

Supplementary Material to:

**New records of *Plotosus japonicus* in the Red Sea and genetic
indications for its presence throughout the Indo-Pacific
(Osteichthyes: Plotosidae)**

Menachem Goren, Nir Stern and Ariel Diamant

Zoology in the Middle East, 66, 2020

<http://dx.doi.org/10.1080/09397140.2020.1729560>

Supplementary Material: Detailed information for the whole dataset used for this study.

Registered name	Valid name	Ocean	Country	Exact	BOLD	NCBI	BIN	n	Average distance within BIN (%)	Max distance within BIN (%)
<i>P. japonicus</i>	<i>P. japonicus</i>	Indian Ocean	South Africa	KwaZulu-Natal	TZMSB284-04		BOLD:AAB3011	4	0,08	0,16
<i>P. japonicus</i>	<i>P. japonicus</i>	Indian Ocean	South Africa	KwaZulu-Natal	TZMSB285-04		BOLD:AAB3011	4	0,08	0,16
<i>P. japonicus</i>	<i>P. japonicus</i>	Indian Ocean	South Africa	KwaZulu-Natal	TZMSB286-04		BOLD:AAB3011	4	0,08	0,16
<i>P. japonicus</i>	<i>P. japonicus</i>	Indian Ocean	South Africa	Vetch's Pier	DSFSE608-08		BOLD:AAB3011	4	0,08	0,16
<i>P. lineatus</i>	<i>P. sp #1</i>	Western Pacific Ocean	Philippines	Manila	TZAIC338-05		BOLD:AAB3012	8	0	0
<i>P. lineatus</i>	<i>P. sp #1</i>	Western Pacific Ocean	Philippines	Manila	TZAIC339-05		BOLD:AAB3012	8	0	0
<i>P. lineatus</i>	<i>P. sp #1</i>	Western Pacific Ocean	Philippines	Manila	TZAIC340-05		BOLD:AAB3012	8	0	0
<i>P. lineatus</i>	<i>P. sp #1</i>	Western Pacific Ocean	Philippines	Manila	TZAIC341-05		BOLD:AAB3012	8	0	0
<i>P. lineatus</i>	<i>P. sp #1</i>	Western Pacific Ocean	Philippines	Manila	TZAIC342-05		BOLD:AAB3012	8	0	0
<i>P. japonicus</i>	<i>P. japonicus</i>	Pacific Ocean	Japan			NC_027737	BOLD:AAB3013	4	0	0
<i>P. japonicus</i>	<i>P. japonicus</i>	Pacific Ocean	Japan			KR270437	BOLD:AAB3013	4	0	0
<i>P. japonicus</i>	<i>P. japonicus</i>	Pacific Ocean	Japan			AP012020	BOLD:AAB3013	4	0	0
<i>P. lineatus</i>	<i>P. japonicus</i>	Pacific Ocean	Japan	Yokosuka	ABFJ031-06		BOLD:AAB3013	4	0	0
<i>P. lineatus</i>	<i>P. sp #2</i>	Pacific Ocean	Australia	New South Wales	AMS214-08		BOLD:AAB3016	1	N/A	N/A
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Vishakhapatnam	WLIND668-07		BOLD:AAB3017	5	0	0
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Vishakhapatnam	WLIND669-07		BOLD:AAB3017	5	0	0
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India		GBGC4467-08		BOLD:AAB3017	5	0	0
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India		GBGC8386-09		BOLD:AAB3017	5	0	0
<i>P. canius</i>	<i>P. canius</i>	Western Pacific Ocean	Malaysia		GBMIN123564-17		BOLD:ACG9142	1	0,51	1,31
<i>P. lineatus</i>	<i>P. japonicus</i>	Pacific Ocean	Australia	Torres strait	FOAL712-10	HQ956387	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Pacific Ocean	China	South China Sea	GBGCA4364-13	JQ681511	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS284-06		BOLD:ABY8174	56	0,28	1,43

Registered name	Valid name	Ocean	Country	Exact	BOLD	NCBI	BIN	n	Average distance within BIN (%)	Max distance within BIN (%)
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS285-06		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS384-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS385-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS386-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS387-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS388-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS389-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	South China Sea	China	Guangdong	FSCS798-08		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Indonesia	Bali	LIDM226-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. lineatus</i>	Western Pacific Ocean	Indonesia	Bali	LIDM227-07		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Indonesia	Lombok	FOAL038-10		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Indonesia	Lombok	FOAM642-10	JN313096	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Israel	Gulf of Aqaba	ILRS001-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Israel	Gulf of Aqaba	ILRS002-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Israel	Gulf of Aqaba	ILRS003-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Israel	Gulf of Aqaba	ILRS004-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Israel	Gulf of Aqaba	ILRS005-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Malaysia	Selangor	NUPM015-14		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Malaysia	Selangor	NUPM016-14		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Malaysia	Selangor	NUPM017-14		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		BCCM017-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		BCCM018-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		BCCM019-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		BCCM020-19		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		BCCM021-19		BOLD:ABY8174	56	0,28	1,43

Registered name	Valid name	Ocean	Country	Exact	BOLD	NCBI	BIN	n	Average distance within BIN (%)	Max distance within BIN (%)
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		GBMIN123567-17		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		GBMIN128541-17		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Malaysia		GBMIN94061-17		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Pangasinan	BPC035-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Pangasinan	BPC036-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Pangasinan	BPC037-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Pangasinan	BPC038-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Pangasinan	BPC039-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Quezon	BPC040-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Philippines	Quezon	BPC041-13		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Seychelles	Mahe	SAIAB403-06		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Seychelles	Mahe	SAIAB491-06		BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Arabian Gulf	Suadi Arabia	Arabian Gulf	-	KU499687	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Red Sea	Suadi Arabia	Thuwal	-	MH331830	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Western Pacific Ocean	Taiwan		GBMIN95734-17	KU943007	BOLD:ABY8174	56	0,28	1,43
<i>P. lineatus</i>	<i>P. japonicus</i>	Indian Ocean	Reunion (France)	Ouest	SBF744-11		BOLD:ABZ0283	1	N/A	N/A
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Jamnagar	ANGEN223-15		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Sikka	FGBOF015-13		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Sikka	FGBOF046-13		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Sikka	FGBOF047-13		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India	Sikka	FGBOF048-13		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India		ANBGBF43913-19		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India		ANBGBF43914-19		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. lineatus</i>	Indian Ocean	India		ANBGBF43915-19		BOLD:ACG5707	9	0,33	1,66
<i>P. lineatus</i>	<i>P. japonicus</i>	Arabian Gulf	Suadi Arabia	Arabian Gulf		KU179077	BOLD:ACG5707	9	0,33	1,66

Registered name	Valid name	Ocean	Country	Exact	BOLD	NCBI	BIN	n	Average distance within BIN (%)	Max distance within BIN (%)
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	BIM015-13		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	BIM263-13		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	BIM315-13		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	BIM345-13		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	BIM352-13		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS110-09		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS111-09		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS112-09		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS113-09		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS114-09		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS187-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS188-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS189-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS190-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS191-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS192-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS312-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS313-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS314-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS315-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS316-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS317-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS419-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS420-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS421-14		BOLD:ACG8821	29	0,03	0,3

Registered name	Valid name	Ocean	Country	Exact	BOLD	NCBI	BIN	n	Average distance within BIN (%)	Max distance within BIN (%)
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS422-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS423-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Israel	Levant Basin	JFS424-14		BOLD:ACG8821	29	0,03	0,3
<i>P. lineatus</i>	<i>P. lineatus</i>	Mediterranean	Lebanon	Levant Basin		KR861548	BOLD:ACG8821	29	0,03	0,3