



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

WOMEN 25-29

50 M. FREE		
25.42 ANNABEL KOSTEN	NED	2004
25.73 EMMA GAGE	GBR	2015
26.09 DARYA NADZHAFOVA	UKR	2018
26.10 JENNIFER THATER	GER	2017
26.16 TATIANA BARBOSA	BRA	2007
26.20 ALISON SHEPPARD	GBR	1998
26.27 AMEL MELIH	ALG	2019
26.31 FANNI PATAKI	HUN	2019
26.38 RIENEKE TERINK	NED	2013
26.50 EMI MORONUKI	USA	2018
100 M. FREE		
56.87 TATIANA BARBOSA	BRA	2007
56.96 EMMA GAGE	GBR	2015
57.70 DANIELA SCHREIBER	GER	2016
57.70 LAURA FERNANDEZ	ESP	2015
57.71 AIMEE RAMM	GBR	2008
57.74 JENNIFER THATER	GER	2019
57.76 SHEILA TAORMINA	USA	1995
58.06 AMEL MELIH	ALG	2019
58.18 NADINE JONES	AUS	2016
58.22 ALISON SHEPPARD	GBR	1998
200 M. FREE		
2:02.06 SHEILA TAORMINA	USA	1996
2:02.44 RACHEL KOMISARZ	USA	2001
2:04.06 MARIA ALVAREZ	COL	2016
2:04.56 MEGAN JENDRICK	USA	2010
2:05.41 AISHA THORNTON	GBR	2016
2:05.79 CAROLINE SAXBY	GBR	2012
2:05.81 MARINA HANSEN	DEN	2019
2:06.21 P.KITTIYA	THA	2019
2:06.33 CAROLINE CAVADINI	BEL	2016
2:06.37 KIM VAN KRUYSSEN	BEL	2000
400 M. FREE		
4:13.03 SHEILA TAORMINA	USA	1996
4:16.31 RACHEL KOMISARZ	USA	2001
4:17.93 MARIA ALVAREZ	COL	2016
4:18.62 SOPHIE CASSON	GBR	2011
4:21.89 SWANN OBERSON	GER	2012
4:22.53 AISHA THORNTON	GBR	2016
4:23.18 C.OESTRINGER	SUI	2016
4:23.81 NADINE REICHERT	GER	2009
4:24.11 SILVIA VIDA	GER	2003
4:26.47 MARIA SANTAFE	COL	2016
800 M. FREE		
8:45.89 SWANN OBERSON	GER	2012
8:47.44 RACHEL KOMISARZ	USA	2001
8:51.00 MARIA ALVAREZ	COL	2016
8:51.48 NADINE REICHERT	GER	2009
8:52.65 SOPHIE CASSON	GBR	2011
8:53.93 K.BISHOP	AUS	1989
9:03.24 AISHA THORNTON	GBR	2016
9:07.50 MARIA SANTAFE	COL	2016
9:12.58 SABRINA MARZAHN	GER	2016
9:15.29 PAULA WOOD	GBR	2007
1500 M. FREE		
16:34.89 SWANN OBERSON	GER	2012
16:39.77 RACHEL KOMISARZ	USA	2001
16:53.78 SOPHIE CASSON	GBR	2011
17:26.88 PAULA WOOD	GBR	2007
17:27.96 SHEILA TAORMINA	USA	1995
17:38.09 S. PALMER-WHITE	AUS	1991
17:38.78 AMY POPE	USA	1988
17:41.64 LINDA GALLO	USA	2004
17:50.23 AMY LEPPING	USA	1987
17:54.78 HITOMI MATSUDA	JPN	2005
50 M. BACK		
28.39 EMI MORONUKI	USA	2018
28.99 YURIE OGA	JPN	2014

29.60 MAI NAKAMURA	JPN	2008
29.88 ORSOLYA TOMPA	HUN	2017
29.89 JING ZHAO	CHN	2019
30.01 ANJA VAN DER HOUT	NED	2015
30.03 AMEL MELIH	ALG	2019
30.07 CAROLINA COLORADO	COL	2016
30.20 ESTEFANIA DIETZE	BRA	2017
30.27 IRYNA BOLSHAKOVA	UKR	2011
30.27 ELENA PYATOVA	RUS	2008
100 M. BACK		
1:01.60 EMI MORONUKI	USA	2018
1:02.91 CAROLINA COLORADO	COL	2016
1:03.26 YURIE OGA	JPN	2014
1:04.82 AKIKO MIZUMOTO	JPN	2007
1:04.88 KANA OHASHI	JPN	2007
1:05.02 ALISON SHEPPARD	GBR	1998
1:05.51 JING ZHAO	CHN	2019
1:05.78 ELENA PYATOVA	RUS	2008
1:05.91 VALENTINA LUCCONI	ITA	2017
1:06.08 ANJA VAN DER HOUT	NED	2015
200 M. BACK		
2:13.19 EMI MORONUKI	USA	2018
2:15.03 CAROLINA COLORADO	COL	2016
2:17.30 KANA OHASHI	JPN	2007
2:17.56 SOPHIE CASSON	GBR	2011
2:19.97 DIANE GRANER	USA	1989
2:20.76 MONIQUE RODAHL	NZL	1989
2:20.88 ALISON SHEPPARD	GBR	1998
2:22.41 LIA OBERSTAR	USA	2004
2:23.12 LEONIE VAN NOORT	NED	2018
2:23.93 VALENTINA LUCCONI	ITA	2017
50 M. BRST		
31.60 MEGAN JENDRICK	USA	2010
32.01 S.SEMINATORE	ITA	1989
32.03 ANNA KUZMICHEVA	RUS	2015
32.65 NICOLE HEIDEMANN	GER	2009
32.68 MONICA ALVAREZ	COL	2016
32.75 YOSHIMI MIWA	JPN	2012
32.79 MANUELA NACKEL	GER	2000
32.83 SONJA SCHOBBER	GER	2012
33.01 RACHAEL WILSON	GBR	2016
33.02 ZUZANA MIMOVICOVA	SVK	2017
33.02 SUVU PULKINEN	FIN	2016
100 M. BRST		
1:10.56 MEGAN JENDRICK	USA	2010
1:10.63 RACHAEL WILSON	GBR	2016
1:12.09 BRIGITTE BECUE	BEL	2000
1:12.34 MONICA ALVAREZ	COL	2016
1:12.37 NICOLE HEIDEMANN	GER	2011
1:12.65 HITOMI MATSUDA	JPN	2006
1:12.91 LOUISE DALGAARD	DEN	2018
1:13.02 ELISA CELLI	ITA	2019
1:13.03 ZUZANA MIMOVICOVA	SVK	2017
1:13.07 SIRI KRISTIANSEN	NOR	2018
200 M. BRST		
2:35.46 HITOMI MATSUDA	JPN	2006
2:35.82 NICOLE HEIDEMANN	GER	2009
2:37.68 ULRIKE GERNER	GER	2012
2:37.68 KATIE HENDERSON	GBR	2009
2:38.21 DESIREE WEVER	GER	2019
2:38.22 KATJA BRASCHLOSS	GER	2006
2:38.52 JULIA DAMMANN	GER	2017
2:39.40 BRITTA O'LEARY	USA	2012
2:40.10 MARISSA CLAPP	USA	2015
2:40.38 CAMILLE MARCHAND	FRA	2016
50 M. FLY		
26.32 MASAKO KUROKI	JPN	2019
27.10 EMMA GAGE	GBR	2015
27.14 MAY ATEF	EGY	2019
27.28 YUKA KATO	JPN	2015
27.29 ANNA POLYAKOVA	RUS	2015
27.46 V.VLADYKINA	RUS	2015

27.55 ELZANNE WERTH	RSA	2015
27.57 DARYA NADZHAFOVA	UKR	2018
27.63 MOTOMI NAKAMURA	JPN	2013
27.66 A.LYAZEVA	RUS	2018
100 M. FLY		
59.99 ANNA POLYAKOVA	RUS	2015
1:00.07 MASAKO KUROKI	JPN	2019
1:00.11 GIADA CANAVESI	ITA	2019
1:01.04 RACHEL KOMISARZ	USA	2001
1:01.40 HANNAH SAIZ	USA	2017
1:01.93 EMMA GAGE	GBR	2015
1:02.10 B.STUDZINSKI	GER	2014
1:02.25 P.KITTIYA	THA	2019
1:02.57 CAROLINA COLORADO	COL	2016
1:02.73 YUKO NAKANISHI	JPN	2010
200 M. FLY		
2:15.02 HANNAH SAIZ	USA	2017
2:16.82 KIM VAN KRUYSSEN	BEL	2000
2:17.51 SHEILA TAORMINA	USA	1996
2:17.56 YUKO NAKANISHI	JPN	2010
2:17.79 P.KITTIYA	THA	2019
2:18.69 S.PALMERWHITE	AUS	1992
2:18.80 CHIZUKO UMIGUCHI	JPN	1997
2:20.61 LISA STAMM	SUI	2017
2:20.72 HELEN SLATTER	GBR	1996
2:21.27 HITOMI MATSUDA	JPN	2006
200 M. I.M.		
2:19.65 MARGOT JANDEL	GER	2003
2:20.71 HITOMI MATSUDA	JPN	2005
2:21.84 SVETLANA KARPEEVA	RUS	2012
2:21.98 ALLISON WAGNER	USA	2005
2:22.00 SHARRON DAVIES	GBR	1990
2:22.57 B.STUDZINSKI	GER	2014
2:22.89 MONIQUE RODAHL	NZL	1989
2:22.92 BRITTA O'LEARY	USA	2013
2:23.39 RACHEL RIPLEY	USA	2019
2:23.76 ALISON SHEPPARD	GBR	1998
400 M. I.M.		
4:59.94 SABRINA MARZAHN	GER	2016
5:02.78 HITOMI MATSUDA	JPN	2006
5:04.80 ANNA SPIETZACK	GER	2015
5:05.29 SHARRON DAVIES	GBR	1990
5:06.34 SARA L SHAND	USA	1989
5:06.37 V.KOLNIKOVA	SVK	2018
5:07.04 MARIANGEL HIDALGO	CRC	2014
5:07.27 MAREN SPIETZACK	GER	2015
5:07.87 MARISSA CLAPP	USA	2015
5:07.94 LISA STAMM	SUI	2017

WOMEN 30-34

50 M. FREE		
25.74 MARTINA MORAVCOVA	USA	2009
25.99 TONI JEFFS	NZL	2002
26.02 IRINA SHLEMOVA	RUS	2015
26.12 S.KNYAGININA	RUS	2015
26.18 KATRINA RADKE	USA	2004
26.25 ANGEL MARTINO	USA	2000
26.29 A-L.ARASSUS	FRA	2016
26.37 S.NEILSON-BELL	USA	1988
26.38 PEGGY GROSS	USA	2002
26.44 SUVU PULKINEN	FIN	2019
100 M. FREE		
55.24 ERIKA ERNDL	USA	2009
55.62 MARTINA MORAVCOVA	USA	2008
56.89 N.JUNKRAJANG	THA	2019
57.09 ANGEL MARTINO	USA	2000
57.65 IRINA SHLEMOVA	RUS	2015
58.01 PASCALE VERBAUWEN	BEL	1993
58.09 SANDY NEILSON	USA	1988
58.20 HITOMI MATSUDA	JPN	2010



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58.25	KATJA OTTO	GER	2014	2:18.76	SOPHIE CASSON	GBR	2017	2:23.35	MELISSA VARLAS	USA	2005
58.30	KATY SEXTON	GBR	2012	2:21.26	DIANE GALLAS	USA	1996	200 M. I.M.			
200 M. FREE				2:22.52	JOANNA CORBEN	GBR	2002	2:13.89	ERIKA ERNDL	USA	2009
2:02.35	N.JUNKRAJANG	THA	2019	2:23.00	KELLY HARRIGAN	USA	2018	2:19.28	HITOMI MATSUDA	JPN	2010
2:04.05	DAWN HECKMAN	USA	2011	2:23.47	DAPHNE FUCHS	GER	1993	2:21.28	N.VINOKURENKOVA	RUS	2013
2:04.62	HITOMI MATSUDA	JPN	2009	2:23.56	ROBERTA IOPPI	ITA	2016	2:23.12	KARLYN PIPES	USA	1996
2:05.51	VERONICA BALSANO	BRA	2019	2:23.67	RACHAEL KEIR	GBR	2016	2:23.35	ALICIA HALE	USA	2018
2:05.91	CAROLINE SAXBY	AUS	2013	50 M. BRST				2:23.50	SARABETH METZGER	USA	2009
2:05.97	SOPHIE CASSON	GBR	2017	31.88	PETRA CHOCOVA	CZE	2018	2:23.70	VERONICA BALSANO	BRA	2019
2:06.80	KARLYN PIPES	USA	1996	32.22	NICOLE HEIDEMANN	GER	2013	2:23.94	MAREN SPIETZACK	GER	2017
2:06.91	MEGAN MELGAARD	USA	2012	32.40	N.VINOKURENKOVA	RUS	2015	2:24.12	NADINE DAY	USA	2004
2:07.46	BETTINA MERKLE	GER	2019	32.42	HITOMI MATSUDA	JPN	2009	2:24.54	MARISSA CLAPP	USA	2017
2:07.84	BETH KNIGHT	USA	1989	32.77	YUKO SAKAGUCHI	JPN	2009	400 M. I.M.			
400 M. FREE				32.84	ASAMI KITAGAWA	JPN	2018	4:56.08	HITOMI MATSUDA	JPN	2009
4:18.63	DAWN HECKMAN	USA	2011	32.94	GEORGINA HEYN	GBR	2018	5:00.76	VERONICA BALSANO	BRA	2019
4:22.91	SOPHIE CASSON	GBR	2017	33.15	LARISSA BRAK	NED	2019	5:02.23	N.VINOKURENKOVA	RUS	2014
4:23.98	N.JUNKRAJANG	THA	2019	33.20	KATIE MCCLELLAND	USA	2008	5:03.97	KARLYN PIPES	USA	1996
4:25.60	HITOMI MATSUDA	JPN	2008	33.32	LAURA HOLT	USA	2014	5:04.67	MAREN SPIETZACK	GER	2017
4:26.50	MEGAN MELGAARD	USA	2012	100 M. BRST				5:04.97	MARISSA CLAPP	USA	2017
4:27.11	CAROLINE SAXBY	AUS	2013	1:10.10	HITOMI MATSUDA	JPN	2009	5:05.05	HIDEKA KOSHIMIZU	JPN	1995
4:27.11	KIRSTEN CAMERON	NZL	2007	1:11.49	N.VINOKURENKOVA	RUS	2015	5:05.45	CHELSEA COLWILL	USA	2018
4:28.33	PILAR GEIJO	ARG	2014	1:11.98	NICOLE HEIDEMANN	GER	2013	5:07.26	ALICIA HALE	USA	2019
4:28.76	KARLYN PIPES	USA	1996	1:12.87	LOUISE HENLEY	GBR	2018	5:09.32	ANNA SPIETZACK	GER	2017
4:30.38	BETH L KNIGHT	USA	1991	1:13.20	GEORGINA HEYN	GBR	2018				
800 M. FREE				1:13.29	KATIE MCCLELLAND	USA	2008	*****			
8:46.47	DAWN HECKMAN	USA	2011	1:13.32	SUSANNE HOCK	GER	2014	WOMEN 35-39			
8:58.94	SOPHIE CASSON	GBR	2017	1:13.68	LARISSA BRAK	NED	2018	*****			
9:00.00	N.JUNKRAJANG	THA	2019	1:13.76	ELENA PICCARDO	ITA	2019	50 M. FREE			
9:13.22	KIRSTEN CAMERON	NZL	2007	1:13.81	SARRA LAJNEF	UAE	2019	25.98	DARA TORRES	USA	2006
9:16.82	LYNN MARSHALL	CAN	1992	200 M. BRST				26.53	EDITH OTTERMANN	RSA	2004
9:17.54	YVETTA HLAVACOVA	CZE	2005	2:28.93	HITOMI MATSUDA	JPN	2009	26.58	OLESSIA BOUROVA	ITA	2017
9:19.96	SUSAN PORTER	USA	1994	2:35.90	N.VINOKURENKOVA	RUS	2014	26.63	EKATERINA YUDINA	RUS	2013
9:20.20	BETH L KNIGHT	USA	1991	2:37.66	PETRA CHOCOVA	CZE	2018	26.65	ERIKA BRAUN	USA	2011
9:21.60	KELLY HIGGINS	AUS	2011	2:38.90	MARISSA CLAPP	USA	2017	26.66	TRACIE MOLL	USA	1999
9:22.73	KAREN BURTON	USA	1996	2:39.37	SUSANNE HOCK	GER	2014	26.68	S.NEILSON-BELL	USA	1996
1500 M. FREE				2:39.71	NICOLE HEIDEMANN	GER	2013	26.77	IRINA SHLEMOVA	RUS	2019
17:11.25	HEIDI GEORGE	USA	2009	2:40.45	ELENA PICCARDO	ITA	2019	26.78	NORIKO INADA	USA	2014
17:20.55	SOPHIE CASSON	GBR	2017	2:40.90	A.JANITZKI	GER	2010	26.78	SANDRA KAZIKOVA	CZE	2012
17:32.48	DAWN HECKMAN	USA	2008	2:41.42	BELEN DOMENECH	ESP	2016	100 M. FREE			
17:38.70	KAREN BURTON	USA	1996	2:41.51	WENKE HANSEN	USA	1999	58.09	ERIKA ERNDL	USA	2016
17:43.52	KIRSTEN CAMERON	NZL	2007	50 M. FLY				58.22	LAURA ROCA	ESP	2015
17:48.42	YUREMA REQUENA	ESP	2014	27.48	MARTINA MORAVCOVA	USA	2009	58.87	HITOMI MATSUDA	JPN	2012
17:48.44	K.PIPES-NEILSEN	USA	1996	27.59	ANGEL MARTINO	USA	2000	58.87	S.NEILSON-BELL	USA	1995
17:48.60	LISA HAZEN	USA	1996	27.61	NORIKO INADA	USA	2012	58.94	BETH KNIGHT	USA	1994
17:53.12	BROOKE BENNETT	USA	2012	27.73	NADINE ROLLAND	CAN	2008	59.16	SHERI HART	USA	2006
17:53.28	HITOMI MATSUDA	JPN	2007	27.75	SUVI PULKKINEN	FIN	2019	59.20	TRACIE MOLL	USA	1999
50 M. BACK				28.04	IRINA SHLEMOVA	RUS	2015	59.21	K.PIPES-NEILSEN	USA	1997
28.57	NORIKO INADA	USA	2012	28.06	S.KNYAGININA	RUS	2015	59.26	MEGAN OESTING	USA	2009
28.95	MAI NAKAMURA	JPN	2009	28.15	V.VLADYKINA	RUS	2017	59.27	JANA KLUSACKOVA	CZE	2016
29.55	MARTINA MORAVCOVA	USA	2009	28.16	ANGELA TAVERNIER	FRA	2014	200 M. FREE			
29.70	KANA OHASHI	JPN	2009	28.16	MANUELA MORANO	ARG	2019	2:05.97	ERIKA ERNDL	USA	2016
29.84	KATY SEXTON	GBR	2013	100 M. FLY				2:06.62	K PIPES-NEILSEN	USA	1998
30.32	KANA YAMAGUCHI	JPN	2011	58.81	MARTINA MORAVCOVA	USA	2008	2:07.64	SHEILA TAORMINA	USA	2006
30.34	KELLY HARRIGAN	USA	2018	1:00.03	ANGEL MARTINO	USA	2000	2:07.99	HITOMI MATSUDA	JPN	2012
30.39	SUVI PULKKINEN	FIN	2019	1:01.19	L. CARVALHO	AUS	2010	2:08.71	TRACIE MOLL	USA	1999
30.45	NADINE ROLLAND	CAN	2008	1:01.79	HITOMI MATSUDA	JPN	2009	2:08.75	KIRSTEN CAMERON	NZL	2009
30.51	VENDULA ANTOSOVA	CZE	2017	1:03.25	ANNA POLYAKOVA	RUS	2018	2:08.93	CLAUDIA POLL	CRC	2010
100 M. BACK				1:03.76	B.BOULSEVICZ	HUN	2017	2:08.93	BETH KNIGHT	USA	1994
1:01.78	NORIKO INADA	USA	2011	1:03.93	TRACIE MOLL	USA	1998	2:09.33	SUSAN HALFACRE	USA	1988
1:03.30	KATY SEXTON	GBR	2012	1:04.06	VERENA KLOCKER	AUT	2015	2:09.58	LAURA ROCA	ESP	2016
1:03.78	SARABETH METZGER	USA	2009	1:04.08	LAURA BIANZANI	ITA	2004	400 M. FREE			
1:04.40	KANA OHASHI	JPN	2009	1:04.19	MARINA FALCONE	USA	2017	4:25.68	KIRSTEN CAMERON	NZL	2009
1:04.97	KELLY HARRIGAN	USA	2014	200 M. FLY				4:26.17	K.PIPES-NEILSEN	USA	1997
1:05.42	DIANE GALLAS	USA	1996	2:13.60	METTE JACOBSEN	DEN	2006	4:29.56	HITOMI MATSUDA	JPN	2012
1:05.50	IRYNA BOLSHAKOVA	UKR	2018	2:20.07	EVGUENIA OJOGUINA	RUS	1999	4:31.35	BETH KNIGHT	USA	1994
1:05.54	KARLYN PIPES	USA	1996	2:20.12	KARLYN PIPES	USA	1996	4:32.57	SHEILA TAORMINA	USA	2006
1:06.35	VENDULA ANTOSOVA	CZE	2017	2:21.24	YUKIE UBUKATA	JPN	2012	4:33.08	SUSAN HALFACRE	USA	1988
1:06.63	KATIE BIRCHALL	GBR	2012	2:21.46	LAURA BIANZANI	ITA	2004	4:34.20	SUSAN PAMELIA	USA	1987
200 M. BACK				2:21.50	HITOMI MATSUDA	JPN	2007	4:34.43	CINDY BERTELINK	CAN	2014
2:17.61	SARABETH METZGER	USA	2009	2:22.57	HIDEKA KOSHIMIZU	JPN	1995	4:34.95	HEIDI GEORGE	USA	2015
2:17.73	KARLYN PIPES	USA	1996	2:22.65	VIKTORIA FELFOLDI	HUN	2018	4:35.19	VALERIA VERGANI	ITA	2006
2:18.05	KANA YAMAGUCHI	JPN	2012	2:23.26	MARTIE MC KINNEY	USA	1995	800 M. FREE			



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9:05.15	KIRSTEN CAMERON	NZL	2009	1:13.81	CAROLINE KRATTLI	USA	2001	WOMEN 40-44	
9:13.49	SHEILA TAORMINA	USA	2006	1:14.50	CLAIRE ROLT	RSA	2017	*****	
9:14.67	HEIDI GEORGE	USA	2015	1:14.65	LINLEY FRAME	AUS	2010	50	M. FREE
9:16.20	K.PIPES-NEILSEN	USA	1997	1:14.73	ERIKA ERNDL	USA	2016	25.68	DARA TORRES USA 2011
9:20.62	BETH KNIGHT	USA	1994	200	M. BRST			26.44	EDITH OTTERMANN RSA 2009
9:24.54	SUSAN HALFACRE	USA	1988	2:35.40	HITOMI MATSUDA	JPN	2012	26.53	ERIKA BRAUN USA 2015
9:25.54	PENNY BOND	AUS	1998	2:38.95	NICOLE HEIDEMANN	GER	2017	26.64	INGE DE BRUIJN NED 2013
9:26.17	JACQUI ROBINSON	AUS	2008	2:39.78	KATIE GLENN	USA	2013	26.88	MARIA DOELGER USA 2003
9:27.41	HITOMI MATSUDA	JPN	2012	2:40.63	CYNTHIA LEWIS	USA	2013	26.95	JUNKO NAKANO JPN 2008
9:27.70	VALERIA VERGANI	ITA	2006	2:41.51	YUKO MORITA	JPN	2012	26.97	ELIZABETH EMERY USA 2002
1500	M. FREE			2:41.76	CAROLINE KRATTLI	USA	2001	27.18	JENNIE BUCKNELL AUS 2009
17:17.22	HEIDI GEORGE	USA	2015	2:41.81	N.VINOKURENKOVA	RUS	2018	27.24	OLESSIA BOUROVA ITA 2019
17:31.97	KIRSTEN CAMERON	AUS	2012	2:43.74	CAROLINA BENEYTO	ESP	2015	27.28	ANN WORTHINGTON USA 2006
17:46.58	K PIPES-NEILSEN	USA	2000	2:45.52	CLAIRE ROLT	RSA	2017	100	M. FREE
17:54.74	HITOMI MATSUDA	JPN	2012	2:45.79	SATSUKI HIRUKAWA	JPN	2015	58.04	ERIKA BRAUN USA 2013
17:57.14	EMMA WILLS	GBR	2017	50	M. FLY			58.43	MARIA DOELGER USA 2003
17:59.12	BETH KNIGHT	USA	1994	27.46	NORIKO INADA	USA	2014	59.13	ELIZABETH EMERY USA 2002
18:07.43	LYNN MARSHALL	CAN	1996	28.03	LYNNE HAYES	AUS	2009	59.59	K PIPES-NEILSEN USA 2004
18:09.11	CAROLINA BENEYTO	ESP	2014	28.20	J.GOLEBIEWSKA	POL	2017	59.63	RAAKEL LUOTO FIN 2016
18:09.36	LISA HAZEN	USA	1999	28.25	ANNA DUDA	POL	2017	1:00.31	F.TRAVAGLINI ITA 2016
18:12.11	SUSAN PAMELIA	USA	1987	28.25	R.CRESCENTINI	ITA	2011	1:00.32	BARBARA KEHBEIN GER 2013
50	M. BACK			28.32	TRACIE MOLL	USA	1999	1:00.39	BEVERLEY MCCARNEY RSA 2004
28.63	NORIKO INADA	USA	2016	28.42	IRINA SHLEMOVA	RUS	2019	1:00.40	KATIE GLENN USA 2017
30.17	SHERI HART	USA	2010	28.63	MABI TSUKIOKA	JPN	2015	1:00.40	S.VON DER LIPPE USA 2009
30.47	ALENA NYVLTOVA	CZE	2017	28.67	JUNKO ONISHI	JPN	2010	200	M. FREE
30.89	KANA OHASHI	JPN	2013	28.68	CINDY ONG	SGP	2019	2:09.00	K PIPES-NEILSEN USA 2003
31.01	KANA MORIHISA	JPN	2017	100	M. FLY			2:09.78	KIRSTEN CAMERON GBR 2016
31.22	MARIA RIVERA	VEN	2010	1:02.44	LYNNE HAYES	AUS	2009	2:10.38	CINDY BERTELINK CAN 2017
31.24	GISELI PEREIRA	BRA	2011	1:03.08	ERIKA ERNDL	USA	2016	2:10.47	KATIE GLENN USA 2016
31.27	PASCALE VERBAUWEN	BEL	2001	1:03.52	MELANIA BUSSIÈRE	CAN	2008	2:10.50	S.VON DER LIPPE USA 2007
31.28	CINDY MABEE	CAN	2008	1:03.79	TRACIE MOLL	USA	1999	2:11.05	CLAUDIA POLL CRC 2014
31.31	K PIPES-NEILSEN	USA	1999	1:03.97	KRISTINA ULVELING	USA	2009	2:11.63	BARBARA KEHBEIN GER 2013
100	M. BACK			1:04.34	K PIPES-NEILSEN	USA	1998	2:12.24	AMANDA PICARD SUI 2008
1:01.75	NORIKO INADA	USA	2017	1:04.59	HITOMI MATSUDA	JPN	2014	2:12.75	SUSANNE SIMPSON USA 2002
1:04.99	SHERI HART	USA	2010	1:04.91	DEBBIE YOUNGER	CAN	2005	2:12.77	VALERIA VERGANI ITA 2013
1:05.41	K.PIPES-NEILSEN	USA	1997	1:05.02	PEGGY GROSS	USA	2004	400	M. FREE
1:05.58	KANA OHASHI	JPN	2013	1:05.31	ILDIKO SZEKELY	USA	2016	4:22.87	JANET EVANS USA 2011
1:06.34	KELLY HARRIGAN	USA	2019	200	M. FLY			4:28.24	KIRSTEN CAMERON GBR 2015
1:06.34	GISELI PEREIRA	BRA	2011	2:20.21	K.PIPES-NEILSEN	USA	1997	4:28.24	K PIPES-NEILSEN USA 2002
1:06.91	JODY SMITH	USA	2008	2:22.05	HITOMI MATSUDA	JPN	2012	4:34.33	AMANDA PICARD SUI 2008
1:07.44	C.J-SPONCELLER	SWE	2010	2:22.61	ILDIKO SZEKELY	USA	2016	4:34.33	SUSAN PRESTON USA 2006
1:07.47	KANA MORIHISA	JPN	2017	2:26.34	CARLA BECKMANN	GER	2019	4:34.43	KATIE GLENN USA 2016
1:07.79	JOANNA CORBEN	GBR	2005	2:26.36	SHEILA TAORMINA	USA	2006	4:35.74	PENNY PALFREY AUS 2002
200	M. BACK			2:26.38	LAURA B VAL	USA	1989	4:36.05	HEIDI GEORGE USA 2018
2:18.20	K.PIPES-NEILSEN	USA	1997	2:26.71	KRISTINA ULVELING	USA	2008	4:36.26	SUSAN DOMBKOWSKI USA 2006
2:19.98	NORIKO INADA	USA	2017	2:26.77	L. CARVALHO	AUS	2016	4:37.57	CINDY BERTELINK CAN 2017
2:20.67	KANA OHASHI	JPN	2013	2:27.21	NICOLA LATTY	GBR	2007	800	M. FREE
2:22.07	JODY SMITH	USA	2008	2:27.36	ANA PAULA GRILO	POR	2006	8:59.06	JANET EVANS USA 2011
2:22.85	KELLY HARRIGAN	USA	2019	200	M. I.M.			9:06.86	KIRSTEN CAMERON GBR 2015
2:22.92	SHERI HART	USA	2006	2:21.47	HITOMI MATSUDA	JPN	2012	9:21.16	HEIDI GEORGE USA 2017
2:23.47	JOANNA CORBEN	GBR	2005	2:22.42	K.PIPES-NEILSEN	USA	1997	9:24.77	K PIPES-NEILSEN USA 2002
2:24.52	PASCALE VERBAUWEN	BEL	1998	2:23.49	ERIKA ERNDL	USA	2016	9:24.90	PENNY PALFREY AUS 2002
2:26.32	TERRY RADAM	USA	2000	2:25.55	N.VINOKURENKOVA	RUS	2018	9:25.95	SUSAN PRESTON USA 2006
2:26.44	SILVIA PAROCCHI	ITA	2003	2:25.56	CYNTHIA LEWIS	USA	2013	9:25.95	SUZAN HEIM-BOWEN USA 2001
50	M. BRST			2:26.22	BRUNA BUMACHAR	BRA	2017	9:28.33	AMANDA PICARD SUI 2008
32.67	NICOLE HEIDEMANN	GER	2017	2:26.58	LAURA ROCA	ESP	2015	9:29.92	EMMA WILLS GBR 2019
32.86	KATIE GLENN	USA	2013	2:28.07	CAROLINE KRATTLI	USA	2001	9:30.66	VALERIA VERGANI ITA 2013
32.98	GEORGINA HEYN	GBR	2019	2:28.51	CLAUDIA POLL	CRC	2010	1500	M. FREE
33.10	R.CRESCENTINI	ITA	2011	2:28.83	SILVIA PAROCCHI	ITA	2004	17:29.43	HEIDI GEORGE USA 2017
33.24	HITOMI MATSUDA	JPN	2012	400	M. I.M.			17:31.51	KIRSTEN CAMERON GBR 2015
33.44	CLAIRE ROLT	RSA	2017	4:59.59	HITOMI MATSUDA	JPN	2012	17:55.28	REBECA SANTOS ESP 2018
33.49	CASEY KEIBER	USA	2016	5:02.67	K PIPES-NEILSEN	USA	1998	17:56.52	K PIPES-NEILSEN USA 2003
33.52	LINLEY FRAME	AUS	2010	5:15.05	LAUREEN WELTING	USA	2001	18:02.60	AMANDA PICARD SUI 2008
33.54	N.VINOKURENKOVA	RUS	2018	5:16.17	CYNTHIA LEWIS	USA	2011	18:07.10	VALERIA VERGANI ITA 2013
33.64	SYLVIA GERASCH	GER	2004	5:16.83	NADINE DAY	USA	2007	18:14.34	SUZ HEIM-BOWEN USA 1998
100	M. BRST			5:18.43	JILL HERNANDEZ	USA	1999	18:15.98	N.MUIR-COCHRANE GBR 2004
1:12.34	KATIE GLENN	USA	2013	5:18.68	CAROLINA BENEYTO	ESP	2014	18:25.26	JILL HERNANDEZ USA 2000
1:12.57	NICOLE HEIDEMANN	GER	2018	5:19.07	BRUNA BUMACHAR	BRA	2017	18:25.28	LYNN MARSHALL CAN 2002
1:12.75	CYNTHIA LEWIS	USA	2013	5:19.41	CINDY BERTELINK	CAN	2014	50	M. BACK
1:12.77	HITOMI MATSUDA	JPN	2012	5:19.77	KATHERINE VEALE	GBR	2001	29.62	NORIKO INADA USA 2018
1:13.28	N.VINOKURENKOVA	RUS	2018	*****				30.35	RAAKEL LUOTO FIN 2018
1:13.67	GEORGINA HEYN	GBR	2019					30.89	MARIA RIVERA VEN 2013



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

31.05	KANA MORIHISA	JPN	2019	29.29	CINDY BERTELINK	CAN	2017	200 M. FREE		
31.38	ERIKA BRAUN	USA	2015	29.29	MARIA DOELGER	USA	2003	2:10.09	K.PIPES-NEILSEN	USA 2009
31.49	CINDY MABEE	CAN	2009	100 M. FLY				2:11.84	KIRSTEN CAMERON	AUS 2018
31.52	GISELI PEREIRA	BRA	2013	1:03.36	S.VON DER LIPPE	USA	2009	2:12.76	BETH LUTZ KNIGHT	USA 2005
31.58	MICHELLE WARE	GBR	2017	1:04.74	K PIPES-NEILSEN	USA	2003	2:13.00	MERELE LOVBERG	NOR 2016
31.63	JODY SMITH	USA	2009	1:05.33	SILVIA PAROCCHI	ITA	2007	2:13.17	SUZANN HEIM-BOWEN	USA 2003
31.69	JUNKO NAKANO	JPN	2008	1:05.61	BETH BAKER	USA	2001	2:13.27	ELENE JONES	USA 2009
100 M. BACK				1:05.75	ERIKA BRAUN	USA	2015	2:13.55	REBECCA PERROTT	NZL 2008
1:04.70	NORIKO INADA	USA	2018	1:05.80	BEVERLEY MCCARNEY	RSA	2004	2:13.85	JILL HERNANDEZ	USA 2005
1:06.32	RAAKEL LUOTO	FIN	2017	1:05.85	ILDIKO SZEKELY	USA	2019	2:13.87	BARBARA KEHBEIN	GER 2014
1:07.06	CINDY MABEE	CAN	2009	1:05.91	GABRIELA KOSTKOVA	CZE	2019	2:13.96	CLAUDIA POLL	CRC 2018
1:07.21	JODY SMITH	USA	2009	1:06.27	LAURA VAL	USA	1992	400 M. FREE		
1:07.24	KANA MORIHISA	JPN	2018	1:06.30	FRAUKE LABARRE	GER	2018	4:35.00	KIRSTEN CAMERON	AUS 2018
1:07.69	K PIPES-NEILSEN	USA	2003	200 M. FLY				4:35.84	K.PIPES-NEILSEN	USA 2008
1:07.75	GISELI PEREIRA	BRA	2013	2:24.77	K PIPES-NEILSEN	USA	2003	4:37.74	ELENE JONES	USA 2009
1:08.21	SYLVIE ALLERY	FRA	2009	2:24.78	S.VON DER LIPPE	USA	2006	4:38.20	CLAUDIA POLL	CRC 2018
1:08.32	HELEN WHITFORD	AUS	2008	2:25.15	SUSAN PRESTON	USA	2006	4:39.20	SUZANN HEIM-BOWEN	USA 2003
1:08.33	KRISTIN GARY	USA	2008	2:25.36	ILDIKO SZEKELY	USA	2019	4:40.35	VALERIA VERGANI	ITA 2016
200 M. BACK				2:26.65	KINCISO VENCZEL	HUN	2017	4:41.63	LYNN MARSHALL	CAN 2010
2:23.18	SILVIA PAROCCHI	ITA	2009	2:27.20	NICOLA LATTY	GBR	2012	4:42.67	TIZIANA PAPANDREA	ITA 2019
2:23.18	JODY SMITH	USA	2009	2:29.11	KAREN HIGGISON	AUS	2009	4:43.14	SUSANNE SIMPSON	USA 2008
2:23.64	K PIPES-NEILSEN	USA	2003	2:29.37	SUSANNE SIMPSON	USA	2002	4:44.23	C.PETERSEN	USA 2009
2:24.14	KANA MORIHISA	JPN	2018	2:29.81	BETH BAKER	USA	2001	800 M. FREE		
2:27.07	NORIKO INADA	USA	2018	2:30.42	ANA PAULA GRILO	ESP	2009	9:24.11	K.PIPES-NEILSEN	USA 2007
2:27.11	HELEN WHITFORD	AUS	2008	200 M. I.M.				9:24.53	SUZANN HEIM-BOWEN	USA 2003
2:27.78	JOANNA CORBEN	GBR	2010	2:25.03	S.VON DER LIPPE	USA	2007	9:31.81	KIRSTEN CAMERON	AUS 2018
2:28.36	KRISTIN GARY	USA	2008	2:25.38	K PIPES-NEILSEN	USA	2003	9:36.86	ELENE JONES	USA 2008
2:30.17	ELLEN REYNOLDS	USA	2008	2:25.81	LISA BLACKBURN	USA	2015	9:37.20	VALERIA VERGANI	ITA 2016
2:30.37	GISELI PEREIRA	BRA	2012	2:26.84	S.MARINOVIC	CRO	2019	9:39.96	ALISON ZAMANIAN	USA 2019
50 M. BRST				2:28.17	CYNTHIA LEWIS	USA	2016	9:40.27	LYNN MARSHALL	CAN 2008
32.32	LINLEY FRAME	AUS	2013	2:29.80	CAROLINE KRATTLI	USA	2002	9:40.64	CLAUDIA KERN	GER 2009
32.47	KATIE GLENN	USA	2016	2:30.15	KANA MORIHISA	JPN	2018	9:43.99	SUSANNA ROSEN	SWE 2009
33.25	S.VON DER LIPPE	USA	2006	2:30.25	CLAUDIA POLL	CRC	2014	9:45.30	DIANNA EVA SZOKOL	HUN 2016
33.44	S.BONDARENKO	UKR	2011	2:30.33	HELEN GORMAN	GBR	2014	1500 M. FREE		
33.46	ISABEL FIGUEIRA	POR	2019	2:30.33	SHEILA TRELEAVEN	CAN	2014	17:55.83	SUZANN HEIM-BOWEN	USA 2003
33.79	CAROLINE KRATTLI	USA	2002	400 M. I.M.				18:07.84	KIRSTEN CAMERON	AUS 2018
33.86	LISA BLACKBURN	USA	2013	5:09.83	K PIPES-NEILSEN	USA	2004	18:10.28	ELENE JONES	USA 2008
33.90	S.MARINOVIC	CRO	2018	5:20.12	CYNTHIA LEWIS	USA	2016	18:12.63	LYNN MARSHALL	CAN 2009
34.20	S.SEMINATORE	ITA	2004	5:21.32	JILL HERNANDEZ	USA	2000	18:27.15	ALISON ZAMANIAN	USA 2019
34.33	CYNTHIA LEWIS	USA	2017	5:21.42	LISA BLACKBURN	USA	2014	18:40.27	LAURIE HUG	USA 2012
100 M. BRST				5:21.87	MARZENA KULIS	ITA	2006	18:44.29	K.PIPES-NEILSEN	USA 2008
1:11.31	LINLEY FRAME	AUS	2013	5:21.95	VALERIA VERGANI	ITA	2012	18:54.47	MAITE GARCIA	ESP 2011
1:13.34	S.VON DER LIPPE	USA	2006	5:22.84	HITOMI MATSUDA	JPN	2017	18:55.07	DIANNA SZOKOL	HUN 2017
1:13.55	CYNTHIA LEWIS	USA	2015	5:22.96	ANA PAULA GRILO	ESP	2009	18:55.86	JILL GELLATLY	USA 2012
1:13.57	KATIE GLENN	USA	2016	5:23.73	DAWN PALMER	GBR	2017	50 M. BACK		
1:13.82	CAROLINE KRATTLI	USA	2002	5:24.50	ANGELA DELISSEN	GER	2008	31.02	CINDY MABEE	CAN 2016
1:14.06	S.MARINOVIC	CRO	2018	*****				31.34	ANDREA KUTZ	GER 2017
1:14.12	S.BONDARENKO	UKR	2012	WOMEN 45-49				31.71	ELLEN REYNOLDS	USA 2012
1:14.15	LISA BLACKBURN	USA	2014	*****				31.71	VALERIE JENKINS	USA 2008
1:14.71	HELEN GORMAN	GBR	2014	50 M. FREE				31.85	SUSAN WALSH	USA 2007
1:14.90	MARZENA KULIS	ITA	2006	26.59	EDITH OTTERMANN	RSA	2011	31.94	SYLVIE ALLERY	FRA 2014
200 M. BRST				27.04	M.FUZZATI	FRA	2013	31.99	LESLIE LIVINGSTON	USA 2009
2:38.44	S.VON DER LIPPE	USA	2006	27.09	ERIKA BRAUN	USA	2017	32.02	FALL WILLEBOORDSE	USA 2013
2:40.76	H.MORRIS-EYTON	RSA	2010	27.09	MELANIE THOMAS	USA	2015	32.07	ERIKA BRAUN	USA 2017
2:40.86	LINLEY FRAME	AUS	2014	27.26	JENNIE BUCKNELL	AUS	2012	32.08	SHIZUKO HIRAISHI	JPN 2009
2:40.87	S.MARINOVIC	CRO	2019	27.44	SUSAN WALSH	USA	2007	100 M. BACK		
2:42.06	CAROLINE KRATTLI	USA	2002	27.61	LISA BLACKBURN	USA	2016	1:07.04	JOANNA CORBEN	GBR 2019
2:42.90	HELEN GORMAN	GBR	2014	27.67	FALL WILLEBOORDSE	USA	2011	1:07.31	CINDY MABEE	CAN 2016
2:43.17	MARZENA KULIS	ITA	2006	27.68	ANETTE PHILIPSSON	SWE	2012	1:08.11	K.PIPES-NEILSEN	USA 2009
2:43.82	KATIE GLENN	USA	2017	27.76	BRIGITTE HEUER	USA	2006	1:08.55	ELLEN REYNOLDS	USA 2010
2:44.44	LISA BLACKBURN	USA	2013	100 M. FREE				1:08.82	KRISTIN GARY	USA 2014
2:45.53	HITOMI MATSUDA	JPN	2017	57.40	MELANIE THOMAS	USA	2015	1:09.00	GISELI PEREIRA	BRA 2017
50 M. FLY				59.68	ERIKA BRAUN	USA	2018	1:09.20	SYLVIE ALLERY	FRA 2014
28.36	ERIKA BRAUN	USA	2013	59.79	K.PIPES-NEILSEN	USA	2007	1:09.41	SILVIA PAROCCHI	ITA 2012
28.52	S.VON DER LIPPE	USA	2009	1:00.05	M.FUZZATI	FRA	2013	1:09.42	C.J-SPONSELLER	SWE 2019
28.68	RAAKEL LUOTO	FIN	2017	1:00.16	SUSAN WALSH	USA	2007	1:09.51	FALL WILLEBOORDSE	USA 2013
28.87	NORIKO INADA	USA	2018	1:00.23	BARBARA KEHBEIN	GER	2014	200 M. BACK		
28.97	ELIZABETH EMERY	USA	2002	1:00.78	JENNIE BUCKNELL	AUS	2011	2:24.06	JOANNA CORBEN	GBR 2016
29.02	EDITH OTTERMANN	RSA	2010	1:00.95	BETH LUTZ KNIGHT	USA	2005	2:26.06	K.PIPES-NEILSEN	USA 2009
29.09	GABRIELA KOSTKOVA	CZE	2019	1:01.03	REBECCA PERROTT	NZL	2008	2:29.68	ELLEN REYNOLDS	USA 2013
29.13	SILVIA PAROCCHI	ITA	2007	1:01.13	LISA BLACKBURN	USA	2016	2:30.68	STEPHANIE STONE	USA 2015
29.24	MARIA RIVERA	VEN	2013					2:31.07	SILVIA PAROCCHI	ITA 2012



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

2:31.16	CLAUDIA POLL	CRC	2017	2:27.57	K.PIPES-NEILSEN	USA	2008	9:38.04	LYNN MARSHALL	CAN	2011
2:31.93	LISA WARD	USA	2009	2:28.42	WENKE SEIDER	USA	2014	9:48.81	S.HEIM-BOWEN	USA	2008
2:32.08	KRISTIN GARY	USA	2014	2:31.88	MARZENA KULIS	ITA	2009	9:52.39	C.THIELEMANN	GER	2019
2:32.12	HELEN WHITFORD	AUS	2012	2:31.95	REBECCA PERROTT	NZL	2008	9:52.55	LAURA VAL	USA	2002
2:33.51	SALLY BELL	AUS	2007	2:32.18	HELEN GORMAN	GBR	2017	9:53.57	JILL GELLATLY	USA	2017
50 M. BRST				2:32.43	BARBARA KEHBEIN	GER	2014	9:54.50	MAITE GARCIA	ESP	2015
33.56	LINLEY FRAME	AUS	2017	2:32.46	JILL HERNANDEZ	USA	2005	9:54.87	JANE ANN HOAG	ITA	2019
33.66	S.VON DER LIPPE	USA	2010	2:32.58	ELLEN REYNOLDS	USA	2012	9:58.93	PATRICIA CAMPBELL	USA	2017
33.98	CAROLINE KRATTLI	USA	2007	2:33.33	HIDEKO MAKINO	JPN	2018	9:59.18	MARGE CURRAN	USA	2013
34.05	MARZENA KULIS	ITA	2009	2:33.72	CINDY MABEE	CAN	2016	1500 M. FREE			
34.20	MONICA CORO	ITA	2011	400 M. I.M.				18:29.28	LYNN MARSHALL	CAN	2011
34.58	HELEN GORMAN	GBR	2019	5:13.85	K.PIPES-NEILSEN	USA	2008	18:32.76	S.HEIM-BOWEN	USA	2008
34.74	MAGGIE KELLY	GBR	2001	5:23.69	ELLEN REYNOLDS	USA	2013	18:50.67	JILL GELLATLY	USA	2017
34.89	S.BONDARENKO	UKR	2016	5:27.07	KINCISO VENCZEL	HUN	2019	18:57.82	JANE ANN HOAG	ITA	2017
34.91	SABINA VITALONI	ITA	2016	5:27.67	JILL HERNANDEZ	USA	2005	19:00.31	ELLEN REYNOLDS	USA	2018
35.10	KAREN KEY	GBR	2019	5:27.86	REBECCA PERROTT	NZL	2008	19:01.37	ENEY JONES	USA	2010
100 M. BRST				5:29.68	MARZENA KULIS	ITA	2009	19:03.05	NORMA CAHILL	IRL	2015
1:13.49	MARZENA KULIS	ITA	2009	5:30.74	STEPHANIE STONE	USA	2013	19:08.69	LAURA VAL	USA	2001
1:13.95	LINLEY FRAME	AUS	2016	5:32.02	HELEN WHITFORD	AUS	2012	19:13.43	C.THIELEMANN	GER	2018
1:14.41	S.VON DER LIPPE	USA	2010	5:32.27	JILL GELLATLY	USA	2014	19:13.59	JEANNE CARLSEN	CAN	2010
1:14.70	HELEN GORMAN	GBR	2018	5:32.69	ANGELA DELISSEN	GER	2012	50 M. BACK			
1:15.64	LISA BLACKBURN	USA	2016	*****				32.02	MARIE FUZZATI	FRA	2015
1:15.65	CAROLINE KRATTLI	USA	2007	*****				32.41	LESLIE LIVINGSTON	USA	2013
1:15.95	WENKE SEIDER	USA	2014	*****				32.50	ELLEN REYNOLDS	USA	2014
1:17.16	MONICA CORO	ITA	2011	*****				32.87	J SWAGERTY-HILL	USA	2002
1:17.83	KAREN KEY	GBR	2019	*****				32.88	FRANCA BOSISIO	ITA	2019
1:18.19	MAGGIE KELLY	GBR	2001	50 M. FREE				33.01	S.ZHIGUNOVA	RUS	2015
200 M. BRST				27.09	MARIE FUZZATI	FRA	2015	33.06	LISE LOTHE	NOR	2017
2:40.42	MARZENA KULIS	ITA	2009	27.41	EDITH OTTERMANN	RSA	2019	33.25	FALL WILLEBOORDSE	USA	2016
2:43.73	H.MORRIS-EYTON	RSA	2013	27.79	ANETTE PHILIPSSON	SWE	2015	33.26	K.ANDRUS-HUGHES	USA	2007
2:45.20	CAROLINE KRATTLI	USA	2007	27.95	JENNIE BUCKNELL	AUS	2018	33.28	SUSAN WILLIAMS	USA	2016
2:45.59	LINLEY FRAME	AUS	2016	28.17	FALL WILLEBOORDSE	USA	2016	100 M. BACK			
2:46.32	HELEN GORMAN	GBR	2019	28.22	LAURA VAL	USA	2001	1:09.28	ELLEN REYNOLDS	USA	2014
2:48.13	WENKE SEIDER	USA	2014	28.25	JENNY WHITELEY	AUS	2009	1:10.82	FALL WILLEBOORDSE	USA	2016
2:49.17	HIDEKO MAKINO	JPN	2019	28.33	DANIELA DE PONTI	ITA	2016	1:11.00	MARIE FUZZATI	FRA	2015
2:50.94	CLAUDIA KERN	GER	2009	28.40	FRANCA BOSISIO	ITA	2018	1:11.14	SILVIA PAROCCHI	ITA	2017
2:51.02	JUDIT HAJDU	AUT	2007	28.41	SARAH MACDONALD	CAN	2010	1:11.23	KRISTIN GARY	USA	2019
2:52.48	KAREN KEY	GBR	2019	28.41	ANGELA ZINGLER	GER	2005	1:11.78	K.PIPES-NEILSEN	USA	2012
50 M. FLY				100 M. FREE				1:11.83	LISE RAVEN LOTHE	NOR	2018
28.40	ERIKA BRAUN	USA	2017	1:00.42	MARIE FUZZATI	FRA	2015	1:12.35	STEPHANIE STONE	USA	2018
28.97	EDITH OTTERMANN	RSA	2011	1:01.13	LAURA VAL	USA	2001	1:12.42	HELEN WHITFORD	AUS	2017
29.04	WENKE SEIDER	USA	2014	1:01.51	ANETTE PHILIPSSON	SWE	2015	1:12.59	DIANE GOULD	USA	2019
29.12	S.VON DER LIPPE	USA	2010	1:02.08	LIZ DILLMANN	USA	2015	200 M. BACK			
29.33	IZABELA FRACZEK	POL	2017	1:02.25	H.WILLEBOORDSE	USA	2017	2:26.64	ELLEN REYNOLDS	USA	2014
29.33	YURIKO IKEDA	JPN	2017	1:02.31	S.HEIM-BOWEN	USA	2008	2:32.68	SILVIA PAROCCHI	ITA	2016
29.37	LAURIE DITOMMASO	USA	2009	1:02.49	DANIELA DE PONTI	ITA	2015	2:33.03	LYNN MARSHALL	CAN	2011
29.52	K.PIPES-NEILSEN	USA	2008	1:02.83	DIANE GOULD	USA	2019	2:34.09	STEPHANIE STONE	USA	2018
29.57	LISA DAHL	USA	2009	1:02.95	SARAH MACDONALD	CAN	2010	2:34.13	KRISTIN GARY	USA	2019
29.70	MICHELLE WARE	GBR	2018	1:02.95	SHANE GOULD	AUS	2008	2:35.55	K.PIPES-NEILSEN	FRA	2012
100 M. FLY				200 M. FREE				2:36.08	HELEN WHITFORD	AUS	2017
1:04.96	WENKE SEIDER	USA	2014	2:13.18	JILL HERNANDEZ	USA	2013	2:37.11	NAOKO SHIDE	JPN	2010
1:05.69	K.PIPES-NEILSEN	USA	2008	2:14.66	DIANE GOULD	USA	2019	2:37.54	LISE RAVEN LOTHE	NOR	2018
1:06.42	ARLENE DELMAGE	USA	2008	2:15.00	S.HEIM-BOWEN	USA	2008	2:38.56	JUDY BROWN	GBR	2016
1:06.45	ERIKA BRAUN	USA	2017	2:15.06	LIZ DILLMANN	USA	2015	50 M. BRST			
1:06.65	BIRGIT LOHBERG	USA	2010	2:15.37	LAURA VAL	USA	2001	34.18	MONICA CORO	ITA	2012
1:06.91	FRANCA BOSISIO	ITA	2014	2:15.83	ELLEN REYNOLDS	USA	2016	35.42	JENNY WHITELEY	AUS	2009
1:07.18	NATALIYA MATVEEVA	RUS	2010	2:16.01	MAITE GARCIA	ESP	2015	35.70	UTE HASSE	ESP	2015
1:07.28	YURIKO IKEDA	JPN	2018	2:16.52	JENNY WHITELEY	AUS	2009	36.24	MARZENA KULIS	ITA	2017
1:07.30	JILL HERNANDEZ	USA	2005	2:17.53	ENEY JONES	USA	2010	36.36	ANNA HAMMAR	SWE	2019
1:07.62	SHIZUKO HIRAISHI	JPN	2008	2:17.65	LYNN MARSHALL	CAN	2011	36.36	MARJA BLOEMZAAD	NED	2011
200 M. FLY				400 M. FREE				36.40	JUDY GARAY	CAN	2014
2:24.34	K.PIPES-NEILSEN	USA	2009	4:40.66	JILL HERNANDEZ	USA	2013	36.72	V.SCHLESINGER	GER	2019
2:27.71	KINCISO VENCZEL	HUN	2019	4:41.18	SUSAN PRESTON	USA	2016	36.73	JAN CLARKSON	AUS	2008
2:30.37	FRANCA BOSISIO	ITA	2014	4:41.19	LYNN MARSHALL	CAN	2011	36.90	ALBENA POPOVA	ITA	2012
2:31.37	LAURA VAL	USA	1998	4:42.37	S.HEIM-BOWEN	USA	2008	100 M. BRST			
2:31.87	ALISON ZAMANIAN	USA	2019	4:44.54	DIANE GOULD	USA	2019	1:15.50	MONICA CORO	ITA	2012
2:32.07	SUSANNE SIMPSON	USA	2006	4:47.34	MAITE GARCIA	ESP	2015	1:17.80	MARZENA KULIS	ITA	2016
2:32.38	TERESA GARCIA	ESP	2010	4:47.93	LAURA VAL	USA	2002	1:18.73	UTE HASSE	ESP	2015
2:32.51	NICOLA LATTY	GBR	2016	4:48.34	C.THIELEMANN	GER	2019	1:19.23	JENNY WHITELEY	AUS	2009
2:32.59	S. PALMER-WHITE	AUS	2009	4:48.62	ENEY JONES	USA	2010	1:21.29	JAN CLARKSON	AUS	2008
2:33.37	LYNN MARSHALL	CAN	2006	4:49.13	JILL GELLATLY	USA	2019	1:21.50	HANA BOHUSLAVKOVA	CZE	2018
200 M. I.M.				800 M. FREE				1:21.62	LAURA MOLINARI	ITA	2018
				9:34.12	SUSAN PRESTON	USA	2016				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:22.13	T.PROKOFIEVA	RUS	2015	*****	33.75	LAURA VAL	USA	2010				
1:22.23	CORRIN POPPS	USA	2014	50 M. FREE	34.11	S.ZHIGUNOVA	RUS	2019				
1:22.49	CORRIN BUCK	USA	2017	28.46	HOLLY GREEN BLAIR	USA	2019					
200 M. BRST				28.69	KARLYN PIPES	USA	2017					
2:50.89	MARZENA KULIS	ITA	2017	28.69	LAURA VAL	USA	2008					
2:50.92	MONICA CORO	ITA	2012	28.80	LESLIE LIVINGSTON	USA	2016					
2:54.00	ELLEN REYNOLDS	USA	2016	29.00	SARAH MACDONALD	CAN	2017					
2:55.15	JENNY WHITELEY	AUS	2008	29.32	CAROLA KHOURI	USA	2017					
2:57.01	KEIKO OKAMOTO	JPN	2019	29.33	HAYLEY BETTINSON	GBR	2019	1:09.69	HOLLY GREEN BLAIR	USA	2019	
2:57.10	CHIE MIYAMOTO	JPN	2019	29.36	HEATHER CAMPBELL	NZL	2008	1:11.06	ELLEN REYNOLDS	USA	2019	
2:57.39	H.MORRIS-EYTON	RSA	2018	29.37	DAWN COLEMAN	GBR	2018	1:11.23	KARLYN PIPES	USA	2017	
2:57.47	LAURA MOLINARI	ITA	2019	29.46	L.CASTRO NERI	MEX	2017	1:12.45	BONNIE BILICH	USA	2017	
2:57.58	JAN CLARKSON	AUS	2008	29.46	PAT SARGEANT	USA	2008	1:14.41	LAURA VAL	USA	2008	
2:58.60	CORRIN POPPS	USA	2014	100 M. FREE	1:14.75	JUDY BROWN	GBR	2019	1:15.51	JULIE HOYLE	GBR	2017
50 M. FLY				1:02.02	LAURA VAL	USA	2008	1:15.95	VALERIE JENKINS	USA	2019	
29.82	SUSAN WILLIAMS	USA	2016	1:02.70	JILL HERNANDEZ	USA	2015	1:16.66	JELENA KUNOVAC	USA	2019	
30.05	FRANCA BOSISIO	ITA	2019	1:02.98	HOLLY GREEN BLAIR	USA	2019	1:16.78	CATHY SHEEHAN	CAN	2015	
30.06	DANIELA DE PONTI	ITA	2016	1:03.11	ELLEN REYNOLDS	USA	2019	200 M. BACK				
30.17	MARIOLA KULIS	POL	2017	1:03.68	S.REIBEL-OBERLE	GER	2019	2:31.79	ELLEN REYNOLDS	USA	2019	
30.24	ANGELA ZINGLER	GER	2004	1:03.99	HEATHER CAMPBELL	NZL	2008	2:36.61	JUDY BROWN	GBR	2019	
30.29	ANETTE PHILIPSSON	SWE	2015	1:04.48	CAROLA KHOURI	USA	2017	2:37.77	KARLYN PIPES	USA	2017	
30.29	LESLIE LIVINGSTON	USA	2013	1:04.86	CATE JACKSON	GBR	2019	2:38.52	LYNN MARSHALL	CAN	2016	
30.34	LISA DAHL	USA	2012	1:04.89	M.CABELLO	ESP	2017	2:40.84	BONNIE BILICH	USA	2017	
30.39	EDITH OTTERMANN	RSA	2017	1:05.02	SARAH MACDONALD	CAN	2017	2:46.16	JULIE HOYLE	GBR	2017	
30.48	NATALIYA MATVEEVA	RUS	2015	200 M. FREE	2:46.64	JUDITH CROMJONGH	NED	2019	2:46.69	NAOKO SHIDE	JPN	2015
100 M. FLY				2:16.28	ELLEN REYNOLDS	USA	2019	2:46.85	KAZUMI MORI	JPN	2016	
1:07.80	JILL HERNANDEZ	USA	2011	2:16.28	LAURA VAL	USA	2009	2:47.01	S.REIBEL-OBERLE	GER	2019	
1:07.81	LAURA VAL	USA	2001	2:16.89	JILL HERNANDEZ	USA	2015	50 M. BRST				
1:08.00	FRANCA BOSISIO	ITA	2019	2:18.82	KARLYN PIPES	USA	2017	35.66	MONICA CORO	ITA	2017	
1:08.22	DANIELA DE PONTI	ITA	2016	2:19.07	LYNN MARSHALL	CAN	2016	36.59	PIA THULSTRUP	DEN	2017	
1:09.07	SILVIA PAROCCHI	ITA	2017	2:19.78	S.REIBEL-OBERLE	GER	2019	36.75	UTE HASSE	ESP	2018	
1:09.50	H.WILLEBOORDSE	USA	2017	2:20.38	R.PERROTT	NZL	2017	37.04	JENNY WHITELEY	AUS	2013	
1:09.90	ANETTE PHILIPSSON	SWE	2016	2:21.52	BARBARA GELLRICH	GER	2016	37.13	CAROLINE KRATTLI	USA	2017	
1:09.92	ROSIE SHEPPARD	USA	2019	2:22.19	M.CABELLO	ESP	2017	37.40	TERRI MACDOUGALL	CAN	2019	
1:10.11	ANDREA BLOCK	USA	2012	2:22.27	KIM O'GRADY	USA	2017	37.80	DAGMAR FRESE	GER	2014	
1:10.15	ELIZABETH WOOLNER	GBR	2017	400 M. FREE	4:43.41	LYNN MARSHALL	CAN	2016	37.92	SARAH MACDONALD	CAN	2017
200 M. FLY				4:43.41	LYNN MARSHALL	CAN	2016	38.05	SATOKO TOKITA	JPN	2018	
2:31.55	LAURA VAL	USA	2001	4:46.49	ELLEN REYNOLDS	USA	2019	38.10	HOLLY VAUGHN	USA	2017	
2:32.39	FRANCA BOSISIO	ITA	2019	4:46.69	JILL HERNANDEZ	USA	2015	100 M. BRST				
2:33.75	C.THIELEMAN	GER	2019	4:50.13	LAURA VAL	USA	2009	1:18.96	MARZENA KULIS	ITA	2019	
2:34.93	LYNN MARSHALL	CAN	2011	4:50.80	S.REIBEL-OBERLE	GER	2019	1:19.90	MONICA CORO	ITA	2017	
2:36.40	MAITE GARCIA	ESP	2015	4:56.25	KARLYN PIPES	USA	2017	1:20.82	PIA THULSTRUP	DEN	2016	
2:36.81	S. PALMER-WHITE	AUS	2015	4:56.44	KIM O'GRADY	USA	2017	1:21.21	CAROLINE KRATTLI	USA	2017	
2:37.91	S.REIBEL-OBERLE	GER	2014	4:57.92	S.HEIM-BOWEN	USA	2017	1:22.86	UTE HASSE	ESP	2019	
2:40.45	ANJA FRIEDRICH	GER	2017	4:58.01	ROBYN CROTTY	NZL	2017	1:23.16	JENNY WHITELEY	AUS	2013	
2:40.57	JUDITH HATTLE	GBR	2012	4:58.25	R.PERROTT	NZL	2017	1:24.55	TERRI MACDOUGALL	CAN	2019	
2:42.16	A.BIAGGI	ECU	2012	800 M. FREE	9:44.76	LYNN MARSHALL	CAN	2017	1:24.78	DAGMAR FRESE	GER	2014
200 M. I.M.				9:44.76	LYNN MARSHALL	CAN	2017	1:25.07	SARAH MACDONALD	CAN	2017	
2:31.02	ELLEN REYNOLDS	USA	2016	9:46.56	JILL HERNANDEZ	USA	2015	1:25.19	LO KNAPP	USA	2009	
2:34.32	K.PIPES-NEILSEN	FRA	2012	9:57.40	ELLEN REYNOLDS	USA	2019	200 M. BRST				
2:35.61	ANETTE PHILIPSSON	SWE	2016	10:04.92	S.REIBEL-OBERLE	GER	2019	2:58.83	MONICA CORO	ITA	2017	
2:36.05	SUSAN PRESTON	USA	2016	10:05.28	LAURA VAL	USA	2008	2:59.27	ELLEN REYNOLDS	USA	2019	
2:36.62	CECILIA STANFORD	RSA	2011	10:09.01	S. PALMER-WHITE	AUS	2019	3:01.66	CAROLINE KRATTLI	USA	2017	
2:36.78	DANIELA DEPONTI	ITA	2016	10:14.55	JEANNE CARLSEN	CAN	2013	3:01.70	PIA THULSTRUP	DEN	2016	
2:36.97	JILL HERNANDEZ	USA	2011	10:16.44	KIM O'GRADY	USA	2017	3:02.67	JENNY WHITELEY	AUS	2013	
2:37.79	C.THIELEMAN	GER	2019	10:17.89	S.HEIM-BOWEN	USA	2017	3:04.04	ESTHER ISEPPI	SUI	2013	
2:37.86	SILVIA PAROCCHI	ITA	2017	10:18.29	K.PALACE	USA	2016	3:04.32	LO KNAPP	USA	2009	
2:37.90	JENNY WHITELEY	AUS	2008	1500 M. FREE	18:36.30	ELLEN REYNOLDS	USA	2019	3:06.72	COLETTE CRABBE	BEL	2014
400 M. I.M.				18:36.30	ELLEN REYNOLDS	USA	2019	3:07.00	AMANDA HEATH	GBR	2012	
5:20.68	ELLEN REYNOLDS	USA	2014	18:46.00	LYNN MARSHALL	CAN	2016	3:07.28	KAREN MAREB	USA	2014	
5:30.32	JILL HERNANDEZ	USA	2013	19:14.70	LAURA VAL	USA	2007	50 M. FLY				
5:32.26	LYNN MARSHALL	CAN	2011	19:25.91	S.HEIM-BOWEN	USA	2016	30.52	LESLIE LIVINGSTON	USA	2016	
5:32.41	K.PIPES-NEILSEN	FRA	2012	19:27.15	KIM OGRADY	USA	2016	30.59	HOLLY GREEN BLAIR	USA	2018	
5:34.09	C.THIELEMAN	GER	2019	19:29.84	K.PALACE	USA	2016	30.97	TRACI GRANGER	USA	2013	
5:36.45	S.REIBEL-OBERLE	GER	2014	19:30.77	JEANNE CARLSEN	CAN	2013	31.02	KARLYN PIPES	USA	2017	
5:37.60	CECILLA STANFORD	RSA	2011	19:34.44	ROBYN CROTTY	NZL	2019	31.42	LAURA VAL	USA	2009	
5:38.02	HELEN WHITFORD	AUS	2017	19:44.07	S.REIBEL-OBERLE	GER	2019	31.60	MARIA NORBERG	SWE	2018	
5:39.36	MARZENA KULIS	ITA	2017	19:49.53	M.COUNTRYMAN	USA	2019	31.66	HAYLEY BETTINSON	GBR	2019	
5:40.27	NAOKO SHIDE	JPN	2011	50 M. BACK	31.99	HOLLY GREEN BLAIR	USA	2018	31.83	S.REIBEL-OBERLE	GER	2019
*****				31.99	HOLLY GREEN BLAIR	USA	2018	31.96	MARIA CABELLO	ESP	2017	
				32.36	KARLYN PIPES	USA	2017					
				33.08	LESLIE LIVINGSTON	USA	2016					
WOMEN 55-59												



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

32.02	M.CARMEN NAVARRO	ESP	2016	200 M. FREE		2:50.16	B.BARNETT-SALLEE	USA	2006		
100 M. FLY				2:21.03	JENNY WHITELEY	AUS	2019	2:51.24	LEIGH RODGERS	AUS	2016
1:09.47	LAURA VAL	USA	2009	2:21.48	LAURA VAL	USA	2012	2:52.05	DIANE COETZEE	RSA	2015
1:10.27	JILL HERNANDEZ	USA	2015	2:28.08	SUSAN RITTER	USA	2017	2:52.90	COLETTE CRABBE	BEL	2016
1:10.46	ANDREA BLOCK	USA	2016	2:28.34	BONNIE BILICH	USA	2018	2:54.25	JANET MCDONOUGH	USA	2018
1:11.85	KARLYN PIPES	USA	2018	2:28.60	VERONICA HIBBEN	USA	2016	50 M. BRST			
1:12.25	M.CARMEN NAVARRO	ESP	2016	2:29.54	SANDERINA KRUGER	RSA	2010	37.51	JENNY WHITELEY	AUS	2019
1:12.48	LYNN MARSHALL	CAN	2017	2:29.86	DIANE COETZEE	RSA	2016	37.79	DAGMAR FRESE	GER	2016
1:12.50	TRACI GRANGER	USA	2014	2:30.96	JACKI HIRSTY	USA	2014	38.48	MONIKA SENFTLEBEN	GER	2002
1:12.77	D.PEDACCHIOLA	ITA	2018	2:31.50	ROSARIO VIVANCO	PER	2009	39.02	BETH ESTEL	USA	2016
1:12.84	COLETTE CRABBE	BEL	2013	2:31.61	COLETTE CRABBE	BEL	2016	39.16	BONNIE PRONK	CAN	2002
1:13.01	CECILIA STANFORD	RSA	2016	400 M. FREE		39.19	MELINDA MANN	USA	2017		
200 M. FLY				4:59.82	LAURA VAL	USA	2012	39.25	JAN WICKS	AUS	2006
2:35.47	S. PALMER-WHITE	AUS	2019	5:09.84	BONNIE SPIVEY	USA	2019	39.30	ELIN KNAG	NOR	2019
2:37.61	LYNN MARSHALL	CAN	2018	5:11.15	SUSAN RITTER	USA	2017	39.74	AVILA RHODES	CAN	2016
2:41.51	LAURA VAL	USA	2007	5:15.34	S.HEIM-BOWEN	USA	2019	39.91	COLETTE CRABBE	USA	2019
2:43.26	D.PEDACCHIOLA	ITA	2018	5:18.24	JACKI HIRSTY	USA	2014	100 M. BRST			
2:44.09	S.REIBEL-OBERLE	GER	2019	5:18.31	JENNY WHITELEY	AUS	2018	1:23.37	JENNY WHITELEY	AUS	2018
2:44.16	N.STEADMAN-MARTIN	USA	2009	5:19.40	JOAN EDWARDS	GBR	2018	1:25.82	DAGMAR FRESE	GER	2016
2:44.22	ROBYN CROTTY	NZL	2017	5:19.86	DIANE COETZEE	RSA	2015	1:27.08	AVILA RHODES	CAN	2016
2:47.73	JUDITH HATTLE	GBR	2017	5:21.02	LO KNAPP	USA	2014	1:27.24	BETH ESTEL	USA	2016
2:48.14	I.KURTEN-SCHWABE	GER	2014	5:21.79	B.BARNETT-SALLEE	USA	2006	1:27.64	BONNIE PRONK	CAN	2002
2:49.31	ARLENE DELMAGE	USA	2017	800 M. FREE		1:27.95	LO KNAPP	USA	2014		
200 M. I.M.				10:27.71	LAURA VAL	USA	2011	1:28.19	COLETTE CRABBE	BEL	2016
2:31.51	ELLEN REYNOLDS	USA	2019	10:34.37	BONNIE SPIVEY	USA	2019	1:28.77	MELINDA MANN	USA	2017
2:38.74	JILL HERNANDEZ	USA	2015	10:39.75	S.HEIM-BOWEN	USA	2019	1:29.01	ESTHER ISEPPI	GBR	2019
2:39.07	S.REIBEL-OBERLE	GER	2019	10:43.17	JENNY WHITELEY	AUS	2018	1:29.39	BONNIE BILICH	USA	2018
2:39.78	KARLYN PIPES	USA	2017	10:46.10	SUSAN RITTER	USA	2018	200 M. BRST			
2:39.96	LYNN MARSHALL	CAN	2016	10:57.17	LAURA VACA	MEX	2014	3:04.15	JENNY WHITELEY	AUS	2018
2:42.29	CECILIA STANFORD	RSA	2016	10:58.35	C.TARANTINO	ITA	2016	3:08.07	LO KNAPP	USA	2014
2:43.43	JENNY WHITELEY	AUS	2014	11:01.73	JOAN EDWARDS	GBR	2018	3:13.11	AVILA RHODES	CAN	2016
2:43.45	LAURA VAL	USA	2008	11:02.30	CHRISTIE CIRAULO	USA	2015	3:13.31	COLETTE CRABBE	USA	2018
2:44.01	COLETTE CRABBE	BEL	2013	11:03.49	CHARLENE O'BRIEN	USA	2016	3:13.61	ESTHER ISEPPI	GBR	2019
2:45.18	ROBYN CROTTY	NZL	2017	1500 M. FREE		3:14.04	AMANDA HEATH	GBR	2017		
400 M. I.M.				19:52.85	LAURA VAL	USA	2011	3:14.49	BONNIE PRONK	CAN	2002
5:21.35	ELLEN REYNOLDS	USA	2019	19:57.23	BONNIE SPIVEY	USA	2019	3:15.64	JANETTE JEFFREY	AUS	2012
5:39.37	S.REIBEL-OBERLE	GER	2019	20:02.91	JENNY WHITELEY	AUS	2018	3:15.66	DAGMAR FRESE	GER	2016
5:40.33	LYNN MARSHALL	CAN	2016	20:10.84	S.HEIM-BOWEN	USA	2019	3:15.72	KEIKO UTSUMI	JPN	2018
5:49.40	LAURA VAL	USA	2009	20:52.70	CHRISTIE CIRAULO	USA	2015	50 M. FLY			
5:51.21	S. PALMER-WHITE	AUS	2019	20:59.26	SUSAN RITTER	USA	2018	31.11	TRACI GRANGER	USA	2019
5:51.88	CECILIA STANFORD	RSA	2016	21:01.19	S.LOFTUS-CHARLEY	USA	2013	32.27	LAURA VAL	USA	2012
5:53.27	COLETTE CRABBE	USA	2013	21:09.44	LAURA VACA	MEX	2015	32.28	LEIGH RODGERS	AUS	2016
5:53.54	BONNIE SPIVEY	USA	2013	21:16.05	BARBARA DUNBAR	USA	2009	32.57	PENNY NOYES	USA	2017
5:54.92	ROBYN CROTTY	NZL	2019	21:19.51	LOLI BALBUENA	ESP	2019	32.57	CHARLOTTE DAVIS	USA	2012
5:54.99	PIERRETTE MICHEL	BEL	2017	50 M. BACK		32.74	JENNY WHITELEY	AUS	2019		
*****				33.86	LAURA VAL	USA	2015	32.91	LOLI BALBUENA	ESP	2019
*****				34.44	BONNIE BILICH	USA	2019	33.24	VERONICA HIBBEN	USA	2016
*****				34.99	PENNY NOYES	USA	2018	33.31	LYLE KILDEA	AUS	2018
*****				35.14	K.ANDRUS-HUGHES	USA	2017	33.43	ANGELA ZINGLER	GER	2014
50 M. FREE				35.63	LEIGH RODGERS	AUS	2016	100 M. FLY			
28.90	JENNY WHITELEY	AUS	2018	35.79	B.BARNETT-SALLEE	USA	2006	1:12.06	LAURA VAL	USA	2011
29.21	PENNY NOYES	USA	2018	35.82	J.WAGERTY-HILL	USA	2014	1:13.51	TRACI GRANGER	USA	2018
29.31	LAURA VAL	USA	2011	36.07	CARLA YOUNG	CAN	2014	1:14.31	LEIGH RODGERS	AUS	2016
30.11	CHARLOTTE DAVIS	USA	2012	36.38	JANET MCDONOUGH	USA	2018	1:15.33	COLETTE CRABBE	BEL	2016
30.16	TRACI GRANGER	USA	2018	36.42	DIANE COETZEE	RSA	2016	1:16.75	MELINDA MANN	USA	2017
30.19	SANDERINA KRUGER	RSA	2011	100 M. BACK		1:17.34	JUDY WILSON	GBR	2004		
30.42	LYNETTE STEVENSON	AUS	2009	1:14.50	BONNIE BILICH	USA	2018	1:17.85	L.NAGOVITSYNA	RUS	2019
30.44	A.PIJTAK-RADERSMA	NED	2016	1:14.76	LAURA VAL	USA	2015	1:18.42	HARUMI SUGINUMA	JPN	2017
30.47	LINDSEY GOWLAND	GBR	2017	1:17.34	LEIGH RODGERS	AUS	2015	1:18.61	LAURA VACA	MEX	2014
30.55	JACKI HIRSTY	USA	2014	1:17.40	PENNY NOYES	USA	2018	1:18.83	CHARLOTTE DAVIS	USA	2012
30.55	ROSARIO VIVANCO	PER	2009	1:17.53	K.ANDRUS-HUGHES	USA	2017	200 M. FLY			
100 M. FREE				1:17.81	M.RIPLEY	USA	2016	2:41.03	LAURA VAL	USA	2011
1:03.83	LAURA VAL	USA	2011	1:18.00	JOAN PFINGRAFF	USA	2018	2:52.77	TRACI GRANGER	USA	2018
1:06.13	JENNY WHITELEY	AUS	2019	1:18.91	B.BARNETT-SALLEE	USA	2006	2:54.50	COLETTE CRABBE	BEL	2016
1:06.30	PENNY NOYES	USA	2017	1:19.41	DIANE COETZEE	RSA	2016	2:54.79	LAURIE ALIOTO	USA	2018
1:06.41	VERONICA HIBBEN	USA	2017	1:20.34	COLETTE CRABBE	BEL	2016	2:58.64	LAURA VACA	MEX	2014
1:06.63	SANDERINA KRUGER	RSA	2009	200 M. BACK		3:00.66	L.NAGOVITSYNA	RUS	2019		
1:07.33	CHARLOTTE DAVIS	USA	2010	2:41.57	BONNIE BILICH	USA	2019	3:01.50	N.MARTIN	USA	2014
1:07.46	LYNN MORRISON	USA	2014	2:44.38	LAURA VAL	USA	2013	3:05.07	BARBARA DUNBAR	USA	2009
1:08.08	ROSARIO VIVANCO	PER	2009	2:48.38	JOAN PFINGRAFF	USA	2018	3:07.36	ELAINE VALDEZ	USA	2016
1:08.20	A.PIJTAK-RADERSMA	NED	2017	2:49.60	M.RIPLEY	USA	2016	3:08.77	SALLY MILLS	GBR	2018
1:08.34	LYLE KILDEA	AUS	2019	2:49.65	BONNIE SPIVEY	USA	2019	200 M. I.M.			



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

2:44.62	JENNY WHITELEY	AUS	2019	11:18.25	DOT MUNGER	USA	2016	1:34.53	BONNIE PRONK	CAN	2008
2:47.99	LAURA VAL	USA	2013	11:21.32	LO KNAPP	USA	2019	1:34.67	DURDICA GABRILO	CRO	2016
2:48.28	COLETTE CRABBE	BEL	2016	11:23.68	LAURA VACA	MEX	2019	200 M. BRST			
2:51.28	BONNIE BILICH	USA	2018	11:31.53	CHARLOTTE DAVIS	USA	2015	3:19.08	LO KNAPP	USA	2019
2:52.67	CHARLOTTE DAVIS	USA	2010	11:39.86	AUDREY COOPER	GBR	2019	3:19.76	JANETTE JEFFREY	AUS	2016
2:52.77	LEIGH RODGERS	AUS	2016	11:42.44	CHERYL MURRAY	USA	2017	3:23.63	JENNIFER MERRITT	GBR	2016
2:53.62	BONNIE SPIVEY	USA	2019	11:45.77	ANNE BOURNE	GBR	2019	3:24.25	GIURGIZA GABRILO	CRO	2012
2:54.04	PENNY NOYES	USA	2018	11:47.84	INEKE WEEKERS	NED	2019	3:24.61	CHARLOTTE DAVIS	USA	2019
2:56.39	MA RAMONA GUILLEN	ESP	2019	1500 M. FREE				3:24.79	NOBUKO YASUDA	JPN	2010
2:57.11	JANET MCDONOUGH	USA	2018	21:00.15	LAURA VAL	USA	2016	3:26.88	HANNELORE ROSE	GER	2007
400 M. I.M.				21:32.84	CHRISTIE CIRAULO	USA	2019	3:26.98	JOANN LEILICH	USA	2005
5:56.27	LAURA VAL	USA	2011	21:43.45	LAURA VACA	MEX	2019	3:27.24	DIANE FORD	GBR	2008
5:56.40	COLETTE CRABBE	USA	2016	21:56.07	AUDREY COOPER	GBR	2019	3:27.58	INEKE WEEKERS	NED	2018
5:58.81	BONNIE SPIVEY	USA	2019	22:19.43	S.LOFTUS-CHARLEY	USA	2017	50 M. FLY			
6:08.99	CHARLOTTE DAVIS	USA	2010	22:28.69	BARBARA DUNBAR	USA	2014	32.93	PENNY NOYES	USA	2019
6:18.55	LAURA VACA	MEX	2015	22:40.65	JEN THOMASSON	AUS	2008	33.34	LAURA VAL	USA	2018
6:19.16	SUSANNA SORDELLI	ITA	2016	22:41.46	INEKE WEEKERS	NED	2019	33.66	CHARLOTTE DAVIS	USA	2016
6:20.12	EDIE FISHER	CAN	2019	22:49.36	CATHERINE RUST	USA	2018	34.09	DIANN UUSTAL	USA	2014
6:22.44	ESTHER ISEPPI	GBR	2019	22:59.88	JAYNE STEPHENSON	GBR	2019	34.23	CECILIA MCCLOSKEY	USA	2017
6:22.61	BRIGITTE MERTEN	GER	2006	50 M. BACK				34.50	CHRISTIE CIRAULO	USA	2019
6:24.05	N.MARTIN	USA	2014	33.59	LAURA VAL	USA	2018	34.84	LYNN MORRISON	USA	2019
*****				35.39	CECILIA MCCLOSKEY	USA	2017	35.63	SUMIKO KOBAYASHI	JPN	2015
WOMEN 65-69				36.18	PENNY NOYES	USA	2019	35.77	CHRISTEL SCHULZ	GER	2006
*****				37.11	MARGIT OHLSSON	SWE	2011	35.90	REGULA STEIGER	SUI	2018
50 M. FREE				37.38	CLARY MUNNS	AUS	2009	100 M. FLY			
29.10	PENNY NOYES	USA	2019	37.44	DIANN UUSTAL	USA	2011	1:13.70	LAURA VAL	USA	2016
29.17	LAURA VAL	USA	2018	37.54	SATOKO TAKEUJI	JPN	2009	1:15.18	PENNY NOYES	USA	2019
30.72	SANDERINA KRUGER	RSA	2015	37.59	JEANNIE JOHNSON	AUS	2013	1:20.09	CHARLOTTE DAVIS	USA	2015
30.76	JACKI HIRSTY	USA	2017	38.17	SILVANA ABREU	BRA	2006	1:20.90	CECILIA MCCLOSKEY	USA	2016
30.85	CHARLOTTE DAVIS	USA	2016	38.21	EVIE LYNCH	USA	2019	1:22.45	LAURA VACA	MEX	2018
31.20	LYNN MORRISON	USA	2019	100 M. BACK				1:23.73	ANDRA JAUNZEME	USA	2018
31.83	CAROLE SMITH	ITA	2018	1:14.49	LAURA VAL	USA	2018	1:25.18	CHRISTIE CIRAULO	USA	2019
31.84	CAROLYN BOAK	USA	2010	1:18.63	CECILIA MCCLOSKEY	USA	2018	1:26.13	BRIGITTE MERTEN	GER	2013
31.99	CONNY BOER-BUYS	NED	2016	1:21.81	MARGIT OHLSSON	SWE	2010	1:26.17	CAROLYN BOAK	USA	2010
32.07	JANETTE JEFFREY	AUS	2015	1:22.30	DIANN UUSTAL	USA	2011	1:27.73	YOSHIKO OSAKI	JPN	2003
100 M. FREE				1:22.53	PENNY NOYES	USA	2019	200 M. FLY			
1:04.89	LAURA VAL	USA	2018	1:23.61	CLARY MUNNS	AUS	2009	2:57.26	PENNY NOYES	USA	2019
1:07.88	CHARLOTTE DAVIS	USA	2016	1:24.41	BENEDICTE DUPREZ	FRA	2017	3:06.83	LAURA VACA	MEX	2018
1:08.48	PENNY NOYES	USA	2019	1:24.67	SATOKO TAKEUJI	JPN	2007	3:09.32	ANDRA JAUNZEME	USA	2018
1:09.23	SANDERINA KRUGER	RSA	2015	1:25.26	EVIE LYNCH	USA	2019	3:17.58	S.LOFTUS-CHARLEY	USA	2017
1:09.61	JACKI HIRSTY	USA	2017	1:25.86	MARIA BALLA	HUN	2009	3:21.42	CAROLYN BOAK	USA	2010
1:10.22	LYNN MORRISON	USA	2019	200 M. BACK				3:23.68	JUNKO SATO	JPN	2019
1:12.00	CHRISTEL SCHULZ	GER	2005	2:47.70	LAURA VAL	USA	2019	3:24.65	M.NEUMEISTER	GER	2017
1:12.10	CAROLYN BOAK	USA	2010	2:54.48	CECILIA MCCLOSKEY	USA	2018	3:28.48	KIRA MAKAROVA	RUS	2013
1:12.23	CATHY MERRITT	CAN	2017	3:00.24	MARGIT OHLSSON	SWE	2011	3:28.64	CHERYL MURRAY	USA	2017
1:12.28	CONNY BOER-BUYS	NED	2016	3:00.75	DIANN UUSTAL	USA	2013	3:28.99	YURI SUETSUGU	JPN	2019
200 M. FREE				3:03.17	EVIE LYNCH	USA	2019	200 M. I.M.			
2:25.29	LAURA VAL	USA	2016	3:05.32	BENEDICTE DUPREZ	FRA	2017	2:51.52	PENNY NOYES	USA	2019
2:33.88	JACKI HIRSTY	USA	2017	3:06.31	JOAN CRAWFEEY	USA	2018	2:54.16	LAURA VAL	USA	2016
2:35.36	CHARLOTTE DAVIS	USA	2015	3:06.41	BONNIE PRONK	CAN	2008	2:54.74	CHARLOTTE DAVIS	USA	2016
2:36.05	LO KNAPP	USA	2019	3:08.20	SATOKO TAKEUJI	JPN	2007	2:56.87	CECILIA MCCLOSKEY	USA	2016
2:37.26	DOT MUNGER	USA	2016	3:10.02	TAKAKO NAKAMORI	JPN	2014	3:02.45	LO KNAPP	USA	2019
2:37.63	SANDERINA KRUGER	RSA	2015	50 M. BRST				3:04.17	CATHY MERRITT	CAN	2017
2:39.05	CAROLYN BOAK	USA	2010	40.51	GIURGIZA GABRILO	CRO	2012	3:04.35	ANDRA JAUNZEME	USA	2018
2:39.06	LYNN MORRISON	USA	2019	41.41	JANETTE JEFFREY	AUS	2016	3:05.12	LAURA VACA	MEX	2019
2:39.74	CATHY MERRITT	CAN	2017	41.49	CAROLE SMITH	ITA	2018	3:05.32	BRIGITTE MERTEN	GER	2011
2:42.26	CHRISTEL SCHULZ	GER	2008	41.52	MONIKA SENFTLEBEN	GER	2009	3:06.10	CAROLYN BOAK	USA	2010
400 M. FREE				41.57	REGULA STEIGER	SUI	2018	400 M. I.M.			
5:12.80	LAURA VAL	USA	2019	41.69	BONNIE PRONK	CAN	2007	6:14.58	PENNY NOYES	USA	2019
5:27.73	DOT MUNGER	USA	2016	41.93	DOT MUNGER	USA	2016	6:15.15	LAURA VAL	USA	2019
5:27.79	CHARLOTTE DAVIS	USA	2015	42.05	SALLY SHIELDS	GBR	2019	6:27.15	LAURA VACA	MEX	2018
5:28.07	JACKI HIRSTY	USA	2017	42.08	CHARLOTTE DAVIS	USA	2018	6:28.60	CHARLOTTE DAVIS	USA	2016
5:34.47	LO KNAPP	USA	2019	42.33	DURDICA GABRILO	CRO	2016	6:34.02	AUDREY COOPER	GBR	2019
5:38.53	CHRISTIE CIRAULO	USA	2019	100 M. BRST				6:36.27	ANDRA JAUNZEME	USA	2018
5:38.89	LAURA VACA	MEX	2019	1:30.16	GIURGIZA GABRILO	CRO	2012	6:37.45	CAROLYN BOAK	USA	2010
5:42.49	AUDREY COOPER	GBR	2019	1:32.24	LO KNAPP	USA	2019	6:40.57	CECILIA MCCLOSKEY	USA	2018
5:43.10	JEN THOMASSON	AUS	2008	1:32.66	JANETTE JEFFREY	AUS	2015	6:46.46	YOSHIKO OSAKI	JPN	2005
5:45.43	CELESTE MILLER	USA	2015	1:33.14	SALLY SHIELDS	GBR	2019	6:50.17	BRIGITTE MERTEN	GER	2012
800 M. FREE				1:33.23	NOBUKO YASUDA	JPN	2010	*****			
10:49.60	LAURA VAL	USA	2017	1:33.32	CHARLOTTE DAVIS	USA	2018	WOMEN 70-74			
11:17.95	CHRISTIE CIRAULO	USA	2019	1:33.69	DIANE FORD	GBR	2008	*****			
				1:34.53	DOT MUNGER	USA	2016				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

50 M. FREE		40.20 YOKO NAKAMURA	JPN 2018	1:24.55 JUDY WILSON	GBR 2014
31.99 SANDERINA KRUGER	RSA 2019	40.60 E.KETELSEN	DEN 2013	1:28.99 BRIGITTE MERTEN	GER 2016
32.89 MARGARET TOPPEL	USA 2018	40.84 PAM HUTCHINGS	AUS 2008	1:31.87 KIRA MAKAROVA	RUS 2018
33.02 DIANN UUSTAL	USA 2017	40.96 TAKAKO NAKAMORI	JPN 2019	1:34.51 YOSHIKO OSAKI	JPN 2008
33.57 CHRISTEL SCHULZ	GER 2010	41.37 HIROMI SATO	JPN 2012	1:35.09 MARGOT PETTIJOHN	USA 2016
33.61 YOSHIKO OSAKI	JPN 2009	100 M. BACK		1:35.24 CAROLYN BOAK	USA 2018
33.70 YOSHIKO KADOSAKA	JPN 2019	1:25.20 MARGIT OHLSSON	SWE 2015	1:37.98 DANA BROWN	USA 2018
33.95 REBECCA KAY	USA 2016	1:25.54 DIANN UUSTAL	USA 2017	1:39.11 CLARY MUNNS	AUS 2014
34.13 BITTE AXLING	SWE 2016	1:26.15 SATOKO TAKEUJI	JPN 2012	1:40.85 JUNE KRAUSER	USA 1996
34.39 IKUKO OKADO	JPN 2013	1:27.07 JULIE GUNTHERP	NZL 2017	1:40.90 HELGA REICH	GER 2007
34.43 F.WILLIAMSON	USA 2018	1:28.60 CLARY MUNNS	AUS 2015	200 M. FLY	
100 M. FREE		1:29.63 E.KETELSEN	DEN 2016	3:35.36 CLARY MUNNS	AUS 2016
1:11.49 SANDERINA KRUGER	RSA 2019	1:31.07 RACHEL BARTON	GBR 2019	3:37.41 MARGOT PETTIJOHN	USA 2016
1:14.28 YOSHIKO OSAKI	JPN 2009	1:31.61 SANDERINA KRUGER	RSA 2019	3:39.91 JUNE KRAUSER	USA 1996
1:15.01 CHRISTEL SCHULZ	GER 2010	1:31.96 MARGARET TOPPEL	USA 2019	3:40.14 JUDY WILSON	GBR 2014
1:15.30 DIANN UUSTAL	USA 2017	1:32.02 CHRISTEL SCHULZ	GER 2010	3:41.10 CAROLYN BOAK	USA 2016
1:16.87 BRIGITTE MERTEN	GER 2017	200 M. BACK		3:44.93 HELGA REICH	GER 2007
1:17.44 F.WILLIAMSON	USA 2018	3:06.24 MARGIT OHLSSON	SWE 2015	3:47.65 DANIELA BARNEA	USA 2014
1:17.94 JANE ASHER	GBR 2004	3:11.54 SATOKO TAKEUJI	JPN 2012	3:47.74 KIRA MAKAROVA	RUS 2019
1:17.96 RUTH SHAPS	USA 2017	3:11.78 JULIE GUNTHERP	NZL 2017	3:52.01 SILVIA NEUHAUSER	AUT 2001
1:18.18 MADELEINE SEVIGNY	CAN 2017	3:14.31 CLARY MUNNS	AUS 2016	3:54.39 JANE ASHER	GBR 2001
1:18.19 JEN THOMASSON	AUS 2013	3:14.66 DIANN UUSTAL	USA 2017	200 M. I.M.	
200 M. FREE		3:16.54 NORIKO YOSHIDA	JPN 2014	3:10.64 BRIGITTE MERTEN	GER 2016
2:44.16 SANDERINA KRUGER	RSA 2019	3:16.64 E.KETELSEN	DEN 2013	3:13.19 YOSHIKO OSAKI	JPN 2008
2:46.63 DIANN UUSTAL	USA 2016	3:18.02 JOY WARD	USA 2012	3:14.07 CHRISTEL SCHULZ	GER 2010
2:48.03 CHRISTEL SCHULZ	GER 2010	3:21.23 CHRISTEL SCHULZ	GER 2010	3:14.36 KIRA MAKAROVA	RUS 2019
2:49.80 YOSHIKO OSAKI	JPN 2008	3:21.83 LILIA VACA	MEX 2019	3:16.45 MARGIT OHLSSON	SWE 2015
2:50.21 CAROLYN BOAK	USA 2018	50 M. BRST		3:17.78 CLARY MUNNS	AUS 2017
2:50.27 JANE ASHER	GBR 2002	42.80 MONIKA SENFTLEBEN	GER 2012	3:20.66 SANDERINA KRUGER	RSA 2019
2:52.42 JEN THOMASSON	AUS 2014	42.98 KAYAKO HIROSE	JPN 2017	3:20.72 MARGOT PETTIJOHN	USA 2016
2:53.71 F.WILLIAMSON	USA 2018	43.19 DANA BROWN	USA 2018	3:23.76 DIANN UUSTAL	USA 2017
2:54.63 BRIGITTE MERTEN	GER 2016	43.45 SHOKO YONEZAWA	JPN 2005	3:26.41 JANE ASHER	GBR 2002
2:54.96 NOBUKO SATA	JPN 2018	43.98 EDITH BOEHM	GER 1999	400 M. I.M.	
400 M. FREE		44.01 ANNEROSE TROBISCH	GER 2018	6:54.30 BRIGITTE MERTEN	GER 2016
5:54.97 YOSHIKO OSAKI	JPN 2008	44.77 DIANE FORD	GBR 2013	6:54.93 YOSHIKO OSAKI	JPN 2008
5:59.00 JEN THOMASSON	AUS 2013	44.92 NOBUKO YASUDA	JPN 2015	7:04.83 CLARY MUNNS	AUS 2016
6:05.25 JANE ASHER	GBR 2004	45.13 MARGOT PETTIJOHN	USA 2016	7:16.18 MARGOT PETTIJOHN	USA 2016
6:06.16 CAROLYN BOAK	USA 2018	45.53 ELIANE PELLIS	BEL 2004	7:25.26 JANE ASHER	GBR 2001
6:11.92 LAVELLE STOINOFF	USA 2003	100 M. BRST		7:28.70 CAROLYN BOAK	USA 2016
6:15.85 JULIE GUNTHERP	NZL 2017	1:35.93 NOBUKO YASUDA	JPN 2016	7:30.66 JULIE GUNTHERP	NZL 2017
6:17.00 MARCIA BARRY	USA 2018	1:37.39 DIANE FORD	GBR 2013	7:30.91 JUNE KRAUSER	USA 1996
6:17.22 RUTH SHAPS	USA 2017	1:37.72 SHOKO YONEZAWA	JPN 2007	7:32.26 DANIELA BARNEA	USA 2014
6:17.76 LILI VACA	MEX 2019	1:38.78 JOANN LEILICH	USA 2009	7:33.16 TOTH CSANADINE	HUN 2019
6:17.99 ROSA SEGARRA	ESP 2019	1:39.14 DANA BROWN	USA 2018		
800 M. FREE		1:39.15 MASAYO AZUMA	JPN 2005	*****	
12:13.07 YOSHIKO OSAKI	JPN 2009	1:39.29 KAYAKO HIROSE	JPN 2017	WOMEN 75-79	
12:15.81 JEN THOMASSON	AUS 2014	1:40.78 MARGOT PETTIJOHN	USA 2016	*****	
12:32.21 JANE ASHER	GBR 2002	1:41.04 ELIANE PELLIS	BEL 2004	50 M. FREE	
12:35.14 LAVELLE STOINOFF	USA 2004	1:41.31 LUISE KNOPFLE	GER 2012	34.85 JANE ASHER	GBR 2006
12:35.51 LILI VACA	MEX 2019	200 M. BRST		35.35 GEORGINA LOPEZ	CAN 2019
12:36.63 CAROLYN BOAK	USA 2016	3:29.25 NOBUKO YASUDA	JPN 2017	35.48 CHRISTEL SCHULZ	GER 2015
12:50.38 JULIE GUNTHERP	NZL 2017	3:30.66 DIANE FORD	GBR 2013	35.70 CLARY MUNNS	AUS 2019
12:52.66 MARCIA BARRY	USA 2018	3:34.32 SHOKO YONEZAWA	JPN 2005	35.85 MADELINE LANTHIER	CAN 2018
12:59.41 HELGA REICH	GER 2006	3:34.49 JOANN LEILICH	USA 2011	35.90 YOSHIKO OSAKI	JPN 2013
12:59.86 MARGARETA RAINER	SWE 2019	3:36.45 LUISE KNOPFLE	GER 2009	36.15 IKUKO OKADO	JPN 2018
1500 M. FREE		3:38.05 MASAYO AZUMA	JPN 2006	36.42 CLAIRE O'DWYER	IRL 2016
23:49.60 JEN THOMASSON	AUS 2016	3:38.89 TAMAE FURUYA	JPN 2015	36.63 JEN THOMASSON	AUS 2018
24:06.48 JANE ASHER	GBR 2001	3:39.39 KAYAKO HIROSE	JPN 2017	36.87 GAIL ROPER	USA 2005
24:14.23 MARCIA BARRY	USA 2018	3:42.79 TAYO FUJIEDA	JPN 2009	100 M. FREE	
24:24.13 LAVELLE STOINOFF	USA 2003	3:43.28 TOTH CSANADINE	HUN 2019	1:19.71 YOSHIKO OSAKI	JPN 2014
24:49.53 YOSHIKO OSAKI	JPN 2011	50 M. FLY		1:20.10 CHRISTEL SCHULZ	GER 2015
25:01.08 RUTH SHAPS	USA 2018	35.02 DIANN UUSTAL	USA 2017	1:20.15 JANE ASHER	GBR 2006
25:04.94 BARBARA FENTIMAN	AUS 2004	36.36 JUDY WILSON	GBR 2014	1:23.58 MADELINE LANTHIER	CAN 2018
25:09.91 BARBARA DUNBAR	USA 2019	37.36 MARGARET TOPPEL	USA 2018	1:24.31 JEN THOMASSON	AUS 2018
25:11.57 LILIA VACA	MEX 2019	37.93 CHRISTEL SCHULZ	GER 2010	1:25.47 HEATHER MORGAN	AUS 2019
25:21.24 REIKO ISHIZAKI	JPN 2009	38.27 BRIGITTE MERTEN	GER 2016	1:25.59 E.KETELSEN	DEN 2018
50 M. BACK		38.65 HARUMI SUGIMOTO	JPN 2008	1:26.34 SUSAN LEUNER	RSA 2014
38.69 MARGIT OHLSSON	SWE 2015	39.30 YOSHIKO OSAKI	JPN 2008	1:26.36 GAIL ROPER	USA 2005
39.05 CLARY MUNNS	AUS 2017	39.36 YOSHIKO KADOSAKA	JPN 2019	1:26.91 GEORGINA LOPEZ	CAN 2019
39.11 DIANN UUSTAL	USA 2017	39.56 KIRA MAKAROVA	RUS 2019	200 M. FREE	
39.67 SATOKO TAKEUJI	JPN 2012	39.65 BITTE AXLING	SWE 2016	2:54.26 YOSHIKO OSAKI	JPN 2013
39.76 MARGARET TOPPEL	USA 2019	100 M. FLY		2:56.57 JANE ASHER	GBR 2008

FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

3:00.89	CHRISTEL SCHULZ	GER	2015	3:37.48	DORIS STEADMAN	USA	2000	3:38.23	DANIELA BARNEA	USA	2019
3:05.39	JEN THOMASSON	AUS	2018	3:38.95	KAZUKO ITO	JPN	2017	3:38.46	JANE ASHER	GBR	2006
3:06.39	HEATHER MORGAN	AUS	2019	50	M. BRST			3:48.16	JUDIE OLIVER	CAN	2007
3:11.83	MARIA PENNA	BRA	2014	43.95	SHOKO YONEZAWA	JPN	2010	3:48.34	JOANN LEILICH	USA	2014
3:12.74	JILL COMPLIN	GBR	2016	46.69	ELIANE PELLIS	BEL	2009	3:48.59	JUNE KRAUSER	USA	2001
3:12.84	SUSAN LEUNER	RSA	2014	46.72	DIANE FORD	GBR	2019	3:51.28	HELGA REICH	GER	2011
3:13.18	MADELINE LANTHIER	CAN	2018	47.10	JOANN LEILICH	USA	2014	3:53.24	MARCELA STASTNA	CZE	2013
3:13.22	PIROSKA WEIDINGER	HUN	2017	47.25	DANIELA BARNEA	USA	2019	400	M. I.M.		
400	M. FREE			47.28	CLARY MUNNS	AUS	2019	7:17.78	CLARY MUNNS	AUS	2019
6:12.25	YOSHIKO OSAKI	JPN	2013	47.48	HEATHER MORGAN	AUS	2019	7:39.98	JANE ASHER	GBR	2006
6:13.20	JANE ASHER	GBR	2006	47.59	EDITH BOHM	GER	2003	7:47.11	DANIELA BARNEA	USA	2019
6:29.37	CHRISTEL SCHULZ	GER	2015	47.76	KUMIE TOKUDA	JPN	2012	7:51.71	JUNE KRAUSER	USA	2001
6:30.01	JEN THOMASSON	AUS	2019	47.77	GISELA GRUNER	GER	2012	8:08.52	HELGA REICH	GER	2011
6:30.77	HEATHER MORGAN	AUS	2019	100	M. BRST			8:10.16	ANN HIRSCH	USA	2006
6:43.02	REIKO ISHIZAKI	JPN	2013	1:38.81	SHOKO YONEZAWA	JPN	2010	8:17.70	GAIL ROPER	USA	2005
6:45.13	JILL COMPLIN	GBR	2016	1:42.18	JOANN LEILICH	USA	2014	8:26.53	URSULA FROHLICH	GER	2010
6:46.48	HELGA REICH	GER	2012	1:42.27	DIANE FORD	GBR	2019	8:28.48	SEIKO HASEBE	JPN	2019
6:48.11	MARIA PENNA	BRA	2014	1:44.00	LUISE KNOPFLE	GER	2014	8:28.79	SUE MAYNE	AUS	2011
6:50.41	SUSAN LEUNER	RSA	2014	1:44.28	MASAYO AZUMA	JPN	2010				
800	M. FREE			1:44.40	DANIELA BARNEA	USA	2019	*****			
12:58.94	JANE ASHER	GBR	2006	1:45.78	ELIANE PELLIS	BEL	2009	WOMEN 80-84			
13:22.27	HEATHER MORGAN	AUS	2019	1:45.98	A.VAN OBBERGHEN	BEL	2008	*****			
13:34.69	YOSHIKO OSAKI	JPN	2014	1:47.73	KUMIE TOKUDA	JPN	2012	50	M. FREE		
13:57.01	MARIA PENNA	BRA	2014	1:48.15	TAYO FUJIEDA	JPN	2013	35.04	EVA JAROSOVA	CZE	2016
13:58.35	HELGA REICH	GER	2012	200	M. BRST			36.61	YOSHIKO OSAKI	JPN	2018
13:58.84	JILL COMPLIN	GBR	2015	3:40.84	JOANN LEILICH	USA	2014	37.45	JANE ASHER	GBR	2011
14:05.19	NORIKO YOSHIDA	JPN	2019	3:41.53	SHOKO YONEZAWA	JPN	2010	38.64	GAIL ROPER	USA	2009
14:05.80	DENISE ROBERTSON	AUS	2011	3:43.29	LUISE KNOPFLE	GER	2014	39.18	FUSAKO HIROOKA	JPN	2017
14:08.52	E.KETELSEN	DEN	2018	3:43.88	DIANE FORD	GBR	2019	39.51	JOHNNIE DETRICK	USA	2016
14:08.97	JAN CROFT	AUS	2018	3:44.29	MASAYO AZUMA	JPN	2011	39.66	FUMIKO NAKAMURA	JPN	2018
1500	M. FREE			3:48.31	DANIELA BARNEA	USA	2019	40.45	FLORENCE CARR	USA	2005
24:41.76	JANE ASHER	GBR	2006	3:53.56	A.VAN OBBERGHEN	BEL	2008	40.60	LOTTIE GEURTS	NED	2017
26:41.71	REIKO ISHIZAKI	JPN	2013	3:54.88	ELIANE PELLIS	BEL	2008	40.75	JEAN TROY	USA	2007
26:58.65	DENISE ROBERTSON	AUS	2013	3:55.25	SYLVIA NEUHAUSER	AUT	2004	100	M. FREE		
27:09.75	JEAN TROY	USA	2003	3:55.99	KUMIE TOKUDA	JPN	2012	1:23.16	YOSHIKO OSAKI	JPN	2018
27:19.77	ANNE WILLIAMS	USA	2013	50	M. FLY			1:24.18	JANE ASHER	GBR	2011
27:20.22	CLARY MUNNS	AUS	2019	38.93	JUDY WILSON	FRA	2019	1:27.55	GAIL ROPER	USA	2009
27:28.06	MARIA PENNA	BRA	2015	40.06	CHRISTEL SCHULZ	GER	2015	1:34.23	LINDA MACPHERSON	CAN	2018
27:37.02	SARAH KOPSKY	USA	2016	41.54	HARUMI SUGIMOTO	JPN	2013	1:34.43	MITSUKO KOMURO	JPN	2010
27:40.67	JUNE KRAUSER	USA	2001	41.99	JANE ASHER	GBR	2006	1:34.48	HELEN BIRD	AUS	2019
27:41.38	JANE OBERG	USA	2012	42.12	CLARY MUNNS	AUS	2019	1:34.64	SUSAN LEUNER	RSA	2019
50	M. BACK			42.34	CLAIRE O'DWYER	IRL	2016	1:34.80	LOTTIE GEURTS	NED	2017
40.27	CLARY MUNNS	AUS	2019	43.86	KIYOKO YONEDA	JPN	2017	1:34.95	NAN BOHL	USA	2009
40.56	SATOKO TAKEUJI	JPN	2017	44.00	HEATHER MORGAN	AUS	2019	1:34.96	DENISE ROBERTSON	AUS	2015
42.06	SHOKO YONEZAWA	JPN	2010	44.54	HISAKO KITAYAMA	JPN	2012	200	M. FREE		
42.72	E.KETELSEN	DEN	2018	44.83	IKUKO OKADO	JPN	2018	3:05.95	YOSHIKO OSAKI	JPN	2019
42.87	HIROMI SATO	JPN	2017	100	M. FLY			3:07.40	JANE ASHER	GBR	2011
43.16	PAM HUTCHINGS	AUS	2011	1:33.66	JUDY WILSON	FRA	2019	3:26.58	DENISE ROBERTSON	AUS	2015
43.93	JANE ASHER	GBR	2006	1:36.09	CLARY MUNNS	AUS	2019	3:27.26	JEAN TROY	USA	2007
43.94	YOSHIKO OSAKI	JPN	2014	1:47.40	JUDIE OLIVER	CAN	2007	3:27.95	LINDA MACPHERSON	CAN	2018
44.43	DORIS STEADMAN	USA	1999	1:50.12	SYLVIA NEUHAUSER	AUT	2004	3:30.08	HELGA REICH	GER	2016
44.54	CHRISTEL SCHULZ	GER	2015	1:50.44	HELGA REICH	GER	2011	3:30.85	KUMIE TOKUDA	JPN	2017
100	M. BACK			1:50.84	DANIELA BARNEA	USA	2019	3:31.42	ANNE WILLIAMS	USA	2019
1:28.96	CLARY MUNNS	AUS	2019	1:50.99	JANE ASHER	GBR	2006	3:31.56	URSULA FROHLICH	GER	2017
1:31.79	SATOKO TAKEUJI	JPN	2017	1:51.04	MARCELA STASTNA	CZE	2012	3:32.12	GAIL ROPER	USA	2009
1:33.47	E.KETELSEN	DEN	2018	1:52.12	MARY ANN CASE	USA	2014	400	M. FREE		
1:35.14	CHRISTEL SCHULZ	GER	2015	1:54.14	GAIL ROPER	USA	2004	6:39.90	JANE ASHER	GBR	2012
1:35.88	NORIKO YOSHIDA	JPN	2019	200	M. FLY			7:10.31	HELGA REICH	GER	2016
1:37.81	YOSHIKO OSAKI	JPN	2015	3:42.83	CLARY MUNNS	AUS	2019	7:11.45	DENISE ROBERTSON	AUS	2019
1:38.62	JANE ASHER	GBR	2006	4:00.75	DANIELA BARNEA	USA	2019	7:15.72	LINDA MACPHERSON	CAN	2018
1:38.78	DORIS STEADMAN	USA	2000	4:03.55	SYLVIA NEUHAUSER	AUT	2004	7:21.67	TAYO FUJIEDA	JPN	2018
1:39.02	SHOKO YONEZAWA	JPN	2010	4:06.08	HELGA REICH	GER	2011	7:24.53	JEAN TROY	USA	2007
1:41.22	PAM HUTCHINGS	AUS	2011	4:10.69	JUNE KRAUSER	USA	2001	7:26.51	KUMIE TOKUDA	JPN	2017
200	M. BACK			4:12.78	SEIKO HASEBE	JPN	2019	7:27.40	ANNE WILLIAMS	USA	2019
3:16.80	CLARY MUNNS	AUS	2019	4:17.87	GAIL ROPER	USA	2004	7:30.34	MARGERY MEYER	USA	2003
3:23.72	E.KETELSEN	DEN	2018	4:19.81	LOIS NOCHMAN	USA	1999	7:38.29	MARIA PENNA	BRA	2019
3:25.49	NORIKO YOSHIDA	JPN	2018	4:21.11	CHRISTA SVOBODOVA	CZE	2012	800	M. FREE		
3:27.59	SATOKO TAKEUJI	JPN	2017	4:21.39	JANE ASHER	GBR	2006	13:51.21	JANE ASHER	GBR	2011
3:28.18	CHRISTEL SCHULZ	GER	2016	200	M. I.M.			14:29.77	DENISE ROBERTSON	AUS	2017
3:31.81	YOSHIKO OSAKI	JPN	2015	3:25.01	CLARY MUNNS	AUS	2019	14:52.17	HELGA REICH	GER	2016
3:34.02	G.JANSSSENS	RSA	2019	3:32.94	YOSHIKO OSAKI	JPN	2013	15:12.94	JEAN TROY	USA	2007
3:34.35	JANE ASHER	GBR	2006	3:33.71	CHRISTEL SCHULZ	GER	2015	15:19.65	ANNE WILLIAMS	USA	2019



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

15:21.62	MARGERY MEYER	USA	2003	3:59.55	JOANN LEILICH	USA	2019	44.93	MIEKO KAMOSHITA	JPN	2012
15:32.50	GAIL ROPER	USA	2009	3:59.60	MASAYO AZUMA	JPN	2015	44.97	JEAN TROY	USA	2012
15:44.39	DOROTHY DICKEY	AUS	2012	4:00.42	LUISE KNOPFLE	GER	2019	46.08	NAN BOHL	USA	2014
15:51.29	NAN BOHL	USA	2012	4:05.52	A.VAN OBBERGHEN	BEL	2012	46.20	OLGA KOKORINA	RUS	2012
15:58.61	MARIA PENNA	BRA	2019	4:05.92	TAYO FUJIEDA	JPN	2018	46.72	MARGERY MEYER	USA	2009
1500 M. FREE				4:06.49	ANNE WILLIAMS	USA	2018	47.23	DOROTHY DICKEY	AUS	2016
26:29.87	JANE ASHER	GBR	2011	4:09.40	SANTA JAARSVELD	RSA	2017	47.63	MASAE KURATA	JPN	2016
28:22.56	HELGA REICH	GER	2016	4:17.64	ANN HIRSCH	USA	2011	48.04	AIKO HORII	JPN	2015
28:29.39	DENISE ROBERTSON	AUS	2018	4:17.76	SYLVIA NEUHAUSER	AUT	2009	100 M. FREE			
29:04.81	JEAN TROY	USA	2007	4:19.28	ANNEMARIE LUDICKE	GER	2018	1:29.29	JANE ASHER	GBR	2016
29:35.03	MARGERY MEYER	USA	2002	50 M. FLY				1:43.68	JEAN TROY	USA	2012
30:08.84	ANNE WILLIAMS	USA	2019	46.21	JANE ASHER	GBR	2011	1:45.16	NAN BOHL	USA	2014
30:27.88	BETTY LORENZI	USA	2008	47.37	GAIL ROPER	USA	2009	1:46.13	OLGA KOKORINA	RUS	2009
30:35.70	FRANCA PARODI	ITA	2013	49.13	JUDIE OLIVER	CAN	2012	1:46.69	DOROTHY DICKEY	AUS	2017
30:41.01	RITA SIMONTON	USA	1999	49.85	HISAKO KITAYAMA	JPN	2018	1:47.59	OLGA JOHNSON	NZL	2006
30:43.41	MICHIKO OKUMURA	JPN	2011	50.03	FUMIKO NAKAMURA	JPN	2018	1:48.02	MARGERY MEYER	USA	2007
50 M. BACK				50.82	MARCELA STASTNA	CZE	2017	1:48.59	BETTY LORENZI	USA	2012
45.76	YOSHIKO OSAKI	JPN	2018	51.59	LUISE KNOPFLE	GER	2019	1:48.75	RITA SIMONTON	USA	2003
46.14	HELEN BIRD	AUS	2018	52.75	SHOKO YAMADA	JPN	2018	1:49.00	BRITT GRILLI	SWE	2013
46.39	BUNNY CEDERLUND	USA	2002	53.12	KATI FLORA	HUN	2017	200 M. FREE			
46.51	JANE ASHER	GBR	2012	56.52	MIDORI USUI	JPN	2018	3:21.29	JANE ASHER	GBR	2016
47.27	SHOKO YONEZAWA	JPN	2017	100 M. FLY				3:48.10	KATHARINA FLORA	HUN	2019
47.47	KATHARINA FLORA	HUN	2017	1:54.93	JUDIE OLIVER	CAN	2012	3:49.67	JEAN TROY	USA	2012
48.77	ALYCE VOGEL	USA	2014	2:01.54	SYLVIA NEUHAUSER	AUT	2009	3:50.54	DOROTHY DICKEY	AUS	2016
48.98	EVA JAROSOVA	CZE	2016	2:02.16	HELGA REICH	GER	2016	3:55.17	NAN BOHL	USA	2014
49.13	U.MEYER-TONNDORF	GER	2016	2:02.26	JANE ASHER	GBR	2011	3:56.11	MARGERY MEYER	USA	2007
49.40	MARGERY MEYER	USA	2002	2:02.44	MARCELA STASTNA	CZE	2017	3:59.07	LIZ WALLIS	AUS	2012
100 M. BACK				2:06.55	LOIS KIVI NOCHMAN	USA	2004	3:59.68	RITA SIMONTON	USA	2003
1:41.87	HELEN BIRD	AUS	2017	2:08.31	FUMIKO NAKAMURA	JPN	2018	4:00.92	AIKO HORII	JPN	2015
1:43.57	KATI FLORA	HUN	2017	2:14.91	Y.KAPLAN-BADER	FRA	2008	4:01.97	G. MCKENZIE-HICKS	AUS	2012
1:44.59	YOSHIKO OSAKI	JPN	2018	2:19.60	MIDORI USUI	JPN	2018	400 M. FREE			
1:45.62	EVA JAROSOVA	CZE	2016	2:21.88	GERTRUD MEERWALD	GER	2000	7:10.67	JANE ASHER	GBR	2016
1:45.89	K.FLORA-OROSZ	HUN	2018	200 M. FLY				7:41.26	KATHARINA FLORA	HUN	2019
1:46.11	JANE ASHER	GBR	2011	4:15.19	JUDIE OLIVER	CAN	2012	8:06.04	JEAN TROY	USA	2012
1:47.29	BETTY LORENZI	USA	2009	4:22.66	SYLVIA NEUHAUSER	AUT	2009	8:06.45	NAN BOHL	USA	2014
1:48.15	KATHARINA FLORA	ROU	2014	4:28.61	HELGA REICH	GER	2016	8:10.13	DOROTHY DICKEY	AUS	2017
1:48.64	BUNNY CEDERLUND	USA	2002	4:34.86	LOIS KIVI NOCHMAN	USA	2004	8:14.05	MARGERY MEYER	USA	2007
1:48.90	SHOKO YONEZAWA	JPN	2016	5:11.67	Y.KAPLAN-BADER	FRA	2008	8:17.82	RITA SIMONTON	USA	2003
200 M. BACK				5:12.38	BETTY RUSS	USA	2008	8:31.10	BETTY LORENZI	USA	2013
3:39.26	KATHARINA FLORA	HUN	2017	5:24.52	JEAN DURSTON	USA	1994	8:35.33	AIKO HORII	JPN	2015
3:39.27	YOSHIKO OSAKI	JPN	2018	5:29.93	MAXINE MERLINO	USA	1992	8:36.94	YOSHIKO KINOSHITA	JPN	2016
3:44.21	HELEN BIRD	AUS	2018	5:34.09	JAE HOWELL	USA	2003	800 M. FREE			
3:47.96	JANE ASHER	GBR	2012	5:48.70	NADIR TAUBERT	BRA	2014	14:27.71	JANE ASHER	GBR	2016
3:53.25	BETTY LORENZI	USA	2009	200 M. I.M.				16:45.59	DOROTHY DICKEY	AUS	2015
3:54.38	UTE REMENYI	AUT	2019	3:46.26	EVA JAROSOVA	CZE	2016	16:48.12	NAN BOHL	USA	2014
3:55.60	EVA JAROSOVA	CZE	2016	3:53.12	KATI FLORA	HUN	2017	17:09.73	MARGERY MEYER	USA	2007
3:56.63	JUDIE OLIVER	CAN	2014	3:54.07	JANE ASHER	GBR	2011	17:10.20	BETTY LORENZI	USA	2013
3:59.73	BUNNY CEDERLUND	USA	2002	3:59.70	JUDIE OLIVER	CAN	2012	17:14.24	RITA SIMONTON	USA	2003
4:04.09	KAZU KOYAMA	JPN	2019	4:01.84	K.FLORA-OROSZ	HUN	2018	17:49.83	OLGA JOHNSON	NZL	2006
50 M. BRST				4:07.83	TAYO FUJIEDA	JPN	2019	18:01.24	G. MCKENZIE-HICKS	AUS	2012
47.59	SHOKO YONEZAWA	JPN	2015	4:09.86	MARCELA STASTNA	CZE	2017	18:04.57	MARION BEULKE	AUS	2012
48.36	ELIANE PELLIS	BEL	2013	4:12.56	HELGA REICH	GER	2016	18:12.09	AIKO HORII	JPN	2015
48.74	GISELA GRUNER	GER	2018	4:18.27	ANN HIRSCH	USA	2011	1500 M. FREE			
49.49	AGNES OBBERGHEN	BEL	2012	4:18.33	SYLVIA NEUHAUSER	AUT	2009	28:11.18	JANE ASHER	GBR	2016
49.52	MARCELA STASTNA	CZE	2017	400 M. I.M.				32:11.49	MARGERY MEYER	USA	2009
51.37	ANNE WILLIAMS	USA	2018	8:21.88	JANE ASHER	GBR	2011	32:18.85	DOROTHY DICKEY	AUS	2016
51.39	JOANN LEILICH	USA	2019	8:23.81	JUDIE OLIVER	CAN	2012	32:32.53	BETTY LORENZI	USA	2012
51.62	LUISE KNOPFLE	GER	2019	8:51.30	HELGA REICH	GER	2016	32:33.60	RITA SIMONTON	USA	2003
51.70	TAYO FUJIEDA	JPN	2018	9:00.09	ANNEMARIE LUDICKE	GER	2018	34:33.46	YOSHIKO KINOSHITA	JPN	2016
51.75	MASAYO AZUMA	JPN	2015	9:22.68	DENISE ROBERTSON	AUS	2015	35:43.52	AIKO HORII	JPN	2015
100 M. BRST				9:24.85	TERUKO MURAKAMI	JPN	2018	36:42.40	JEAN DURSTON	USA	1999
1:45.71	SHOKO YONEZAWA	JPN	2015	9:32.43	JEAN TROY	USA	2007	36:42.79	JOAN CAMPBELL	USA	2015
1:49.04	JOANN LEILICH	USA	2019	9:43.23	LOIS KIVI NOCHMAN	USA	2006	36:42.82	ELIANE PELLIS	BEL	2019
1:49.34	MASAYO AZUMA	JPN	2015	9:45.48	GERTRUD MEERWALD	GER	2000	50 M. BACK			
1:50.05	ELIANE PELLIS	BEL	2013	9:47.75	KAZU KOYAMA	JPN	2019	44.92	JANE ASHER	GBR	2016
1:50.94	A.VAN OBBERGHEN	BEL	2011	*****				48.85	KATHARINA FLORA	HUN	2019
1:51.32	LUISE KNOPFLE	GER	2019	WOMEN 85-89				51.81	BETTY LORENZI	USA	2012
1:53.91	TAYO FUJIEDA	JPN	2018	*****				53.44	BUNNY CEDERLUND	USA	2006
1:54.64	ANNE WILLIAMS	USA	2018	50 M. FREE				55.68	KIMIKO OOKA	JPN	2014
1:57.17	ANN HIRSCH	USA	2011	38.98	JANE ASHER	GBR	2016	56.57	BETTY CHRISTIAN	USA	2006
1:57.56	SANTA JAARSVELD	RSA	2017	44.70	OLGA JOHNSON	NZL	2006	57.14	KERSTIN GJORES	SWE	2012
200 M. BRST								57.80	KII SAITO	JPN	2019



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

58.27	NANCY KINNEY	USA	2015	2:40.97	Y. KAPLAN-BADER	FRA	2013	4:48.89	BETTY LORENZI	USA	2017
58.34	MARGERY MEYER	USA	2008	2:43.95	BETTY RUSS	USA	2015	4:51.14	G. MCKENZIE-HICKS	AUS	2018
100 M. BACK				2:45.28	DOROTHY WESTON	GBR	1998	5:06.38	AUDREY ETIENNE	USA	2006
1:45.27	KATHARINA FLORA	HUN	2019	2:52.47	JAE HOWELL	USA	2007	5:08.88	VALERIE LINCOLN	AUS	2014
1:52.70	JANE ASHER	GBR	2016	2:58.82	THELMA BRYAN	AUS	2015	5:11.52	CHIYOKO TAKIZAWA	JPN	2012
1:54.22	BETTY LORENZI	USA	2012	2:58.95	NADIR TAUBERT	BRA	2018	400 M. FREE			
2:06.41	BUNNY CEDERLUND	USA	2006	2:59.53	JUNE REYNOLDS	USA	2007	9:04.93	RITA SIMONTON	USA	2008
2:07.47	KERSTIN GJORES	SWE	2012	200 M. FLY				9:30.36	MAURINE KORNFELD	USA	2011
2:08.11	KIMIKO OOKA	JPN	2014	5:07.64	LOIS KIVI NOCHMAN	USA	2009	9:34.65	JEAN TROY	USA	2018
2:09.37	NANCY KINNEY	USA	2015	5:41.48	BETTY RUSS	USA	2012	9:54.69	LIZ WALLIS	AUS	2018
2:10.44	EDITH THEIN	ISR	2004	5:49.75	JEAN DURSTON	USA	1999	10:07.56	G. MCKENZIE-HICKS	AUS	2018
2:10.46	SILVIA CRAVERI	ITA	2009	6:12.31	JAE HOWELL	USA	2007	10:30.72	HISAKO KOGA	JPN	2009
2:11.38	DOROTHY DICKEY	AUS	2015	6:18.45	Y. KAPLAN-BADER	FRA	2016	10:38.12	BETTY BRUSSEL	CAN	2014
200 M. BACK				6:21.16	THELMA BRYAN	AUS	2015	10:38.46	VALERIE LINCOLN	AUS	2014
3:43.27	KATHARINA FLORA	HUN	2019	6:35.26	MAXINE MERLINO	USA	1998	10:41.86	CHIYOKO TAKIZAWA	JPN	2012
4:00.25	JANE ASHER	GBR	2016	6:35.92	JUNE REYNOLDS	USA	2007	10:55.81	FUMI MURATA	JPN	2013
4:11.77	BETTY LORENZI	USA	2012	6:46.13	HARUKO SASAKI	JPN	2017	800 M. FREE			
4:29.16	EDITH THEIN	ISR	2003	7:18.41	KATHERINE PELTON	USA	1990	18:53.58	RITA SIMONTON	USA	2008
4:35.71	BUNNY CEDERLUND	USA	2006	200 M. I.M.				19:28.25	MAURINE KORNFELD	USA	2012
4:38.46	G. SCHOBEL-GRASS	GER	2011	3:54.86	KATHARINA FLORA	HUN	2019	21:48.05	G. MCKENZIE-HICKS	AUS	2017
4:42.52	DOROTHY DICKEY	AUS	2015	4:12.71	JANE ASHER	GBR	2016	22:01.97	VALERIE LINCOLN	AUS	2014
4:43.85	NANCY KINNEY	USA	2015	5:00.53	ANN HIRSCH	USA	2016	22:27.49	BETTY BRUSSEL	CAN	2014
4:44.76	MARJORIE SHARPE	USA	2002	5:01.26	JEAN TROY	USA	2014	22:42.50	WILLY VAN RYSEL	GBR	2006
4:45.60	KERSTIN GJORES	SWE	2012	5:07.89	AGNES KISS	HUN	2013	22:59.63	JOYCE O'FARRELL	AUS	2010
50 M. BRST				5:10.11	Y. KAPLAN-BADER	FRA	2015	23:01.12	MARIA LENK	BRA	2005
51.83	AGNES OBERBERGHEN	BEL	2016	5:11.92	LOIS KIVI NOCHMAN	USA	2009	23:04.42	MAXINE MERLINO	USA	2002
55.69	ELIANE PELLIS	BEL	2018	5:16.68	JEAN DURSTON	USA	1999	24:21.14	KALIS RASMUSSEN	CAN	2015
56.16	KATHARINA FLORA	HUN	2019	5:25.65	RITA SIMONTON	USA	2004	1500 M. FREE			
57.24	OLGA KOKORINA	RUS	2009	5:27.56	MAXINE MERLINO	USA	1997	36:02.20	RITA SIMONTON	USA	2008
59.16	JANE ASHER	GBR	2016	400 M. I.M.				42:10.07	VALERIE LINCOLN	AUS	2014
1:01.08	M. KAPCAROVA	SVK	2012	8:26.93	KATHARINA FLORA	HUN	2019	42:30.27	WILLY VAN RYSEL	GBR	2006
1:01.45	NAN BOHL	USA	2014	10:41.24	BETTY RUSS	USA	2012	43:09.97	JOYCE O'FARRELL	AUS	2010
1:02.35	SYLVIA EISELE	CAN	2014	10:45.77	JEAN TROY	USA	2012	44:46.30	MAXINE MERLINO	USA	2002
1:02.92	KIMIE KANAI	JPN	2009	10:48.77	LOIS KIVI NOCHMAN	USA	2009	47:05.74	CHIYOKO TAKIZAWA	JPN	2012
1:03.16	MICHELE GUILLAIS	FRA	2006	11:10.37	JEAN DURSTON	USA	1999	48:16.73	KALIS RASMUSSEN	CAN	2015
100 M. BRST				11:16.32	Y. KAPLAN-BADER	FRA	2014	49:40.76	KIKU ONO	JPN	2007
1:54.96	AGNES OBERBERGHEN	BEL	2016	11:21.06	MAXINE MERLINO	USA	1997	50:26.49	JULIA DOLCE	USA	1999
2:05.71	ELIANE PELLIS	BEL	2018	11:56.05	JAE HOWELL	USA	2007	51:19.79	KATH JOHNSTONE	NZL	2007
2:09.75	OLGA KOKORINA	RUS	2009	12:10.25	THELMA BRYAN	AUS	2015	50 M. BACK			
2:15.16	JANE ASHER	GBR	2018	12:16.14	KALIS RASMUSSEN	CAN	2009	56.89	BETTY LORENZI	USA	2017
2:20.49	NAN BOHL	USA	2014	*****				1:03.49	AILEEN SOULE	USA	1996
2:21.10	ETSUKO KIMURA	JPN	2015	*****				1:04.78	NOEL MORROW	CAN	2009
2:21.60	NADIR TAUBERT	BRA	2018	*****				1:05.08	WILLY VAN RYSEL	GBR	2006
2:22.94	M. KAPCAROVA	SVK	2012	*****				1:06.02	KALIS RASMUSSEN	CAN	2014
2:25.44	ANN HIRSCH	USA	2016	*****				1:06.71	LIZ WALLIS	AUS	2017
2:26.08	SETSUKO OKUBO	JPN	2017	*****				1:06.78	MASAKO KARAMATSU	JPN	2018
200 M. BRST				*****				1:06.84	KERSTIN GJORES	SWE	2017
4:18.23	AGNES OBERBERGHEN	BEL	2016	50 M. FREE				1:07.90	KIMIKO OOKA	JPN	2019
4:43.93	OLGA KOKORINA	RUS	2009	49.68	OLGA KOKORINA	RUS	2013	1:08.30	HANA ENATSU	JPN	2013
4:56.16	JANE ASHER	GBR	2018	51.68	MIEKO KAMOSHITA	JPN	2017	100 M. BACK			
5:04.17	ANN HIRSCH	USA	2016	52.09	JEAN TROY	USA	2017	2:07.31	BETTY LORENZI	USA	2017
5:14.41	NAN BOHL	USA	2014	54.97	HISAKO KOGA	JPN	2007	2:23.23	AILEEN SOULE	USA	1996
5:21.96	JEAN TROY	USA	2012	55.29	LIZ WALLIS	AUS	2017	2:25.93	WILLY VAN RYSEL	GBR	2006
5:23.25	BARBARA BOHM	GER	2006	55.48	MAURINE KORNFELD	USA	2011	2:27.81	KERSTIN GJORES	SWE	2017
5:24.11	EVA KOPLIKOVA	CZE	2012	55.76	AILEEN SOULE	USA	1996	2:30.63	MAURINE KORNFELD	USA	2011
5:26.04	SYLVIA EISELE	CAN	2014	56.28	YONE MURATA	JPN	2012	2:33.12	RITA SIMONTON	USA	2011
5:26.82	TERUKO ONO	JPN	2013	56.87	RITA SIMONTON	USA	2008	2:34.29	NOEL MORROW	CAN	2009
50 M. FLY				58.80	JULIA DOLCE	USA	1999	2:37.52	TRUDY BULLIVANT	AUS	2013
48.90	KATHARINA FLORA	HUN	2019	100 M. FREE				2:39.01	KALIS RASMUSSEN	CAN	2014
51.28	JANE ASHER	GBR	2016	1:58.86	JEAN TROY	USA	2017	2:40.14	KIMIKO OOKA	JPN	2019
1:01.94	LOIS KIVI NOCHMAN	USA	2009	1:59.86	OLGA KOKORINA	RUS	2013	200 M. BACK			
1:06.40	YONE MURATA	JPN	2007	2:00.12	HISAKO KOGA	JPN	2007	4:38.73	BETTY LORENZI	USA	2017
1:09.14	Y. KAPLAN-BADER	FRA	2013	2:03.13	MIEKO KAMOSHITA	JPN	2017	5:17.36	WILLY VAN RYSEL	GBR	2006
1:09.34	JEAN TROY	USA	2013	2:03.52	RITA SIMONTON	USA	2008	5:28.09	KALIS RASMUSSEN	CAN	2014
1:09.57	NORA RONAI	BRA	2010	2:05.78	LIZ WALLIS	AUS	2017	5:29.07	AILEEN SOULE	USA	1997
1:10.06	AGNES KISS	HUN	2012	2:08.53	MAURINE KORNFELD	USA	2012	5:29.12	G. SCHOBEL-GRASS	GER	2017
1:11.58	JEAN DURSTON	USA	1999	2:11.59	BETTY LORENZI	USA	2018	5:30.12	MAURINE KORNFELD	USA	2013
1:12.00	MARIA LENK	BRA	2000	2:18.36	G. MCKENZIE-HICKS	AUS	2018	5:36.07	KIMIKO OOKA	JPN	2019
100 M. FLY				2:19.14	AUDREY ETIENNE	USA	2006	5:38.48	TRUDY BULLIVANT	AUS	2013
2:01.26	KATHARINA FLORA	HUN	2019	200 M. FREE				5:41.35	MARIA LENK	BRA	2005
2:23.89	LOIS KIVI NOCHMAN	USA	2009	4:18.85	JEAN TROY	USA	2017	5:46.91	HANA ENATSU	JPN	2014
2:39.43	JEAN DURSTON	USA	2000	4:19.80	RITA SIMONTON	USA	2008	50 M. BRST			
				4:22.36	LIZ WALLIS	AUS	2017				
				4:22.57	OLGA KOKORINA	RUS	2013				
				4:30.03	MAURINE KORNFELD	USA	2013				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:03.72	OLGA KOKORINA	RUS	2013	1:19.87	KIKUE ISHII	JPN	2016	6:29.99	MIEKO NAGAOKA	JPN	2010
1:13.20	INGEBORG FRITZE	GER	2012	1:20.84	CHARLOTTE SANDDAL	USA	2017	7:09.94	CHARLOTTE SANDDAL	USA	2017
1:14.04	JEAN TROY	USA	2017	1:20.84	CLARICE ARTIS	AUS	2013	7:52.01	EDITH HENDRY	USA	2007
1:15.13	ETSUKO KIMURA	JPN	2019	100 M. FREE				8:49.98	BERNARDA ANGULO	ESP	2009
1:16.17	MARJORIE STONE	USA	2014	2:22.74	MAURINE KORNFELD	USA	2016	11:32.56	ANNE DUNIVIN	USA	2011
1:18.96	NORA RONAI	BRA	2015	2:23.86	RITA SIMONTON	USA	2013	50 M. BRST			
1:20.53	MICHELE GUILLAIS	FRA	2011	2:52.51	SUGAKO KUWAYAMA	JPN	2018	1:38.21	KALIS RASMUSSEN	CAN	2019
1:23.59	GWENDOLEN KASPAR	ITA	2019	2:53.28	VALERIE LINCOLN	AUS	2019	1:39.79	NORA RONAI	BRA	2019
1:25.57	MASAKO HASEGAWA	JPN	2016	2:56.83	MIEKO NAGAOKA	JPN	2009	1:44.41	NAKA FUKUOKA	JPN	2018
1:25.91	MARIA LENK	BRA	2005	3:05.81	FUMI MURATA	JPN	2018	2:16.08	CHARLOTTE SANDDAL	USA	2017
100 M. BRST				3:08.43	JULIA DOLCE	USA	2005	2:24.40	MIEKO NAGAOKA	JPN	2011
2:27.19	OLGA KOKORINA	RUS	2013	3:09.64	MARGO BATES	AUS	2006	3:02.62	KATH JOHNSTONE	NZL	2014
2:43.03	JEAN TROY	USA	2017	3:14.18	KIKUE ISHII	JPN	2016	3:13.99	MICHIO HAMURO	JPN	2014
2:49.30	ETSUKO KIMURA	JPN	2019	3:15.49	AUDREY ETIENNE	USA	2011	4:20.32	ROSA SELLARES	ESP	2005
2:55.27	MARJORIE STONE	USA	2013	200 M. FREE				100 M. BRST			
2:57.56	INGEBORG FRITZE	GER	2011	5:03.47	MAURINE KORNFELD	USA	2016	3:47.12	KALIS RASMUSSEN	CAN	2019
3:04.80	NAKA FUKUOKA	JPN	2013	5:04.08	RITA SIMONTON	USA	2013	4:37.87	CHARLOTTE SANDDAL	USA	2017
3:05.55	MASAKO SHOJI	JPN	2019	6:01.68	VALERIE LINCOLN	AUS	2019	8:00.98	MICHIO HAMURO	JPN	2014
3:06.14	NORA RONAI	BRA	2015	6:21.07	SUGAKO KUWAYAMA	JPN	2018	200 M. BRST			
3:09.14	KALIS RASMUSSEN	CAN	2014	6:30.34	MIEKO NAGAOKA	JPN	2009	7:42.36	KALIS RASMUSSEN	CAN	2019
3:12.88	MARIA LENK	USA	2005	7:28.35	CHARLOTTE SANDDAL	USA	2017	9:18.96	CHARLOTTE SANDDAL	USA	2017
200 M. BRST				7:34.27	MARGO BATES	AUS	2005	50 M. FLY			
5:21.78	OLGA KOKORINA	RUS	2013	7:48.08	LAURA OLIVEIRA	BRA	2014	1:56.76	NORA RONAI	BRA	2019
5:52.53	JEAN TROY	USA	2017	7:59.19	KATH JOHNSTONE	NZL	2014	100 M. FLY			
6:11.03	ETSUKO KIMURA	JPN	2019	8:57.26	M.DE FROMONT	FRA	2006	5:12.53	NORA RONAI	BRA	2019
6:34.01	MARJORIE STONE	USA	2015	400 M. FREE				200 M. FLY			
6:38.72	KALIS RASMUSSEN	CAN	2014	10:12.49	MAURINE KORNFELD	USA	2016	12:05.78	NORA RONAI	BRA	2019
6:49.90	TERUKO ONO	JPN	2018	10:47.07	RITA SIMONTON	USA	2013	200 M. I.M.			
6:53.97	BARBARA BOHM	GER	2010	12:16.30	VALERIE LINCOLN	AUS	2019	8:51.10	NORA RONAI	BRA	2019
6:54.46	INGEBORG FRITZE	GER	2012	13:52.13	MIEKO NAGAOKA	JPN	2011	400 M. I.M.			
6:57.76	MARIA LENK	USA	2005	15:41.63	CHARLOTTE SANDDAL	USA	2017	18:50.06	NORA RONAI	BRA	2019
7:10.69	BETTY BRUSSEL	CAN	2014	15:43.16	KATH JOHNSTONE	NZL	2014				
50 M. FLY				18:16.28	BERNARDA ANGULO	ESP	2007	*****			
1:22.05	YONE MURATA	JPN	2012	18:32.26	M.DE FROMONT	FRA	2006	WOMEN 100-104			
1:22.77	NORA RONAI	BRA	2014	22:01.50	ANNE DUNIVIN	USA	2011	*****			
1:29.40	CHARLOTTE SANDDAL	USA	2013	800 M. FREE				50 M. FREE			
1:33.12	RITA SIMONTON	USA	2008	21:39.10	MAURINE KORNFELD	USA	2017	1:41.88	MIEKO NAGAOKA	JPN	2014
1:45.61	KALIS RASMUSSEN	CAN	2014	21:53.69	RITA SIMONTON	USA	2013	2:43.80	ANNE DUNIVIN	USA	2016
1:53.22	R.FLORES	MEX	2014	24:54.86	VALERIE LINCOLN	AUS	2019	5:10.84	MARY MAINA	AUS	1994
2:29.08	GERTRUD ZINT	USA	2007	29:29.02	MIEKO NAGAOKA	JPN	2010	100 M. FREE			
4:42.00	HILDA BUEL	USA	2006	31:35.73	CHARLOTTE SANDDAL	USA	2017	3:45.85	MIEKO NAGAOKA	JPN	2014
4:57.25	ANNA BAUSCHER	USA	1994	33:53.37	KATH JOHNSTONE	NZL	2012	5:42.81	ANNE DUNIVIN	USA	2016
100 M. FLY				1500 M. FREE				6:17.75	MARGO BATES	AUS	2010
3:39.01	NORA RONAI	BRA	2014	41:39.68	RITA SIMONTON	USA	2013	200 M. FREE			
4:44.20	R.FLORES	MEX	2014	54:09.81	MIEKO NAGAOKA	JPN	2011	7:48.76	MIEKO NAGAOKA	JPN	2014
200 M. FLY				85:21.95	KATH JOHNSTONE	NZL	2015	12:06.09	ANNE DUNIVIN	USA	2016
8:52.22	NORA RONAI	BRA	2014	50 M. BACK				400 M. FREE			
10:39.85	R.FLORES	MEX	2014	1:14.31	RITA SIMONTON	USA	2013	16:36.80	MIEKO NAGAOKA	JPN	2014
200 M. I.M.				1:16.16	SUGAKO KUWAYAMA	JPN	2018	800 M. FREE			
6:30.12	RITA SIMONTON	USA	2008	1:17.35	MAURINE KORNFELD	USA	2016	38:04.30	MIEKO NAGAOKA	JPN	2014
6:32.52	NORA RONAI	BRA	2014	1:19.05	MIEKO NAGAOKA	JPN	2009	1500 M. FREE			
6:35.70	MAXINE MERLINO	USA	2003	1:22.29	FUMI MURATA	JPN	2018	74:08.73	MIEKO NAGAOKA	JPN	2014
6:55.97	KALIS RASMUSSEN	CAN	2014	1:24.78	KALIS RASMUSSEN	CAN	2019	50 M. BACK			
7:24.79	R.FLORES	MEX	2014	1:26.82	KIKUE ISHII	JPN	2016	1:33.89	MIEKO NAGAOKA	JPN	2014
8:11.91	CHARLOTTE SANDDAL	USA	2014	1:30.96	INGEBORG FRITZE	GER	2016	2:52.85	MARGO BATES	AUS	2010
12:03.55	HILDA BUEL	USA	2004	1:37.73	KIKU ONO	JPN	2013	100 M. BACK			
12:10.93	ANNA BAUSCHER	USA	1994	1:39.68	EDITH HENDRY	USA	2007	3:39.81	MIEKO NAGAOKA	JPN	2014
400 M. I.M.				100 M. BACK				6:36.82	MARGO BATES	AUS	2010
14:12.52	NORA RONAI	BRA	2014	2:42.67	RITA SIMONTON	USA	2013	200 M. BACK			
16:29.91	R.FLORES	MEX	2014	2:47.43	MAURINE KORNFELD	USA	2016	8:05.64	MIEKO NAGAOKA	JPN	2014
				2:51.91	SUGAKO KUWAYAMA	JPN	2018				
*****				2:55.56	MIEKO NAGAOKA	JPN	2010	*****			
WOMEN 95-99				3:00.45	KALIS RASMUSSEN	CAN	2019	M E N 25-29			
*****				3:26.93	MASAKO MATSUNO	JPN	2011	*****			
50 M. FREE				3:36.72	VALERIE LINCOLN	AUS	2019	50 M. FREE			
1:04.02	MAURINE KORNFELD	USA	2016	3:40.79	CLARICE ARTIS	AUS	2013	22.30	ARI LIUKONNEN	FIN	2017
1:07.45	RITA SIMONTON	USA	2013	3:42.90	EDITH HENDRY	USA	2007	22.79	A.WADDELL	AUS	1992
1:12.34	NORA RONAI	BRA	2019	4:03.66	LAURA OLIVEIRA	BRA	2014	22.94	PAVEL ZINKEVICH	BLR	2015
1:14.38	SHIZUE SHIMIZU	JPN	2006	200 M. BACK				22.97	SERGEY MUKHIN	RUS	2013
1:14.72	MARGO BATES	AUS	2007	5:42.64	MAURINE KORNFELD	USA	2016	23.00	FELIPE MESSIAS	BRA	2018
1:16.14	SUGAKO KUWAYAMA	JPN	2018	5:58.40	KALIS RASMUSSEN	CAN	2019	23.04	WYATT UBELLACKER	USA	2019
1:17.53	JULIA DOLCE	USA	2005	6:17.46	RITA SIMONTON	USA	2014	23.08	LINUS MAGNUSSON	SWE	2019



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

23.08	RYO ISHII	JPN	2018	56.20	VITALIY BORISOV	RUS	2015	54.86	V.SEMHAIKIN	UKR	2017
23.12	ALEXANDRE AGOSTIN	POR	2015	56.30	RYOUTA MAEJIMA	JPN	2019	54.94	TAKATSUGU OGA	JPN	2014
23.15	C.GRAHLEMANN	GER	2009	56.35	ANTON BUTYMOV	RUS	2016	54.95	CARLOS NASCIMENTO	BRA	2009
100 M. FREE				56.61	ANTON ANCHIN	RUS	2017	200 M. FLY			
50.45	MATTHEW MCGINNIS	USA	2013	56.80	CHRIS KING	RSA	2012	2:00.98	KO FUKAYA	JPN	2019
50.64	WILLIAM WAGNER	USA	2019	57.00	KEVIN DOAK	USA	2008	2:03.26	SATOSHI TORATANI	JPN	2008
50.74	FELIPE MESSIAS	BRA	2018	57.08	DMITRIY GORBUNOV	RUS	2019	2:04.14	KIMITAKA MINOBE	JPN	2003
50.74	NICK SHACKELL	USA	2000	57.10	DAVID DURANGO	ESP	2017	2:04.55	TAKATSUGU OGA	JPN	2018
50.75	KOSUKE MAEDA	JPN	2015	200 M. BACK				2:04.73	SOHEI WASHINO	JPN	2018
50.81	A.LIUKKONEN	FIN	2014	1:59.69	OMAR PINZON	COL	2016	2:05.26	PHILIPP GILGEN	SUI	2003
51.06	ADAM RITTER	USA	2013	2:02.76	DMITRIY GORBUNOV	RUS	2019	2:05.76	JASON EADDY	USA	2002
51.16	MICHAL BIELAWSKI	POL	2018	2:03.61	HAYES JOHNSON	USA	2017	2:05.80	ALEXANDRU COCI	ROU	2018
51.22	CAMERON OWEN	USA	2016	2:03.62	CHRIS KING	RSA	2012	2:06.28	FREDERICO CASTRO	BRA	2015
51.23	EDVALDO SILVA	BRA	2007	2:03.80	KAMIL KASPROWICZ	GER	2010	2:06.46	ANATOLIY POLYAKOV	RUS	2009
200 M. FREE				2:04.84	ANTON ANCHIN	RUS	2017	200 M. I.M.			
1:50.76	DAVID ALCOLADO	ESP	2017	2:06.30	ADRIANO NIZ	POR	2015	2:03.62	DMITRIY GORBUNOV	RUS	2019
1:51.00	JOHN KEPPELER	USA	1996	2:07.16	RYOUTA MAEJIMA	JPN	2019	2:04.40	ADAM RITTER	USA	2013
1:51.39	ADAM RITTER	USA	2013	2:07.24	DAVID DURANGO	ESP	2017	2:05.98	KAMIL KASPROWICZ	GER	2010
1:52.19	JOE TRISTAN	USA	2000	2:07.57	JOHN KEPPELER	USA	1992	2:06.33	HONZA VITAZKA	USA	2002
1:52.39	MATEO DE ANGULO	COL	2016	50 M. BRST				2:06.45	YUTA SHOJI	JPN	2009
1:52.77	MARIO MONTOYA	CRC	2014	27.58	ANTON PANFEROV	RUS	2019	2:06.59	TOBIAS ORIWOL	USA	2014
1:52.82	CHRIS KING	RSA	2012	27.58	KANAYA YUKI	JPN	2019	2:07.00	NICOLAS GRANGER	FRA	1994
1:53.16	CHRISTIAN HEIN	GER	2007	27.65	MAREK BOTIK	SVK	2017	2:07.02	ARNAUD RONDAN	FRA	2013
1:53.68	EDVALDO SILVA	BRA	2007	27.79	RENATO FERNANDEZ	PAR	2019	2:08.11	CONRADO LINO	BRA	2019
1:53.73	EDUARDO DUARTE	BRA	2016	27.84	IGOR GOLOVIN	RUS	2015	2:09.21	CAMERON REID	USA	1987
400 M. FREE				27.96	MARK GANGLOFF	USA	2011	400 M. I.M.			
3:58.94	MATEO DE ANGULO	COL	2016	28.02	KOHHEI TOMINAGA	JPN	2019	4:29.28	ARNAUD RONDAN	FRA	2013
4:00.98	HONZA VITAZKA	USA	2002	28.04	JORGE MURILLO	COL	2016	4:30.05	DIOGO YABE	BRA	2009
4:01.70	STEVE MELLOR	GBR	2001	28.13	A.VLADIMIROV	RUS	2015	4:31.47	NICOLAS GRANGER	FRA	1994
4:02.79	MARTIN HOHL	SUI	2009	28.15	A.ZAVERTKIN	RUS	2019	4:32.19	HONZA VITAZKA	USA	2002
4:02.95	BART REYEMEN	BEL	1998	100 M. BRST				4:32.45	DIRK ZINNOW	GER	2000
4:03.32	MARIO MONTOYA	CRC	2014	59.93	JORGE MURILLO	COL	2016	4:32.96	ALEX KOSTICH	USA	1997
4:03.63	ALEX KOSTICH	USA	1997	1:01.66	KANAYA YUKI	JPN	2018	4:34.08	CAMERON REID	USA	1987
4:05.09	MATTEO MONTANARI	ITA	2017	1:02.18	C.BURCKLE	USA	2013	4:40.43	CONRADO LINO	BRA	2019
4:05.35	S.MATANGKAPONG	THA	2019	1:02.19	RYO KOBAYASHI	JPN	2013	4:40.71	MATTEO MONTANARI	ITA	2017
4:05.99	CHIP HOBSON	USA	1994	1:02.44	GARY MARSHALL	USA	2008	4:41.14	MARCUS MATTIOLI	ITA	1988
800 M. FREE				1:02.65	CHRISTOPHER JONES	GBR	2007	*****			
8:22.43	ROBERT NUSSLE	GER	2013	1:03.16	A.VLADIMIROV	RUS	2015	M E N 30-34			
8:24.67	ALEX KOSTICH	USA	1997	1:03.51	RENATO FERNANDEZ	PAR	2019	*****			
8:27.48	MICHAEL DMITRIEV	GER	2012	1:03.56	NIKLAS HEDEGAARD	DEN	2018	50 M. FREE			
8:29.22	NICOLAS GRANGER	FRA	1994	1:03.60	MASAFUMI YOSHINO	JPN	2019	22.13	ROLAND SCHOEMAN	USA	2013
8:32.05	MATTEO MONTANARI	ITA	2017	200 M. BRST				22.53	SABIR MUHAMMAD	USA	2009
8:32.92	NEIL TAIT	GBR	1996	2:11.78	C.BURCKLE	USA	2013	22.68	FELIPE MESSIAS	BRA	2019
8:33.41	TAKUTO KITAYAMA	JPN	2019	2:12.81	JORGE MURILLO	COL	2016	22.80	ROBERT PEEL	USA	1996
8:33.62	S.MATANGKAPONG	THA	2019	2:15.47	KANAYA YUKI	JPN	2018	22.91	BRIAN JACOBSON	USA	2005
8:35.27	ROMAN YUSUPOV	RUS	2016	2:16.70	GARY MARSHALL	USA	2008	22.95	EVGENIY LAGUNOV	RUS	2018
8:35.91	CHIP HOBSON	USA	1994	2:17.51	JOHANNES DIETRICH	AUT	2018	23.09	YOSHIHIRO ASO	JPN	2018
1500 M. FREE				2:17.97	P.KAEWRUNGUEANG	THA	2019	23.12	SERGEY MUKHIN	RUS	2015
16:13.78	RAFAEL CABANILLAS	ESP	2015	2:18.17	CHRISTOPHER JONES	GBR	2008	23.12	FRANCISCO PINTO	BRA	2014
16:13.89	ALEX KOSTICH	USA	1997	2:19.73	ARTEM BABIKHIN	RUS	2018	23.13	BENJAMIN HOCKIN	PAR	2019
16:26.06	MARTIN HOHL	SUI	2012	2:19.73	DAISUKE KIMURA	JPN	2010	100 M. FREE			
16:28.63	C.HANSMANN	GER	2002	2:19.96	VINCENT DASSIE	FRA	2014	49.80	DARIAN TOWNSEND	USA	2016
16:28.69	CAMERON REID	USA	1987	50 M. FLY				50.20	BENJAMIN HOCKIN	PAR	2019
16:29.31	TAKUTO KITAYAMA	JPN	2018	23.58	M. PATTERSON	AUS	2013	50.34	ADAM RITTER	USA	2015
16:31.20	JOHN CALNAN	CAN	2006	23.71	KOHEI KAWAMOTO	USA	2008	50.39	EVGENIY LAGUNOV	RUS	2018
16:32.95	ROBERT NUSSLE	GER	2012	24.01	RYO ISHII	JPN	2015	50.70	FELIPE MESSIAS	BRA	2019
16:36.87	NICKY LANGE	GER	2009	24.20	TAKUYA KAGAMI	JPN	2018	50.79	P.KORZENIOWSKI	POL	2018
16:38.86	JULIEN BAILLOD	SUI	2009	24.27	JACK MARRIOTT	GBR	2017	50.84	S.KUNZELMANN	GER	2009
50 M. BACK				24.33	OLEG KUZNYETSOV	UKR	2018	51.06	ADAM PINE	AUS	2009
25.44	ANTON BUTYMOV	RUS	2016	24.35	SERGEY MUKHIN	RUS	2013	51.24	P.KUTSCHER	GER	2009
26.01	K.CHOGRATHIN	THA	2019	24.39	CARLOS VIVEROS	COL	2016	51.32	SERGEY MUKHIN	RUS	2015
26.05	ANTON ANCHIN	RUS	2017	24.41	SATOH KAICHI	JPN	2019	200 M. FREE			
26.05	ADAM MANIA	USA	2011	24.46	ALEXANDRU COCI	ROU	2018	1:49.56	DARIAN TOWNSEND	USA	2016
26.09	YURI COSTA	BRA	2014	24.46	HISAYOSHI SATO	JPN	2015	1:52.13	ADAM RITTER	USA	2015
26.11	CARRIL PEREIRO	ESP	2017	100 M. FLY				1:52.81	CHRISTIAN ORJUELA	COL	2017
26.12	VITALIY BORISOV	RUS	2015	53.09	KOHEI KAWAMOTO	USA	2008	1:53.15	DANIEL KOWALSKI	AUS	2009
26.13	HIROKI SAKURAI	JPN	2019	53.41	M. PATTERSON	AUS	2013	1:53.33	JACOB CARSTENSEN	DEN	2010
26.18	HIDEAKI AOKI	JPN	2010	54.00	CARLOS VIVEROS	COL	2016	1:53.46	TAMAS KERKJARTO	USA	2009
26.22	OMAR PINZON	COL	2016	54.07	GLAUBER SILVA	BRA	2015	1:54.18	D.STOCKINGER	AUT	2012
100 M. BACK				54.29	MATTHEW BOWE	GBR	2008	1:54.25	YURIY UFIMTSEV	RUS	2014
55.49	OMAR PINZON	COL	2016	54.73	M.BABUCHOWSKI	POL	2012	1:54.32	MASATAKA MISHIMA	JPN	2019
55.87	KURT CROSLAND	NZL	2013	54.79	ALEXANDRU COCI	ROU	2018				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:54.33	JOSH DAVIS	USA	2006	28.79	WOLFGANG MAIER	GER	2016	2:08.29	I.DRYMONAKOS	GRE	2018
400 M. FREE				28.85	TAKURO OSAKI	JPN	2019	400 M. I.M.			
3:58.12	DARIAN TOWNSEND	USA	2016	28.86	RYOSUKE IMAI	JPN	2009	4:20.81	DARIAN TOWNSEND	USA	2016
3:58.42	DANIEL KOWALSKI	AUS	2009	28.90	TAMAS SZABO	HUN	2018	4:24.11	LUKASZ WOJT	GER	2013
4:00.33	R.MONASTERIO	VEN	2010	28.96	OSSI OKSA	FIN	2018	4:31.36	DIOGO YABE	BRA	2012
4:01.06	JAN WOLFGARTEN	GER	2012	29.01	KEVIN BARTELL	USA	2019	4:32.74	KEITH BEAVERS	CAN	2014
4:01.70	JACOB CARSTENSEN	DEN	2012	29.01	SHIOTUKI TOMOHIRO	JPN	2019	4:33.91	THOMAS LURZ	GER	2012
4:04.17	MATEO MONTANARI	ITA	2019	100 M. BRST				4:35.41	ASUKA KOIZUMI	JPN	2010
4:04.37	THOMAS LURZ	GER	2012	1:01.25	RYO KOBAYASHI	JPN	2019	4:37.82	CHRISTIAN ORJUELA	COL	2017
4:05.01	ROSTISLAV VITEK	CZE	2009	1:02.71	ED MOSES	USA	2011	4:38.28	JULIEN BAILLOD	SUI	2012
4:05.19	CARLOS PAVAO	BRA	2007	1:02.90	EDUARDO FISCHER	BRA	2011	4:38.36	C.SORRENTINO	ITA	2008
4:05.61	ERIK HOCHSTEIN	USA	2002	1:03.16	ADAM RITTER	USA	2015	4:38.55	A.BEZUGLIY	USA	2016
800 M. FREE				1:03.26	RADOMYOS MATJIUR	THA	2019	*****			
8:08.68	JAN WOLFGARTEN	GER	2012	1:03.54	HAJIME IKEGAMI	JPN	2018	M E N 35-39			
8:10.78	THOMAS LURZ	GER	2012	1:03.59	GARY MARSHALL	USA	2013	*****			
8:16.52	R.MONASTERIO	VEN	2010	1:03.67	RYOSUKE IMAI	JPN	2011	50 M. FREE			
8:18.76	DANIEL KOWALSKI	AUS	2009	1:03.90	WOLFGANG MAIER	GER	2016	22.76	MARK FOSTER	GBR	2005
8:26.26	CARLOS PAVAO	BRA	2007	1:04.38	TAKAHIRO NETSU	JPN	2015	23.09	ANTHONY ERVIN	USA	2019
8:27.41	ROSTISLAV VITEK	CZE	2009	200 M. BRST				23.19	EDUARD LORENTE	ESP	2014
8:28.76	CHAD LA TOURETTE	USA	2019	2:18.04	GARY MARSHALL	USA	2012	23.20	ROWDY GAINES	JPN	1994
8:28.77	MATEO MONTANARI	ITA	2019	2:19.57	RADOMYOS MATJIUR	THA	2019	23.28	RYK NEETHLING	RSA	2012
8:33.81	R.QUINTANILLA	ESP	2017	2:19.57	HAJIME IKEGAMI	JPN	2018	23.28	M.GIALDI	ITA	2004
8:35.16	IGOR PIOVESAN	ITA	2008	2:19.67	ED MOSES	USA	2011	23.37	MIKE BILDOSOLA	ESP	2018
1500 M. FREE				2:19.91	BENNO HAWE	GER	2016	23.37	BRIAN JACOBSON	USA	2012
15:25.79	JAN WOLFGARTEN	GER	2012	2:20.43	NICK GILLINGHAM	GBR	1999	23.44	ANDREY KURNOSOV	RUS	2018
15:52.24	CHAD LA TOURETTE	USA	2019	2:21.25	HIROYUKI KOSAKA	JPN	2009	23.45	MATTHEW LUE	GBR	2017
16:30.41	ASUKA KOIZUMI	JPN	2009	2:21.28	TOMASZ DUSZYNSKI	POL	2008	100 M. FREE			
16:30.57	MARTIN HOHL	SUI	2013	2:21.43	JACOB CARSTENSEN	DEN	2012	50.78	HIDEAKI HARA	JPN	2009
16:33.47	R.QUINTANILLA	ESP	2017	2:21.70	ANDREA CAVALLETTI	ITA	2016	51.49	ROWDY GAINES	USA	1995
16:33.70	IGOR PIOVESAN	ITA	2008	50 M. FLY				51.52	MIKEL BILDOSOLA	ESP	2018
16:34.31	DAVID GENET	FRA	2012	23.26	ROLAND SCHOEMAN	USA	2013	51.73	ANTHONY ERVIN	USA	2019
16:35.67	SEBASTIAN WIESE	GER	2003	23.79	MICHAL SKRODZKI	AUS	2016	51.98	SVEN LODZIEWSKI	GER	2004
16:36.06	BOBBY PATTEN	USA	1993	24.05	FELIPE MESSIAS	BRA	2019	52.15	RICHARD SAEGER	USA	2001
16:36.46	RAFAEL CABANILLAS	ESP	2019	24.16	KAZUKI OOBAYASHI	JPN	2019	52.18	MARKUS ROGAN	USA	2019
50 M. BACK				24.25	NIKITA KONOVALOV	RUS	2018	52.22	VLAD PYSHNENKO	USA	2006
25.97	DARIAN TOWNSEND	USA	2016	24.41	GLAUBER SILVA	BRA	2016	52.23	MICHAEL ROSS	USA	2004
26.02	STEFAN HERBST	GER	2011	24.42	BENJAMIN HOCKIN	PAR	2019	52.27	TODD ROBINSON	AUS	2009
26.36	TOMOYA FUKUI	JPN	2019	24.47	UENO TATSUYA	JPN	2019	200 M. FREE			
26.42	KEVIN DOAK	USA	2012	24.59	KEVIN DOAK	USA	2012	1:52.84	VLAD PYSHNENKO	USA	2006
26.46	KAZUKI OOBAYASHI	JPN	2019	24.61	ADAM PINE	AUS	2009	1:54.86	RICHARD SAEGER	USA	2001
26.52	D. BLACKBORROW	AUS	2016	100 M. FLY				1:55.36	ROWDY GAINES	JPN	1994
26.54	LEONARDO SUMIDA	BRA	2017	53.11	ADAM PINE	AUS	2009	1:55.62	MICHAEL ROSS	USA	2006
26.54	R.FLOREA	ROM	2010	53.65	DARIAN TOWNSEND	USA	2014	1:55.63	IOAN GHERGHEL	ROU	2015
26.57	MANABU SASAKI	JPN	2019	54.12	MAKSIM GANIKHIN	RUS	2017	1:55.68	JOCHEN BRUHA	GER	2004
26.59	DERYA BUYUKUNCU	USA	2009	54.14	BENJAMIN HOCKIN	PAR	2019	1:55.77	CLAUS IVERSON	DEN	2015
100 M. BACK				54.19	I.GHERGHEL	ROM	2010	1:56.02	RONALD KARNAUGH	USA	2003
55.93	DARIAN TOWNSEND	USA	2014	54.61	V.SEMHAIKIN	UKR	2019	1:56.31	HIDEAKI HARA	JPN	2012
56.55	STEFAN HERBST	GER	2011	54.63	KAZUKI OOBAYASHI	JPN	2019	1:56.45	GUSTAVO HELENO	BRA	2011
57.22	TAKASHI TAKEMOTO	JPN	2018	54.83	KEVIN DOAK	USA	2012	400 M. FREE			
57.24	MARTIN HARRIS	GBR	2000	54.96	UENO TATSUYA	JPN	2019	4:05.91	PETAR STOYCHEV	GER	2012
57.46	R.FLOREA	ROM	2010	55.01	TAMAS KEREKJARTO	USA	2009	4:06.73	GUSTAVO HELENO	BRA	2011
57.47	D. BLACKBORROW	AUS	2016	200 M. FLY				4:07.53	NICOLA NISATO	ITA	2017
57.58	KEVIN DOAK	USA	2012	2:00.33	MIGUEL ALCALDE	ESP	2007	4:07.64	ROWDY GAINES	USA	1995
57.67	ENRICO CATALANO	ITA	2015	2:03.43	TAKATSUGU OGA	JPN	2019	4:09.32	DARIAN TOWNSEND	USA	2019
57.69	LEONARDO SUMIDA	BRA	2017	2:03.76	MATT HAAPT	USA	2010	4:09.74	DANIEL VERDAGUER	ESP	2006
57.81	JUNICHI MORITA	JPN	2019	2:03.85	BOBBY PATTEN	USA	1995	4:10.11	MARKUS ROGAN	USA	2019
200 M. BACK				2:05.28	MAKSIM GANIKHIN	RUS	2017	4:10.15	CLAUS IVERSEN	DEN	2012
2:02.75	ROGERIO ROMERO	BRA	2000	2:06.79	ASUKA KOIZUMI	JPN	2009	4:10.31	ERIK HOCHSTEIN	USA	2003
2:04.43	R.FLOREA	ROM	2010	2:06.82	PHILIPPE MEYER	SUI	2005	4:10.54	IGOR PIOVESAN	ITA	2009
2:05.62	SEAN MURPHY	USA	1994	2:06.84	IAN BECK	GBR	1996	800 M. FREE			
2:06.21	TAKASHI TAKEMOTO	JPN	2018	2:07.67	DENNY FERRONI	ITA	2018	8:18.44	PETAR STOYCHEV	GER	2012
2:06.30	MARTIN HARRIS	GBR	2000	2:07.71	JAMES BELARDI	USA	1987	8:35.29	GUSTAVO HELENO	BRA	2011
2:06.61	KEITH BEAVERS	CAN	2014	200 M. I.M.				8:36.90	NICOLA NISATO	ITA	2017
2:07.06	JUNICHI MORITA	JPN	2019	2:02.05	DARIAN TOWNSEND	USA	2016	8:38.73	ROWDY GAINES	USA	1996
2:07.34	A.MIGUEL NIZ	POR	2016	2:03.54	DIOGO YABE	BRA	2011	8:39.37	ANDREA MARCATO	ITA	2009
2:07.43	GEORGIOS DEMETIS	GRE	2017	2:04.91	KEITH BEAVERS	CAN	2014	8:39.49	IGOR PIOVESAN	ITA	2009
2:08.11	MARK VOGEL	DEN	2000	2:05.52	ISTVAN BATHAZI	USA	2009	8:41.16	DANIEL VERDAGUER	ESP	2006
50 M. BRST				2:05.60	TAMAS KEREKJARTO	USA	2010	8:41.53	R SEAN JUSTICE	USA	2011
27.95	RYO KOBAYASHI	JPN	2019	2:07.38	JACOB CARSTENSEN	DEN	2010	8:41.59	IGOR CHERVINSKIY	UKR	2018
28.24	SERGEY GEYBEL	RUS	2015	2:07.83	ALEXEY ZATSEPIN	RUS	2015	8:42.82	SAMUELE PAMPANA	ITA	2015
28.59	CARLOS ALENCAR	BRA	2009	2:07.96	ADAM RITTER	USA	2015	1500 M. FREE			
28.63	OLEG LISOGOR	UKR	2010	2:07.97	KOSUKE KOJIMA	USA	2009				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

16:00.04	PETAR STOYCHEV	GER	2012	2:23.54	GEOFF WELLS	USA	2018	24.02	VLADIMIR PREDKIN	RUS	2013
16:32.72	CHRISTOPHER DERKS	USA	2008	2:23.79	CHRISTOPHER JONES	GBR	2019	24.12	TOMMY RUNDGREN	FIN	2009
16:36.50	ANDREA MARCATO	ITA	2009	2:24.26	ALBERTO MONTINI	ITA	2004	100 M. FREE			
16:37.34	ROWDY GAINES	USA	1995	2:24.37	DAVID GUTHRIE	USA	1995	51.21	HIDEAKI HARA	JPN	2018
16:37.63	ROGER RABASSA	ESP	2018	50 M. FLY				51.72	VLAD PYSHNENKO	USA	2010
16:38.48	R SEAN JUSTICE	USA	2011	24.14	KOHEI KAWAMOTO	USA	2015	52.10	ERIK HOCHSTEIN	USA	2009
16:40.90	IGOR PIOVESAN	ITA	2009	24.47	RYAN PINI	PNG	2017	52.42	MICHAEL ROSS	USA	2009
16:43.67	MARKUS ROGAN	USA	2019	24.69	RYK NEETHLING	RSA	2012	52.55	CHRIS FYDLER	AUS	2012
16:45.04	MIKE SHAFFER	USA	2002	24.75	NIKOLAY SKVORTSOV	RUS	2019	53.19	STEFAN OPATRIL	AUT	2009
16:50.83	ERIK HOCHSTEIN	USA	2003	24.75	MARK FOSTER	GBR	2005	53.30	BRIAN JACOBSON	USA	2013
50 M. BACK				24.94	ALISTAIR CRAWFORD	GBR	2019	53.31	TOMMY RUNDGREN	FIN	2009
26.11	LUBOS KRIZKO	CZE	2016	25.00	WADE KING	USA	2002	53.45	RICH SAEGER	USA	2006
26.43	RYAN PINI	PNG	2017	25.01	DINKO MATIC	CRO	2019	53.49	MARC KEVIN ALLAN	RSA	2019
26.54	JEFF NATALIZIO	USA	2019	25.10	LEONARDO GOMES	BRA	2009	53.49	O.PLANES OSORIO	ESP	2016
26.98	DARIAN TOWNSEND	USA	2019	25.11	ANTHONY ERVIN	USA	2019	200 M. FREE			
26.99	STEV THELOKE	GER	2013	100 M. FLY				1:53.65	VLAD PYSHNENKO	USA	2010
27.00	RODRIGO FERREIRA	BRA	2019	53.65	KOHEI KAWAMOTO	USA	2018	1:55.06	MICHAEL ROSS	USA	2009
27.03	KENICHI KANEKO	JPN	2017	54.39	NIKOLAY SKVORTSOV	RUS	2019	1:55.06	RICH SAEGER	USA	2006
27.03	EDILSON SILVA	USA	2009	55.35	IOAN GHERGHEL	ROU	2015	1:55.70	ERIK HOCHSTEIN	USA	2008
27.11	LEONARDO GOMES	BRA	2009	55.43	TAMAS KEREKJARTO	USA	2015	1:55.75	CLAUS IVERSEN	DEN	2017
27.13	FELIX STEINHAEUER	SUI	2017	55.58	DIOGO YABE	BRA	2016	1:58.50	KAI DITZEL	GER	2004
100 M. BACK				55.62	BRENT CREAGER	USA	2015	1:58.60	ROSS DAVIS	USA	2006
57.91	RYAN PINI	PNG	2017	55.82	HIDEAKI HARA	JPN	2011	1:58.61	PAUL SMITH	USA	2001
58.48	MARCO MACCIANTI	ITA	2016	55.84	EIJI NOMURA	JPN	2009	1:58.66	JOCHEN BRUHA	GER	2009
58.86	IOAN GHERGHEL	ROU	2015	56.07	MICHAEL ROSS	USA	2004	1:58.66	JEFFREY UTSCH	USA	2008
58.87	FELIX STEINHAEUER	SUI	2017	56.19	GUSTAVO GIROTTO	BRA	2017	400 M. FREE			
59.04	STEV THELOKE	GER	2013	200 M. FLY				4:06.74	ERIK HOCHSTEIN	USA	2009
59.18	MICHAEL ROSS	USA	2006	2:02.54	NIKOLAY SKVORTSOV	RUS	2019	4:08.67	NICOLA NISATO	ITA	2019
59.36	C.GIBSON	USA	2019	2:04.76	BRENT CREAGER	USA	2015	4:11.04	SAMUELE PAMPANA	ITA	2017
59.50	OSAMU ITOI	JPN	2009	2:05.98	TAMAS KEREKJARTO	USA	2015	4:11.55	DENNIS BAKER	USA	2004
59.53	MAURIZIO TERSAR	ITA	2015	2:06.74	JEFF STUART	USA	1996	4:11.62	GUSTAVO HELENO	BRA	2016
59.58	NAOYUKI WATANABE	JPN	2018	2:07.13	BERNIE ZERUHN	USA	2006	4:12.99	IGOR PIOVESAN	ITA	2014
200 M. BACK				2:08.13	KIMITAKA MINOBE	JPN	2011	4:13.65	MARK THOMPSON	AUS	2009
2:07.16	RON KARNAUGH	USA	2001	2:08.51	WILLIAM SPECHT	USA	1994	4:13.82	JURE BUCAR	SLO	2006
2:07.97	MARCO MACCIANTI	ITA	2016	2:08.65	MIKE SHAFFER	USA	2002	4:14.37	MICHAEL PRUFERT	GER	2006
2:08.66	HIROAKI INOU	JPN	2016	2:09.03	PHILIPPE MEYER	SUI	2006	4:14.54	PAUL LEMMON	AUS	2009
2:09.26	DANIEL VEATCH	USA	2000	2:09.10	FRANK WATTLES	USA	2007	800 M. FREE			
2:09.65	DARRYL FOLLOWS	NZL	2002	200 M. I.M.				8:35.85	NICOLA NISATO	ITA	2019
2:09.67	A.PONTALTI	ITA	2012	2:05.65	DARIAN TOWNSEND	USA	2019	8:36.41	SAMUELE PAMPANA	ITA	2016
2:10.24	EDUARDO SEVIERI	BRA	2019	2:07.24	DIOGO YABE	BRA	2016	8:37.81	ALEX KOSTICH	USA	2010
2:10.38	NICHOLAS GRANGER	FRA	2002	2:07.84	MARKUS ROGAN	USA	2019	8:41.65	JEFF ERWIN	USA	2005
2:10.59	RICK GOULD	USA	2006	2:08.19	RON KARNAUGH	USA	2002	8:44.89	DANIEL SERRA	ESP	2008
2:10.99	MAURIZIO TERSAR	ITA	2015	2:09.85	I.DRYMONAKOS	GRE	2019	8:46.51	MICHAEL KLEIBER	GER	2005
50 M. BRST				2:11.23	NICOLAS GRANGER	FRA	2002	8:46.61	MICHAEL PRUFERT	GER	2005
28.53	JEFF COMMINGS	USA	2009	2:11.54	ANTONINO TRIPPEDO	ITA	2015	8:47.75	FREDERIK HVIID	USA	2014
28.61	FELIPE SANTOS	BRA	2016	2:12.03	TAMAS KEREKJARTO	USA	2014	8:48.69	JOSEPH RHYNE	USA	1999
28.68	MARKIC MATJAZ	SLO	2018	2:12.11	JOCHEN HANZ	GER	2015	8:49.38	RYAN COX	USA	2013
28.80	FELIPE DOS SANTOS	USA	2018	2:12.25	R.LOCOCIOLO	ITA	2010	1500 M. FREE			
28.80	VLADISLAV BRAGIN	RUS	2009	400 M. I.M.				16:24.76	NICOLA NISATO	ITA	2018
28.85	SERGEY GEYBEL	RUS	2017	4:34.10	RON KARNAUGH	USA	2001	16:36.91	ALEX KOSTICH	USA	2010
29.09	WALLY DICKS	USA	1998	4:36.66	I.DRYMONAKOS	GRE	2019	16:39.60	JEFF ERWIN	USA	2008
29.11	OLEG LISOGOR	UKR	2017	4:37.36	DIOGO YABE	BRA	2016	16:41.48	SAMUELE PAMPANA	ITA	2016
29.19	ANDRIY KULYK	UKR	2012	4:38.50	JULIEN BAILLOD	SUI	2015	16:45.53	MICHAEL KLEIBER	GER	2003
29.21	TIMO NOLTE	GER	2010	4:42.19	ANTONINO TRIPPEDO	ITA	2015	16:45.80	GUSTAVO HELENO	BRA	2016
100 M. BRST				4:42.45	NICOLAS GRANGER	FRA	2002	16:48.68	TIMOTHY GALLAUDET	USA	2008
1:03.76	JEFF COMMINGS	USA	2013	4:43.17	JEROME FRENTSOS	USA	2000	16:51.19	FREDERIK HVIID	USA	2014
1:03.89	PAVEL BUYANOV	RUS	2019	4:44.98	JOCHEN HANZ	GER	2015	16:54.95	MICHAEL PRUFERT	GER	2006
1:04.73	NICK GILLINGHAM	GBR	2004	4:45.47	DEREK GUFFEY	USA	2009	16:55.07	IGOR PIOVESAN	ITA	2014
1:04.78	FELIPE DOS SANTOS	USA	2018	4:45.98	SANDRO TOMAS	CRO	2008	50 M. BACK			
1:04.91	STEVE WEST	USA	2011	*****				27.13	NICHOLAS NECKLES	BAR	2019
1:04.97	KRASIMIR ZAHOV	BUL	2014	M E N 40-44				27.27	ALEXANDR SHILIN	RUS	2017
1:05.00	WALLY DICKS	USA	2000	*****				27.30	OSAMU ITOI	JPN	2014
1:05.07	ALBERTO MONTINI	ITA	2004	50 M. FREE				27.35	SERKAN ATASAY	TUR	2012
1:05.09	SERGEY GOGOL	RUS	2017	23.25	HIDEAKI HARA	JPN	2018	27.38	EDILSON SILVA	BRA	2010
1:05.38	VLADISLAV BRAGIN	RUS	2010	23.30	STEPHAN VOLERY	SUI	2001	27.47	MICHAEL ROSS	USA	2008
200 M. BRST				23.31	BRIAN JACOBSON	USA	2014	27.54	CHUCK BARNES	USA	2019
2:20.29	NICK GILLINGHAM	GBR	2004	23.47	LARS FROLANDER	SWE	2015	27.77	MAURIZIO TERSAR	ITA	2017
2:20.34	STEVE WEST	USA	2011	23.86	M.GIALDI	ITA	2008	27.79	ALEKSANDR SHILIN	RUS	2019
2:21.87	RON KARNAUGH	USA	2001	23.88	O.PLANES OSORIO	ESP	2016	27.79	SHINYA HAYASHI	JPN	2019
2:22.80	KRASIMIR ZAHOV	BUL	2014	23.95	ISAMU TSUZUKI	JPN	2017	100 M. BACK			
2:23.03	ANDREY IVANOV	RUS	2015	24.00	JUAN BENAVIDES	ESP	2016	58.45	NICHOLAS NECKLES	BAR	2019
2:23.46	STEPHAN PERROT	FRA	2016					59.08	MICHAEL ROSS	USA	2009



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

59.26	MAURIZIO TERSAR	ITA	2016	57.62	HENRY CLARK	USA	2005	2:00.44	MARK THOMPSON	AUS	2016
59.36	SERKAN ATASAY	TUR	2012	57.66	MARCIN KACZMAREK	POL	2017	2:00.44	PAUL SMITH	USA	2006
59.81	JEFF COMMINGS	USA	2014	57.66	CLAUS IVERSEN	DEN	2017	400 M. FREE			
59.92	SHINYA HAYASHI	JPN	2019	200 M. FLY				4:09.20	DENNIS BAKER	USA	2008
1:00.39	OSAMU ITOI	JPN	2014	2:05.55	DENNIS BAKER	USA	2004	4:11.07	KEITH SWITZER	USA	2009
1:00.52	MARCIN KACZMAREK	POL	2017	2:09.47	WILLIAM SPECHT	USA	1998	4:13.86	NICOLAS GRANGER	FRA	2012
1:00.56	CHRIS STEVENSON	USA	2008	2:09.96	CLAUS IVERSEN	DEN	2017	4:14.81	MARCUS MATTIOLI	BRA	2006
1:00.62	EDILSON SILVA	BRA	2010	2:10.20	MIKE SHAFFER	USA	2006	4:14.92	FABIO CALMASINI	ITA	2014
200 M. BACK				2:10.88	FERNANDO FARRERES	ESP	2017	4:16.20	MICHAEL PRUFERT	GER	2009
2:08.06	NICHOLAS NECKLES	BAR	2019	2:11.16	TOSHIYUKI IBE	JPN	2010	4:16.55	IGOR PIOVESAN	ITA	2019
2:10.46	MAURIZIO TERSAR	ITA	2016	2:11.21	EIJI NOMURA	JPN	2012	4:17.21	MARK THOMPSON	AUS	2014
2:11.13	FREDERIK HVIID	USA	2014	2:11.37	KIMITAKA MINOBE	JPN	2018	4:17.73	GREG STREPPPEL	CAN	2014
2:12.34	SHINYA HAYASHI	JPN	2018	2:11.49	ISAMU TSUZUKI	JPN	2014	4:17.87	VALTER KALAUS	HUN	2017
2:12.53	CHUCK BARNES	USA	2019	2:11.53	JAMES BELARDI	USA	1997	800 M. FREE			
2:12.77	MARK VOGEL	DEN	2010	200 M. I.M.				8:40.79	FABIO CALMASINI	ITA	2015
2:12.82	EDUARDO MAROCCO	BRA	2012	2:10.63	ALBERTO MONTINI	ITA	2009	8:42.85	MARCUS MATTIOLI	BRA	2006
2:13.31	RENE SAEZ	PUR	2014	2:11.31	ANTONINO TRIPPODO	ITA	2016	8:50.06	MICHAEL KLEIBER	GER	2009
2:13.37	SEAN MURPHY	USA	2006	2:12.41	PETER BERMEL	GER	2007	8:51.98	JEFF ERWIN	USA	2010
2:13.48	CHRIS STEVENSON	USA	2008	2:12.73	UWE VOLK	GER	2010	8:52.20	MICHAEL PRUFERT	GER	2009
50 M. BRST				2:13.45	CLAUS IVERSEN	DEN	2017	8:53.33	IGOR PIOVESAN	ITA	2019
28.84	ALBERTO MONTINI	ITA	2009	2:13.71	JEFF COMMINGS	USA	2016	8:57.10	MARK THOMPSON	AUS	2014
29.02	JEFF COMMINGS	USA	2014	2:13.76	ASUKA KOIZUMI	JPN	2019	8:58.50	RICARDO VALDIVIA	USA	2009
29.04	RYOSUKE IMAI	JPN	2019	2:14.13	ERIK HOCHSTEIN	USA	2009	8:58.84	JIM MCCONICA	USA	1999
29.16	VLADISLAV BRAGIN	RUS	2012	2:14.32	MASANORI TAKEGAWA	JPN	2019	8:59.81	GREG STREPPPEL	CAN	2014
29.29	STEVE WEST	USA	2016	2:14.39	LORENZO BENUCCI	USA	2007	1500 M. FREE			
29.32	SERGEY FIRICHENKO	RUS	2015	400 M. I.M.				16:38.81	JEFF ERWIN	USA	2009
29.46	ANDRIY KULYK	NCA	2014	4:43.00	UWE VOLK	GER	2012	16:57.17	RICARDO VALDIVIA	USA	2009
29.53	HIDEAKI TOGO	JPN	2012	4:43.25	ANTONINO TRIPPODO	ITA	2016	16:58.68	MICHAEL KLEIBER	GER	2009
29.56	YOZO FUJII	JPN	2009	4:46.90	A.BORGIALLI	ITA	2014	17:09.29	IGOR PIOVESAN	ITA	2019
29.57	NAOTO KUMAGAI	JPN	2017	4:47.01	PETER BERMEL	GER	2007	17:10.90	GEORGE TIDMARSH	USA	2005
100 M. BRST				4:47.82	ERIC CHRISTENSEN	USA	2018	17:11.41	MICHAEL PRUFERT	GER	2009
1:03.60	VLADISLAV BRAGIN	RUS	2012	4:48.27	ASUKA KOIZUMI	JPN	2019	17:12.28	MARCUS MATTIOLI	BRA	2008
1:03.76	STEVE WEST	USA	2012	4:48.32	ALBERTO MONTINI	ITA	2012	17:16.00	FABIO CALMASINI	ITA	2015
1:05.04	ALBERTO MONTINI	ITA	2009	4:48.94	CLAUS IVERSEN	DEN	2019	17:16.16	GLAUCO RANGEL	BRA	2017
1:05.28	JEFF COMMINGS	USA	2014	4:49.34	DAVID MECA	ESP	2014	17:23.73	CALUM MCKINLAY	GBR	2009
1:05.61	RYOSUKE IMAI	JPN	2019	4:49.42	DENNIS BAKER	USA	2005	50 M. BACK			
1:05.97	RICO ROLLI	ITA	2009					27.67	SERKAN ATASAY	TUR	2017
1:06.15	SERGEY FIRICHENKO	RUS	2014	*****				27.86	OSAMU ITOI	JPN	2019
1:06.16	YOZO FUJII	JPN	2009	M E N 45-49				28.04	ADRIAN O'CONNOR	IRL	2019
1:06.37	VAL BAGRI	USA	2015	*****				28.05	STEVE WOOD	USA	2008
1:06.60	MAKOTO ONODERA	JPN	2009	50 M. FREE				28.14	ANDE RASMUSSEN	USA	2008
200 M. BRST				23.55	HIDEAKI HARA	JPN	2019	28.25	Fritz BEDFORD	USA	2011
2:18.94	ALBERTO MONTINI	ITA	2009	23.96	ISAMU TSUZUKI	JPN	2019	28.32	J CLAY BRITT	USA	2008
2:19.01	STEVE WEST	USA	2012	23.98	VLADIMIR PREDKIN	RUS	2014	28.44	CHRIS STEVENSON	USA	2009
2:23.09	VLADISLAV BRAGIN	RUS	2012	24.12	BRIAN JACOBSON	USA	2018	28.47	NICOLAS GRANGER	FRA	2015
2:24.19	ROQUE SANTOS	USA	2008	24.26	BRENT BARNES	JPN	2004	28.49	TOMAS LOPEZ	DOM	2018
2:26.01	STEPHAN PERROT	FRA	2017	24.29	PAUL SMITH	USA	2006	100 M. BACK			
2:27.22	BEN HARKIN	GBR	2018	24.34	M.GIALDI	ITA	2013	1:00.13	STEVE WOOD	USA	2008
2:27.35	HIROYUKI KOSAKA	JPN	2017	24.35	RAVIL NAGAEV	RUS	2019	1:00.55	CHRIS STEVENSON	USA	2009
2:27.67	VAL BAGRI	USA	2015	24.40	STEVE WOOD	USA	2008	1:00.97	SERKAN ATASAY	TUR	2017
2:28.07	MARTIN DE WILDT	NED	2017	24.50	ANDREA NICOLAO	ITA	2009	1:01.12	EDUARDO MAROCCO	BRA	2014
2:28.25	DAISUKE MIYASAKA	JPN	2015	24.50	ANDE RASMUSSEN	USA	2008	1:01.14	OSAMU ITOI	JPN	2019
50 M. FLY				100 M. FREE				1:01.40	RICK GOULD	USA	2015
25.06	EIJI NOMURA	JPN	2015	52.24	HIDEAKI HARA	JPN	2019	1:01.71	NICOLAS GRANGER	FRA	2012
25.07	SERKAN ATASAY	TUR	2011	53.66	VALTER KALAUS	HUN	2017	1:01.86	LARS KALENKA	GER	2018
25.11	JAMES ZENYUH	USA	2018	53.77	NICOLAS GRANGER	USA	2016	1:01.94	GREG KAHN	GBR	2016
25.22	MARC KEVIN ALLAN	RSA	2019	53.77	MARCO COLOMBO	ITA	2005	1:02.00	DANIEL COTTON	GBR	2019
25.38	CHUCK BARNES	USA	2019	53.90	JACK GROSELLE	USA	1999	200 M. BACK			
25.51	JOHN BATES	AUS	2011	54.08	MARK THOMPSON	AUS	2016	2:11.56	EDUARDO MAROCCO	BRA	2013
25.54	MASATERU IKEDA	JPN	2012	54.10	MATTHEW BIONDI	USA	2014	2:13.37	RICH SAEGER	USA	2012
25.57	MICHAEL ROSS	USA	2009	54.15	PAUL SMITH	USA	2008	2:14.32	NICOLAS GRANGER	FRA	2015
25.58	MASATO SAKAI	JPN	2015	54.16	FREDERIC TONUS	BEL	2018	2:15.14	GREG KAHN	GBR	2017
25.63	PETR GREGOR	CZE	2015	54.22	JAMES MONTGOMERY	USA	2002	2:15.68	LARS KALENKA	GER	2018
100 M. FLY				200 M. FREE				2:15.83	CHRIS STEVENSON	USA	2011
56.17	SERKAN ATASAY	TUR	2011	1:57.75	NICOLAS GRANGER	FRA	2014	2:16.06	PAUL LEMMON	AUS	2012
56.43	MICHAEL ROSS	USA	2008	1:57.89	KEITH SWITZER	USA	2009	2:16.76	DANIEL COTTON	GBR	2019
56.98	EIJI NOMURA	JPN	2015	1:59.07	VALTER KALAUS	HUN	2017	2:16.78	TAIHEI SAKA	JPN	2009
57.20	IOAN GHERGHEL	ROU	2018	1:59.34	DENNIS BAKER	USA	2009	2:17.13	MARK VOGEL	DEN	2015
57.22	MATA SANGUINETTY	VEN	2015	1:59.37	KAI DITZEL	GER	2008	50 M. BRST			
57.30	PETR GREGOR	CZE	2015	1:59.56	MARCUS MATTIOLI	BRA	2006	29.22	HIDEAKI TOGO	JPN	2019
57.41	MASATERU IKEDA	JPN	2012	1:59.60	MARCO COLOMBO	ITA	2007	29.31	VLADISLAV BRAGIN	RUS	2018
57.57	PAUL CARTER	USA	2001	2:00.09	FABIO CALMASINI	ITA	2014	29.42	STEVE WEST	USA	2019



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

29.51	SERKAN ATASAY	TUR	2017	2:16.83	LORENZO BENUCCI	USA	2014	1500 M. FREE	
29.55	JEFF COMMINGS	USA	2019	2:16.88	KURT GROTE	USA	2019	17:08.33	JIM MCCONICA USA 2000
29.63	RICO ROLLI	ITA	2011	400 M. I.M.				17:18.59	BRENT FOSTER NZL 2018
29.70	V.ZAGREBENKO	RUS	2009	4:43.83	NICOLAS GRANGER	FRA	2014	17:33.87	MICHAEL KLEIBER GER 2014
29.90	JENS LUTSCHIN	GER	2009	4:47.65	JEROME FRENTSOS	USA	2010	17:34.04	MARCUS MATTIOLI BRA 2011
29.96	YOZO FUJII	JPN	2014	4:48.36	ALBERTO MONTINI	ITA	2014	17:35.40	DINO SCHORN ITA 2018
29.97	STEFAN SCHERLING	SWE	2017	4:50.27	MARCUS MATTIOLI	BRA	2008	17:39.99	KURT DICKSON USA 2017
100 M. BRST				4:50.73	DENNIS BAKER	USA	2006	17:40.70	MARK DRENNEN USA 2006
1:04.77	STEVE WEST	USA	2019	4:55.26	SERGEY MARINIUK	USA	2014	17:44.07	ARNALDO PEREZ PUR 2015
1:05.29	JEFF COMMINGS	USA	2019	4:55.65	FABIO CALMASINI	ITA	2014	17:47.18	IACOVO LUCA DI ITA 2018
1:05.30	VLADISLAV BRAGIN	CZE	2016	4:55.83	TAIHEI SAKA	JPN	2010	17:50.94	BARTON WELLS USA 2017
1:05.95	NICOLAS GRANGER	FRA	2015	4:56.10	IGOR PIOVESAN	ITA	2019	50 M. BACK	
1:06.19	HIDEAKI TOGO	JPN	2018	4:56.57	GREG STREPPPEL	CAN	2014	28.02	MARCUS MATTIOLI BRA 2013
1:06.35	V.PYLYPCHENKO	UKR	2009	*****				28.58	RICK GOULD USA 2018
1:06.67	RICO ROLLI	ITA	2010	M E N 50-54				28.60	STEVE WOOD USA 2011
1:07.38	DAVID GUTHRIE	USA	2008	*****				28.64	NICOLAS GRANGER FRA 2017
1:07.65	YOZO FUJII	JPN	2014	50 M. FREE				28.77	CLAY BRITT USA 2014
1:07.71	SERGEY FRICHENKO	RUS	2019	24.08	BRENT BARNES	JPN	2009	28.84	FRITZ BEDFORD USA 2014
1:07.71	MAKOTO ONODERA	JPN	2014	24.34	CALVIN MAUGHAN	RSA	2015	29.02	CRAIG NORREY SUI 2014
200 M. BRST				24.57	VLADIMIR PREDKIN	RUS	2019	29.16	HIROYOSHI MAETOGUE JPN 2015
2:19.44	STEVE WEST	USA	2018	24.58	ROWDY GAINES	USA	2009	29.39	BRYAN JENNINGS USA 2013
2:23.64	VLADISLAV BRAGIN	RUS	2018	24.60	RICHARD ABRAHAMS	USA	1998	29.43	JAMIE FOWLER USA 2009
2:24.39	ALBERTO MONTINI	ITA	2013	24.81	MICHAEL HODGSON	GBR	2017	100 M. BACK	
2:24.91	V.PYLYPCHENKO	UKR	2009	24.88	RICK ABBOTT	USA	2008	1:01.57	NICOLAS GRANGER USA 2017
2:27.76	HIDEAKI TOGO	JPN	2018	24.89	JACK GROSELLE	USA	2004	1:01.89	STEVE WOOD USA 2011
2:27.79	DAVID GUTHRIE	USA	2008	24.91	HARALD KRUGER	RSA	2017	1:02.17	RICK GOULD USA 2018
2:29.51	BYRON SHEFCHIK	USA	2019	24.94	TRIP HEDRICK	USA	2006	1:02.77	CLAY BRITT USA 2014
2:30.67	ABRAHAM SOLANO	ECU	2014	100 M. FREE				1:02.93	JAMIE FOWLER USA 2009
2:31.97	MAKOTO ONODERA	JPN	2014	54.15	NICOLAS GRANGER	FRA	2017	1:03.44	MINAKOV VALERIJS LAT 2010
2:32.03	NICOLAS GRANGER	FRA	2016	54.36	CALVIN MAUGHAN	RSA	2015	1:03.48	HIROYOSHI MAETOGUE JPN 2015
50 M. FLY				54.61	ROWDY GAINES	JPN	2011	1:03.50	FRITZ BEDFORD USA 2014
25.26	HIDEAKI HARA	JPN	2019	54.93	JACK GROSELLE	USA	2004	1:03.71	CHRIS STEVENSON USA 2014
25.33	ISAMU TSUZUKI	JPN	2019	54.94	BOB BUGG	USA	2009	1:03.74	NICOLAS PAPE BEL 2018
25.35	EIJI NOMURA	JPN	2019	55.11	DAN STEPHENSON	USA	2007	200 M. BACK	
25.48	SERKAN ATASAY	TUR	2017	55.13	RICK ABBOTT	USA	2008	2:14.53	NICOLAS GRANGER USA 2017
25.65	NICHOLAS DECKER	USA	2012	55.38	TRIP HEDRICK	USA	2006	2:16.79	RICK GOULD USA 2018
25.77	MASATERU IKEDA	JPN	2017	55.42	PAUL SMITH	USA	2009	2:16.79	LUCA VIGNERI ITA 2017
25.79	RAVIL NAGAEV	RUS	2019	55.49	STEVE WOOD	USA	2012	2:17.57	MICHAEL SODERLUND USA 2012
25.89	FREDERIC TONUS	LUX	2019	200 M. FREE				2:17.74	JAMIE FOWLER USA 2009
25.90	PAUL SMITH	USA	2006	1:58.62	NICOLAS GRANGER	FRA	2017	2:19.35	KURT DICKSON USA 2017
26.03	ANDE RASMUSSEN	USA	2008	2:00.34	DAN STEPHENSON	USA	2007	2:20.04	MATTHEW NANCE USA 2015
100 M. FLY				2:01.40	BOB BUGG	USA	2009	2:20.51	TOM WOLF USA 2004
56.42	PAUL CARTER	USA	2002	2:02.14	MARCUS MATTIOLI	BRA	2012	2:20.53	BRYAN JENNINGS USA 2013
57.08	SERKAN ATASAY	TUR	2017	2:02.16	KEITH SWITZER	USA	2013	2:20.77	DARRYL FOLLOWS NZL 2018
57.60	PAUL SMITH	USA	2008	2:02.50	JIM MCCONICA	USA	2000	50 M. BRST	
57.74	ISAMU TSUZUKI	JPN	2019	2:02.71	MARK THOMPSON	AUS	2019	30.26	MICHAEL HODGSON GBR 2017
57.99	EIJI NOMURA	JPN	2019	2:03.07	DINO SCHORN	ITA	2018	30.48	DAVID GUTHRIE USA 2013
58.25	NICOLAS GRANGER	FRA	2016	2:03.31	RICH SAAGER	USA	2015	30.56	MAKOTO ONODERA JPN 2017
58.31	JOHN CUNNINGHAM	IRL	2017	2:03.51	ROWDY GAINES	JPN	2010	30.79	FABIO CAVALLI ITA 2018
58.47	C.LUTOTOVICH	ARG	2009	400 M. FREE				30.85	CARLO TRAVAINI ITA 2017
58.73	HIDEAKI HARA	JPN	2019	4:15.93	NICOLAS GRANGER	USA	2017	30.88	RICHARD SCHROEDER USA 2012
58.75	FREDERIC TONUS	LUX	2019	4:16.61	DAN STEPHENSON	USA	2007	30.92	RICO ROLLI ITA 2016
200 M. FLY				4:18.03	RICARDO VALDIVIA	USA	2014	30.93	S.TAKAHASHI JPN 2015
2:04.07	DENNIS BAKER	USA	2008	4:19.05	MARCUS MATTIOLI	BRA	2014	30.95	SPINADIN PIANCA ITA 2019
2:08.34	MARCUS MATTIOLI	BRA	2006	4:19.47	JIM MCCONICA	USA	2000	30.97	OLIVIER BORIOS FRA 2009
2:10.97	PAUL CARTER	USA	2002	4:20.71	BOB BUGG	USA	2009	30.97	GARY PATTERSON USA 2009
2:11.02	WILLIAM SPECHT	USA	2003	4:21.80	DINO SCHORN	ITA	2018	100 M. BRST	
2:13.45	TOSHIYUKI IBE	JPN	2015	4:22.79	JOSEPH RHYNE	USA	2009	1:06.98	DAVID GUTHRIE USA 2014
2:13.52	ANDREA MARCATO	ITA	2019	4:23.31	FABIO CALMASINI	ITA	2018	1:07.85	MICHAEL HODGSON GBR 2017
2:13.69	M.CACCIAMANI	ITA	2011	4:24.31	DANIEL MACHEK	CZE	2009	1:08.00	NICOLAS GRANGER FRA 2017
2:13.93	MIKE SHAFFER	USA	2014	800 M. FREE				1:08.66	CARLO TRAVAINI ITA 2017
2:14.30	EIJI NOMURA	JPN	2019	8:49.22	FABIO CALMASINI	ITA	2018	1:09.23	RICHARD SCHROEDER USA 2012
2:14.96	JIM BELARDI	USA	2002	8:55.05	MARCUS MATTIOLI	BRA	2010	1:09.35	HAJIME MORIMOTO JPN 2018
200 M. I.M.				8:56.31	RICARDO VALDIVIA	USA	2014	1:09.36	GARY PATTERSON USA 2009
2:10.09	NICOLAS GRANGER	USA	2016	8:59.55	MARK THOMPSON	AUS	2019	1:09.57	JIM TUCHLER USA 2015
2:14.90	JEROME FRENTSOS	USA	2010	9:00.39	KEITH SWITZER	USA	2013	1:09.63	ALBERTO MONTINI ITA 2019
2:14.94	DAVID WARREN	GBR	2016	9:03.84	JIM MC CONICA	USA	2001	1:09.85	MAKOTO ONODERA JPN 2017
2:15.07	ALBERTO MONTINI	ITA	2014	9:04.06	DINO SCHORN	ITA	2019	1:09.85	S.TAKAHASHI JPN 2015
2:16.12	DENNIS BAKER	USA	2006	9:06.61	DAN STEPHENSON	USA	2007	200 M. BRST	
2:16.21	SERGEY MARINIUK	USA	2014	9:09.69	BRENT FOSTER	NZL	2018	2:27.91	DAVID GUTHRIE USA 2013
2:16.32	TAIHEI SAKA	JPN	2009	9:11.16	MICHAEL KLEIBER	GER	2013	2:31.16	ALBERTO MONTINI ITA 2018
2:16.42	STEVE WEST	USA	2018					2:32.55	CARLO TRAVAINI ITA 2017



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

2:33.14	NICOLAS GRANGER	FRA	2018	25.51	STEVE WOOD	USA	2016	1:03.50	STEVE WOOD	USA	2015
2:33.54	V.PYLYPCHENKO	UKR	2014	25.52	BRYAN TATTERSON	USA	2019	1:05.46	TOM BARTON	USA	2011
2:34.55	HAJIME MORIMOTO	JPN	2018	25.53	RICHARD ABRAHAMS	USA	2002	1:05.80	CLAY BRITT	USA	2018
2:34.58	MICHAEL HODGSON	GBR	2017	25.54	AHMET NAKKAS	TUR	2017	1:06.14	GARY HALL	USA	2009
2:34.62	JIM TUCHLER	USA	2015	25.59	DOUG MARTIN	USA	2009	1:06.47	GLENN PATCHING	USA	2016
2:34.70	TIMUR PODMAREV	RUS	2007	100 M. FREE				1:06.83	LEN GUSHE	CAN	2018
2:35.08	LORENZO MARUGO	ITA	2004	55.63	CALVIN MAUGHAN	RSA	2019	1:06.99	FRANCESCO PETTINI	ITA	2018
50 M. FLY				56.08	JACK GROSELLE	USA	2009	1:07.03	CRAIG NORREY	SUI	2016
25.88	PAUL CARTER	USA	2008	56.15	AHMET NAKKAS	TUR	2018	1:07.05	JON HAWTON	AUS	2019
25.96	STEVE HILTABIDDLE	USA	2019	56.33	DAVID SIMS	USA	2017	1:07.27	JONATHAN KLEIN	USA	2014
26.23	TRIP HEDRICK	USA	2004	56.51	L.GOMEZ-GUILLAMON	ESP	2016	200 M. BACK			
26.54	HIROSHI MIURA	JPN	2018	56.91	STEVE WOOD	USA	2016	2:20.83	RIP ESSELSTYN	USA	2019
26.56	MICHAEL HODGSON	GBR	2017	56.92	TONY ANDERSON	USA	2019	2:22.68	CRAIG PETERSEN	USA	2015
26.56	PAUL SMITH	USA	2009	56.96	DAVID BOATWRIGHT	USA	2017	2:23.84	TOM BARTON	USA	2011
26.64	VLADIMIR PREDKIN	RUS	2019	57.07	JURI LOGVIN	FIN	2017	2:25.89	JIM MC CONICA	USA	2005
26.80	RAMON VOLCAN	VEN	2009	57.08	MICHAEL MANN	USA	2009	2:26.23	LEN GUSHE	CAN	2018
26.83	RICK ABBOTT	USA	2008	200 M. FREE				2:26.32	Z.JANUSZKIEWICZ	POL	2018
26.89	FRITZ BEDFORD	USA	2014	2:04.01	MICHAEL MANN	USA	2009	2:26.47	JON HAWTON	AUS	2019
100 M. FLY				2:04.02	MARCUS MATTIOLI	BRA	2015	2:26.58	JIM SAUER	USA	2014
57.23	PAUL CARTER	USA	2008	2:04.86	AHMET NAKKAS	TUR	2017	2:27.27	A.BONANNI	ITA	2016
59.49	TRIP HEDRICK	USA	2004	2:05.21	DAVID SIMS	USA	2017	2:27.32	STEVE WOOD	USA	2016
59.67	HUGO BREGMAN	NED	2009	2:05.82	JACK GROSELLE	USA	2009	50 M. BRST			
59.87	MARCUS MATTIOLI	BRA	2010	2:05.88	DAVID BOATWRIGHT	USA	2016	30.02	CARLO TRAVAINI	ITA	2019
59.96	NICOLAS GRANGER	FRA	2018	2:06.26	DAN STEPHENSON	USA	2012	30.56	DAVID GUTHRIE	USA	2017
1:00.00	STEVE HILTABIDDLE	USA	2017	2:06.50	TONY ANDERSON	USA	2019	31.05	WALTER KUSCH	GER	2009
1:00.04	MARK WELDON	NZL	2017	2:07.42	FRED SCHUSTER	USA	2019	31.82	S.TAKAHASHI	JPN	2019
1:00.55	WILLIAM SPECHT	USA	2009	2:08.03	JIM MC CONICA	USA	2005	31.95	MICHAEL AUBREY	USA	2017
1:00.66	MAURO CAPPELLETTI	ITA	2015	400 M. FREE				32.07	TIMOTHY SHEAD	RSA	2008
1:00.79	STEVEN UNRUH	USA	2017	4:22.49	MICHAEL MANN	USA	2009	32.16	DAVID MILBURN	GBR	2017
200 M. FLY				4:25.34	JIM MC CONICA	USA	2005	32.23	GLEN CHRISTIANSEN	SWE	2012
2:13.39	MARCUS MATTIOLI	BRA	2010	4:25.65	MARCUS MATTIOLI	BRA	2015	32.32	IGOR MEDVEDIEV	UKR	2017
2:13.80	DENNIS BAKER	USA	2011	4:27.52	TONY ANDERSON	USA	2018	32.43	LARRY GOLDEN	USA	2015
2:14.63	MAURO CAPPELLETTI	ITA	2015	4:29.19	ARNALDO PEREZ	PUR	2019	100 M. BRST			
2:15.06	HUGO BREGMAN	NED	2009	4:32.87	DAN STEPHENSON	USA	2012	1:07.65	CARLO TRAVAINI	ITA	2019
2:16.38	MIKE SHAFFER	USA	2015	4:33.42	STEVE PRESCOTT	NZL	2009	1:07.97	DAVID GUTHRIE	USA	2015
2:17.83	DAVID SIMS	USA	2016	4:34.69	JOSE FREITAS	POR	2018	1:10.82	S.TAKAHASHI	JPN	2019
2:18.57	PAUL CARTER	USA	2008	4:34.77	JEFF ERWIN	USA	2019	1:10.84	GREGORY HARRIS	USA	2018
2:19.16	FRANCIS CHRISTIAN	AUS	2008	4:36.31	MICHAEL PRUFERT	GER	2019	1:11.13	TIMOTHY SHEAD	RSA	2008
2:19.35	JOSEPH RHYNE	USA	2009	800 M. FREE				1:12.15	TIMUR PODMARYOV	RUS	2015
2:20.46	WILLIAM SPECHT	USA	2009	9:00.09	MICHAEL MANN	USA	2009	1:12.35	IGOR MEDVEDIEV	UKR	2017
200 M. I.M.				9:06.86	JIM MCCONICA	USA	2006	1:12.64	THOMAS LIGL	GER	2016
2:11.15	NICOLAS GRANGER	USA	2017	9:12.55	ARNALDO PEREZ	PUR	2019	1:12.85	WALTER KUSCH	GER	2009
2:18.05	JAMIE FOWLER	USA	2009	9:22.02	STEVE PRESCOTT	NZL	2009	1:12.87	G.HOFFMANN	USA	2011
2:19.45	DARREN PHELAN	USA	2013	9:22.66	JEFF ERWIN	USA	2019	200 M. BRST			
2:19.79	MARCUS MATTIOLI	BRA	2010	9:23.23	JOSE FREITAS	POR	2018	2:30.63	DAVID GUTHRIE	USA	2016
2:20.02	MICHAEL MANN	USA	2008	9:23.61	TONY ANDERSON	USA	2018	2:30.67	CARLO TRAVAINI	ITA	2018
2:20.48	JEROME FRENTSOS	USA	2015	9:27.14	MICHAEL PRUFERT	GER	2019	2:38.66	RICK COLELLA	USA	2008
2:20.60	TAIHEI SAKA	JPN	2015	9:29.19	K.DELLBRUGGE	GER	2017	2:39.28	TIMUR PODMARYOV	RUS	2012
2:20.97	LUCA VIGNERI	ITA	2017	9:30.93	MARCUS MATTIOLI	BRA	2019	2:41.54	TIMOTHY SHEAD	RSA	2008
2:20.99	KEN SHILLING	USA	2008	1500 M. FREE				2:42.40	PATRICK ALLENDER	USA	2013
2:21.21	HAJIME MORIMOTO	JPN	2019	17:22.61	MICHAEL MANN	USA	2009	2:42.52	DAVID MILBURN	GBR	2017
400 M. I.M.				17:40.10	JIM MC CONICA	USA	2005	2:42.88	G.HOFFMANN	USA	2011
4:45.61	NICOLAS GRANGER	USA	2017	17:57.13	ARNALDO PEREZ	PUR	2017	2:43.47	THOMAS LIGL	GER	2016
4:53.69	MARCUS MATTIOLI	BRA	2010	18:02.60	TONY ANDERSON	USA	2019	2:43.49	SERGEY MOLODIN	RUS	2017
4:56.71	RICARDO VALDIVIA	USA	2014	18:05.10	JOSE FREITAS	POR	2018	50 M. FLY			
4:57.93	DARREN PHELAN	USA	2013	18:17.12	MICHAEL KLEIBER	GER	2018	26.86	GARY HALL	USA	2009
5:01.47	BRENT FOSTER	NZL	2019	18:19.49	STEVE PRESCOTT	NZL	2009	27.08	GREG SHAW	USA	2007
5:02.51	DENNIS BAKER	USA	2013	18:19.50	K.DELLBRUGGE	GER	2017	27.26	DAN THOMPSON	CAN	2014
5:03.27	LORENZO MARUGO	ITA	2004	18:21.59	MARC JOUANDON	FRA	2012	27.31	STEVE WOOD	USA	2016
5:03.76	DJAN MADRUGA	BRA	2010	18:25.78	JEFF ERWIN	USA	2019	27.31	PAUL CARTER	USA	2012
5:04.32	JAMIE FOWLER	USA	2009	50 M. BACK				27.37	DAVID SIMS	USA	2017
5:04.49	ALBERTO MONTINI	ITA	2019	29.01	CARLOS SILVA	BRA	2013	27.43	RICHARD ABRAHAMS	USA	2002
*****				29.03	STEVE WOOD	USA	2016	27.47	HUGO BREGMAN	NED	2013
M E N 55-59				29.97	CLAY BRITT	USA	2017	27.48	BRYAN TATTERSON	USA	2019
*****				30.01	TOM BARTON	USA	2011	27.49	DAVID HAGUE	USA	2009
50 M. FREE				30.02	CRAIG NORREY	SUI	2016	100 M. FLY			
24.45	BRENT BARNES	JPN	2015	30.06	GLENN PATCHING	USA	2015	1:00.56	PAUL CARTER	USA	2012
24.64	CALVIN MAUGHAN	RSA	2019	30.09	GARY HALL	USA	2009	1:00.88	TERUHISA SHIMIZU	JPN	2019
25.01	JACK GROSELLE	USA	2009	30.21	MARCO COLOMBO	ITA	2016	1:01.05	GREG SHAW	USA	2006
25.31	MIKE TENNANT	USA	2008	30.47	PETER MCKINNON	CAN	2019	1:01.13	DAVID SIMS	USA	2017
25.42	DAVID SIMS	USA	2017	30.48	ANDRE STEYNBERG	RSA	2012	1:01.29	HUGO BREGMAN	NED	2013
				100 M. BACK				1:01.31	MARCUS MATTIOLI	BRA	2015



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:01.83	BRAD HORNER	USA	2009	2:13.47	MARTEN DE GROOT	NED	2018	33.09	RICHARD NEVILLE	USA	2016
1:01.97	DAN THOMPSON	CAN	2014	2:13.94	GRAHAM CROFT	AUS	2008	33.41	ROBERT STRAND	USA	2008
1:02.23	STEVE WOOD	USA	2016	400 M. FREE				33.51	GARY PATTERSON	USA	2019
1:02.70	C.LUTOTOVICH	ARG	2018	4:36.85	DAN STEPHENSON	USA	2017	33.65	OLIVIER BORIOS	FRA	2019
200 M. FLY				4:36.89	ANDREW BRAY	USA	2018	33.67	WALTER KUSCH	GER	2015
2:16.78	MARCUS MATTIOLI	BRA	2015	4:37.35	PAUL BLACKBEARD	AUS	2019	33.71	RICK COLELLA	USA	2014
2:18.37	DAVID SIMS	USA	2017	4:37.43	DJAN MADRUGA	BRA	2018	33.87	TIMUR PODMARYOV	RUS	2017
2:18.97	BRAD HORNER	USA	2009	4:37.58	JAMES RITTER	USA	2017	100 M. BRST			
2:19.18	HUGO BREGMAN	NED	2013	4:40.00	JIM MC CONICA	USA	2012	1:13.38	RICK COLELLA	USA	2013
2:23.30	ARNALDO PEREZ	PUR	2018	4:42.94	JACK GROSELLE	USA	2014	1:13.97	TIMUR PODMARYOV	RUS	2017
2:25.35	GREG SHAW	USA	2006	4:43.37	ALESSANDRO MARCO	ITA	2016	1:14.14	TIMOTHY SHEAD	USA	2012
2:25.52	JIM SAUER	USA	2014	4:46.04	SERGE GUERIN	FRA	2016	1:15.25	GREGORY OXLEY	USA	2018
2:26.37	SCOTT LAUTMAN	USA	2008	4:46.99	MARTEN DE GROOT	NED	2018	1:15.42	ROBERT STRAND	USA	2008
2:26.53	MIKE LAMONICA	USA	2017	800 M. FREE				1:15.50	STUART ELLICOTT	AUS	2012
2:26.70	FRED SCHUSTER	USA	2019	9:29.70	ANDREW BRAY	USA	2018	1:16.37	JACK GROSELLE	USA	2014
200 M. I.M.				9:33.04	PAUL BLACKBEARD	AUS	2019	1:16.53	TOSHIHARU FUJII	JPN	2010
2:20.83	MICHAEL MANN	USA	2009	9:35.50	JIM MC CONICA	USA	2012	1:16.75	GARY PATTERSON	USA	2019
2:22.50	JIM SAUER	USA	2014	9:39.23	ALESSANDRO MARCO	ITA	2016	1:16.83	ALLEN STARK	USA	2009
2:22.98	AHMET NAKKAS	TUR	2018	9:43.22	DJAN MADRUGA	BRA	2018	200 M. BRST			
2:24.12	RICK COLELLA	USA	2008	9:48.47	STEVEN PRESCOTT	NZL	2014	2:40.46	RICK COLELLA	USA	2014
2:24.16	TIMOTHY SHEAD	RSA	2008	9:49.31	DAN STEPHENSON	USA	2017	2:45.53	TIMUR PODMARYOV	RUS	2017
2:24.41	CARLO TRAVAINI	ITA	2019	9:49.45	JAMES RITTER	USA	2016	2:45.67	LORENZO MARUGO	ITA	2012
2:24.65	MARCUS MATTIOLI	BRA	2015	9:55.71	LORENZO MARUGO	ITA	2012	2:45.71	TIMOTHY SHEAD	USA	2012
2:25.49	HUGO BREGMAN	NED	2013	9:59.76	JIM CALLAHAN	USA	2017	2:50.44	ALLEN STARK	USA	2011
2:26.24	TAIHEI SAKA	JPN	2019	1500 M. FREE				2:50.77	PETER KAUCH	GER	2017
2:26.31	GREGORY HARRIS	USA	2018	18:01.45	ANDREW BRAY	USA	2018	2:50.77	ROBERT STRAND	USA	2008
400 M. I.M.				18:12.09	JIM MC CONICA	USA	2010	2:50.83	GREGORY OXLEY	USA	2018
5:01.81	MARCUS MATTIOLI	BRA	2015	18:26.65	PAUL BLACKBEARD	AUS	2019	2:51.07	ROBERT WRIGHT	USA	2011
5:04.07	MICHAEL MANN	USA	2009	18:56.38	DJAN MADRUGA	BRA	2019	2:51.68	RALPH SCHALLON	SUI	2014
5:07.81	JIM SAUER	USA	2014	19:01.10	ALESSANDRO BRAVI	ITA	2017	50 M. FLY			
5:12.69	LEN GUSHE	CAN	2018	19:01.70	SCOTT TOWNSEND	USA	2013	27.65	HUGO BREGMAN	NED	2018
5:13.11	ARNALDO PEREZ	PUR	2018	19:06.93	M.CAFFERY	USA	2013	27.85	TRIP HEDRICK	USA	2017
5:17.10	JIM MC CONICA	USA	2005	19:07.93	GEORGE WENDT	USA	2008	27.91	ALEXEY MARKOVSKIY	RUS	2017
5:18.12	S.ALIASHKEVICH	BLR	2019	19:08.78	MARTEN DE GROOT	NED	2019	27.92	RICHARD ABRAHAMS	USA	2005
5:18.67	CARLO TRAVAINI	ITA	2018	19:11.31	JAMES RITTER	USA	2016	28.14	DONALD GRAHAM	USA	2014
5:19.49	DJAN MADRUGA	BRA	2014	50 M. BACK				28.22	JOHN FIELDS	USA	2017
5:20.52	SYLVAIN BARALE	FRA	2019	30.59	JAMIE FOWLER	USA	2019	28.36	DAN THOMPSON	CAN	2018
*****				30.63	ANDRE STEYNBERG	USA	2018	28.37	PAUL CARTER	USA	2017
M E N 60-64				31.46	HUGH WILDER	USA	2007	28.45	ANDRE STEYNBERG	USA	2018
*****				31.50	VLADIMIR GORKOV	RUS	2017	28.45	DOUG MARTIN	USA	2015
50 M. FREE				31.56	TOM BARTON	USA	2016	100 M. FLY			
25.23	RICHARD ABRAHAMS	USA	2006	31.62	JONATHAN KLEIN	USA	2018	1:02.00	HUGO BREGMAN	NED	2018
25.63	DOUG MARTIN	USA	2015	31.71	DONALD GRAHAM	USA	2014	1:03.03	RICHARD ABRAHAMS	USA	2005
25.85	VINCENZO DE SIO	ITA	2008	31.77	MARC MIDDLETON	USA	2011	1:03.98	FRED SCHLICHER	USA	2008
25.92	BRENT BARNES	SGP	2018	31.88	BRUCE WILLIAMS	USA	2015	1:04.43	PATRICK MURTAGH	USA	2017
26.00	ALEXEY MARKOVSKIY	RUS	2017	32.01	PHILIPP DJANG	USA	2014	1:04.74	JIM SAUER	USA	2017
26.31	ANDRE STEYNBERG	RSA	2016	100 M. BACK				1:05.78	ANDRE STEYNBERG	RSA	2016
26.35	JACK GROSELLE	USA	2014	1:06.08	JAMIE FOWLER	USA	2019	1:05.82	LAWRENCE DAY	USA	2011
26.35	PAUL TREVISAN	USA	2013	1:07.08	VLADIMIR GORKOV	RUS	2017	1:06.02	BRIAN PATNO	USA	2016
26.41	JAMES RITTER	USA	2017	1:07.85	TOM BARTON	USA	2016	1:06.03	KEVIN MCCORMACK	USA	2013
26.48	TRIP HEDRICK	USA	2017	1:08.10	JONATHAN KLEIN	USA	2018	1:06.25	DONALD GRAHAM	USA	2016
100 M. FREE				1:08.77	HUGH WILDER	USA	2007	200 M. FLY			
57.79	JACK GROSELLE	USA	2014	1:08.86	ANDRE STEYNBERG	RSA	2016	2:23.52	HUGO BREGMAN	NED	2018
57.94	JAMES RITTER	USA	2017	1:08.97	DJAN MADRUGA	BRA	2018	2:29.05	LAWRENCE DAY	USA	2011
58.06	DAN STEPHENSON	USA	2017	1:10.00	MARIO LLORET	ESP	2017	2:29.88	GREG SANCHEZ	USA	2019
58.25	TRIP HEDRICK	USA	2017	1:10.45	BRUCE WILLIAMS	USA	2013	2:30.61	JIM SAUER	USA	2017
58.61	RICHARD ABRAHAMS	USA	2005	1:10.47	IGOR KRAVKOV	ISR	2018	2:31.58	FRED SCHLICHER	USA	2008
59.04	RICK COLELLA	USA	2014	200 M. BACK				2:33.72	ROBERT POILETMAN	USA	2003
59.57	DOUG MARTIN	USA	2014	2:26.12	JAMIE FOWLER	USA	2019	2:35.04	KAZUHIRO OTSUKA	JPN	2019
59.60	BRUCE WILLIAMS	USA	2014	2:28.37	DJAN MADRUGA	BRA	2018	2:35.33	SCOTT LAUTMAN	USA	2012
59.66	RICK ABBOTT	USA	2017	2:28.37	TOM BARTON	USA	2016	2:36.01	RINAT GILYAZOV	RUS	2019
59.66	JAMES DE LACY	USA	2006	2:29.05	JIM SAUER	USA	2017	2:36.13	MICHAEL NORBERG	USA	2017
200 M. FREE				2:29.29	VLADIMIR GORKOV	RUS	2018	200 M. I.M.			
2:07.68	DAN STEPHENSON	USA	2017	2:30.95	DAN STEPHENSON	USA	2018	2:21.99	RICK COLELLA	USA	2014
2:08.19	JAMES RITTER	USA	2017	2:32.61	JONATHAN KLEIN	USA	2018	2:30.05	TIMOTHY SHEAD	USA	2012
2:09.24	JACK GROSELLE	USA	2014	2:33.09	FRED FERROGGIARO	USA	2013	2:30.72	FRED SCHLICHER	USA	2008
2:12.32	JOHN FIELDS	USA	2016	2:33.94	JIM MC CONICA	USA	2012	2:30.91	JIM SAUER	USA	2017
2:12.57	JIM MC CONICA	USA	2010	2:34.00	TIMOTHY SHEAD	RSA	2012	2:30.98	TITO MORALES	USA	2019
2:12.69	FRED SCHLICHER	USA	2008	50 M. BRST				2:31.35	HUGO BREGMAN	NED	2018
2:12.83	PAUL BLACKBEARD	AUS	2019	32.80	STUART ELLICOTT	AUS	2012	2:32.35	DJAN MADRUGA	BRA	2019
2:13.32	JAMES DE LACY	USA	2006	32.87	TIMOTHY SHEAD	USA	2012	2:32.63	TIM BRODERICK	USA	2011
				33.00	GREGORY OXLEY	USA	2018	2:32.65	LAWRENCE DAY	USA	2011



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

2:34.07	JACK GROSELLE	USA	2016	19:33.36	JIM MC CONICA	USA	2015	2:59.11	TIMOTHY SHEAD	RSA	2017
400 M. I.M.				19:41.58	DICK WORREL	USA	2018	2:59.54	KENNETH FROST	USA	2009
5:08.20	RICK COLELLA	USA	2014	19:52.62	RICK WALKER	USA	2015	2:59.99	GERSHON SHEFA	ISR	2008
5:25.75	DJAN MADRUGA	BRA	2019	19:59.75	PATRICK MOREAU	FRA	2017	3:00.88	JIM CLEMMONS	USA	2015
5:27.75	JIM SAUER	USA	2017	20:00.97	TOM LANDIS	USA	2008	50 M. FLY			
5:28.25	LAWRENCE DAY	USA	2011	20:04.28	GEORGE WENDT	USA	2012	28.54	JOSEP CLARET	ESP	2009
5:28.47	TITO MORALES	USA	2019	20:08.74	FABRIZIO MOMONI	ITA	2004	28.66	TRIP HEDRICK	USA	2019
5:29.55	LORENZO MARUGO	ITA	2012	20:16.54	GRAHAM JOHNSTON	USA	1996	28.68	KEEFE LODWIG	USA	2008
5:30.46	TIMOTHY SHEAD	USA	2012	20:21.11	FRED FERROGGIARO	USA	2019	28.69	JIM DRAGON	USA	2009
5:30.99	FRED SCHLICHER	USA	2008	20:23.74	CHRIS DUNN	GBR	2012	28.85	DOUG MARTIN	USA	2018
5:31.07	HUGO BREGMAN	NED	2019	50 M. BACK				29.24	MARC MIDDLETON	USA	2016
5:32.08	JAMES RITTER	USA	2016	30.95	HUGH WILDER	USA	2012	29.25	RICHARD ABRAHAMS	USA	2010
*****				32.19	RICHARD BURNS	USA	2009	29.91	KEVIN MCCORMACK	USA	2018
M E N 65-69				32.23	BRUCE WILLIAMS	USA	2018	29.99	KAZUYA IRIE	JPN	2018
*****				32.78	TOM WOLF	USA	2019	30.02	GRAEME MILNE	GBR	2019
*****				32.93	PHILIPP DJANG	USA	2019	100 M. FLY			
50 M. FREE				32.94	GEOFF MYKLEBY	USA	2018	1:05.83	RICK COLELLA	USA	2017
26.21	DOUG MARTIN	USA	2018	33.04	MARC MIDDLETON	USA	2016	1:06.53	LAWRENCE DAY	USA	2016
26.33	RICHARD ABRAHAMS	USA	2010	33.24	TAKEO HIRAMOTO	JPN	2017	1:07.34	RICHARD ABRAHAMS	USA	2010
27.04	BRUCE WILLIAMS	USA	2018	33.25	PIERRE BAEHR	FRA	2019	1:07.78	JOSEP CLARET	ESP	2009
27.15	JEFF FARRELL	USA	2002	33.50	BERND HORSTMANN	GER	2008	1:09.60	ROBERT POILETMAN	USA	2009
27.31	VINUS VAN BAALLEN	USA	2007	100 M. BACK				1:09.95	JACK GROSELLE	USA	2019
27.37	KEEFE LODWIG	USA	2008	1:09.79	HUGH WILDER	USA	2012	1:09.98	FRED BAIRD	USA	2013
27.38	TATE HOLT	USA	2016	1:10.90	TOM WOLF	USA	2019	1:10.12	TAKEO HIRAMOTO	JPN	2015
27.46	MARC MIDDLETON	USA	2016	1:11.32	RICHARD BURNS	USA	2009	1:10.22	BORIS RUZHITSKIY	RUS	2009
27.50	IAN SMITH	CAN	2009	1:12.19	BRUCE WILLIAMS	USA	2018	1:10.29	JACK GOODING	USA	2018
27.57	LEONARD BIELICZ	SWE	2017	1:12.57	TIM SHEAD	RSA	2017	200 M. FLY			
100 M. FREE				1:13.47	PIERRE BAEHR	FRA	2019	2:33.40	LAWRENCE DAY	USA	2016
59.49	JACK GROSELLE	USA	2019	1:13.67	GEOFF MYKLEBY	USA	2018	2:35.36	RICK COLELLA	USA	2017
1:00.38	RICHARD ABRAHAMS	USA	2010	1:13.82	BERND HORSTMANN	GER	2009	2:41.92	TAKEO HIRAMOTO	JPN	2015
1:00.86	RICK COLELLA	USA	2019	1:13.86	PHILIPP DJANG	USA	2019	2:47.11	PHIL DODSON	USA	2018
1:01.05	DAVID QUIGGIN	USA	2009	1:13.94	FRED FERROGGIARO	USA	2019	2:47.48	MARK MODJESKA	USA	2018
1:01.16	BRUCE WILLIAMS	USA	2018	200 M. BACK				2:47.60	DEREK PARR	GBR	2009
1:01.30	KEEFE LODWIG	USA	2009	2:37.16	LAWRENCE DAY	USA	2018	2:49.59	ROLAND FREYGANG	GER	2019
1:01.69	TATE HOLT	USA	2016	2:37.50	TOM WOLF	USA	2019	2:49.73	JOEL WILSON	USA	2015
1:02.07	TRIP HEDRICK	USA	2019	2:39.02	FRED FERROGGIARO	USA	2019	2:50.18	ROBERT POILETMAN	USA	2009
1:02.14	AKIRA IIDA	JPN	2019	2:39.69	TIM SHEAD	RSA	2017	2:50.38	HUBIE KERNS	USA	2014
1:02.23	JAMES THORNTON	USA	2017	2:40.95	BERND HORSTMANN	GER	2008	200 M. I.M.			
200 M. FREE				2:41.76	RICHARD BURNS	USA	2009	2:25.22	RICK COLELLA	USA	2016
2:09.39	RICK COLELLA	USA	2017	2:42.96	JÓZSEF CSIKANY	HUN	2008	2:35.93	TIM SHEAD	RSA	2017
2:16.86	JACK GROSELLE	USA	2019	2:44.37	HUGH WILDER	USA	2012	2:39.23	HUBIE KERNS	USA	2014
2:18.51	TIM BRODERICK	USA	2016	2:44.72	PHILIPP DJANG	USA	2019	2:41.20	ALEK SHESTAKOV	USA	2014
2:18.53	TOM LANDIS	USA	2008	2:44.88	MIROSLAW WARCHOL	POL	2018	2:41.77	PATRICK MOREAU	FRA	2018
2:19.96	AKIRA IIDA	JPN	2019	50 M. BRST				2:42.42	AKIRA IIDA	JPN	2019
2:20.29	JAMES THORNTON	USA	2017	33.30	RICK COLELLA	USA	2016	2:42.68	JEFFREY BOATRIGHT	USA	2019
2:20.37	DAVID QUIGGIN	USA	2009	33.69	STUART ELLICOTT	AUS	2017	2:43.06	DOV NISMAN	ISR	2019
2:20.44	LARRY KRAUSER	USA	2018	33.92	PERE BALCELLS	ITA	2019	2:43.37	RICHARD BURNS	USA	2009
2:21.48	CARL WATERER	CAN	2016	34.30	TIMOTHY SHEAD	RSA	2018	2:44.41	LEE CHILDS	USA	2013
2:21.74	ROBERTO ALBERICHE	ESP	1996	34.51	WALTER KUSCH	GER	2019	400 M. I.M.			
400 M. FREE				34.55	CARLOS SILVA	BRA	2019	5:13.36	RICK COLELLA	USA	2017
4:37.70	RICK COLELLA	USA	2017	34.61	OSAMU MAEDA	JPN	2009	5:40.43	LAWRENCE DAY	USA	2016
4:54.35	DICK WORREL	USA	2018	34.66	ROBERT STRAND	USA	2012	5:42.24	PATRICK MOREAU	FRA	2018
4:56.47	JIM MC CONICA	USA	2015	34.69	C.STARZEC	FRA	2015	5:50.98	ALEK SHESTAKOV	USA	2014
4:58.22	JAMES THORNTON	USA	2017	34.80	ROBERT WRIGHT	USA	2016	5:51.00	DOV NISMAN	ISR	2019
4:58.71	RICK WALKER	USA	2015	100 M. BRST				5:51.91	HUBIE KERNS	USA	2014
5:00.26	TOM LANDIS	USA	2007	1:14.77	RICK COLELLA	USA	2017	5:52.40	JEFFREY BOATRIGHT	USA	2019
5:00.50	JEFFREY BOATRIGHT	USA	2019	1:17.52	TIM SHEAD	RSA	2017	5:52.50	GEORGE WENDT	USA	2012
5:01.81	FABRIZIO MOMONI	ITA	2003	1:18.11	STUART ELLICOTT	AUS	2017	5:52.79	BARRY YOUNG	NZL	2004
5:03.23	PATRICK MOREAU	FRA	2017	1:18.11	KENNETH FROST	USA	2009	5:53.91	AKIRA IIDA	JPN	2019
5:03.36	GRAHAM JOHNSTON	USA	1996	1:18.13	PERE BALCELLS	ESP	2019	*****			
800 M. FREE				1:18.49	C.STARZEC	FRA	2015	M E N 70-74			
10:11.30	JIM MC CONICA	USA	2015	1:18.87	ROBERT STRAND	USA	2012	*****			
10:23.39	PATRICK MOREAU	FRA	2017	1:19.16	ROBERT WRIGHT	USA	2015	50 M. FREE			
10:24.48	RICK WALKER	USA	2015	1:19.69	TOSHIHARU FUJII	JPN	2016	27.71	RICHARD ABRAHAMS	USA	2015
10:25.94	TOM LANDIS	USA	2007	1:19.88	ALLEN STARK	USA	2014	27.93	STEVE BOROWSKI	USA	2017
10:26.60	FABRIZIO MOMONI	ITA	2003	200 M. BRST				28.30	JOHN LIRON	GBR	2018
10:28.94	JAMES THORNTON	USA	2017	2:41.54	RICK COLELLA	USA	2016	28.35	IAN SMITH	CAN	2011
10:29.26	GRAHAM JOHNSTON	USA	1997	2:56.96	ALLEN STARK	USA	2014	28.46	DAVID QUIGGIN	USA	2015
10:31.70	FRED FERROGGIARO	USA	2018	2:57.78	STUART ELLICOTT	AUS	2019	28.46	WOLFRAM GOTTFRIED	GER	2004
10:32.42	LARRY KRAUSER	USA	2018	2:58.10	ROBERT WRIGHT	USA	2015	28.53	JEFF FARRELL	USA	2007
10:32.88	DOV NISMAN	ISR	2019	2:58.13	ROBERT STRAND	USA	2012	28.55	JAMES ELDER	USA	2013
1500 M. FREE				2:58.34	TOSHIHARU FUJII	JPN	2015				

FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

28.65	CAV CAVANAUGH	USA	2005	1:16.14	BERND HORSTMANN	GER	2013	1:16.80	DEREK PARR	GBR	2014
28.66	RONALD JOHNSON	USA	2001	1:17.27	SERGIO PINHEIRO	BRA	2017	200 M.	FLY		
100 M.	FREE			1:17.64	J-C LESTIDEAU	ESP	2016	2:53.26	BARRY YOUNG	NZL	2009
1:03.32	DAVID QUIGGIN	USA	2015	1:18.06	JAY BRZEZINSKI	USA	2017	2:53.43	FRED SCHLICHER	USA	2018
1:03.71	RICHARD ABRAHAMS	USA	2015	1:18.10	STEVEN HECK	USA	2019	2:59.21	ROBERT POILETMAN	USA	2013
1:04.85	RICHARD BURNS	USA	2013	1:18.29	JOZSEF CSIKANY	HUN	2015	3:01.21	HUBIE KERNS	USA	2019
1:05.40	CAV CAVANAUGH	USA	2005	1:18.65	FRED SCHLICHER	USA	2018	3:03.40	J-C LESTIDEAU	ESP	2016
1:05.45	CHRIS DUNN	GBR	2016	200 M.	BACK			3:03.85	PAUL WYATT	AUS	2017
1:05.54	STEVE BOROWSKI	USA	2017	2:44.59	RICHARD BURNS	USA	2013	3:04.35	GUNTER SCHOPKE	GER	2010
1:05.57	GERHARD WIELAND	AUT	2015	2:46.27	FRED SCHLICHER	USA	2018	3:05.87	RUDOLF SMERDA	CZE	2017
1:05.61	GERHARD SCHILLER	GER	2019	2:47.91	DAN KIRKLAND	USA	2018	3:08.06	TAISUKE MIYAZAKI	JPN	2009
1:05.79	JAMES ELDER	USA	2014	2:48.10	BARRY YOUNG	NZL	2009	3:08.89	HORST LEHMANN	GER	2017
1:05.81	WOLFRAM GOTTFRIED	GER	2002	2:49.85	BERND HORSTMANN	GER	2013	200 M.	I.M.		
200 M.	FREE			2:53.46	JOZSEF CSIKANY	HUN	2015	2:44.36	BARRY YOUNG	NZL	2009
2:23.30	FRED SCHLICHER	USA	2018	2:54.19	STEVEN HECK	USA	2019	2:47.63	HUBIE KERNS	USA	2019
2:24.22	DAN KIRKLAND	USA	2018	2:54.93	HUGH WILDER	USA	2017	2:49.38	FRED SCHLICHER	USA	2018
2:24.41	DAVID QUIGGIN	USA	2014	2:55.19	BURWELL JONES	USA	2005	2:52.31	STEVEN HECK	USA	2019
2:25.42	CHRIS DUNN	GBR	2016	2:55.49	JOE REID	USA	2018	2:52.57	JOSEF KOCSI	AUT	2017
2:26.20	DAVID RADCLIFF	USA	2008	50 M.	BRST			2:52.77	LEE CHILDS	USA	2018
2:27.26	ALAN BERNARD	USA	2019	36.57	PEDER DAHLBERG	USA	2019	2:53.82	J-C LESTIDEAU	ESP	2016
2:27.83	RICHARD BURNS	USA	2013	36.68	ROBERT STRAND	USA	2016	2:54.06	ROBERT STRAND	USA	2016
2:28.37	CAV CAVANAUGH	USA	2005	36.86	DIETER HOEFEL	GER	2015	2:55.13	RICHARD BURNS	USA	2013
2:28.42	TOM LANDIS	USA	2012	37.23	YOSHIHIKO OSAKI	JPN	2009	2:56.09	PAUL WYATT	AUS	2016
2:29.15	KEEFE LODWIG	USA	2013	37.34	KENNETH FROST	USA	2014	400 M.	I.M.		
400 M.	FREE			37.47	KARL WIEDAMANN	USA	2008	5:57.81	BARRY YOUNG	NZL	2009
5:03.56	DAN KIRKLAND	USA	2018	37.51	HISASHI DOI	JPN	2019	6:01.90	ALEK SHESTAKOV	USA	2019
5:11.68	CHRIS DUNN	GBR	2016	37.63	JOZEF KLUKOWSKI	POL	2016	6:06.60	FRED SCHLICHER	USA	2018
5:11.89	FRED SCHLICHER	USA	2018	37.68	PETER ANDERSEN	USA	2013	6:06.99	HUBIE KERNS	USA	2019
5:12.05	GRAHAM JOHNSTON	USA	2001	37.70	JOHN LIRON	GBR	2018	6:19.41	JOSEF KOCSI	AUT	2017
5:16.42	HUBIE KERNS	USA	2019	100 M.	BRST			6:22.62	STEVEN HECK	USA	2019
5:17.20	DAVID RADCLIFF	USA	2008	1:21.98	PEDER DAHLBERG	USA	2019	6:23.86	J-C LESTIDEAU	ESP	2017
5:19.29	DAVID QUIGGIN	USA	2015	1:23.63	ROBERT STRAND	USA	2016	6:23.93	CHRIS DUNN	GBR	2016
5:21.27	TOM LANDIS	USA	2012	1:23.65	KENNETH FROST	USA	2014	6:24.55	DOUGLAS SPRINGER	USA	2016
5:24.57	FRANK MCELROY	USA	2018	1:24.12	DAVID GILDEA	USA	2013	6:24.76	TOM LANDIS	USA	2012
5:24.85	JOHN CRISP	AUS	2006	1:24.33	ALLEN STARK	USA	2019				
800 M.	FREE			1:24.71	KARL WIEDAMANN	USA	2008	*****			
0:37.71	DAN KIRKLAND	USA	2018	1:25.25	ANTONIO ORSELLI	BRA	2012	M E N 75-79			
10:45.92	GRAHAM JOHNSTON	USA	2002	1:25.29	JOSEF KOCSI	AUT	2017	*****			
10:49.02	DAVID RADCLIFF	USA	2006	1:25.53	TONY GOODWIN	AUS	2007	50 M.	FREE		
10:50.20	CHRIS DUNN	GBR	2016	1:25.68	DIETER HOEFEL	GER	2017	29.19	DAVID QUIGGIN	USA	2019
10:58.37	HUBIE KERNS	USA	2019	200 M.	BRST			29.60	RICHARD BURNS	USA	2019
11:07.43	MOSHE GERTEL	ISR	2017	3:04.79	MICHAEL MOLONEY	AUS	2009	29.87	JAMES ELDER	USA	2018
11:18.60	J-C.LESTIDEAU	FRA	2016	3:06.10	ALLEN STARK	USA	2019	30.08	AKIRA FUJIMAKI	JPN	2018
11:18.98	DAVID QUIGGIN	USA	2016	3:07.17	PEDER DAHLBERG	USA	2019	30.26	IAN SMITH	CAN	2016
11:19.41	JOHN CRISP	AUS	2005	3:07.26	ROBERT STRAND	USA	2016	30.28	DAVID RADCLIFF	USA	2009
11:19.55	BURWELL JONES	USA	2005	3:07.50	KARL WIEDAMANN	USA	2008	30.30	MIKE FRESHLEY	USA	2016
1500 M.	FREE			3:07.93	KENNETH FROST	USA	2014	30.32	NEIL MACKINNON	GBR	2016
20:26.12	DAN KIRKLAND	USA	2018	3:09.09	NORIAKI TSUJI	JPN	2016	30.40	TSUTOMU EBIHARA	JPN	2015
20:36.56	GRAHAM JOHNSTON	USA	2001	3:09.23	DOUGLAS SPRINGER	USA	2016	30.63	SHINGO YAMAMOTO	JPN	2008
21:07.50	DAVID RADCLIFF	USA	2008	3:09.27	TONY GOODWIN	AUS	2008	100 M.	FREE		
21:08.22	CHRIS DUNN	GBR	2017	3:11.63	JOSEF KOCSI	AUT	2017	1:06.40	AKIRA FUJIMAKI	JPN	2018
21:12.56	TOM LANDIS	USA	2012	50 M.	FLY			1:06.55	RICHARD BURNS	USA	2019
21:36.26	HUBIE KERNS	USA	2019	30.06	RICHARD ABRAHAMS	USA	2015	1:06.63	DAVID RADCLIFF	USA	2009
21:49.74	WERNER SCHNABEL	GER	2006	30.65	LEE CHILDS	USA	2018	1:07.42	DAVID QUIGGIN	USA	2019
21:50.53	DAVID QUIGGIN	USA	2015	30.81	STEVE BOROWSKI	USA	2017	1:09.06	MIKE FRESHLEY	USA	2016
21:53.77	BURWELL JONES	USA	2005	30.90	JOEL BURNS	USA	2016	1:10.02	SHINGO YAMAMOTO	JPN	2008
22:01.12	JOHN CRISP	AUS	2005	31.20	RICHARD BURNS	USA	2015	1:10.38	GRAHAM JOHNSTON	USA	2006
50 M.	BACK			31.28	JOSEP CLARET	ESP	2014	1:10.49	HIROSHI MATSUMOTO	JPN	2012
33.58	HUGH WILDER	USA	2017	31.36	ANDREW MCPHERSON	USA	2017	1:10.50	RUDOLF SMERDA	CZE	2018
33.59	RICHARD BURNS	USA	2013	31.37	JIM DRAGON	USA	2014	1:11.16	WILL GOSNOLD	USA	2016
34.65	FRED SCHLICHER	USA	2018	31.43	KENJI NAKAMATSU	JPN	2018	200 M.	FREE		
34.74	MORRIE CHIANG	TPE	2019	31.45	FRED SCHLICHER	USA	2018	2:25.66	DAVID RADCLIFF	USA	2009
34.81	J-C LESTIDEAU	ESP	2016	100 M.	FLY			2:33.87	AKIRA FUJIMAKI	JPN	2018
34.90	BERND HORSTMANN	GER	2012	1:12.43	FRED SCHLICHER	USA	2018	2:35.32	BURWELL JONES	USA	2009
34.92	JAY BRZEZINSKI	USA	2017	1:12.43	ANDREW MCPHERSON	USA	2017	2:36.30	GRAHAM JOHNSTON	USA	2006
35.21	STEVEN HECK	USA	2019	1:12.66	RICHARD ABRAHAMS	USA	2015	2:37.67	TONY RALPHS	USA	2018
35.31	YOSHI OYAKAWA	USA	2003	1:14.20	ROBERT POILETMAN	USA	2013	2:38.21	ED REED	USA	2018
35.54	JOZSEF CSIKANY	HUN	2013	1:14.47	JOSEP CLARET	ESP	2014	2:40.66	DAVID QUIGGIN	USA	2019
100 M.	BACK			1:15.23	J-C LESTIDEAU	ESP	2016	2:40.79	MASATO YOSHINO	JPN	2013
1:13.49	HUGH WILDER	USA	2017	1:15.79	RICHARD BURNS	USA	2015	2:41.06	IKURO SHIMONO	JPN	2013
1:15.13	RICHARD BURNS	USA	2013	1:16.04	KOJI IWAMOTO	JPN	2012	2:41.39	WERNER SCHNABEL	GER	2012
1:15.24	BARRY YOUNG	NZL	2009	1:16.18	BARRY YOUNG	NZL	2009	400 M.	FREE		



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

5:17.77	DAVID RADCLIFF	USA	2009	40.20	MIKHAIL FARAFONOV	RUS	2012	6:48.48	BURWELL JONES	USA	2009
5:32.06	GRAHAM JOHNSTON	USA	2006	40.28	TATSUO ASAI	JPN	2016	6:57.53	MASARU SHINKAI	JPN	2015
5:33.42	BURWELL JONES	USA	2009	40.38	TOSHIO TAJIMA	JPN	2000	6:58.19	GIULIO DIVANO	ITA	2009
5:39.94	JOHN CRISP	AUS	2010	40.41	DON BIDWELL	NZL	2009	7:01.55	ED REED	USA	2018
5:40.14	DAVID QUIGGIN	USA	2019	100 M. BRST				7:03.86	JOAQUIN CANALES	ESP	2015
5:41.24	TONY RALPHS	USA	2018	1:27.74	MIKE FRESHLEY	USA	2016	7:08.74	GRAHAM JOHNSTON	USA	2007
5:41.43	TADANOBU YAMADA	JPN	2018	1:29.15	MASARU SHINKAI	JPN	2016	7:10.29	DAVID MCLACHLAN	RSA	2012
5:43.90	IKURO SHIMONO	JPN	2013	1:29.35	TONY GOODWIN	AUS	2012	7:12.95	IKURO SHIMONO	JPN	2015
5:43.91	WERNER SCHNABEL	GER	2011	1:29.55	TETSUO NAKAMARU	JPN	2010	7:13.52	ISAO TAKEBAYASHI	JPN	2016
5:44.68	MASATO YOSHINO	JPN	2014	1:29.92	HANS REICHELT	GER	2011	*****			
800 M. FREE				1:30.22	PETER ANDERSEN	USA	2018	M E N 80-84			
11:07.90	DAVID RADCLIFF	USA	2009	1:30.60	ANTONIO ORSELLI	BRA	2017	*****			
11:25.95	GRAHAM JOHNSTON	USA	2006	1:31.65	BELA FABIAN	HUN	2012	50 M. FREE			
11:50.86	TONY RALPHS	USA	2018	1:31.90	TSUTOMU KAJIHARA	JPN	2008	31.28	HELMUT RICHTER	GER	2019
11:59.76	JOHN CRISP	AUS	2010	1:32.06	SHUNSAKU TAKAHIRA	JPN	2007	31.96	ROBERTO ALBERICHE	ESP	2012
11:59.91	MASATO YOSHINO	JPN	2013	200 M. BRST				32.05	HIROSHI MATSUMOTO	JPN	2016
12:02.17	JOHN RICHARDS	AUS	2017	3:13.93	MIKE FRESHLEY	USA	2016	32.18	JEFF FARRELL	USA	2017
12:04.82	IGOR BROVIN	RUS	2009	3:17.54	TONY GOODWIN	AUS	2012	32.73	B.SCHLURIKE	GER	2002
12:08.69	IKURO SHIMONO	JPN	2012	3:18.14	MASARU SHINKAI	JPN	2016	32.83	TSUTOMU HAYASHI	JPN	2016
12:14.79	WERNER SCHNABEL	GER	2011	3:24.08	HANS REICHELT	GER	2011	32.92	CAV CAVANAUGH	USA	2015
12:14.80	BELLUZZO CAMMELLI	ITA	2019	3:26.50	GERSHON SHEFA	ISR	2018	33.08	SHINGO YAMAMOTO	JPN	2012
1500 M. FREE				3:28.51	SHUNSAKU TAKAHIRA	JPN	2007	33.09	FRANK PIEMME	USA	2005
21:03.06	DAVID RADCLIFF	USA	2009	3:28.63	TSUTOMU KAJIHARA	JPN	2008	33.12	KEIJIRO NAKAMURA	JPN	2004
22:38.01	TONY RALPHS	USA	2018	3:28.79	BELA FABIAN	HUN	2012	100 M. FREE			
22:48.56	JOHN CRISP	AUS	2010	3:28.90	CLAUDIO NEGRI	ITA	2012	1:11.82	DAVID RADCLIFF	USA	2014
23:02.25	GRAHAM JOHNSTON	USA	2006	3:29.31	YOSHIKI AOKI	JPN	2013	1:12.68	HIROSHI MATSUMOTO	JPN	2016
23:16.89	MASATO YOSHINO	JPN	2014	50 M. FLY				1:13.12	ROBERTO ALBERICHE	ESP	2011
23:23.92	DAVID QUIGGIN	USA	2019	32.17	RICHARD BURNS	USA	2018	1:14.33	MASATO YOSHINO	JPN	2018
23:28.60	B.CAMMELLI	ITA	2018	32.61	Y.FUNAHASHI	JPN	2014	1:16.04	GRAHAM JOHNSTON	USA	2011
23:29.81	TOSHIO TOMINAGA	JPN	2018	32.76	HIROSHI MATSUMOTO	JPN	2012	1:16.09	JEFF FARRELL	USA	2018
23:30.55	YASUSHI YAMAGUCHI	JPN	2014	33.17	JOSEF CLARET	ITA	2019	1:16.22	CAV CAVANAUGH	USA	2015
23:31.64	WERNER SCHNABEL	GER	2012	33.26	JIM DRAGON	USA	2019	1:16.31	HELMUT RICHTER	GER	2019
50 M. BACK				33.27	AKIRA TAKAKURA	JPN	2016	1:17.11	KEIJIRO NAKAMURA	JPN	2003
34.45	RICHARD BURNS	USA	2018	33.74	NEIL MACKINNON	GBR	2016	1:17.49	WERNER SCHNABEL	GER	2017
36.14	YOSHI OYAKAWA	USA	2008	33.83	MIKE FRESHLEY	USA	2016	200 M. FREE			
36.32	JOZSEF CSIKANY	HUN	2018	33.83	JOHN SMITH	USA	2013	2:40.22	DAVID RADCLIFF	USA	2014
36.38	S.SEKIKAWA	JPN	2008	33.94	TSUTOMU EBIHARA	JPN	2015	2:44.68	MASATO YOSHINO	JPN	2018
36.90	BURWELL JONES	USA	2010	100 M. FLY				2:45.48	IKURO SHIMONO	JPN	2017
37.24	BERND HORSTMANN	GER	2019	1:20.68	RICHARD BURNS	USA	2018	2:48.61	WERNER SCHNABEL	GER	2016
37.51	KEIJIRO NAKAMURA	JPN	1998	1:21.57	RUDOLF SMERDA	CZE	2018	2:48.76	ROBERTO ALBERICHE	ESP	2011
37.59	RYUJI TAKAMINE	JPN	2016	1:22.54	AKIRA TAKAKURA	JPN	2017	2:52.91	GRAHAM JOHNSTON	USA	2013
37.68	Y.FUNAHASHI	JPN	2015	1:24.28	DEREK PARR	GBR	2019	2:53.00	HIROSHI MATSUMOTO	JPN	2016
37.81	H.MURAKAMI	JPN	2018	1:25.60	TAISUKE MIYAZAKI	JPN	2014	2:53.10	BURWELL JONES	USA	2013
100 M. BACK				1:26.04	TAKASHI HAYASHI	JPN	2008	2:55.98	CAV CAVANAUGH	USA	2015
1:17.17	RICHARD BURNS	USA	2018	1:26.41	GUNTER SCHOPKE	GER	2015	2:59.24	LAURI MALK	FIN	2017
1:20.06	JOZSEF CSIKANY	HUN	2018	1:27.26	YASUTAKA KOIKE	JPN	2018	400 M. FREE			
1:20.98	BURWELL JONES	USA	2009	1:27.65	KOJI IWAMOTO	JPN	2017	5:45.21	DAVID RADCLIFF	USA	2015
1:21.52	YOSHI OYAKAWA	USA	2008	1:27.82	JOAQUIN CANALES	ESP	2015	6:02.12	IKURO SHIMONO	JPN	2018
1:22.05	S.SEKIKAWA	JPN	2009	200 M. FLY				6:02.26	MASATO YOSHINO	JPN	2018
1:22.65	BERND HORSTMANN	GER	2019	3:11.38	RUDOLF SMERDA	CZE	2018	6:05.49	WERNER SCHNABEL	GER	2016
1:25.41	MIKLOS KOVATS	HUN	2016	3:18.12	RICHARD KITCHELL	USA	2015	6:08.75	GIULIO DIVANO	ITA	2011
1:25.84	FRANS VAN ENST	NED	2015	3:22.72	GUNTER SCHOPKE	GER	2015	6:10.13	GRAHAM JOHNSTON	USA	2012
1:26.00	CLARKE MITCHELL	USA	2007	3:26.21	DAVID MCLACHLAN	RSA	2012	6:11.49	ROBERTO ALBERICHE	ESP	2011
1:26.00	KEIJIRO NAKAMURA	JPN	1998	3:26.28	TAKASHI HAYASHI	JPN	2008	6:17.52	TOSABURO HOSOKAWA	JPN	2015
200 M. BACK				3:27.74	DEREK PARR	GBR	2019	6:20.66	BURWELL JONES	USA	2014
2:50.25	RICHARD BURNS	USA	2018	3:31.90	WERNER MULLER	GER	2009	6:26.19	GERHARD HOLE	GER	2015
2:57.72	BURWELL JONES	USA	2010	3:33.34	GIULIO DIVANO	ITA	2010	800 M. FREE			
2:58.32	JOZSEF CSIKANY	HUN	2018	3:33.50	LAURI MALK	FIN	2012	11:49.29	DAVID RADCLIFF	USA	2014
2:59.75	BERND HORSTMANN	GER	2019	3:34.30	MAURICE LUSIEN	FRA	2001	12:51.45	GRAHAM JOHNSTON	USA	2012
3:04.07	S.SEKIKAWA	JPN	2010	200 M. I.M.				12:52.38	GIULIO DIVANO	ITA	2011
3:07.08	MARTY MENNEN	USA	2011	2:57.66	RICHARD BURNS	USA	2019	12:55.27	BURWELL JONES	USA	2013
3:07.83	T.HASHIMOTO	JPN	2016	2:59.01	MIKE FRESHLEY	USA	2016	12:55.71	MASATO YOSHINO	JPN	2019
3:10.25	ROGER FRANKS	USA	2002	3:06.58	BURWELL JONES	USA	2009	13:00.08	WERNER SCHNABEL	GER	2016
3:10.36	KARL DONOGHUE	CAN	2015	3:07.29	GERHARD HOLE	GER	2010	13:10.59	TOSABURO HOSOKAWA	JPN	2015
3:10.53	FRANS VAN ENST	NED	2015	3:07.60	RUDOLF SMERDA	CZE	2018	13:15.13	ANRI VERESHCHAGIN	RUS	2015
50 M. BRST				3:07.76	GERSHON SHEFA	ISR	2018	13:26.47	F.HENDRIK BRUIJN	ESP	2018
39.06	PETER ANDERSEN	USA	2018	3:09.33	IKURO SHIMONO	JPN	2012	13:28.82	IGOR BROVIN	RUS	2012
39.22	ANTONIO ORSELLI	BRA	2017	3:10.23	ED REED	USA	2018	1500 M. FREE			
39.62	MIKE FRESHLEY	USA	2016	3:11.78	JOAQUIN CANALES	ESP	2015	22:16.90	DAVID RADCLIFF	USA	2014
39.65	HANS REICHELT	GER	2011	3:12.48	DAVID MCLACHLAN	RSA	2012	23:40.94	MASATO YOSHINO	JPN	2018
39.92	TONY GOODWIN	AUS	2012	400 M. I.M.				24:40.69	GIULIO DIVANO	ITA	2011
40.01	TETSUO NAKAMARU	JPN	2010	6:34.91	MIKE FRESHLEY	USA	2016				



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

25:03.24	WERNER SCHNABEL	GER	2016	3:47.81	AL CRAIG	USA	2007	1:23.25	FRANK PIEMME	USA	2010
25:08.34	GERHARD HOLE	GER	2015	50 M. FLY				1:23.52	KEIJIRO NAKAMURA	JPN	2008
25:08.56	TOSABURO HOSOKAWA	JPN	2015	34.75	HIROSHI MATSUMOTO	JPN	2016	1:23.87	JIM EUBANK	USA	2001
25:10.41	GRAHAM JOHNSTON	USA	2011	37.65	HELMUT RICHTER	GER	2019	1:24.51	ROD BAKER	AUS	2013
25:59.56	HIROSHI YOSHIMURA	JPN	2008	38.05	TAKASHI HAYASHI	JPN	2013	1:25.48	GRAHAM JOHNSTON	USA	2016
26:13.81	FRED DE BRUIJN	ESP	2018	38.75	CLARKE MITCHELL	USA	2013	1:26.03	DAVID RADCLIFF	USA	2019
26:39.67	KATSURA SUZUKI	JPN	2011	39.17	WERNER MULLER	GER	2013	1:26.48	GORO KOBAYASHI	JPN	2002
50 M. BACK				39.36	DAVID COSTILL	USA	2017	1:26.51	ROBERTO ALBERICHE	ESP	2017
38.16	S.SEKIKAWA	JPN	2013	39.59	DAVID MCLACHLAN	RSA	2017	1:26.71	HIKOJI UEKI	JPN	2000
38.41	KEIJIRO NAKAMURA	JPN	2003	39.65	GIULIO DIVANO	ITA	2011	1:26.78	WILLARD LAMB	USA	2007
39.18	AKIHIKO YABE	JPN	2019	39.88	MASARU IGARASHI	JPN	2015	200 M. FREE			
39.18	YOSHI OYAKAWA	USA	2015	39.99	TAISUKE MIYAZAKI	JPN	2019	3:03.50	ROBERTO ALBERICHE	ESP	2017
39.91	TAISUKE MIYAZAKI	JPN	2019	100 M. FLY				3:07.03	GRAHAM JOHNSTON	USA	2016
40.51	HELMUT RICHTER	GER	2019	1:29.39	GIULIO DIVANO	ITA	2011	3:10.45	DAVID RADCLIFF	USA	2019
40.71	SHOICHI SAKOMOTO	JPN	1998	1:34.18	TAKASHI HAYASHI	JPN	2013	3:13.78	HIKOJI UEKI	JPN	2000
41.00	MARTY MENNEN	USA	2016	1:38.45	DAVID COSTILL	USA	2017	3:16.89	FRANK PIEMME	USA	2010
41.12	BURWELL JONES	USA	2013	1:40.42	DAVID MCLACHLAN	RSA	2017	3:16.95	WILLARD LAMB	USA	2008
41.40	PAUL HUTINGER	USA	2004	1:40.57	WERNER MULLER	GER	2013	3:17.18	ROD BAKER	AUS	2013
100 M. BACK				1:40.62	LAURI MALK	FIN	2017	3:17.30	JIM EUBANK	USA	2001
1:26.44	S.SEKIKAWA	JPN	2013	1:43.10	TONY GOODWIN	AUS	2017	3:19.10	GORO KOBAYASHI	JPN	2002
1:26.97	KEIJIRO NAKAMURA	JPN	2003	1:43.93	WILLIAM LAUER	USA	2014	3:19.25	KATSURA SUZUKI	JPN	2016
1:29.06	DAVID COSTILL	USA	2017	1:44.31	BELA FABIAN	HUN	2017	400 M. FREE			
1:31.10	CLARKE MITCHELL	USA	2013	1:44.39	CLAUDIO NEGRI	ITA	2016	6:38.87	GRAHAM JOHNSTON	USA	2016
1:31.14	MARTY MENNEN	USA	2016	200 M. FLY				6:42.69	DAVID RADCLIFF	USA	2019
1:32.84	BURWELL JONES	USA	2014	3:31.42	GIULIO DIVANO	ITA	2011	6:59.51	KATSURA SUZUKI	JPN	2016
1:34.40	GERHARD HOLE	GER	2015	3:38.95	TAKASHI HAYASHI	JPN	2013	7:02.33	ROD BAKER	AUS	2013
1:35.09	TAISUKE MIYAZAKI	JPN	2019	3:48.35	DAVID MCLACHLAN	RSA	2017	7:03.07	FRANK PIEMME	USA	2010
1:35.36	RAYMOND TAFT	USA	1999	3:54.51	THOMAS MAINE	USA	2006	7:05.53	HIKOJI UEKI	JPN	2000
1:35.42	PAUL HUTINGER	USA	2004	3:56.81	IRA RIMERMAN	USA	2018	7:06.36	WILLARD LAMB	USA	2008
200 M. BACK				3:57.15	DAVID CUMMING	GBR	2019	7:12.16	JIM EUBANK	USA	2001
3:15.04	DAVID COSTILL	USA	2017	3:57.83	JOHN COCKS	AUS	2019	7:16.00	KARL HAUTER	GER	2013
3:16.22	BURWELL JONES	USA	2013	4:00.10	LAURI MALK	FIN	2017	7:17.06	TAKANAO SATO	JPN	2018
3:16.82	KEIJIRO NAKAMURA	JPN	2004	4:02.29	WERNER MULLER	GER	2013	800 M. FREE			
3:24.35	GERHARD HOLE	GER	2015	4:03.00	JAN ZIEGLER	CZE	2005	13:56.29	DAVID RADCLIFF	USA	2019
3:25.44	MARTY MENNEN	USA	2016	200 M. I.M.				14:23.39	GRAHAM JOHNSTON	USA	2016
3:27.80	CLARKE MITCHELL	USA	2013	3:20.65	GIULIO DIVANO	ITA	2011	14:36.90	WILLARD LAMB	USA	2008
3:30.76	PAUL HUTINGER	USA	2004	3:23.31	IKURO SHIMONO	JPN	2017	14:39.80	KATSURA SUZUKI	JPN	2016
3:31.36	RAYMOND TAFT	USA	1999	3:24.82	DAVID COSTILL	USA	2017	14:43.80	ROD BAKER	AUS	2013
3:31.53	TAISUKE MIYAZAKI	JPN	2019	3:26.78	BELA FABIAN	HUN	2017	14:43.81	FRANK PIEMME	USA	2010
3:33.41	JAN ZIEGLER	CZE	2005	3:27.46	JOHN COCKS	AUS	2016	15:11.24	D.CASOLINO	ITA	2012
50 M. BRST				3:29.66	ROBERTO ALBERICHE	ESP	2012	15:24.45	JIM EUBANK	USA	2001
41.68	TOSHIO TAJIMA	JPN	2006	3:32.17	TONY GOODWIN	AUS	2017	15:24.97	HIROSHI IMAIZUMI	JPN	2010
42.12	MIKHAIL FARAFONOV	RUS	2017	3:32.82	JAN ZIEGLER	CZE	2005	15:30.95	ROBERT BEACH	USA	2015
42.21	BELA FABIAN	HUN	2017	3:33.09	WERNER MULLER	GER	2013	1500 M. FREE			
42.92	TONY GOODWIN	AUS	2017	3:33.56	YOSHINAO KAMEI	JPN	2013	26:18.37	DAVID RADCLIFF	USA	2019
43.05	IWAMI IKEDA	JPN	2014	400 M. I.M.				27:47.93	KATSURA SUZUKI	JPN	2016
43.19	HIROFUMI HOSOTANI	JPN	2015	7:12.63	GIULIO DIVANO	ITA	2011	27:50.01	GRAHAM JOHNSTON	USA	2016
43.23	TETSUO NAKAMARU	JPN	2015	7:17.96	DAVID COSTILL	USA	2017	28:35.24	WILLARD LAMB	USA	2008
43.62	Y.MIYAMOTO	JPN	1998	7:31.80	JOHN COCKS	AUS	2018	29:00.17	ROD BAKER	AUS	2013
43.67	PATRICK GALVIN	AUS	2013	7:38.09	JAN ZIEGLER	CZE	2005	29:12.85	JURGEN SCHMIDT	USA	2008
43.80	JURGEN SCHUBERT	GER	2019	7:39.71	WILLIAM LAUER	USA	2014	29:29.44	ROBERT BEACH	USA	2015
100 M. BRST				7:45.19	LARRY GOOD	USA	2014	29:53.88	JIM EUBANK	USA	2000
1:34.43	BELA FABIAN	HUN	2017	7:46.50	DAVID MCLACHLAN	RSA	2017	30:10.16	HIROSHI IMAIZUMI	JPN	2010
1:34.63	TONY GOODWIN	AUS	2019	7:47.73	THOMAS MAINE	USA	2006	30:14.52	TOKUSHI KOMEDA	JPN	1999
1:37.05	TETSUO NAKAMARU	JPN	2015	7:52.01	E.NODENSCHNEIDER	FRA	2017	50 M. BACK			
1:39.21	HANS REICHELT	GER	2017	7:54.48	BOB BEST	USA	2012	39.89	KEIJIRO NAKAMURA	JPN	2008
1:39.32	PATRICK GALVIN	AUS	2013	*****				40.50	YOSHI OYAKAWA	USA	2018
1:39.73	TSUTOMU KAJIHARA	JPN	2013	M E N 85-89				42.04	CLARKE MITCHELL	USA	2017
1:40.90	DAVID COSTILL	USA	2017	*****				42.17	GORO KOBAYASHI	JPN	2001
1:41.02	TOSHIO TAJIMA	JPN	2005	50 M. FREE				44.52	FRED VAN DYKE	USA	2006
1:41.73	HIROFUMI HOSOTANI	JPN	2015	32.51	ROBERTO ALBERICHE	ESP	2017	45.16	TOSHIJI SATO	JPN	2000
1:42.33	WERNER MULLER	GER	2013	33.94	KEIJIRO NAKAMURA	JPN	2008	45.33	SHOICHI SAKAMOTO	JPN	2004
200 M. BRST				35.77	WOODROW BOWERSOCK	USA	1998	45.45	ILO FONSECA	BRA	2015
3:28.43	TONY GOODWIN	AUS	2017	35.85	FRANK PIEMME	USA	2010	45.58	ROBERTO ALBERICHE	ESP	2017
3:38.71	KAIZO YAMAMOTO	JPN	2018	36.24	ILO FONSECA	BRA	2015	45.60	K.KLAUSTERMEYER	GER	2013
3:38.92	BELA FABIAN	HUN	2017	36.40	JAMES EUBANK	USA	2000	100 M. BACK			
3:39.82	HANS REICHELT	GER	2017	36.41	GORO KOBAYASHI	JPN	2002	1:31.65	KEIJIRO NAKAMURA	JPN	2008
3:42.84	MASAMI SHIGETA	JPN	2016	36.62	ROD BAKER	AUS	2013	1:36.34	GORO KOBAYASHI	JPN	2001
3:43.82	TSUTOMU KAJIHARA	JPN	2014	36.90	TAKAHIKO NOMA	JPN	2013	1:38.07	CLARKE MITCHELL	USA	2017
3:43.98	DAVID COSTILL	USA	2017	36.90	TOSHIMI INATOMI	JPN	2011	1:41.25	TOSHIJI SATO	JPN	2000
3:46.57	CLAUDIO NEGRI	ITA	2016	100 M. FREE				1:42.20	YOSHI OYAKAWA	USA	2018
3:47.15	PATRICK GALVIN	AUS	2013					1:42.86	FRITZ ILGEN	GER	2018



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:45.37	ROGER BURRELL	GBR	2016	4:46.99	KARL HAUTER	GER	2010	8:48.73	JURGEN SCHMIDT	USA	2013
1:48.22	ROD BAKER	AUS	2014	4:47.63	ANDREW HOLDEN	USA	2004	9:00.03	D.CASSOLINO	ITA	2017
1:48.68	HIKOJI UEKI	JPN	2000	4:48.82	TAKASHI HAYASHI	JPN	2018	9:31.51	THOMAS MAINE	USA	2015
1:49.24	WILLARD LAMB	USA	2008	4:57.41	ANTON CERER	USA	2002	9:35.43	ARTHUR THOMAS	AUS	2007
200 M. BACK				5:06.00	WALTER PFEIFFER	USA	1999	9:38.67	JAMES TAR	BRA	2014
3:28.59	KEIJIRO NAKAMURA	JPN	2008	5:07.93	PAUL KRUP	USA	2002	9:39.37	WOODY BOWERSOCK	USA	2003
3:41.06	GORO KOBAYASHI	JPN	2002	5:08.70	SERHIY SIMANKOV	UKR	2017	9:40.04	ALFREDO CHERCHI	AUS	1997
3:48.38	TOSHIJI SATO	JPN	2000	5:22.35	SAUL BIRMAN	BRA	2019	800 M. FREE			
3:51.36	FRITZ ILGEN	GER	2018	5:25.02	ALDO CAPUTI	ITA	2001	16:28.37	WILLARD LAMB	USA	2013
3:51.72	CLARKE MITCHELL	USA	2017	200 M. I.M.				17:29.90	KARL HAUTER	GER	2017
3:54.81	ROD BAKER	AUS	2013	3:51.20	THOMAS MAINE	USA	2010	17:54.42	TOKUSHI KOMEDA	JPN	2005
3:56.39	NORIO HAYASHI	JPN	2015	3:51.88	FRANK PIEMME	USA	2010	17:55.95	D.CASOLINO	ITA	2017
3:56.47	KARL HAUTER	GER	2010	3:57.74	KARL HAUTER	GER	2010	17:58.02	JURGEN SCHMIDT	USA	2013
3:59.04	HELMUT KUNZEL	GER	2014	4:01.69	YOSHINAO KAMEI	JPN	2018	19:35.42	THOMAS MAINE	USA	2015
4:04.30	PATRICK GALVIN	RSA	2018	4:06.36	GRAHAM JOHNSTON	USA	2016	19:36.32	NILS FERM	SWE	2007
50 M. BRST				4:07.75	HIROSHI IMAIZUMI	JPN	2010	20:07.15	EDWARD HOY	GBR	2019
45.58	TOSHIO TAJIMA	JPN	2011	4:12.22	BOB BEST	USA	2019	20:09.22	JOHN HARRISON	GBR	2004
46.23	Y.MIYAMOTO	JPN	2002	4:13.14	ANTON CERER	USA	2001	20:13.74	GUS LANGNER	USA	1993
48.20	PATRICK GALVIN	AUS	2018	4:14.16	S.KROKOSZYNSKI	POL	2015	1500 M. FREE			
48.94	GERHARD GIERA	GER	2013	4:15.59	ANDREW HOLDEN	USA	2004	31:12.82	WILLARD LAMB	USA	2014
49.35	YASUO ASAKURA	JPN	2019	400 M. I.M.				34:48.90	D.CASOLINO	ITA	2017
49.43	TAKAO TSUCHIYA	JPN	2017	8:21.81	THOMAS MAINE	USA	2010	36:22.20	JURGEN SCHMIDT	USA	2013
49.46	HIROMU YOSHIMOTO	JPN	2000	8:34.82	KARL HAUTER	GER	2010	36:47.02	GUS LANGNER	USA	1993
49.49	FRANK PIEMME	USA	2010	8:45.80	WILLIAM LAUER	USA	2019	37:21.89	NILS FERM	SWE	2007
49.69	ROLF WALTHER	GER	2014	9:13.39	BOB BEST	USA	2017	37:31.09	EDWARD HOY	GBR	2019
49.90	SEIJI TAKAHASHI	JPN	2000	9:21.90	ANTON CERER	USA	2001	38:18.63	THOMAS MAINE	USA	2015
100 M. BRST				9:28.34	YOSHINAO KAMEI	JPN	2019	38:53.18	ELI KITAY	AUS	2014
1:49.64	PATRICK GALVIN	AUS	2018	9:42.77	WALTER PFEIFFER	USA	1999	38:56.19	JOHN HARRISON	GBR	2004
1:50.02	IWAO NARUSE	JPN	2017	9:59.48	GRAHAM JOHNSTON	USA	2018	39:36.67	WALTER PFEIFFER	USA	2004
1:50.91	SHUNSAKU TAKAHIRA	JPN	2018	10:14.44	SAUL BIRMAN	BRA	2019	50 M. BACK			
1:51.56	TAKAO TSUCHIYA	JPN	2016	10:28.43	FRANK GRIFFITHS	AUS	1994	46.82	GORO KOBAYASHI	JPN	2006
1:51.79	FRANK PIEMME	USA	2010	*****				51.01	K.KLAUSTERMEYER	GER	2019
1:53.27	BARTON GREENBERG	USA	2009	M E N 90-94				51.92	ZAVEN BOGHOSSIAN	BRA	2017
1:53.70	HIROMU YOSHIMOTO	JPN	2000	*****				51.94	ALAN WEEDEN	USA	2014
1:54.19	Y.MIYAMOTO	JPN	2002	50 M. FREE				53.26	KAZUNAGA AKUTSU	JPN	2002
1:56.49	YASUO ASAKURA	JPN	2019	39.19	WOODY BOWERSOCK	USA	2003	53.81	KAIZO WATANABE	JPN	2014
1:56.64	H.REITEMEYER	GER	2006	40.89	TOSHIMI INATOMI	JPN	2016	53.99	R.REINSTADTLER	GER	2002
200 M. BRST				41.93	GEORGE CORONES	AUS	2008	54.07	TOSHIJI SATO	JPN	2005
3:59.60	SHUNSAKU TAKAHIRA	JPN	2018	42.17	ROGER HALIMI	FRA	2012	54.39	BELA BANKI	HUN	2010
4:10.75	AL CRAIG	USA	2012	42.32	ZAVEN BOGHOSSIAN	BRA	2017	54.41	MASAHISA KANEKO	JPN	2003
4:13.50	PATRICK GALVIN	AUS	2018	43.03	TOKUSHI KOMEDA	JPN	2004	100 M. BACK			
4:13.81	KARL HAUTER	GER	2010	43.50	WILLARD LAMB	USA	2015	1:45.46	GORO KOBAYASHI	JPN	2006
4:15.11	FRANK PIEMME	USA	2010	43.78	KAZUNAGA AKUTSU	JPN	2002	1:59.92	WILLARD LAMB	USA	2014
4:16.56	THOMAS MAINE	USA	2010	44.07	MIRIO VINCENTIN	ARG	2009	2:01.03	JAN ZIEGLER	CZE	2015
4:16.96	ROBERT MACDONALD	USA	2013	44.27	S.KROKOSZYNSKI	POL	2017	2:02.90	KARL HAUTER	GER	2015
4:18.49	IWAO NARUSE	JPN	2017	100 M. FREE				2:04.48	TOSHIJI SATO	JPN	2006
4:19.49	Y.KASHIKAWA	JPN	2019	1:37.69	KARL HAUTER	GER	2015	2:04.94	R.REINSTADTLER	GER	2002
4:20.59	FREDERICK HOPPE	USA	2012	1:38.05	GORO KOBAYASHI	JPN	2006	2:06.63	BELA BANKI	HUN	2010
50 M. FLY				1:40.54	TOKUSHI KOMEDA	JPN	2004	2:07.20	JOHN MERRILL	USA	2007
43.62	ROBERTO ALBERICHE	ESP	2017	1:41.87	WILLARD LAMB	USA	2014	2:07.33	KAIZO WATANABE	JPN	2014
44.68	TAKASHI HAYASHI	JPN	2018	1:43.22	WOODY BOWERSOCK	USA	2003	2:07.37	NILS FERM	SWE	2008
44.87	YOSHINAO KAMEI	JPN	2018	1:45.51	GEORGE CORONES	AUS	2009	200 M. BACK			
45.31	CLARKE MITCHELL	USA	2017	1:48.50	ANTON BIEDERMANN	BRA	2014	4:05.77	GORO KOBAYASHI	JPN	2007
45.63	FRANK PIEMME	USA	2010	1:50.28	JURGEN SCHMIDT	USA	2013	4:20.06	WILLARD LAMB	USA	2014
45.98	PATRICK GALVIN	AUS	2019	1:50.30	KAZUNAGA AKUTSU	JPN	2002	4:24.15	JAN ZIEGLER	CZE	2015
46.48	ANDREW HOLDEN	USA	2004	1:50.66	YOSHIRO OBATA	JPN	2014	4:30.05	KARL HAUTER	GER	2017
46.85	TOSHIO TAJIMA	JPN	2010	200 M. FREE				4:32.63	NILS FERM	SWE	2009
47.88	TAMON YOSHIDA	JPN	2011	3:39.15	KARL HAUTER	GER	2016	4:33.77	BELA BANKI	HUN	2010
48.21	CURT ZEISS	GER	2016	3:41.77	WILLARD LAMB	USA	2013	4:34.60	R.REINSTADTLER	GER	2002
100 M. FLY				3:42.89	TOKUSHI KOMEDA	JPN	2004	4:40.87	KAIZO WATANABE	JPN	2013
1:52.68	TAKASHI HAYASHI	JPN	2018	4:02.49	JURGEN SCHMIDT	USA	2013	4:41.28	TOSHIJI SATO	JPN	2005
1:55.18	THOMAS MAINE	USA	2010	4:10.09	D.CASOLINO	ITA	2017	4:42.14	JOHN HARRISON	GBR	2004
2:00.90	WILLIAM LAUER	USA	2019	4:10.40	WOODY BOWERSOCK	USA	2003	50 M. BRST			
2:02.53	ANDREW HOLDEN	USA	2004	4:19.52	MASAHISA KANEKO	JPN	2002	50.71	TOSHIO TAJIMA	JPN	2015
2:05.21	KARL HAUTER	GER	2010	4:24.46	ANTON BIEDERMANN	BRA	2014	55.52	KARL HAUTER	GER	2016
2:05.39	FRANK PIEMME	USA	2010	4:25.48	JAMES TAR	BRA	2014	57.20	HIROMU YOSHIMOTO	JPN	2005
2:10.28	WALTER PFEIFFER	USA	1999	4:28.34	GUS LANGNER	USA	1993	59.18	GERHARD GIERA	GER	2019
2:11.44	ANTON CERER	USA	2002	400 M. FREE				1:00.75	SEIJI TAKAHASHI	JPN	2005
2:12.47	MAX VAN GELDER	NED	2009	8:01.57	WILLARD LAMB	USA	2014	1:00.98	H.REITEMEYER	GER	2011
2:13.91	SERHIY SIMANKOV	UKR	2017	8:05.10	KARL HAUTER	GER	2017	1:01.55	M.GIAMPIETRO	ITA	2013
200 M. FLY				8:13.45	TOKUSHI KOMEDA	JPN	2004	1:01.64	BRUD CLEAVELAND	USA	2007
4:15.86	THOMAS MAINE	USA	2010					1:01.79	GEORGE CORONES	AUS	2009



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

1:02.08	BRUNO HAMPEL	GER	2014	48.66	HIDEKAZU TAMURA	JPN	2015	2:54.90	NORI YAMAMOTO	JPN	2005
100 M. BRST				55.88	GUS LANGNER	USA	1998	3:04.37	GARY WEISENTHAL	USA	2008
2:05.18	KARL HAUTER	GER	2015	56.99	KAZUNAGA AKUTSU	JPN	2007	200 M. BACK			
2:15.43	HIROMU YOSHIMOTO	JPN	2005	1:02.27	JAMES TAR	BRA	2019	4:34.73	WILLARD LAMB	USA	2018
2:20.73	H.REITEMEYER	GER	2011	1:03.14	JARING TIMMERMAN	CAN	2005	5:24.20	HORVATH BANKI	HUN	2015
2:23.53	RAYMOND HAKOMAKI	USA	2010	1:03.59	KAIZO WATANABE	JPN	2019	5:30.07	TOSHIJI SATO	JPN	2010
2:28.24	BRUD CLEAVELAND	USA	2007	1:04.37	K.MROWCZYNSKI	POL	2017	6:00.99	JEAN LEEMPUT	FRA	2011
2:30.45	ALFRED SCHULHOF	CAN	2010	100 M. FREE				6:10.65	JOHN HARRISON	GBR	2010
2:30.49	GEORGE CORONES	AUS	2008	1:47.59	WILLARD LAMB	USA	2017	6:38.69	GARY WEISENTHAL	USA	2008
2:31.40	MASAHISA KANEKO	JPN	2002	1:57.54	GEORGE CORONES	AUS	2013	8:19.55	ALFREDO CHERCHI	AUS	2002
2:33.07	DENZO WAKAYAMA	JPN	2015	2:06.00	ANTON BIEDERMANN	BRA	2019	8:23.02	JACK MATHESON	AUS	2012
2:33.83	A.LISITSKIY	RUS	2015	2:17.59	KAZUNAGA AKUTSU	JPN	2007	9:40.66	WERNER KELLER	SUI	2019
200 M. BRST				2:23.76	JAMES TAR	BRA	2019	50 M. BRST			
4:41.26	KARL HAUTER	GER	2017	2:29.32	GUS LANGNER	USA	1998	1:10.01	GEORGE CORONES	AUS	2013
5:12.25	THOMAS MAINE	USA	2015	2:31.44	JARING TIMMERMAN	CAN	2005	1:10.83	HIROMU YOSHIMOTO	JPN	2010
5:17.47	HIROMU YOSHIMOTO	JPN	2005	2:35.95	K.MROWCZYNSKI	POL	2017	1:16.52	ALFREDO SCHULHOF	CAN	2014
5:26.11	GEORGE CORONES	AUS	2009	2:41.42	ALFRED SCHULHOF	CAN	2014	1:17.55	K.MROWCZYNSKI	POL	2017
5:26.75	H.REITEMEYER	GER	2011	2:41.83	HUGH MCGREGOR	CAN	2014	1:24.88	N.NANNAVECCIA	ITA	2017
5:35.18	MASAHISA KANEKO	JPN	2002	200 M. FREE				1:26.15	KAZUNAGA AKUTSU	JPN	2007
5:42.50	G.CHIZHEVSKIY	UKR	2016	4:04.60	WILLARD LAMB	USA	2017	1:26.61	GUS LANGNER	USA	1998
5:46.62	DENZO WAKAYAMA	JPN	2015	5:13.23	GUS LANGNER	USA	1998	1:29.09	B.BANKI-HORVATH	HUN	2016
5:49.32	BELA BANKI	HUN	2010	5:36.99	K.MROWCZYNSKI	POL	2017	1:31.06	BUD JACKSON	USA	2014
5:53.77	JURGEN SCHMIDT	USA	2014	5:47.82	FRANK GRANNIS	USA	2019	1:35.45	ROMAN JEZEK	CAN	2009
50 M. FLY				5:54.84	JAMES TAR	BRA	2019	100 M. BRST			
1:00.30	WALTER PFEIFER	USA	2003	5:56.17	JARING TIMMERMAN	CAN	2005	2:40.08	HIROMU YOSHIMOTO	JPN	2010
1:03.95	FRANK GRANNIS	USA	2014	5:58.59	HORVATH BANKI	HUN	2015	2:57.35	GEORGE CORONES	AUS	2013
1:05.38	JAN ZIEGLER	CZE	2015	6:21.53	HUGH MCGREGOR	CAN	2014	3:16.56	BUD JACKSON	USA	2014
1:05.95	ANDREW HOLDEN	USA	2009	6:28.25	BUD JACKSON	USA	2014	3:36.50	ROMAN JEZEK	CAN	2009
1:09.14	THOMAS MAINE	USA	2015	6:30.80	GARY WEISENTHAL	USA	2008	3:37.59	B.BANKI-HORVATH	HUN	2015
1:10.34	HEINZ SIEGEL	GER	2004	400 M. FREE				3:38.45	GUS LANGNER	USA	1998
1:10.59	GUILHERME SILVA	BRA	2019	8:43.18	WILLARD LAMB	USA	2017	3:54.74	JACK MATHESON	AUS	2012
1:11.54	R.REINSTADTLER	GER	2002	11:30.53	GUS LANGNER	USA	1998	3:54.78	FRANK GRANNIS	USA	2019
1:11.57	TOKUSHI KOMEDA	JPN	2004	12:10.95	K.MROWCZYNSKI	POL	2017	4:23.86	WERNER KELLER	SUI	2019
1:11.95	KARL HAUTER	GER	2016	12:11.73	HORVATH BANKI	HUN	2015	4:58.20	F.GIANNETTA	ITA	2012
100 M. FLY				13:16.38	JAMES TAR	BRA	2019	200 M. BRST			
2:23.56	THOMAS MAINE	USA	2015	13:19.19	HUGH MCGREGOR	CAN	2014	5:47.31	HIROMU YOSHIMOTO	JPN	2010
2:31.03	WALTER PFEIFER	USA	2003	13:43.10	GARY WEISENTHAL	USA	2008	7:11.65	BUD JACKSON	USA	2014
2:38.92	KARL HAUTER	GER	2015	19:15.56	WERNER KELLER	SUI	2019	7:29.12	HORVATH BANKI	HUN	2015
2:46.91	ALDO CAPUTI	ITA	2005	19:16.97	JACK MATHIESON	AUS	2012	7:37.17	GUS LANGNER	USA	1998
2:49.34	FRANK GRANNIS	USA	2014	20:38.12	JEAN STORZ	FRA	2009	7:54.76	ROMAN JEZEK	CAN	2009
3:29.53	JESSE COON	USA	2000	800 M. FREE				8:11.63	JACK MATHESON	AUS	2012
4:11.06	ROBERT DOUD	USA	2014	17:42.57	WILLARD LAMB	USA	2017	9:14.43	WERNER KELLER	SUI	2019
200 M. FLY				22:28.28	GUS LANGNER	USA	1998	12:08.37	F.GIANNETTA	ITA	2012
5:19.18	THOMAS MAINE	USA	2015	24:21.10	HORVATH BANKI	HUN	2015	50 M. FLY			
5:51.79	WALTER PFEIFER	USA	2003	27:57.44	JAMES TAR	BRA	2019	1:37.18	ALDO CAPUTI	ITA	2010
6:05.42	ALDO CAPUTI	ITA	2005	28:18.13	GARY WEISENTHAL	USA	2008	2:01.41	WALTER PFEIFFER	USA	2008
8:22.48	JESSE COON	USA	2000	28:40.69	HUGH MCGREGOR	CAN	2014	2:40.49	EUGENE LEHMAN	CAN	2008
9:44.64	ROBERT DOUD	USA	2013	42:55.70	JACK MATHIESON	AUS	2012	100 M. FLY			
200 M. I.M.				1500 M. FREE				4:09.52	WALTER PFEIFFER	USA	2008
4:27.72	KARL HAUTER	GER	2015	33:39.77	WILLARD LAMB	USA	2017	5:32.26	ROBERT DOUD	USA	2018
4:35.62	THOMAS MAINE	USA	2015	47:30.40	GUS LANGNER	USA	1999	200 M. FLY			
4:51.03	JAN ZIEGLER	CZE	2015	82:25.34	JACK MATHIESON	AUS	2012	11:47.68	ROBERT DOUD	USA	2018
5:02.64	TOKUSHI KOMEDA	JPN	2004	50 M. BACK				14:05.25	WALTER PFEIFFER	USA	2008
5:08.02	FRANK GRANNIS	USA	2014	55.90	ANTON BIEDERMANN	BRA	2019	200 M. I.M.			
5:12.11	WALTER PFEIFER	USA	2003	58.63	WILLARD LAMB	USA	2017	8:55.97	WALTER PFEIFFER	USA	2008
5:43.35	ALDO CAPUTI	ITA	2005	1:01.61	TOSHIJI SATO	JPN	2010	400 M. I.M.			
6:10.88	JOHN HARRISON	GBR	2005	1:02.35	B.BANKI-HORVATH	HUN	2015	17:29.20	WALTER PFEIFFER	USA	2008
6:25.78	JESSE COON	USA	2000	1:02.92	KAROL ZEMIER	POL	2017	22:47.45	ROBERT DOUD	USA	2018
7:02.80	JIM PENFIELD	USA	1998	1:03.32	KAZUNAGA AKUTSU	JPN	2007	*****			
400 M. I.M.				1:07.47	ALFRED SCHULHOF	CAN	2014	M E N 100-104			
9:56.43	THOMAS MAINE	USA	2015	1:10.06	NORI YAMAMOTO	JPN	2005	*****			
11:19.91	WALTER PFEIFER	USA	2003	1:10.49	JEAN LEEMPUT	FRA	2009	50 M. FREE			
13:52.72	JESSE COON	USA	2000	1:12.16	KAIZO WATANABE	JPN	2018	56.12	GEORGE CORONES	AUS	2018
17:53.58	ROBERT DOUD	USA	2013	100 M. BACK				1:31.19	JOHN HARRISON	GBR	2014
*****				2:11.19	WILLARD LAMB	USA	2017	1:40.46	TOM LANE	USA	1994
M E N 95-99				2:15.18	ANTON BIEDERMANN	BRA	2019	1:47.82	JEAN LEEMPUT	FRA	2015
*****				2:22.83	TOSHIJI SATO	JPN	2010	2:15.51	HANS HAHN	GER	2008
50 M. FREE				2:31.61	KAZUNAGA AKUTSU	JPN	2007	3:22.65	EDWIN THOMAS	USA	1994
45.71	WILLARD LAMB	USA	2017	2:32.01	B.BANKI-HORVATH	HUN	2015	100 M. FREE			
47.30	GEORGE CORONES	AUS	2013	2:34.18	FRANK GRANNIS	USA	2019	2:24.21	GEORGE CORONES	AUS	2018
48.42	ANTON BIEDERMANN	BRA	2019	2:41.42	ALFRED SCHULHOF	CAN	2014	3:23.10	JOHN HARRISON	GBR	2014
				2:42.01	JOHN HARRISON	GBR	2009				



[FINA](#) WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2019)

4:05.98	TOM LANE	USA 1994
50	M. BACK	
1:29.13	JEAN LEEMPUT	FRA 2014
1:32.20	JOHN HARRISON	GBR 2014
1:50.73	TOM LANE	USA 1994
2:25.23	HANS HAHN	GER 2008
100	M. BACK	
4:13.84	TOM LANE	USA 1994
6:01.50	HANS HAHN	GER 2008
200	M. BACK	
9:04.31	TOM LANE	USA 1994