIUCA-FINCH *Diuca diuca*

PO: Oploca, 10,300-11,000 ft, 24 Feb 1938 and 22-29 June 1936, coll. M. A. Carriker (Academy of Natural Sciences 134782-87, -89, -90, -91, -93, -94). These are the first records for Bolivia and the northernmost for this species.

SLATY FINCH *Haplospiza rustica*

SC: 30 km W Comarapa, 23 Dec 1972 (FMNH 295011).

GREY-CRESTED FINCH *Lophospingus griseocristatus*

TA: 128 km W Tarija, 8600 ft, 21-25 Jan 1973 (FMNH 295012-24).

BOLIVIAN WARBLING-FINCH *Poospiza boliviana*

LP: 2.5 km by road S Mecapaca, c. 26 km by road S Calacoto, 3050 m, Prov. Murillo, 17 July 1981, coll. J.V.R. (LSUMZ 102886); Huajchilla, 18 km by road S Calacoto, 3125 m, Prov. Murillo, 21 July 1981, coll. S. M. Lanyon (LSUMZ 101569). These localities are the northernmost for this species; it is doubtful that suitable habitat exists farther north, because these localities are the northernmost known outposts of the arid intermontane, columnar cactus-desert scrub habitat of the Bolivian Andes.

RUSTY-BROWED WARBLING-FINCH *Poospiza erythrophrys*

SC: Comarapa, 11 Oct 1926 (CM 120187). This species was known from SC only from the sight records of Parker & Rowlett (1984).

BLACK-AND-RUFIOUS WARBLING-FINCH *Poospiza nigrorufa*

CO: Pocona, 4 Dec 1926 (FMNH 183695-96).

GREENISH YELLOW-FINCH *Sicalis olivascens*

CH: 27 km SE Camargo, 9600 ft, 5-7 Feb 1973 (FMNH 294972-78).

GRASSLAND YELLOW-FINCH *Sicalis luteola*

CO: Arani, 2752 m, 5-28 Dec 1940 (FMNH 183035-37).

GREAT PAMPAS-FINCH *Embernagra platensis*

SC: Comarapa, 2500 m, 15 & 26 Oct 1926 (CM 120172, FMNH 183972-75); 1 km N, 8 km W Comarapa, c. 2450 m, 9 Sep 1984, coll. J. A. Cook (LSUMZ 123447).

BLUE-BLACK GRASSQUIT *Volatinia jacarina*

CO: Chipiriri, 10 Nov 1962 (LSUMZ 38422-23).

DOUBLE-COLLARED SEEDEATER *Sporophila caerulescens*

SC*: Pulquina; San Carlos; Cercado, 450 m; Buena Vista; Río Surutú; Río Yapacani; Palmarito; Santa Rita, 500 m, Prov. Cercado; Angostura, Prov. Florida; various localities in Prov. Chiquitos (various dates; CM, 33 specimens, FMNH 15, LSUMZ 5).

RUDDY-BREASTED SEEDEATER *Sporophila (minuta) hypoxantha*

CO: Chipiriri, 20 Oct 1962 (LSUMZ 38406-07).

DULL-COLOURED SEEDEATER *Sporophila obscura*

CH: 30 km SE Carandayti, 22 July 1957 (LACM 35737).

LESSER SEEDFINCH *Oryzoborus angolensis*

CO: Yungas de Cochabamba, 2000 m, 20 & 24 Oct 1927 (FMNH 182902,-04, CM 120450).

PECTORAL SPARROW *Arremon taciturnus*

SC: Río Surutú, 9 Aug 1910, 12 Oct 1917 and 4 May 1919 (CM 43757, 79796, 80618-19); Río Yapacani, Feb-Sep, 1913-1915 (CM, 9 specimens); Cerro Hosane, 22 Aug 1917 (CM 79430).

FULVOUS-HEADED BRUSH-FINCH *Atlapetes fulviceps*

TA: 80 km S Tarija, 108 km ENE Tarija, and 67 km E Tarija, 6400-7400 ft, 14 Jan to 23 Feb 1973; 25 km NW Entre Ríos, 5400 ft, 2 & 4 Jan 1973 (all FMNH, 295064-84).

MANY-COLOURED CHACO-FINCH *Saltatricula multicolor*

SC: Guanacos, 26 Sep 1915 (CM 51543); Buena Vista, 6 Aug 1929 (CM 120552); Santa Elena, 12 & 14 July 1973 (FMNH 296530-31); these are the northernmost localities for this species. CH: 30 km SE Carandayti, 23 July-30 Aug 1957 (LACM 35701-04).

RED-CRESTED FINCH *Coryphospingus cucullatus*

CH: 70 km SE Padilla, 3600 ft, 19-28 Nov 1972 (FMNH 295037-40).

RED-CRESTED CARDINAL *Paroaria coronata*

CH: 30 km SE Carandayti, 22 July to 12 Oct 1957 (LACM 35724-26).

YELLOW-BILLED CARDINAL *Paroaria capitata*

SC: Puerto Suarez, 2-16 Dec 1908 (CM, 5 specimens).

BUFF-THROATED SALTATOR *Saltator maximus*

SC: Buena Vista, 6 June 1910 (CM 38294), 12 June 1938 (FMNH 182733-34) and 10 July 1948 (LSUMZ 36781); Río Yapacani, 16 Jan, 1 Feb and 14 Sep 1914 (CM 44394, 44600, 50793) and 17 Feb 1915 (CM 51141).

GREYISH SALTATOR *Saltator coerulescens*

CO: Villa Tunari, 30 Nov 1960 (LSUMZ 38377).

BLUE-BLACK GROSBEAK *Cyanocompsa cyanoides*

SC: Río Yapacani, 19 Sep 1914, 18-21 Feb 1915 (CM 50829, 51143-45); Río Surutú, 28 Sep, 8-10 Oct and 16 Nov 1917 (CM 79682, 79722, 79778, 119435) and 15 Aug 1938 (FMNH 182805); Buena Vista, 18 May 1944 (LSUMZ 38392); San Carlos, 6 Oct 1938 (CM 125098-99).

PLUSH-CAPPED FINCH *Catamblyrhynchus diadema*

SC: 30 km W Comarapa, 20 & 22 Dec 1972 (FMNH 294903-04).

BLACK-EARED HEMISPINGUS *Hemispingus melanotis*

SC: Yungas de Samaipata, 24 Nov 1919 (CM 119521). This is the southernmost record for this species.

ORANGE-HEADED TANAGER *Thlypopsis sordida*

CH: 70 km SE Padilla, 3600 ft, 17-21 Nov 1972 (FMNH 294819-26).

RUST-AND-YELLOW TANAGER *Thlypopsis ruficeps*

TA: 108 km ENE Tarija, 22-27 Feb 1973 (FMNH 294827-33).

BLACK-GOGGLED TANAGER *Trichothraupis melanops*

CH: 70 km SE Padilla, 3600 ft, 20 Nov 1972; 16 km N Monteagudo, 5000 ft, 24-27 Nov 1972 (FMNH 294811-15). This is the southernmost record in the Bolivian Andes for this species, which is now known from Salta, Argentina (Olrog 1979).

WHITE-WINGED TANAGER *Piranga leucoptera*

SC: Cerro Hosane, 14 & 18 Aug 1917 (CM 79357, 79407). This is the southernmost record for this species.

SCARLET-BELLIED MOUNTAIN-TANAGER *Anisognathus igniventris*

SC: 30 km W Comarapa, 19 & 20 Dec 1972 (FMNH 294773).

FAWN-BREASTED TANAGER *Pipraeidea melanota*

SC: Río Surutú, 8 Aug 1910 (CM 43753); Buena Vista, 30 July 1916 (CM 78964) and 15 Dec 1936 (FMNH 182139); San Carlos, 26 Oct 1938 (FMNH 182140); Cerro Hosane, 6 Aug 1917 (CM 79261, 119374); Comarapa, 23 Sep 1926 (FMNH 182141); 28 km W Comarapa, 8400 ft, 25 Mar 1973 (FMNH 294757); 72 km ESE Monteagudo, 5000 ft, 30 Nov 1972 (FMNH 294758). CH: 16 km N Monteagudo, 5000 ft, 24 & 26 Nov 1972 (FMNH 294759-60).

BLUE-HOODED EUPHONIA *Euphonia musica*

CO: Pocona, 20 Feb 1927 (LSUMZ 38173); Yungas de Cochabamba, 2000 m, 20 July to 15 Dec 1927 (FMNH 182040-44).

BRONZE-GREEN EUPHONIA *Euphonia mesochrysa*

SC: Storer (1970) reported the first specimen for SC. The details of this record are as follows: Cerro Hosane, 11 Aug 1917 (CM 79324).

WHITE-VENTED EUPHONIA *Euphonia minuta*

SC: Río Surutú, 9 Aug and 7 Sep 1910 (CM 38333, 38420) and 27 Sep 1917 (CM 79659); Río Yapacaní, 1 & 19 Sep 1914 (CM 50682, 50837) and 21 Oct 1942 (LSUMZ 38189); Buena Vista, 20 July 1925 (FMNH 182069).

RUFIOUS-BELLIED EUPHONIA *Euphonia rufiventris*

CO: Alto Palmar, 28 Feb 1940 and 5 Dec 1949 (LSUMZ 38172-73); Yungas el Palmar, 5 Mar to 25 May 1940 (FMNH 182111, & 14-16).

GREEN-AND-GOLD TANAGER *Tangara schrankii*

SC*: Storer (1970) reported the first records for SC. The details are as follows: Río Yapacaní, 18 Aug 1913, 30 Aug and 12 Sep 1914 (CM 44010, 50671, 50754-55); Río Surutú, 21 Sep 1917 and 31 Aug 1938 (CM 79548-50, 125093); Buena Vista, 2 July 1916 (CM 78934); San Carlos, 20 Oct 1938 (CM 125104).

SAFFRON-CROWNED TANAGER *Tangara xanthocephala*

SC: Cerro Hosane, 18 Aug 1917 (CM 79397); Samaipata, 8 Mar 1920 (CM 80933). These are the southernmost localities for this species.

BAY-HEADED TANAGER *Tangara gyrola*

SC: Río Yapacaní, 4 & 12 Sep 1914 (CM 50699, 50743); Cerro Hosane, 24 Sep 1917 (CM 79547). The listing for SC by Storer (1970) is presumably based on these specimens, the southernmost for this species.

MASKED TANAGER *Tangara nigrocincta*

SC: Storer (1970) reported the first record for SC. The details are as follows: Río Surutú, 18 Mar 1916, 21 Sep 1917 and 6 Sep 1910 (CM 119339, 79547, 43789).

BLUE-AND-BLACK TANAGER *Tangara vassorii*

SC: 28 km W Comarapa, 21-24 Mar 1973; 30 km W Comarapa, 22 Dec 1972 (FMNH 294761-72).

YELLOW-BELLIED DACNIS *Dacnis flaviventer*

SC: Río Surutú, 6 Aug 1910 (CM 43748). The listing for SC by Storer (1970) is presumably based on this specimen, the southernmost for this species.

GLOSSY FLOWER-PIERCER *Diglossa lafresnayii*

CO: Cerro San Benito, 30 Oct 1921 (CM 119733); Incachaca, 10 Dec 1939 (FMNH 181772) and 15 Jan 1940 (LSUMZ 38152); Km 104, 3200 m, Prov. Chapare, Sep & Feb, 1960 & 1962 (LSUMZ 36619-23, 38150-51).

CARBONATED FLOWER-PIERCER *Diglossa carbonaria*

SC: 30 km W Comarapa, 20-23 Dec 1972 (FMNH 294879-87). This is the southernmost record for this species.

MASKED FLOWER-PIERCER *Diglossa cyanea*

SC: 28 km W Comarapa, 21-22 Mar 1973; 30 km W Comarapa, 19-23 Dec 1972 (all FMNH, 294889-902).

SLATE-THROATED REDSTART *Myioborus miniatus*

SC: Cerro Amboró, 21 Oct 1916 (CM 79036); Cerro Hosane, 11-21 Aug 1917 (CM 79319-22, 79422).

SPECTACLED REDSTART *Myioborus melanocephalus*

SC: 28 km W Comarapa, 22 & 25 Mar 1973 (FMNH 294642-43).

PALE-LEGGED WARBLER *Basileuterus signatus*

TA: 108 km ENE Tarija, 23-27 Feb 1973 (FMNH 294666-79).

WHITE-BROWED CONEBILL *Conirostrum ferrugineiventris*

SC: 30 km W Comarapa, 17-24 Dec 1973 (FMNH 294708-11); 28 km W Comarapa, 21 Mar 1973 (FMNH 294712).

DUSKY-GREEN OROPENDOLA *Psarocolius atrovirens*

SC: Cerro Hosane, 14-31 Aug 1917 (CM 79348, 79469-72); Cerro Amboró, 22-23 Oct 1916 (CM 79049-57, 119364).

GOLDEN-WINGED CACIQUE *Cacicus chrysopterus*

TA: 30 km NW Yacuiba, 2700 ft, 31 Dec 1972 (FMNH 294725-26); 67 km E Tarija, 7400 ft, 17 Feb 1973 (FMNH 294727).

TROUPIAL *Icterus icterus*

CH: 30 km SE Carandayti, 14 July 1957 (LACM 35642).

EPAULET ORIOLE *Icterus cayanensis*

CH: 70 km SE Padilla, 3600 ft, 22-23 Nov 1973 (FMNH 294730-31).

CHESTNUT-CAPPED BLACKBIRD *Agelaius ruficapillus*

CH: 30 km SE Carandayti, 7 Aug 1957 (LACM 35657).

SCARLET-HEADED BLACKBIRD *Amblyramphus holosericeus*

SC: Palmarito, 20 May and 5 June 1918 (CM 80070-03, 119478); 2.5 km by road N, 8 km by road E Montero, 300 m, Prov. Santiesteban, 9 July 1984, coll. C. G. Schmitt (LSUMZ 125555).

BAY-WINGED COWBIRD *Molothrus badius*

SC: (*M. b. bolivianus*) Samaipata, 27 Nov 1919 (CM 80830); 6 km S, 10 km E Comarapa, Río Pulquina Valley, 1527 m, 11 Feb 1979, coll. C. G. and D. C. Schmitt (DMNH 65511-13); 2.5 km N Tambo, Río San Isidro (Río Pulquina) Valley, 1500 m, Prov. Caballero, coll. C. G. and D. C. Schmitt (LSUMZ 125589-600). CH: 27 km SE Camargo, 9600 ft, 4 & 7 Feb 1973 (FMNH 294727-28). SC: (*M. b. badius*) Curiche (on Río Grande c. 12 km ENE Cabezas), 17 Aug 1909 (CM 43645); 8 km N Gutierrez, 3000 ft, 10 Mar 1973 (FMNH 294721); 10 km by road E Gutierrez, Laguna Caucaya, 875 m, Prov. Cordillera, 13 & 19 Feb 1984 (LSUMZ 125601-02). These 2 subspecies are separated by elevation.

SCREAMING COWBIRD *Molothrus rufoaxillaris*

SC: Guanacos, 27 Sep 1915 (CM 51545). This is the northernmost locality known for this species.

GIANT COWBIRD *Scaphidura oryzivora*

LP: Seven were seen by J.V.R. at Caranavi, 800 m, 4 Aug 1980.

BOBOLINK *Dolichonyx oryzivorus*

SC: Buena Vista, 28 Mar 1912 (CM 43936); Río Palometas, 2 Dec 1917 (CM 119440); Valle de Tucabaca, 650 m, 8 & 10 Apr 1973 (FMNH 296411-12); La Colina de Santiago, 3 Apr 1973 (FMNH 296413); Puerto Suarez, 24 Nov 1908 (CM 31284-88, 31327).

YELLOW-BELLIED SISKIN *Carduelis xanthogastra*

CO: Colomi, 21 Aug 1921 (CM 119679).

YELLOW-RUMPED SISKIN *Carduelis uropygialis*

LP: Esperanza, 22 & 24 Oct 1941 (FMNH 182934-35).

HOUSE SPARROW *Passer domesticus*

CO: Cochabamba, 30 Nov 1953 and 8 Jan 1961 (LSUMZ 38322, 36776). SC: Santa Cruz, 5 Jan 1986, coll. Carlos E. Quintela (LSUMZ 127153-155); known previously from SC from the sight records of Parker & Rowlett (1984). This species has been present in southern Bolivia since at least 1936 (Bond & Meyer de Schauensee 1942, Meyer de Schauensee 1966, cf. Serrano & Cabot 1983).

We would also like to add the following to our previous listings (Remsen *et al.* 1986) of Bolivian woodpecker records:

BLACK-BODIED WOODPECKER *Dryocopus schulzi*

Short (1982) reported the first records of this species for Bolivia. The details (from L. L. Short)

are as follows: CH: Monteagudo, 325 m, 13 May 1917 (Mus. Comp. Zool. #86762). TA: Villa Montes, 29-30 Oct and 4 Nov 1936 (Acad. Nat. Sci. Phil. ##143343,-45; Univ. Mich. Mus. Zool. #107537).

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