MARINE ORNITHOLOGY

Journal of Seabird Science and Conservation



Volume 48(2)
October 2020

MARINE ORNITHOLOGY

An International Journal of Seabird Science and Conservation

Published by the Pacific Seabird Group
On behalf of the African, Australasian, Dutch, Japan, and Pacific Seabird Groups
ISSN 1018-3337 (Print)
ISSN 2074-1235 (Online)

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Front cover image: Tītī feather, drawn as part of the Kia Mau Te Tītī Mō Ake Tōnu project, Rakiura Island, New Zealand. Māori use the term tītī for a chick, or more generally for the species Sooty Shearwater *Ardenna grisea*. (Line drawing: Maggie Atkinson, pencil and watercolour on paper.)











VOL. 48 NO. 2

MARINE ORNITHOLOGY ISSN 1018-3337

Contents

CONTRIBUTED PAPERS	
CASTANO, M.V., BIONDI, L.M., ZUMPANO, F., FAVERO, M. & GARCÍA, G.O. Behavioral responses to a novel feeding problem in the Olrog's Gull <i>Larus atlanticus</i>	149
MADDEN, H. & EGGERMONT, E. First evidence of plastic ingestion by Red-billed Tropicbirds <i>Phaethon aethereus</i> from	11/
St. Eustatius, Caribbean Netherlands	157
SETIAWAN, A., IQBAL, M., PORMANSYAH, YUSTIAN, I. & ZULKIFLI, H. Recent records of Little Cormorant	
Microcarbo niger in Sumatra, Indonesia	161
ROLLAND, V., NEPSHINSKY, M., WINDHOFFER, E.D., LIECHTY, J.S., MINOR, A.K. & PIERCE, A.R. Foraging areas and movements of Royal Tern <i>Thalasseus maximus</i> at the Isles Dernieres Barrier Islands Refuge, Louisiana	. 163
WOEHLER, E.J. & HOLZMANN, K.L. Polymelia and polydactyly in a Silver Gull Chroicocephalus novaehollandiae	169
BUITRAGO-ROSAS, D., MEDINA, J.L. & CASTILLO-CABALLERO, P.L. Records of White Tern <i>Gygis alba</i> in Panama and potential connections to El Niño events.	171
LE CORRE, M., MANOURY, M., ORLOWSKI, S., BIGNON, F. & DICQUE, G. Camera trapping reveals cooperative	1,1
breeding in the Red-footed Booby Sula sula.	175
FAYET, A.L., SHANNON, P., LYONS, D.E. & KRESS, S.W. Manx shearwaters <i>Puffinus puffinus</i> breeding in the western	
Atlantic follow a different migration route from their eastern Atlantic conspecifics	179
DIAMOND, A.W., MCNAIR, D.B., ELLIS, J.C., RAIL, JF., WHIDDEN, E.S., KRATTER, A.W., COURCHESNE, S.J.,	
POKRAS, M.A., WILHELM, S.I., KRESS, S.W., FARNSWORTH, A., ILIFF, M.J., JENNINGS, S.H., BROWN, J.D.,	
BALLARD, J.R., SCHWEITZER, S.H., OKONIEWSKI, J.C., GALLEGOS, J.B. & STANTON, J.D. Two	40.
unprecedented auk wrecks in the northwest Atlantic in winter 2012/13	185
QUISPE, R., LERMA, M., LUNA, N., PORTFLITT-TORO, M., SERRATOSA, J. & LUNA-JORQUERA, G. Foraging ranges of Humboldt Penguins <i>Spheniscus humboldti</i> from Tilgo Island: The critical need for protecting a unique marine habitat.	. 205
MARÍN, M., GONZÁLEZ, R. & TRUCCO, S. Population status of the Kermadec Petrel Pterodroma neglecta juana at	
San Ambrosio Island, Chile	. 209
POWERS, K.D., WILEY, D.N., ROBUCK, A.R., OLSON, Z.H., WELCH, L.J., THOMPSON, M.A. & KAUFMAN, L.	215
Spatiotemporal characterization of non-breeding Great Shearwaters <i>Ardenna gravis</i> within their wintering range	. 215
ELMBERG, J., HIRSCHFELD, E., CARDOSO, H. & HESSEL, R. Seabird migration at Cabo Carvoeiro (Peniche,	221
Portugal) in autumn 2015	. 231
FRISWOLD, B., SWINDLE, K., HYRENBACH, D. & PRICE, M.R. Wedge-tailed Shearwater <i>Ardenna pacifica</i> fallout patterns inform targeted management	245
CARVALHO, P.C., MAYNARD, L.D. & DAVOREN, G.K. Responses of sympatric shearwaters to supplemental food	243
under varying natural prey availability on the wintering grounds of coastal Newfoundland, Canada	255
MCFARLANE TRANQUILLA, L., RYDER, J.L., BLIGHT, L.K., O'HARA, P.D. & BERTRAM, D.F. Nightly colony	233
attendance patterns of provisioning Cassin's Auklet <i>Ptychoramphus aleuticus</i> are consistent and synchronous	263
WAUGH, S.M, BARBRAUD, C., DELORD, K., SIMISTER, K.L.J., BAKER, G.B., HEDLEY, G.K., WILSON, KJ.	
& RANDS, D.R.D. Trends in density, abundance, and response to storm damage for Westland Petrels <i>Procellaria</i>	
westlandica, 2007–2019	273
FRERET-MEURER, N.V., ANDREATA, J.V. & ALVES, M.A.S. Avifauna associated with an otter-trawl fishery in a tropical estuary .	283
SHIMABUKURO, U. & TAKAHASHI, A. Seasonal changes in diving and flying activities of Rhinoceros Auklets	
Cerorhinca monocerata throughout the non-breeding period.	289
IQBAL, M., NOOR, Y.R., MULYANA, D., MARTINI, H., HASUDUNGAN, F., FEBRIANTO, I., TIRTANINGTYAS, F.N., SETIAWAN, A., YUSTIAN, I. & ZULKIFLI, H. Number and distribution records of Caspian Tern <i>Hydroprogne</i>	
caspia in Indonesia, with special reference to Sumatra	297
BURGA-DOMÍNGUEZ, C., GONZALES-DELCARPIO, D.D. & ZAVALAGA, C.B. Time-lapse imagery of Peruvian Boobies <i>Sula variegata</i> reveals nest abandonment caused by tick hyperinfestation	. 303
REVIEWS	
ANDERSON, D.W. Early Natural History and Adventure in the Gulf of California (Craveri)	
BUXTON, R.T. ET AL. How to Be an Antiracist (Kendi), The Skin We're In: A Year of Black Resistance and Power (Cole)	314
YOUNG, L. Hawai'i's White Tern: Manu-o-ku, an Urban Seabird (Scott)	317
ANOTHER VOTES AND ANTHROPO	
INSTRUCTIONS TO AUTHORS	319

RECENT RECORDS OF LITTLE CORMORANT MICROCARBO NIGER IN SUMATRA, INDONESIA

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Received 15 February 2020, accepted 30 March 2020

ABSTRACT

SETIAWAN, A., IQBAL, M., PORMANSYAH, YUSTIAN, I. & ZULKIFLI, H. 2020. Recent records of Little Cormorant *Microcarbo niger* in Sumatra, Indonesia. *Marine Ornithology* 48: 161–162.

We summarize observations of the Little Cormorant *Microcarbo niger* in Sumatra from 2016 to 2019. Based on these observations, we suggest that Little Cormorant has become widespread in Sumatra.

Keywords: status update, Little Cormorant, Sumatra

INTRODUCTION

Little Cormorant *Microcarbo niger* is one of four cormorant species that occurs in the Indonesian archipelago (Greater Sundas and Wallacea; Eaton *et al.* 2016). This species is widely distributed throughout the Indian subcontinent, China, and Southeast Asia (Orta 1992, Johnsgard 1993); within the Indonesian archipelago,

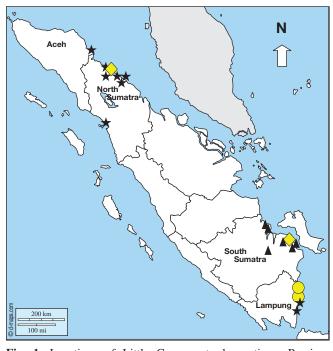


Fig. 1. Locations of Little Cormorant observations. Previous Sumatran records are in yellow, as summarized in Iqbal *et al.* (2013; circles are observation records, diamonds are breeding records). Recent records are in black (triangles are observations reported here, stars are from eBird (2020)).

it has been recorded in Sumatra, Java, and Borneo (Iqbal *et al.* 2013, Eaton *et al.* 2016). Three black-coloured cormorants (Little Cormorant, Little Black Cormorant *Phalacrocorax sulcirostris*, and Great Cormorant *P. carbo*) have been recorded within the Indonesian archipelago. A fourth species, Little Pied Cormorant *M. melanoleucos*, is not considered here due to its striking black-and-white plumage (see Harrison 1983, Johnsgard 1993, Sonobe & Usui 1993, Robson 2011, Eaton *et al.* 2016).

Little Cormorant was previously considered to be a non-breeding species in Sumatra (MacKinnon & Phillipps 1993, Eaton et al. 2016), but breeding has been observed recently (Iqbal et al. 2013). In addition to Iqbal's observations, we provide six more sighting records, which indicates the spread of the species in recent years (Fig. 1). First, on 28-29 November 2016, 10 birds were observed by the first (AS) and second authors (MI) in Sungai Batang village, Air Sugihan subdistrict, Ogan Komering Ilir district; at one point, eight birds roosted in a dead tree (Fig. 2A). Second, on 11 August 2018, three of us (AS, MI, P) saw a single bird roosting in a dead tree in Indrapura village, Muara Sugihan subdistrict, Banyuasin district (Fig. 2B). Third, on 02 September 2018, AS visited Jeruju River, Tulung Selapan subdistrict, Ogan Komering Ilir district, and encountered a Little Cormorant caught in the fishing gear of a local fisherman (Fig. 2C). Fourth, on 24-26 August 2018, a Little Cormorant was regularly observed by P and MI in Bungin River, Banyuasin Dua subdistrict, Musi Banyuasin district. Fifth, on 26 August 2018, a group of 10 Little Cormorants was observed by P in Barong River, Banyuasin Dua subdistrict, Musi Banyuasin district. Sixth, on 29 October 2019, up to 50 Little Cormorants were reported in Kuro Bangsal floodplain, Pampangan subdistrict. All six locations where we sighted Little Cormorants were on the east coast of South Sumatra province (Fig. 1). Our observations add to the seven sightings recorded in northern Sumatra between 2017 and 2020 and two in Lampung province (eBird 2020).

Due to the similarity of Little and Black cormorants by size and morphological characteristics, we were cautious in citing reports of Little Cormorant pending confirmations (van Marle & Voous 1988, Holmes 1996). Little Cormorant is a basically sedentary species but may move as a result of monsoon rainfall patterns and changing water levels (Johnsgard 1993). This species probably occupies freshwater lowlands, including ponds, rivers, lakes, swamps, and rice fields (Orta 1992). However, most confirmed records in Sumatra have been in estuarine habitats, except a very recent record from the Kuro Bangsal flood plain in October 2019.

Little Cormorant may have been overlooked in the past or it may have expanded its range to Sumatra, particularly from Java or maybe from the Thai-Malay Peninsula, where there are many observations and breeding records. Recent records from Java are listed in eBird (2020). In Malay Peninsula, Little Cormorant is a very rare non-breeding visitor to a few locations at low elevation, from Thailand south to Malaka. For instance, sightings were made in 2007 and 2009 at Sungai Cenang and Pantai Cenang, Pulau Langkawi, Kedah, and a single bird was seen at Bidor (Perak) on 25 January 2007 (Jeyarajasingam & Pearson 2012). However, a rise in Little Cormorant sightings between 2016 and 2020 suggests the possibility of a recent expansion south from Thailand to the Malay Peninsula (eBird 2020). The species has been observed breeding in Tanjung Tualang, Kinta district, Perak, in late 2016 and early 2017 (Yeap Chin Aik, Chan Kai Soon, and Sein Chiong Chiu pers. comm.).

A growing population of birdwatchers and researchers in Sumatra, as well as easier access to birdwatching equipment and field guides, has led to increased communication related to rare and vagrant birds in this region during the last decade (Iqbal *et al.* 2009, Iqbal *et al.* 2010, Imansyah & Iqbal 2015, Putra *et al.* 2018). Our report, at least in part, is a testament to this change. Additional sightings are needed to better



Fig. 2. Little Cormorants in South Sumatra, Indonesia. (A) 29 November 2016 in Batang village; (B) 11 August 2018 in Indrapura village; and (C) an individual caught on 02 September 2018 in Jeruju River. Photos by Muhammad Iqbal [A & B] and Arum Setiawan [C].

establish the status of this species and other waterbirds in Sumatra, to detect population trends and the condition of wetland habitats, and to establish conservation efforts for these species.

ACKNOWLEDGEMENTS

We are very grateful to the editors of *Marine Ornithology* and an anonymous reviewer for comments on an earlier draft. The first author (AS) thanks Sriwijaya University for granting Hibah Kompetisi (competitive grant) to explore wildlife in the Sugihan wetlands in 2018–2019. We thank our friends from Malaysian Nature Society, especially Yeap Chin Aik, Chan Kai Soon, and Sein Chiong Chiu, for sharing their records of Little Cormorant in the Malay Peninsula.

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H Index

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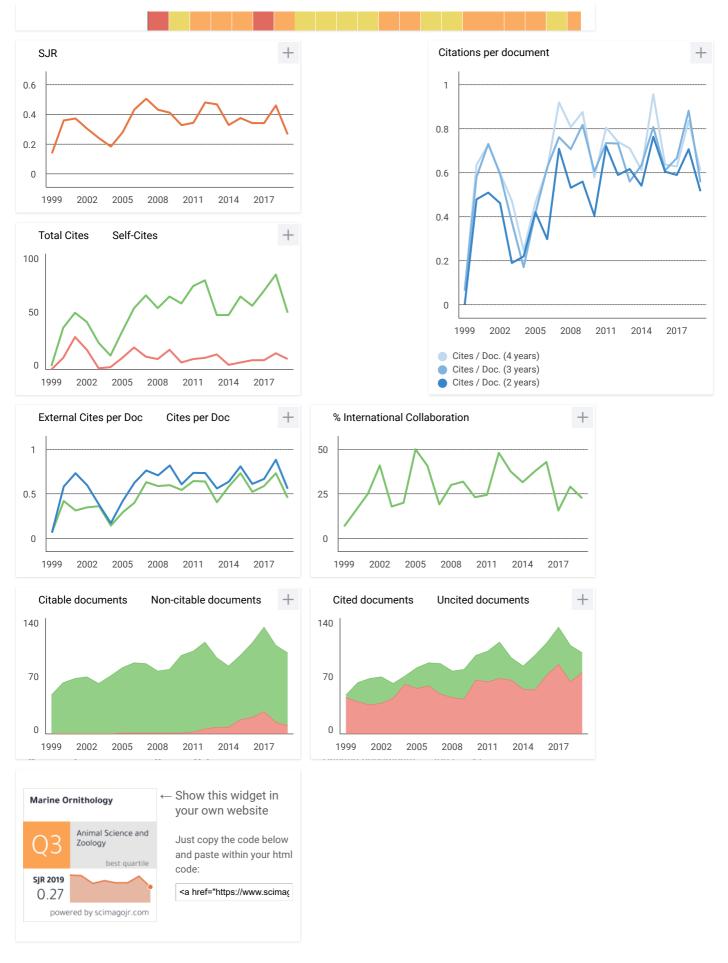
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VOL. 48 NO. 2

MARINE ORNITHOLOGY ISSN 1018-3337

Contents

CONTRIBUTED PAPERS	
CASTANO, M.V., BIONDI, L.M., ZUMPANO, F., FAVERO, M. & GARCÍA, G.O. Behavioral responses to a novel feeding problem in the Olrog's Gull <i>Larus atlanticus</i>	149
MADDEN, H. & EGGERMONT, E. First evidence of plastic ingestion by Red-billed Tropicbirds <i>Phaethon aethereus</i> from	. 11/
St. Eustatius, Caribbean Netherlands	. 157
SETIAWAN, A., IQBAL, M., PORMANSYAH, YUSTIAN, I. & ZULKIFLI, H. Recent records of Little Cormorant	
Microcarbo niger in Sumatra, Indonesia.	. 161
ROLLAND, V., NEPSHINSKY, M., WINDHOFFER, E.D., LIECHTY, J.S., MINOR, A.K. & PIERCE, A.R. Foraging areas and movements of Royal Tern <i>Thalasseus maximus</i> at the Isles Dernieres Barrier Islands Refuge, Louisiana	. 163
WOEHLER, E.J. & HOLZMANN, K.L. Polymelia and polydactyly in a Silver Gull Chroicocephalus novaehollandiae	
BUITRAGO-ROSAS, D., MEDINA, J.L. & CASTILLO-CABALLERO, P.L. Records of White Tern <i>Gygis alba</i> in Panama	
and potential connections to El Niño events	. 171
LE CORRE, M., MANOURY, M., ORLOWSKI, S., BIGNON, F. & DICQUE, G. Camera trapping reveals cooperative	
breeding in the Red-footed Booby Sula sula.	. 175
FAYET, A.L., SHANNON, P., LYONS, D.E. & KRESS, S.W. Manx shearwaters <i>Puffinus puffinus</i> breeding in the western	
Atlantic follow a different migration route from their eastern Atlantic conspecifics	. 179
DIAMOND, A.W., MCNAIR, D.B., ELLIS, J.C., RAIL, JF., WHIDDEN, E.S., KRATTER, A.W., COURCHESNE, S.J.,	
POKRAS, M.A., WILHELM, S.I., KRESS, S.W., FARNSWORTH, A., ILIFF, M.J., JENNINGS, S.H., BROWN, J.D., BALLARD, J.R., SCHWEITZER, S.H., OKONIEWSKI, J.C., GALLEGOS, J.B. & STANTON, J.D. Two	
unprecedented auk wrecks in the northwest Atlantic in winter 2012/13	185
QUISPE, R., LERMA, M., LUNA, N., PORTFLITT-TORO, M., SERRATOSA, J. & LUNA-JORQUERA, G. Foraging	. 103
ranges of Humboldt Penguins <i>Spheniscus humboldti</i> from Tilgo Island: The critical need for protecting a unique marine habitat.	. 205
MARÍN, M., GONZÁLEZ, R. & TRUCCO, S. Population status of the Kermadec Petrel (<i>Pterodroma neglecta juana</i>) at	
San Ambrosio Island, Chile	. 209
POWERS, K.D., WILEY, D.N., ROBUCK, A.R., OLSON, Z.H., WELCH, L.J., THOMPSON, M.A. & KAUFMAN, L.	
Spatiotemporal characterization of non-breeding Great Shearwaters Ardenna gravis within their wintering range	. 215
ELMBERG, J., HIRSCHFELD, E., CARDOSO, H. & HESSEL, R. Seabird migration at Cabo Carvoeiro (Peniche,	
Portugal) in autumn 2015	. 231
FRISWOLD, B., SWINDLE, K., HYRENBACH, D. & PRICE, M.R. Wedge-tailed Shearwater Ardenna pacifica fallout	245
patterns inform targeted management	. 245
CARVALHO, P.C., MAYNARD, L.D. & DAVOREN, G.K. Responses of sympatric shearwaters to supplemental food under varying natural prey availability on the wintering grounds of coastal Newfoundland, Canada	255
MCFARLANE TRANQUILLA, L., RYDER, J.L., BLIGHT, L.K., O'HARA, P.D. & BERTRAM, D.F. Nightly colony	. 233
attendance patterns of provisioning Cassin's Auklet <i>Ptychoramphus aleuticus</i> are consistent and synchronous	. 263
WAUGH, S.M, BARBRAUD, C., DELORD, K., SIMISTER, K.L.J., BAKER, G.B., HEDLEY, G.K., WILSON, KJ.	. 200
& RANDS, D.R.D. Trends in density, abundance, and response to storm damage for Westland Petrels <i>Procellaria</i>	
westlandica, 2007–2019	. 273
FRERET-MEURER, N.V., ANDREATA, J.V. & ALVES, M.A.S. Avifauna associated with an otter-trawl fishery in a tropical estuary	. 283
SHIMABUKURO, U. & TAKAHASHI, A. Seasonal changes in diving and flying activities of Rhinoceros Auklets	
Cerorhinca monocerata throughout the non-breeding period	. 289
IQBAL, M., NOOR, Y.R., MULYANA, D., MARTINI, H., HASUDUNGAN, F., FEBRIANTO, I., TIRTANINGTYAS,	
F.N., SETIAWAN, A., YUSTIAN, I. & ZULKIFLI, H. Number and distribution records of Caspian Tern <i>Hydroprogne</i>	207
caspia in Indonesia, with special reference to Sumatra	. 291
Boobies <i>Sula variegata</i> reveals nest abandonment caused by tick hyperinfestation	303
booties said variegaid reveals lest doubtdonnent edused by tick hypermicistation	. 505
REVIEWS	
ANDERSON, D.W. Early Natural History and Adventure in the Gulf of California (Craveri)	313
BUXTON, R.T. ET AL. How to Be an Antiracist (Kendi), The Skin We're In: A Year of Black Resistance and Power (Cole)	
YOUNG, L. Hawai'i's White Tern: Manu-o-ku, an Urban Seabird (Scott)	
(2200)	/
INSTRUCTIONS TO AUTHORS	. 319

RECENT RECORDS OF LITTLE CORMORANT MICROCARBO NIGER IN SUMATRA, INDONESIA

By Arum Setiawan

RECENT RECORDS OF LITTLE CORMORANT MICROCARBO NIGER IN SUMATRA, INDONESIA

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Received 15 February 2020, accepted 30 March

ABSTRACT

SETIAWAN, A., IQBAL, M., PORMANSYAH, YUSTIAN, I. & ZULKIFLI, H. 2020. Recent records of Little Cormorant *Microcarbo niger* in Sumatra, Indonesia. *Marine Ornithology* 48: 161–162.

We summarize observations of the Little Cormorant *Microcarbo niger* in Sumatra from 2016 to 2019. Based on these observations, we suggest that Little Cormorant has become widespread in Sumatra.

Keywords: status update, Little Cormorant, Sumatra

INTRODUCTION

Little Cormorant *Microcarbo niger* is one of four cormorant species that occurs in the Indonesian archipelago (Greater Sundas and Wallacea; Eaton *et al.* 2016). This species is widely distributed throughout the Indian subcontinent, China, and Southeast Asia (Orta 1992, Johnsgard 1993); within the Indonesian archipelago,

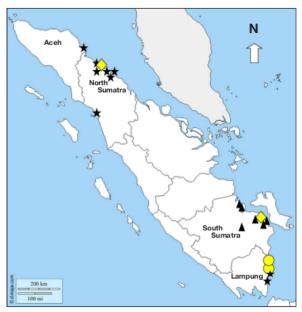


Fig. 1. Locations of Little Cormorant observations. Previous Sumatran records are in yellow, as summarized in Iqbal *et al.* (2013; circles are observation records, diamonds are breeding records). Recent records are in black (triangles are observations reported here, stars are from eBird (2020)).

it has been recorded in Sumatra, Java, and Borneo (Iqbal *et al.* 2013, Eaton *et al.* 2016). Three black-coloured cormorants (Little Cormorant, Little Black Cormorant *Phalacrocorax sulcirostris*, and Great Cormorant *P. carbo*) have been recorded within the Indonesian archipelago. A fourth species, Little Pied Cormorant *M. melanoleucos*, is not considered here due to its striking black-and-white plumage (see Harrison 1983, Johnsgard 1993, Sonobe & Usui 1993, Robson 2011, Eaton *et al.* 2016).

Little Cormorant was previously considered to be a non-breeding species in Sumatra (MacKinnon & Phillipps 1993, Eaton et al. 2016), but breeding has been observed recently (Iqbal et al. 2013). In addition to Iqbal's observations, we provide six more sighting records, which indicates the spread of the species in recent years (Fig. 1). First, on 28-29 November 2016, 10 birds were observed by the first (AS) and second authors (MI) in Sungai Batang village, Air Sugihan subdistrict, Ogan KomeringIlir district; at one point, eight birds roosted in a dead tree (Fig. 2A). Second, on 11 August 2018, three of us (AS, MI, P) saw a single bird roosting in a dead tree in Indrapura village, Muara Sugihan subdistrict, Banyuasin district (Fig. 2B). Third, on 02 September 2018, AS visited Jeruju River, Tulung Selapan subdistrict, Ogan Komering Ilir district, and encountered a Little Cormorant caught in the fishing gear of a local fisherman (Fig. 2C). Fourth, on 24-26 August 2018, a Little Cormorant was regularly observed by P and MI in Bungin River, Banyuasin Dua subdistrict, Musi Banyuasin district. Fifth, on 26 August 2018, a group of 10 Little Cormorants was observed by P in Barong River, Banyuasin Dua subdistrict, Musi Banyuasin district. Sixth, on 29 October 2019, up to 50 Little Cormorants were reported in Kuro Bangsal floodplain, Pampangan subdistrict. All six locations where we sighted Little Cormorants were on the east coast of South Sumatra province (Fig. 1). Our observations add to the seven sightings recorded in northern Sumatra between 2017 and 2020 and two in Lampung province (eBird 2020).

Due to the similarity of Little and Black cormorants by size and morphological characteristics, we were cautious in citing reports of Little Cormorant pending confirmations (van Marle & Voous 1988, Holmes 1996). Little Cormorant is a basically sedentary species but may move as a result of monsoon rainfall patterns and changing water levels (Johnsgard 1993). This species probably occupies freshwater lowlands, including ponds, rivers, lakes, swamps, and rice fields (Orta 1992). However, most confirmed records in Sumatra have been in estuarine habitats, except a very recent record from the Kuro Bangsal flood plain in October 2019.

Little Cormorant may have been overlooked in the past or it may have expanded its range to Sumatra, particularly from Java or maybe from the Thai-Malay Peninsula, where there are many observations and breeding records. Recent records from Java are listed in eBird (2020). In Malay Peninsula, Little Cormorant is a very rare non-breeding visitor to a few locations at low elevation, from Thailand south to Malaka. For instance, sightings were made in 2007 and 2009 at Sungai Cenang and Pantai Cenang, Pulau Langkawi, Kedah, and a single bird was seen at Bidor (Perak) on 25 January 2007 (Jeyarajasingam & Pearson 2012). However, a rise in Little Cormorant sightings between 2016 and 2020 suggests the possibility of a recent expansion south from Thailand to the Malay Peninsula (eBird 2020). The species has been observed breeding in Tanjung Tualang, Kinta district, Perak, in late 2016 and early 2017 (Yeap Chin Aik, Chan Kai Soon, and Sein Chiong Chiu pers. comm.).

A growing population of birdwatchers and researchers in Sumatra, as well as easier access to birdwatching equipment and field guides, has led to increased communication related to rare and vagrant birds in this region during the last decade (Iqbal et al. 2009, Iqbal et al. 2010, Imansyah & Iqbal 2015, Putra et al. 2018). Our report, at least in part, is a testament to this change. Additional sightings are needed to better

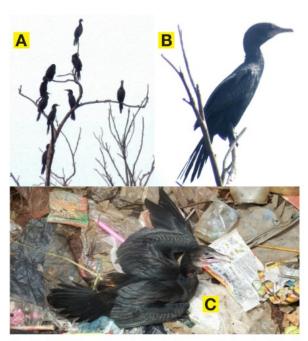


Fig. 2. Little Cormorants in South Sumatra, Indonesia. (A) 29 November 2016 in Batang village; (B) 11 August 2018 in Indrapura village; and (C) an individual caught on 02 September 2018 in Jeruju River. Photos by Muhammad Iqbal [A & B] and Arum Setiawan [C].

establish the status of this species and other waterbirds in Sumatra, to detect population trends and the condition of wetland habitats, and to establish conservation efforts for these species.

ACKNOWLEDGEMENTS

We are very grateful to the editors of *Marine Omithology* and an anonymous reviewer for comments on an earlier draft. The first author (AS) thanks Sriwijaya University for granting Hibah Kompetisi (competitive grant) to explore wildlife in the Sugihan wetlands in 2018–2019. We thank our friends from Malaysian Nature Society, especially Yeap Chin Aik, Chan Kai Soon, and Sein Chiong Chiu, for sharing their records of Little Cormorant in the Malay Peninsula.

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RECENT RECORDS OF LITTLE CORMORANT MICROCARBO NIGER IN SUMATRA, INDONESIA

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	b. Nomor/Volume/Hal: 2/48/161-162
	c. Edisi (bulan/tahun) : Oktober/2020
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No.	ASPEK	URAIAN/KOMENTAR PENILAIAN
1.	Indikasi Plagiasi	1 %
2.	Linearitas	Sudah linier dengan bidang biologi konservasi

II. Hasil Penilaian Peer Review:

	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)				Nilai Akhir	
Komponen Yang Dinilai	Internasional Bereputasi (Maks 40)	Internasion al (Maks 20)	Nasional Terakreditasi S1, S2 Maks 25	Nasional Terakreditasi S3, S4 Maks 20	Nasional tidak Terakreditas i (maks 10)	Yang Diperoleh
Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					3
Ruang lingkup dan kedalaman pembahasan (30%)	12					12
Kecukupan dan Kemutahiran data/informasi dan metodologi (30%)	12					10
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	40					37
Kontribusi Pengusul (Penulis Pertama/Anggota Utama)	Penulis Utama (0,6 x 37) = 22,2				22,2	
KOMENTAR/ULASAN						
Kelengkapan dan Kesesuaian Unsur:						
Ruang Lingkup dan Kedalaman Pembahasan:	Hasil penelitian dibahas secara komprehensif dengan penyampaian pembanding dari temuan-temuan penelitian lainnya dan teori terkait. Referensi yang diacu dalam pembahasan sudah cukup update untuk bidang kajian ini.					
Kecukupan & Kemutakhiran Data & Metodologi:	Data-data hasil penelitian cukup baik dan didukung peta lokasi sampling dan gambar yang ditampilkan menarik. Data didapatkan dengan menggunakan metode yang standard tidak terlalu mutakhir.					
• Kelengkapan Unsur & Kualitas Penerbit:	Penerbit Pasific Seabird Group berkualitas baik, tidak termasuk predatory publisher, dan jurnal masuk di Q3.					

Surabaya, 15 Mei 2020 Penilai 1

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: Jurusan Biologi FST Unair

Bidang Ilmu : Biologi Jabatan/Pangkat : Guru Besar/ Pembina Utama Madya

FORMAT PENILAIAN (VALIDASI & PEER REVIEW) LEMBAR

HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW

KARYA ILMIAH : JURNAL ILMIAH

Jurnal Artikel Ilmiah Penulis Artikel Ilmiah Identitas Jurnal Artikel Ilmiah : Recent Records of Little Commorant Microcarbo niger in Sumatra, Indonesia

: Arum Setiawan

: a. Nama Jurnal : Marine Ornithology

b. Nomor/Volume/Hal : 2/48/161-162 c. Edisi (bulan/tahun) : Oktober/2020 d. Penerbit : Pasific Seabird Group

e. Jumlah Halaman : 2

Kategori Publikasi Jurnal Ilmiah (beri √ pada kategori yang tepat) : $\boxed{\underline{\mathbf{V}}}$ Jurnal Ilmiah Internasional Bereputasi

Jurnal Ilmiah Internasional

☐ Jurnal Ilmiah Nasional Terakreditasi S1, S2 ☐ Jurnal Ilmiah Nasional Terakreditasi S3, S4 ☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

I. Hasil Penilaian Validasi:

Kelengkapan Unsur

& Kualitas Penerbit:

No.	ASPEK	URAIAN/KOMENTAR PENILAIAN
1.	Indikasi Plagiasi	1 %
2.	Linearitas	V

II. Hasil Penilaian Peer Review:

	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)					Nilai Akhir
Komponen Yang Dinilai	Internasiona I Bereputasi (Maks 40)	Internasiona I (Maks 20)	Nasional Terakreditas i S1, S2 Maks 25	Nasional Terakreditas i S3, S4 Maks 20	Nasional tidak Terakredit asi (maks 10)	Yang Diperoleh
Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					3
Ruang lingkup dan kedalaman pembahasan (30%)	12					11
Kecukupan dan Kemutahiran data/informasi dan metodologi (30%)	12					11
Kelengkapan unsur dan kualitas penerbit (30%)	12					12
Total = (100%)	40					37
Kontribusi Pengusul (Penulis Pertama /Anggota Utama)	Marine Ornithology 48(2): 161-162. Impact Factor 0,69. Penulis kesatu dari 5 penulis. Nilai maksimal 92,5%. Nilai pengusul: 0,6 x 0,925 x 40 = 22,2					22,2
KOMENTAR/ULASAN PER	ER REVIEW					
 Kelengkapan dan Kesesuaian Unsur: 	Format tidak l terkait topik p		las kaitan tujua	n dan kesimpula	n. Daftar acua	n cukup dan
 Ruang Lingkup dan Kedalaman Pembahasan: 	Masih dalam ı	uang lingkup te	tapi pembahasa	n tidak mendala	am.	
 Kecukupan & Kemutakhiran Data & Metodologi: 		k baru untuk ob peneliti yang suc		ni. Tidak ada kes	an plagiasi. M	etode

Yogyakarta, 15 Juni 2020

tanda tangan

Pasific Seabird Group, penerbit berkualitas.

Prof. Dr. Suwarno Hadisusanto NIP 195411161983031002

Unit Kerja : Fakultas Biologi UGM

Bidang Ilmu : Biologi/Ekologi

Jabatan/Pangkat : Guru Besar/ Pembina Utama Madya