

**Clarifying confusion - *Prorocentrum triestinum* J.Schiller and
Prorocentrum redfieldii Bursa (Prorocentrales, Dinophyceae) are
two different species**

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Supplementary Information

Tables

Table S1: Voucher list. All names are given under the rules of the ICN, the author standard forms follow Brummitt & Powell (1992). Abbreviation: n. inf., no information; s.n., without number. If ‘holotype’ or ‘epitype’ is noted for a species name, then it refers to material, from which the type was prepared.

species name with author(s)	strain No.	locality	date	collector(s)	GenBankNo(s)	reference
<i>Adenoides eludens</i> (Herdman) Balech	ADE2	eastern North Atlantic, off France: Hauts-de-France, Wimereux (50°46'N, 1°37'E)	Jun, 2011	n.inf.	LC002839 (SSU), LC002844 (LSU)	Gómez <i>et al.</i> (2015)
<i>Chrysodinium ballux</i> (N.Yamada, Dawut, R.Terada & T.Horig.) F.Gómez, Y.Nakam. & L.F.Artigas (holotype)	HG177	western North Pacific, off Japan: Kyūshū, Kagoshima, Takeshima (30°49'N, 130°24'E)	May 10, 2011	T. Horiguchi	LC054938 (SSU), LC375159 (LSU)	Yamada <i>et al.</i> (2019)
<i>Plagiodinium belizeanum</i> M.A.Faust & Balech	KW001	western North Pacific, East China Sea, off Japan: Okinawa, Itoman, Odo (26°04'N, 127°41'E)	Apr 15, 2015	n.inf.	KX008973 (SSU), KX008972 (LSU)	Wakeman <i>et al.</i> (2018)
<i>Plagiodinium</i> sp.	HG225	western North Pacific, off Japan: Kyūshū, Kagoshima, Takeshima (30°49'N, 130°24'E)	May 30, 2011	T. Horiguchi	LC054937 (SSU), LC375160 (LSU)	Yamada <i>et al.</i> , (2019)
<i>Prorocentrum concavum</i> Fukuyo (holotype of <i>Prorocentrum</i> <i>arabianum</i> S.L.Morton & M.A.Faust)	NCMA1724	western Indian Ocean, Arabian Sea, Gulf of Oman, off Oman (23°34'N, 58°52'E)	May, 1995	J. Stirn [S. Brett] OM-3	EU927555 (ITS), DQ336184 (LSU)	Ferrell & Beaton (unpubl. 2008), Murray <i>et al.</i> (2007)
<i>Prorocentrum cordatum</i> (Ostenf.) J.D.Dodge	D-127	eastern Indian Ocean, off South Korea: Tongyeong	n.inf.	n.inf.	JX402086 (rRNA), JN831315 (hsp90), JF715156 (act), JF715158 (tub)	Cheon & Ki (unpubl. 2013)
<i>Prorocentrum</i> cf. <i>emarginatum</i> Fukuyo	X2P3	western North Pacific, South China Sea, off China: Hainan, Sanya (18°14'N, 109°22'E)	Aug 19, 2014	n.inf.	KY010245 (ITS), KY010260 (LSU)	Luo <i>et al.</i> (2017)

<i>Prorocentrum foveolatum</i> Croome & P.A.Tyler (reference material)	PFBL01	Australia: Tasmania, Bruny Island, Big Lagoon	Feb, 2002	[I. Pearce] s.n.	AY259173 (LSU)	Pearce & Hallegraeff (2004)
<i>Prorocentrum fukuyoi</i> Sh.Murray & Y.Nagahama (holotype)	SM19 (≡ CS867)	western South Pacific, Tasman Sea, off Australia: Sydney, Port Botany (34°00'S, 151°14'E)	Apr, 2003	n.inf.	DQ336191 (LSU)	Murray <i>et al.</i> (2007, 2009)
<i>Prorocentrum fukuyoi</i> Sh.Murray & Y.Nagahama	W091	South China Sea	n.inf.	n.inf.	MK547117 (SSU), MK605054 (ITS), MK605081 (LSU), MK544031 (LSUd8d10)	Yiu <i>et al.</i> (unpubl. 2020)
<i>Prorocentrum gracile</i> F.Schütt	W089	South China Sea	n.inf.	n.inf.	MK547125 (SSU), MK605061 (ITS), MG914043 (LSU), MK544040 (LSUd8d10)	Yiu <i>et al.</i> (unpubl. 2020)
<i>Prorocentrum hoffmannianum</i> M.A.Faust	NCMA683 (≡ PL200A)	western North Atlantic, off USA—FL: Knight Key (24°42'N, 81°08'W)	Nov 1, 1985	J. Bomber [J. Bomber] s.n.	KF885225 (SSU+ITS+LSU), KC622310 (SSU+ITS+LSU)	Lee (unpubl. 2013), Herrera Sepúlveda <i>et al.</i> (2015)
<i>Prorocentrum koreanum</i> M.S.Han, S.Y.Cho & P.B.Wang (holotype)	LMBEV9	eastern Indian Ocean, East China Sea, off South Korea: Jangmok	n.inf.	n.inf.	KP711350 (SSU), KP711351 (ITS), KP711352 (LSU)	Han <i>et al.</i> (2016)
<i>Prorocentrum leve</i> M.A.Faust, Kibler, Vandersea, P.A.Tester & Litaker (holotype)	NCMA2634	western North Atlantic, Caribbean Sea, off Belize: Stann Creek, Twin Cays (16°50'N, 88°06'W)	May 21, 2002	S. Kibler [S. Kibler] s.n.	DQ238043 (SSU+ITS+LSU)	Faust <i>et al.</i> (2008)
<i>Prorocentrum lima</i> (Ehrenb.) F.Stein	NCMA685 (≡ PL2V)	eastern North Atlantic, off Spain: Ria de Vigo (42°14'N, 8°48'W)	n.inf.	I. Bravo s.n.	AB189765 (ITS), DQ336179 (LSU)	Murray <i>et al.</i> (2009), Nagahama <i>et al.</i> (2011)
<i>Prorocentrum lima</i> (Ehrenb.) F.Stein	NCMA1370 (≡ FIT#69)	western North Atlantic, off USA—FL: Knight Key (24°42'N, 81°08'W)	n.inf.	J. Bomber s.n.	EU927507 (ITS), DQ336180 (LSU)	Ferrell & Beaton (unpubl. 2008), Murray <i>et al.</i> (2009)

<i>Prorocentrum lima</i> (Ehrenb.) F.Stein (epitype of <i>Exuviaella marina</i> Cienk.)	NCMA1743 (≡ PA)	Atlantic Ocean, off Canada: Nova Scotia, Lunenburg, Mahone Bay (44°30'N, 64°10'W)	n.inf.	[C. Brown & N. Lewis] s.n.	AB189767 (ITS)	Ferrell & Beaton (unpubl. 2008) Nagahama <i>et al.</i> (2011)
<i>Prorocentrum micans</i> Ehrenb. (epitype)	A10	Baltic Sea, off Germany: Schleswig-Holstein, Kiel (54°21'N, 10°09'E)	Oct 20, 2017	K.J.S. Meier [U. Tillmann A10] s.n.	MK405477 (rRNA)	Tillmann <i>et al.</i> (2019)
<i>Prorocentrum micans</i> Ehrenb.	NCMA1589 (≡ 992M3)	USA—RI: Narragansett Bay (41°36'N, 71°24'W)	Sep 19, 1992	P. Hargraves [P. Hargraves] s.n.	EU780638 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
<i>Prorocentrum obtusidens</i> J.Schiller (chimeric)	n.inf.	western North Pacific, East China Sea	2002	S. Lin s.n.	DQ336054 (SSU), AY465116 (ITS), AY822610 (LSU)	Zhang <i>et al.</i> (2004), Lin <i>et al.</i> (2006)
<i>Prorocentrum playfairii</i> Croome & P.A.Tyler (reference material)	PPWL01	Australia: Tasmania, Windmill Lagoon	Jan, 2001	[I. Pearce] s.n.	AY259174 (LSU)	Pearce & Hallegraeff (2004)
<i>Prorocentrum redfieldii</i> Bursa	1032	Mediterranean Sea, Adriatic Sea, off Italy: Friuli-Venezia Giulia, Trieste (45°42'N, 13°42'E)	Jan 19, 2014	A. Beran C1	MW784567 (ITS), MW784606 (LSU)	this study
<i>Prorocentrum redfieldii</i> Bursa	1033	Mediterranean Sea, Adriatic Sea, off Italy: Friuli-Venezia Giulia, Trieste	Jan 21, 2014	A. Beran Acegas	MW784602 (SSU, MW784568 (ITS), MW784607 (LSU)	this study
<i>Prorocentrum redfieldii</i> Bursa	1B8	North Sea, off Belgium (51°31'N, 2°41'E)	2018	[Heincke] [U. Tillmann] s.n.	MW784604 (SSU), MW784570 (ITS+LSU)	this study
<i>Prorocentrum redfieldii</i> Bursa	CCCM765	n.inf.	n.inf.	n.inf.	AY443019 (SSU)	Saldarriaga Echavarría <i>et al.</i> (2004)
<i>Prorocentrum redfieldii</i> Bursa	CCCM882	n.inf.	n.inf.	n.inf.	JQ972693 (ITS)	Stern <i>et al.</i> (2012)
<i>Prorocentrum redfieldii</i> Bursa	DI.D*	Eastern South Atlantic, off South Africa: Western Cape, St Helena Bay (32°43'S, 18°03'E)	Feb 11, 2015	N. Dhar, G.C. Pitcher & P.M. Durand s.n.	KX786249 (SSU), KX786250 (LSU)	Ndhlovu <i>et al.</i> (2017)
<i>Prorocentrum redfieldii</i> Bursa	M53	Deutsche Bucht	2012	N. Gülzow	MW784571 (ITS+LSU)	this study
<i>Prorocentrum redfieldii</i> Bursa	MBIC11147	n.inf.	n.inf.	n.inf.	AB183673 (SSU)	Sekiguchi <i>et al.</i> (unpubl. 2004)

<i>Prorocentrum redfieldii</i> Bursa	NCMA700 (≡ PT1)	western North Atlantic, off USA–ME: Brunswick, Maquiot Bay (43°55'N, 69°56'W)	Oct 1, 1988	R. Aho [R. Selvin] s.n.	EU927549 (ITS)	Ferrell & Beaton (unpubl. 2008)
<i>Prorocentrum redfieldii</i> Bursa	NCMA1919	western North Atlantic, off USA–NJ: (39°41'N, 74°09'W)	Sep 13, 1996	P. Olson [J. Mahoney] s.n.	EU927550 (ITS)	Ferrell & Beaton (unpubl. 2008)
<i>Prorocentrum redfieldii</i> Bursa	n.inf.	n.inf.	n.inf.	n.inf.	AF042815 (LSU)	Lee et al. (unpubl. 1998)
<i>Prorocentrum redfieldii</i> Bursa	n.inf.	n.inf.	n.inf.	n.inf.	AY863010 (LSU)	Wang et al. (unpubl. 2004)
<i>Prorocentrum redfieldii</i> Bursa	n.inf.	western North Atlantic, off USA–VA: Chincoteague Bay	Aug 12, 2015	n.inf.	KT870117 (ITS)	Lycett & Pitula (unpubl. 2015)
<i>Prorocentrum redfieldii</i> Bursa	PT2V (≡ SCCAP K-1811)	eastern North Atlantic, off Spain: Ria de Vigo	Aug 23, 1989	S. Fraga [S. Fraga] s.n.	EU244468 (ITS)	Rial et al. (unpubl. 2007)
<i>Prorocentrum redfieldii</i> Bursa	PT5V	eastern North Atlantic, off Spain: Ria de Vigo	n.inf.	n.inf.	L38638 (LSU), L38639 (LSUd8d10)	Zardoya <i>et al.</i> (1995)
<i>Prorocentrum redfieldii</i> Bursa	PTPP01	Australia: Western Australia, Swan River	Jul, 2001	[M. de Salas] s.n.	AY259168 (LSU)	Pearce & Hallegraeff (2004)
<i>Prorocentrum redfieldii</i> Bursa	PtriC	n.inf.	n.inf.	n.inf.	DQ004734 (SSU)	Wang et al. (unpubl. 2005)
<i>Prorocentrum redfieldii</i> Bursa	S019	South China Sea	n.inf.	n.inf.	MK547148 (SSU), MG914046 (ITS+LSU), MK605103 (LSU), MK544064 (LSUd8d10)	Yiu et al. (unpubl. 2019)
<i>Prorocentrum redfieldii</i> Bursa	UTEX1657	eastern North Pacific, off USA–CA: San Diego, La Jolla	spring, 1966	A.R. Loeblich III s.n.	EF492512 (SSU), EU927551 (ITS)	Ferrell & Beaton (unpubl. 2008), Leblond <i>et al.</i> (2010)
<i>Prorocentrum redfieldii</i> Bursa	W010	South China Sea	n.inf.	n.inf.	MK547149 (SSU), MK605079 (ITS), MK605104 (LSU), MK544065 (LSUd8d10)	Yiu et al. (unpubl. 2019)

<i>Prorocentrum rhathymum</i> A.R.LoebL., Sherley & R.J.Schmidt	NMN16	western North Pacific, South China Sea, off Malaysia: Sabah	n.inf.	n.inf.	FJ842096 (SSU), FJ155840 (ITS), EF566745 (LSU)	Mohammad-Noor <i>et al.</i> (2007), Caillaud <i>et al.</i> (2010)
<i>Prorocentrum rhathymum</i> A.R.LoebL., Sherley & R.J.Schmidt	PRJJ1	western North Pacific, East China Sea, off Republic of South Korea: Jeju (33°52'N, 126°54'E)	Feb, 2009	n.inf.	HF565181 (SSU+ITS+LSU)	Lim <i>et al.</i> (2013)
<i>Prorocentrum steidingeriae</i> F.Gómez, D.J.Qiu & Senjie Lin (holotype)	NCMA687 (≡ FIT#182, PM200A)	western North Atlantic, off USA–FL: Knight Key (24°42'N, 81°08'W)	Nov 1, 1985	J. Bomber [J. Bomber] s.n.	EU287485 (SSU), EU927554 (ITS), DQ336183 (LSU)	Murray <i>et al.</i> (2007, 2009), Ferrell & Beaton (unpubl. 2008)
<i>Prorocentrum texanum</i> Henrichs, Steid., P.S.Scott & L.Campbell (holotype)	PrTX B	USA–TX: Ship Channel, Port Aransas (27°50'N, 97°03'W)	Feb 3, 2010	D.W. Henrichs s.n.	JQ390504 (SSU), JQ390505 (ITS+LSU)	Henrichs <i>et al.</i> (2013)
<i>Prorocentrum triestinum</i> J.Schiller (epitype)	1069	Mediterranean Sea, Adriatic Sea, off Italy: Friuli-Venezia Giulia, Trieste, Santa Croce (45°44'N, 13°41'E)	Sep 19, 2018	A. Beran s.n.	MW784603 (SSU), MW784569 (ITS), MW784608 (LSU)	this study
<i>Pseudadenoides kofoidii</i> (Herdman) F.Gómez, R.Onuma, Artigas & T.Horig.	PSE6	eastern North Atlantic, off France: Hauts-de-France, Wimereux (50°46'N, 1°37'E)	Jun, 2011	n.inf.	LC002843 (SSU), LC002848 (LSU)	Gómez <i>et al.</i> (2015)
<u>outgroup</u>						
<i>Amphisolenia bidentata</i> Schröd. (chimeric as used in Orr et al. 2012)	LE392	Indian Ocean, off Australia (16°02'S, 119°20'E)	fall 2006	n.inf.	GU196149 (SSU), FJ808682 (LSU)	Jensen & Daugbjerg (2009), Daugbjerg <i>et al.</i> (2013)
<i>Bispinodinium angelaceum</i> N.Yam. & T.Horig. (holotype)	HG236	western North Pacific, off Japan: Kyūshū, Kagoshima, off Mageshima (30°41' N, 130°50'E)	May 15, 2008	R. Terada s.n.	AB762397 (SSU), AB762398 (LSU)	Yamada <i>et al.</i> (2013)
<i>Barrufeta resplendens</i> (Hulburt) H.Gu, Z.Luo & K.N.Mert.	GM17	western North Atlantic, Gulf of Mexico, off USA–LA (28°52'N, 90°29'W)	Jul 29, 2014	n.inf.	KY688183 (SSU), KT203384 (ITS), KT203382 (LSU)	Gu <i>et al.</i> (2015), Wang <i>et al.</i> (2017)

<i>Dinophysis acuminata</i> Clap. & J.Lachm.	clone 2	eastern North Atlantic, off Spain: Ría de Pontevedra (42°22'N, 8°47'W)	Jun 12, 2006	n.inf.	KF871422 (SSU), AM931580 (ITS), KF871410 (LSU)	Raho & Marin (unpubl. 2013), Raho <i>et al.</i> (2008, 2013)
<i>Dinophysis acuminata</i> Clap. & J.Lachm.	DARU-2013	western North Pacific, Sea of Japan, off Russia: Primorsky, Vladivostok	Aug 25, 2013	n.inf.	KJ508017 (SSU), KJ508016 (ITS), KJ508015 (LSU)	Efimova <i>et al.</i> (unpubl. 2014)
<i>Dinophysis caudata</i> Kent	FTL69	western North Atlantic, off USA–FL: Ft. Lauderdale (26°05'N, 80°03'W)	Feb 26, 2008	n.inf.	EU780644 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
Gymnodiniaceae sp.	uncultivated clone W8eB2	Arctic Ocean, off Canada: Nanavut, Ellesmere Island, Ward Hunt Lake (83°05'N, 74°10'W)	Aug 15, 2008	n.inf.	JF730844 (SSU)	Charvet <i>et al.</i> (2012)
<i>Gymnodinium aureolum</i> (Hulburt) Gert Hansen	GeoB 232	Mediterranean Sea, Ionian Sea, off Italy: Gulf of Taranto (40°07'N, 17°19'E)	Oct 26, 2002	D. Saracino [M. Kirsch] s.n.	KJ481834 (SSU+ITS+LSU)	Tillmann <i>et al.</i> (2014)
<i>Gymnodinium aureolum</i> (Hulburt) Gert Hansen	MUCC284	n.inf.	n.inf.	n.inf.	AF022196 (SSU)	Saunders <i>et al.</i> (1997)
<i>Gymnodinium baicalense</i> N.L.Antipova	LM0802 (NA-2008)	Russia: Siberia, Lake Baikal	2008	n.inf.	FJ024297 (SSU), FJ024302 (LSU)	Annenkova <i>et al.</i> (2009)
<i>“Gymnodinium” catenatum</i> H.W.Graham	GnCt01	eastern Indian Ocean, East China Sea, off South Korea: Nanpo, Jinhae Bay	n.inf.	n.inf.	DQ785882 (rRNA)	Ki & Han (2007b)
<i>Gymnodinium fuscum</i> var. <i>rubrum</i> Baumeister ex Romeikat, Knechtel & Gottschling (epitype)	GeoM*864 (≡ CCAC9044B)	Germany: Bavaria, Traunstein, Seeon, peat pit (47°59'N, 12°26'E, 536m)	Jun 28, 2017	C. Romeikat, M. Gottschling & H. Reich [C. Romeikat] D099	MK405489 (SSU+ITS+LSU)	Romeikat <i>et al.</i> (2020)
<i>Gymnodinium plasticum</i> Na Wang, Z.Luo, K.N.Mert., F.M.G.McCarthy & H.Gu (holotype)	TIO826	Canada: Ontario, Plastic Lake (45°18'N, 79°23'E)	n.inf.	n.inf.	KY688188 (SSU), KY688186 (ITS), KY688184 (LSU)	Wang <i>et al.</i> (2017)
<i>“Gymnodinium” smaydae</i> N.S.Kang, H.J.Jeong & Moestrup (holotype)	GSSW10	western North Pacific, Yellow Sea, off South Korea: Shiwha Bay (37°18'N, 126°36'E)	May, 2010	n.inf.	HG005135 (SSU+ITS+LSU)	Kang <i>et al.</i> (2014)

<i>Gymnoxanthella</i> sp. (isolated from <i>Spongotrochus glacialis</i> Popofsky, 1908)	n.inf.	North Pacific	fall, 2010	n.inf.	AB860180 (rRNA)	Ishitani <i>et al.</i> (2014)
<i>Gyrodiniellum shiwhaense</i> N.S.Kang, H.J.Jeong & Moestrup (holotype)	n.inf.	western North Pacific, Yellow Seaa, off South Korea: Shiwha Bay (37°07'N, 126°08'E)	Sep 1, 2009	N.S. Kang s.n.	FR720082 (SSU+ITS+LSU)	Kang <i>et al.</i> (2011)
<i>“Gyrodinium” impudicum</i> S.Fraga & I.Bravo	Gi-1cp	eastern Indian Ocean, East China See, off South Korea: Yeosu	n.inf.	n.inf.	DQ779992 (rRNA)	Ki & Han (2007a)
<i>Histioneis</i> sp.	FTL62	western North Atlantic, off USA–FL: Ft. Lauderdale (26°05'N, 80°03'W)	Feb 26, 2008	n.inf.	EU780646 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
<i>Lepidodinium viride</i> M.Watan., S.Suda, I.Inouye, Sawaguchi & Chihara	n.inf.	South Africa	n.inf.	R.N. Pienaar s.n.	DQ499645 (SSU+ITS+LSU)	Grzebyk <i>et al.</i> (unpubl. 2008)
<i>Nematodinium</i> sp.	UBC3 (chimeric)	eastern North Pacific, off Canada: British Columbia, Vancouver Island (48°50'N, 125°08'W)	April, 2006; April 28, 2007	Anonymous BSL-2009a	FJ947038 (SSU), FJ947041 (LSU)	Hoppenrath <i>et al.</i> (2009)
<i>Nusuttodinium acidotum</i> (Nygaard) Y.Takano & T.Horig. (reference material)	Gaci-Japan #1	Japan: Hokkaidō, Shinshinotsu, Lake Shinotsu (43°13'N, 141°39'E)	Sep 13, 2001	Y. Takano s.n.	AB921309 (rRNA)	Takano <i>et al.</i> (2014)
<i>Nusuttodinium aeruginosum</i> (F.Stein) Y.Takano & T.Horig.	Gaer-Japan #1	Japan: Kagawa, Uto-ike Pond	Feb 9, 2001	Y. Takano s.n.	AB921311 (rRNA)	Takano <i>et al.</i> (2014)
<i>Nusuttodinium aeruginosum</i> (F.Stein) Y.Takano & T.Horig.	Gaer-Japan #2	Japan: Hokkaidō, Akkeshi, Tokotan-numa Pond (43°00'N, 144°52'E)	Dec 7, 2001	Y. Takano s.n.	AB921312 (rRNA)	Takano <i>et al.</i> (2014)
<i>Nusuttodinium amphidinoides</i> (Geitler) Y.Takano & T.Horig. (reference material)	Aamp-Japan #b	Japan: Hokkaidō, Sapporo (43°04'N, 141°21'W)	Apr 9, 2003	Y. Takano s.n.	AB921307 (rRNA)	Takano <i>et al.</i> (2014)
<i>Nusuttodinium desymbiontum</i> R.Onuma, K.Watanabe & T.Horig.	Fukaura	western North Pacific, Sea of Japan, off Japan: Honshū, Aomori, Fukaura	May 5, 2012	R. Onuma s.n.	LC027036 (SSU), LC027054 (LSU)	Onuma <i>et al.</i> (2015)

<i>Nusuttodinium poecilochroum</i> (J.Larsen) Y.Takano & T.Horig.	Hokuto	western North Pacific, off Japan: Hokkaidō, Hokuto	May 12, 2012	R. Onuma s.n.	LC027047 (SSU), LC027065 (LSU)	Onuma <i>et al.</i> (2015)
<i>Ornithocercus magnificus</i> F.Stein	CBC4L7	western North Atlantic, off USA–VA: shelf break off lower Chesapeake Bay (36°20'N, 74°44'W)	Oct 15, 2007	n.inf.	EU780649 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
<i>Phalacroma rapa</i> Jørg.	CBC4L5	western North Atlantic, off USA–VA: shelf break off lower Chesapeake Bay (36°20'N, 74°44'W)	Oct 15, 2007	n.inf.	EU780655 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
<i>Phalacroma</i> cf. <i>rotundatum</i> (Clap. & J.Lachm.) Kof. & J.R.Michener	FTL121	western North Atlantic, off USA–FL: Ft. Lauderdale (26°05'N, 80°03'W)	Feb 26, 2008	n.inf.	EU780657 (SSU+ITS+LSU)	Handy <i>et al.</i> (2009)
<i>Polykrikos geminatum</i> (F.Schütt) D.J.Qiu & Senjie Lin	n.inf.	western North Pacific, South China Sea, off China: Zhuhai, Pearl River Estuary (22°10'N, 113°38'E)	Aug 24, 1011	n.inf.	JX967270 (SSU+ITS+LSU), JX967273 (cyb)	Qiu <i>et al.</i> (2013)
<i>Spiniferodinium galeiforme</i> T.Horig. & Chihara	n.inf.	n.inf.	n.inf.	M. Tamura s.n.	AB921297 (SSU), AB921298 (LSU)	Takano <i>et al.</i> (2014)
<i>Spiniferodinium limneticum</i> (Wołosz.) Kretschmann & Gottschling	GeoM 517 (≡ CCAC5092B, CCBA AA- 276)	Poland: Lesser Poland, Tatra, Zakopane (49°17'N, 19°57'E)	Sep 11, 2012	M. Gottschling, C. Zinßmeister, N.H. Filipowicz & P.M. Owsianny [J. Kretschmann P6] PL002	KR362900 (SSU+ITS+LSU)	Kretschmann <i>et al.</i> (2015)
<i>Spiniferodinium palustre</i> (A.J.Schill.) Kretschmann & Gottschling (reference material)	GeoM*719	Poland: Lesser Poland, Tatra, Litworowy Staw Gąsienicowy (49°14'N, 20°00'E, 1618m)	Sep 22, 2015	P.M. Owsianny, K. Trawiński & G. Marciniak [J. Kretschmann] PL018	MH497023 (SSU+ITS+LSU), MH497042 (LSUd8d10)	Žerdoner Čalasan <i>et al.</i> (2019)
<i>Spiniferodinium palustre</i> (A.J.Schill.) Kretschmann & Gottschling	n.inf.	Japan: Hokkaidō, Lake Shikotsu	Oct 23, 2005	Y. Takano s.n.	AB921299 (SSU), AB921300 (LSU)	Takano <i>et al.</i> (2014)
<i>Warnowia</i> sp.	BC	eastern North Pacific, off Canada: British Columbia, Vancouver Island (48°50'N, 125°08'W)	May 2, 2007	Anonymous BSL-2009a	FJ947040 (SSU), FJ947042 (LSU)	Hoppenrath <i>et al.</i> (2009)

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