



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2016)

WOMEN 25-29

50 M. FREE		
25.42 ANNABEL KOSTEN	NED	2004
25.73 EMMA GAGE	GBR	2015
26.16 TATIANA BARBOSA	BRA	2007
26.20 ALISON SHEPPARD	GBR	1998
26.38 RIENEKE TERINK	NED	2013
26.47 JENNIFER THATER	GER	2015
26.53 AYUMI TOCHIHARA	JPN	2016
26.56 MOTOMI NAKAMURA	JPN	2013
26.61 SANDRA KAZIKOVA	CZE	2005
26.64 SABINA DOSTALOVA	CZE	2016
26.64 MARIE BALLENGER	USA	2015
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
57.76 SHEILA TAORMINA	USA	1995
58.18 NADINE JONES	AUS	2016
58.22 ALISON SHEPPARD	GBR	1998
58.23 SARA SHAND	USA	1991
58.58 CAROLINE CAVADINI	BEL	2016
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
2:06.33 CAROLINE CAVADINI	BEL	2016
2:06.37 KIM VAN KRUYSEN	BEL	2000
2:06.40 NADINE REICHERT	GER	2009
2:06.63 ANNA POLYAKOVA	RUS	2015
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		
28.99 YURIE OGA	JPN	2014

29.60 MAI NAKAMURA	JPN	2008
30.01 ANJA VAN DER HOUT	NED	2015
30.07 CAROLINA COLORADO	COL	2016
30.27 IRYNA BOLSHAKOVA	UKR	2011
30.27 ELENA PYATOVA	RUS	2008
30.42 OLGA KLYUCHNIKOVA	RUS	2015
30.43 AKIKO MIZUMOTO	JPN	2008
30.51 SVETLANA KARPEEVA	RUS	2012
30.52 NAHOMI ERIGUCHI	JPN	2004
100 M. BACK		
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
1:05.78 ELENA PYATOVA	RUS	2008
1:06.08 ANJA VAN DER HOUT	NED	2015
1:06.13 OLGA KLJUCHNIKOVA	RUS	2015
1:06.13 KAORU ONO	JPN	1998
1:06.37 LIA OBERSTAR	USA	2004
200 M. BACK		
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
2:24.15 PAMELA HANSON	USA	2005
2:24.90 MARIANGEL HIDALGO	CRC	2014
2:25.78 F.ALVARENGA	BRA	2012
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 SCHOBER	GER	2012
33.01 RACHAEL WILSON	GBR	2016
33.02 SUVI PULKKINEN	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
1:13.15 MANUELA NACKEL	GER	1999
1:13.19 KATIE HENDERSON	GBR	2009
1:13.30 BRITTA O'LEARY	USA	2012
1:13.56 ALISA PONOMAREVA	FIN	2016
1:13.56 ULRIKE GERNER	GER	2012
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
2:38.22 KATJA BRASCHOS	GER	2006
2:39.40 BRITTA O'LEARY	USA	2012
2:40.10 MARISSA CLAPP	USA	2015
2:40.38 CAMILLE MARCHAND	FRA	2016
2:40.43 DARYA BELOVA	RUS	2015
2:42.02 SHARRON DAVIES	GBR	1990
50 M. FLY		
27.10 EMMA GAGE	GBR	2015
27.28 YUKA KATO	JPN	2015
27.29 ANNA POLYAKOVA	RUS	2015
27.46 V.VLADYKINA	RUS	2015
27.55 ELZANNE WERTH	RSA	2015
27.63 MOTOMI NAKAMURA	JPN	2013

27.80 V.EHRENBAUER	GER	2016
27.90 LINDA LUND TIETZE	DEN	2010
27.98 CAROLINA COLORADO	COL	2016
27.98 DARYA BELOVA	RUS	2015
100 M. FLY		
59.99 ANNA POLYAKOVA	RUS	2015
1:01.04 RACHEL KOMISARZ	USA	2001
1:01.93 EMMA GAGE	GBR	2015
1:02.10 B.STUDZINSKI	GER	2014
1:02.57 CAROLINA COLORADO	COL	2016
1:02.73 YUKO NAKANISHI	JPN	2010
1:03.18 SHELLY JOHNSTON	USA	2006
1:03.29 JENNIFER THATER	GER	2016
1:03.29 HITOMI MATSUDA	JPN	2006
1:03.43 SAYO TSUCHIYA	JPN	2014
200 M. FLY		
2:16.82 KIM VAN KRUYSEN	BEL	2000
2:17.51 SHEILA TAORMINA	USA	1996
2:17.56 YUKO NAKANISHI	JPN	2010
2:18.69 S.PALMERWHITE	AUS	1992
2:18.80 CHIZUKO UMIGUCHI	JPN	1997
2:20.72 HELEN SLATTER	GBR	1996
2:21.27 HITOMI MATSUDA	JPN	2006
2:21.57 JENNY WACHSMUTH	GER	2014
2:22.10 ERIKO KATO	JPN	2009
2:22.39 PRISCILLA MODROV	USA	2013
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
2:23.76 ALISON SHEPPARD	GBR	1998
2:24.61 MAREN SPIETZACK	GER	2016
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
5:07.04 MARIANGEL HIDALGO	CRC	2014
5:07.27 MAREN SPIETZACK	GER	2015
5:07.87 MARISSA CLAPP	USA	2015
5:08.31 ADRIENNE BROWN	USA	2013
5:08.47 JENNY WACHSMUTH	GER	2014

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
26.46 KATJA OTTO	GER	2014
100 M. FREE		
55.24 ERIKA ERNDL	USA	2009
55.62 MARTINA MORAVCOVA	USA	2008
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
58.25 KATJA OTTO	GER	2014



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58.30	KATY SEXTON	GBR	2012	2:22.52	JOANNA CORBEN	GBR	2002	2:13.89	ERIKA ERNDL	USA	2009
58.37	RUTH JONES	USA	2013	2:23.47	DAPHNE FUCHS	GER	1993	2:19.28	HITOMI MATSUDA	JPN	2010
200 M. FREE				2:23.56	ROBERTA IOPI	ITA	2016	2:21.28	N.VINOKURENKOVA	RUS	2013
2:04.05	DAWN HECKMAN	USA	2011	2:23.67	RACHAEL KEIR	GBR	2016	2:23.12	KARLYN PIPES	USA	1996
2:04.62	HITOMI MATSUDA	JPN	2009	2:24.09	JO SWATTON	GBR	2001	2:23.50	SARABETH METZGER	USA	2009
2:05.91	CAROLINE SAXBY	AUS	2013	2:24.25	MEGAN MELGAARD	USA	2012	2:24.12	NADINE DAY	USA	2004
2:06.80	KARLYN PIPES	USA	1996	50 M. BRST				2:25.90	WENKE HANSEN	USA	2000
2:06.91	MEGAN MELGAARD	USA	2012	32.22	NICOLE HEIDEMANN	GER	2013	2:26.17	YVETTA HLAVACOVA	CZE	2005
2:07.84	BETH KNIGHT	USA	1989	32.40	N.VINOKURENKOVA	RUS	2015	2:26.21	KATJA OTTO	GER	2014
2:07.87	KATJA TROSIEN	GER	2007	32.42	HITOMI MATSUDA	JPN	2009	2:26.41	HIDEKA KOSHIMIZU	JPN	1995
2:08.05	VERENA KLOCKER	AUT	2015	32.77	YUKO SAKAGUCHI	JPN	2009	400 M. I.M.			
2:08.26	ANGEL MARTINO	USA	2000	33.20	KATIE MCCLELLAND	USA	2008	4:56.08	HITOMI MATSUDA	JPN	2009
2:08.29	KIRSTEN CAMERON	NZL	2007	33.32	LAURA HOLT	USA	2014	5:02.23	N.VINOKURENKOVA	RUS	2014
400 M. FREE				33.57	SUSANNE HOCK	GER	2014	5:03.97	KARLYN PIPES	USA	1996
4:18.63	DAWN HECKMAN	USA	2011	33.66	ISABEL FIGUEIRA	POR	2009	5:05.05	HIDEKA KOSHIMIZU	JPN	1995
4:25.60	HITOMI MATSUDA	JPN	2008	33.78	CLAIRE ROLT	RSA	2016	5:09.93	NADINE DAY	USA	2004
4:26.50	MEGAN MELGAARD	USA	2012	33.84	WENKE HANSEN	USA	1999	5:09.95	A.JANITZKI	GER	2010
4:27.11	CAROLINE SAXBY	AUS	2013	100 M. BRST				5:11.39	KAREN BURTON	USA	1992
4:27.11	KIRSTEN CAMERON	NZL	2007	1:10.10	HITOMI MATSUDA	JPN	2009	5:13.97	SUSAN PORTER	USA	1994
4:28.33	PILAR GEIJO	ARG	2014	1:11.49	N.VINOKURENKOVA	RUS	2015	5:14.75	ANNE VELEZ	FRA	2010
4:28.76	KARLYN PIPES	USA	1996	1:11.98	NICOLE HEIDEMANN	GER	2013	5:15.13	SANDIE EASTON	USA	2002
4:30.38	BETH L KNIGHT	USA	1991	1:13.29	KATIE MCCLELLAND	USA	2008	*****			
4:31.47	VERENA KLOCKER	AUT	2015	1:13.32	SUSANNE HOCK	GER	2014	WOMEN 35-39			
4:31.82	KELLY HIGGINS	AUS	2011	1:14.32	ULRIKE GERNER	GER	2013	*****			
800 M. FREE				1:14.53	WENKE HANSEN	USA	1999	50 M. FREE			
8:46.47	DAWN HECKMAN	USA	2011	1:14.55	CLAIRE ROLT	RSA	2016	25.98	DARA TORRES	USA	2006
9:13.22	KIRSTEN CAMERON	NZL	2007	1:14.73	ANA GONZALES	ESP	2016	26.53	EDITH OTTERMANN	RSA	2004
9:16.82	LYNN MARSHALL	CAN	1992	1:14.95	ISABEL FIGUEIRA	POR	2009	26.63	EKATERINA YUDINA	RUS	2013
9:17.54	YVETTA HLAVACOVA	CZE	2005	200 M. BRST				26.65	ERIKA BRAUN	USA	2011
9:19.96	SUSAN PORTER	USA	1994	2:28.93	HITOMI MATSUDA	JPN	2009	26.66	TRACIE MOLL	USA	1999
9:20.20	BETH L KNIGHT	USA	1991	2:35.90	N.VINOKURENKOVA	RUS	2014	26.68	S.NEILSON-BELL	USA	1996
9:21.60	KELLY HIGGINS	AUS	2011	2:39.37	SUSANNE HOCK	GER	2014	26.78	NORIKO INADA	USA	2014
9:22.73	KAREN BURTON	USA	1996	2:39.71	NICOLE HEIDEMANN	GER	2013	26.78	SANDRA KAZIKOVA	CZE	2012
9:23.06	BROOKE BENNETT	USA	2012	2:40.90	A.JANITZKI	GER	2010	26.85	PEGGY GROSS	USA	2004
9:23.57	SUSANNE KELLER	SUI	2012	2:41.42	BELEN DOMENECH	ESP	2016	26.99	OLESSIA BOUROVA	ITA	2016
1500 M. FREE				2:41.51	WENKE HANSEN	USA	1999	100 M. FREE			
17:11.25	HEIDI GEORGE	USA	2009	2:41.63	KATIE MCCLELLAND	USA	2008	58.09	ERIKA ERNDL	USA	2016
17:32.48	DAWN HECKMAN	USA	2008	2:41.72	ULRIKE GERNER	GER	2013	58.22	LAURA ROCA	ESP	2015
17:38.70	KAREN BURTON	USA	1996	2:42.12	KATIE HENDERSON	GBR	2012	58.87	HITOMI MATSUDA	JPN	2012
17:43.52	KIRSTEN CAMERON	NZL	2007	50 M. FLY				58.87	S.NEILSON-BELL	USA	1995
17:48.42	YUREMA REQUENA	ESP	2014	27.48	MARTINA MORAVCOVA	USA	2009	58.94	BETH KNIGHT	USA	1994
17:48.44	K.PIPES-NEILSEN	USA	1996	27.59	ANGEL MARTINO	USA	2000	59.16	SHERI HART	USA	2006
17:48.60	LISA HAZEN	USA	1996	27.61	NORIKO INADA	USA	2012	59.20	TRACIE MOLL	USA	1999
17:53.12	BROOKE BENNETT	USA	2012	27.73	NADINE ROLLAND	CAN	2008	59.21	K.PIPES-NEILSEN	USA	1997
17:53.28	HITOMI MATSUDA	JPN	2007	28.04	IRINA SHLEMOVA	RUS	2015	59.26	MEGAN OESTING	USA	2009
17:55.58	BETH L KNIGHT	USA	1991	28.06	S.KNYAGININA	RUS	2015	59.27	JANA KLUSACKOVA	CZE	2016
50 M. BACK				28.15	ANGELA TAVERNIER	FRA	2014	200 M. FREE			
28.57	NORIKO INADA	USA	2012	28.25	RUTH JONES	USA	2013	2:05.97	ERIKA ERNDL	USA	2016
28.95	MAI NAKAMURA	JPN	2009	28.38	MABI TSUKIOKA	JPN	2009	2:06.62	K.PIPES-NEILSEN	USA	1998
29.55	MARTINA MORAVCOVA	USA	2009	28.40	PAULINE GOUWENS	NED	2015	2:07.64	SHEILA TAORMINA	USA	2006
29.70	KANA OHASHI	JPN	2009	100 M. FLY				2:07.99	HITOMI MATSUDA	JPN	2012
29.84	KATY SEXTON	GBR	2013	58.81	MARTINA MORAVCOVA	USA	2008	2:08.71	TRACIE MOLL	USA	1999
30.32	KANA YAMAGUCHI	JPN	2011	1:00.03	ANGEL MARTINO	USA	2000	2:08.75	KIRSTEN CAMERON	NZL	2009
30.45	NADINE ROLLAND	CAN	2008	1:01.19	L. CARVALHO	AUS	2010	2:08.93	CLAUDIA POLL	CRC	2010
30.65	IVANA GABRILO	SUI	2014	1:01.79	HITOMI MATSUDA	JPN	2009	2:08.93	BETH KNIGHT	USA	1994
30.70	ALENA NYVLTVOVA	CZE	2016	1:03.93	TRACIE MOLL	USA	1998	2:09.33	SUSAN HALFACRE	USA	1988
30.82	NAHOMI SHIRATA	JPN	2006	1:04.06	VERENA KLOCKER	AUT	2015	2:09.58	LAURA ROCA	ESP	2016
100 M. BACK				1:04.08	LAURA BIANZANI	ITA	2004	400 M. FREE			
1:01.78	NORIKO INADA	USA	2011	1:04.43	KARLYN PIPES	USA	1996	4:25.68	KIRSTEN CAMERON	NZL	2009
1:03.30	KATY SEXTON	GBR	2012	1:04.51	NADINE ROLLAND	CAN	2005	4:26.17	K.PIPES-NEILSEN	USA	1997
1:03.78	SARABETH METZGER	USA	2009	1:04.65	SARA PAPINI	ITA	2016	4:29.56	HITOMI MATSUDA	JPN	2012
1:04.40	KANA OHASHI	JPN	2009	200 M. FLY				4:31.35	BETH KNIGHT	USA	1994
1:04.97	KELLY HARRIGAN	USA	2014	2:13.60	METTE JACOBSEN	DEN	2006	4:32.57	SHEILA TAORMINA	USA	2006
1:05.42	DIANE GALLAS	USA	1996	2:20.07	EVGUENIA OJOGUINA	RUS	1999	4:33.08	SUSAN HALFACRE	USA	1988
1:05.54	KARLYN PIPES	USA	1996	2:20.12	KARLYN PIPES	USA	1996	4:34.20	SUSAN PAMELIA	USA	1987
1:06.63	KATIE BIRCHALL	GBR	2012	2:21.24	YUKIE UBUKATA	JPN	2012	4:34.43	CINDY BERTELINK	CAN	2014
1:06.76	IVANA GABRILO	SUI	2014	2:21.46	LAURA BIANZANI	ITA	2004	4:34.95	HEIDI GEORGE	USA	2015
1:06.81	MEGAN MELGAARD	USA	2012	2:21.50	HITOMI MATSUDA	JPN	2007	4:35.19	VALERIA VERGANI	ITA	2006
200 M. BACK				2:22.57	HIDEKA KOSHIMIZU	JPN	1995	800 M. FREE			
2:17.61	SARABETH METZGER	USA	2009	2:23.26	MARTIE MC KINNEY	USA	1995	9:05.15	KIRSTEN CAMERON	NZL	2009
2:17.73	KARLYN PIPES	USA	1996	2:23.35	MELISSA VARLAS	USA	2005	9:13.49	SHEILA TAORMINA	USA	2006
2:18.05	KANA YAMAGUCHI	JPN	2012	2:23.39	L. CARVALHO	AUS	2011	9:14.67	HEIDI GEORGE	USA	2015
2:21.26	DIANE GALLAS	USA	1996	200 M. I.M.							



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9:16.20	K.PIPES-NEILSEN	USA	1997	200 M. BRST		26.53	ERIKA BRAUN	USA	2015		
9:20.62	BETH KNIGHT	USA	1994	2:35.40	HITOMI MATSUDA	JPN	2012	26.64	INGE DE BRUIJN	NED	2013
9:24.54	SUSAN HALFACRE	USA	1988	2:39.78	KATIE GLENN	USA	2013	26.88	MARIA DOELGER	USA	2003
9:25.54	PENNY BOND	AUS	1998	2:40.63	CYNTHIA LEWIS	USA	2013	26.95	JUNKO NAKANO	JPN	2008
9:26.17	JACQUI ROBINSON	AUS	2008	2:41.51	YUKO MORITA	JPN	2012	26.97	ELIZABETH EMERY	USA	2002
9:27.41	HITOMI MATSUDA	JPN	2012	2:41.76	CAROLINE KRATTLI	USA	2001	27.18	JENNIE BUCKNELL	AUS	2009
9:27.70	VALERIA VERGANI	ITA	2006	2:43.74	CAROLINA BENEYTO	ESP	2015	27.28	ANN WORTHINGTON	USA	2006
1500 M. FREE				2:45.79	SATSUKI HIRUKAWA	JPN	2015	27.29	KERRY LINDAUER	USA	2015
17:17.22	HEIDI GEORGE	USA	2015	2:46.59	KAREN KEY	GBR	2012	100 M. FREE			
17:31.97	KIRSTEN CAMERON	AUS	2012	2:46.73	KELLY LEGASPI	USA	2009	58.04	ERIKA BRAUN	USA	2013
17:46.58	K PIPES-NEILSEN	USA	2000	2:47.19	SYLVIA GERASCH	GER	2004	58.43	MARIA DOELGER	USA	2003
17:54.74	HITOMI MATSUDA	JPN	2012	50 M. FLY				59.13	ELIZABETH EMERY	USA	2002
17:59.12	BETH KNIGHT	USA	1994	27.46	NORIKO INADA	USA	2014	59.59	K PIPES-NEILSEN	USA	2004
18:07.43	LYNN MARSHALL	CAN	1996	28.03	LYNNE HAYES	AUS	2009	59.63	RAAKEL LUOTO	FIN	2016
18:09.11	CAROLINA BENEYTO	ESP	2014	28.25	R.CRESCENTINI	ITA	2011	1:00.31	F.TRAVAGLINI	ITA	2016
18:09.36	LISA HAZEN	USA	1999	28.32	TRACIE MOLL	USA	1999	1:00.32	BARBARA KEHBEIN	GER	2013
18:12.11	SUSAN PAMELIA	USA	1987	28.63	MABI TSUKIOKA	JPN	2015	1:00.39	BEVERLEY MCCARNEY	RSA	2004
18:13.21	ALISON ZAMANIAN	USA	2008	28.67	JUNKO ONISHI	JPN	2010	1:00.40	S.VON DER LIPPE	USA	2009
50 M. BACK				28.73	PASCALE VERBAUWEN	BEL	2001	1:00.41	FALL WILLEBOORDSE	USA	2009
28.63	NORIKO INADA	USA	2016	28.75	KRISTINA ULVELING	USA	2009	200 M. FREE			
30.17	SHERI HART	USA	2010	28.92	EKATERINA YUDINA	RUS	2013	2:09.00	K PIPES-NEILSEN	USA	2003
30.89	KANA OHASHI	JPN	2013	28.92	SANDRA KAZIKOVA	CZE	2012	2:09.78	KIRSTEN CAMERON	GBR	2016
31.22	MARIA RIVERA	VEN	2010	100 M. FLY				2:10.47	KATIE GLENN	USA	2016
31.24	GISELI PEREIRA	BRA	2011	1:02.44	LYNNE HAYES	AUS	2009	2:10.50	S.VON DER LIPPE	USA	2007
31.27	PASCALE VERBAUWEN	BEL	2001	1:03.08	ERIKA ERNDL	USA	2016	2:11.05	CLAUDIA POLL	CRC	2014
31.28	CINDY MABEE	CAN	2008	1:03.52	MELANIA BUSSIARE	CAN	2008	2:11.63	BARBARA KEHBEIN	GER	2013
31.30	KANA MORIHISA	JPN	2016	1:03.79	TRACIE MOLL	USA	1999	2:12.24	AMANDA PICARD	SUI	2008
31.31	K PIPES-NEILSEN	USA	1999	1:03.97	KRISTINA ULVELING	USA	2009	2:12.75	SUSANNE SIMPSON	USA	2002
31.50	NAHOMI SHIRATA	JPN	2011	1:04.34	K PIPES-NEILSEN	USA	1998	2:12.77	VALERIA VERGANI	ITA	2013
100 M. BACK				1:04.59	HITOMI MATSUDA	JPN	2014	2:13.09	JODY SMITH	USA	2009
1:02.24	NORIKO INADA	USA	2016	1:04.91	DEBBIE YOUNGER	CAN	2005	400 M. FREE			
1:04.99	SHERI HART	USA	2010	1:05.02	PEGGY GROSS	USA	2004	4:22.87	JANET EVANS	USA	2011
1:05.41	K.PIPES-NEILSEN	USA	1997	1:05.31	ILDIKO SZEKELY	USA	2016	4:28.24	KIRSTEN CAMERON	GBR	2015
1:05.58	KANA OHASHI	JPN	2013	200 M. FLY				4:28.24	K PIPES-NEILSEN	USA	2002
1:06.34	GISELI PEREIRA	BRA	2011	2:20.21	K.PIPES-NEILSEN	USA	1997	4:34.33	AMANDA PICARD	SUI	2008
1:06.91	JODY SMITH	USA	2008	2:22.05	HITOMI MATSUDA	JPN	2012	4:34.33	SUSAN PRESTON	USA	2006
1:07.44	C.J-SPONCELLER	SWE	2010	2:22.61	ILDIKO SZEKELY	USA	2016	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
1:07.93	MARIA RIVERA	VEN	2010	2:26.38	LAURA B VAL	USA	1989	4:36.26	SUSAN DOMBKOWSKI	USA	2006
1:07.94	CINDY MABEE	CAN	2008	2:26.71	KRISTINA ULVELING	USA	2008	4:38.10	VALERIA VERGANI	ITA	2013
200 M. BACK				2:26.77	L. CARVALHO	AUS	2016	4:38.69	ALISON ZAMANIAN	USA	2011
2:18.20	K.PIPES-NEILSEN	USA	1997	2:27.21	NICOLA LATTY	GBR	2007	4:38.69	JILL HERNANDEZ	USA	2000
2:20.67	KANA OHASHI	JPN	2013	2:27.36	ANA PAULA GRILO	POR	2006	800 M. FREE			
2:20.70	NORIKO INADA	USA	2016	2:27.55	DEBBIE YOUNGER	CAN	2005	8:59.06	JANET EVANS	USA	2011
2:22.07	JODY SMITH	USA	2008	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	9:24.77	K PIPES-NEILSEN	USA	2002
2:23.47	JOANNA CORBEN	GBR	2005	2:22.42	K.PIPES-NEILSEN	USA	1997	9:24.90	PENNY PALFREY	AUS	2002
2:24.52	PASCALE VERBAUWEN	BEL	1998	2:23.49	ERIKA ERNDL	USA	2016	9:25.95	SUSAN PRESTON	USA	2006
2:26.32	TERRY RADAM	USA	2000	2:25.56	CYNTHIA LEWIS	USA	2013	9:25.95	SUZAN HEIM-BOWEN	USA	2001
2:26.44	SILVIA PAROCCHI	ITA	2003	2:26.58	LAURA ROCA	ESP	2015	9:27.52	HEIDI GEORGE	USA	2016
2:26.58	C.J-SPONCELLER	SWE	2010	2:28.07	CAROLINE KRATTLI	USA	2001	9:28.33	AMANDA PICARD	SUI	2008
50 M. BRST				2:28.51	CLAUDIA POLL	CRC	2010	9:30.66	VALERIA VERGANI	ITA	2013
32.86	KATIE GLENN	USA	2013	2:28.83	SILVIA PAROCCHI	ITA	2004	9:31.64	JILL HERNANDEZ	USA	2000
33.10	R.CRESCENTINI	ITA	2011	2:28.93	JUDITH LALLIER	USA	1994	1500 M. FREE			
33.24	HITOMI MATSUDA	JPN	2012	2:28.97	KATHERINE VEALE	GBR	2001	17:31.51	KIRSTEN CAMERON	GBR	2015
33.49	CASEY KEIBER	USA	2016	400 M. I.M.				17:44.35	HEIDI GEORGE	USA	2016
33.52	LINLEY FRAME	AUS	2010	4:59.59	HITOMI MATSUDA	JPN	2012	17:56.52	K PIPES-NEILSEN	USA	2003
33.64	SYLVIA GERASCH	GER	2004	5:02.67	K PIPES-NEILSEN	USA	1998	18:02.60	AMANDA PICARD	SUI	2008
33.68	LAURA ROCA	ESP	2016	5:15.05	LAUREEN WELTING	USA	2001	18:07.10	VALERIA VERGANI	ITA	2013
33.85	ANNA-KARIN LUNDIN	SWE	2011	5:16.17	CYNTHIA LEWIS	USA	2011	18:14.34	SUZ HEIM-BOWEN	USA	1998
33.91	CAROLINE KRATTLI	USA	2001	5:16.83	NADINE DAY	USA	2007	18:15.98	N.MUIR-COCHRANE	GBR	2004
34.13	CYNTHIA LEWIS	USA	2013	5:18.43	JILL HERNANDEZ	USA	1999	18:25.26	JILL HERNANDEZ	USA	2000
100 M. BRST				5:18.68	CAROLINA BENEYTO	ESP	2014	18:25.28	LYNN MARSHALL	CAN	2002
1:12.34	KATIE GLENN	USA	2013	5:19.41	CINDY BERTELINK	CAN	2014	18:43.69	JANET EVANS	USA	2011
1:12.75	CYNTHIA LEWIS	USA	2013	5:19.77	KATHERINE VEALE	GBR	2001	50 M. BACK			
1:12.77	HITOMI MATSUDA	JPN	2012	5:20.69	ASA NEIJ	SWE	2010	30.44	RAAKEL LUOTO	FIN	2016
1:13.81	CAROLINE KRATTLI	USA	2001	*****				30.89	MARIA RIVERA	VEN	2013
1:14.65	LINLEY FRAME	AUS	2010	*****				31.38	ERIKA BRAUN	USA	2015
1:14.73	ERIKA ERNDL	USA	2016	*****				31.49	CINDY MABEE	CAN	2009
1:14.84	ANNA-KARIN LUNDIN	SWE	2011	*****				31.52	GISELI PEREIRA	BRA	2013
1:15.11	S VON DER LIPPE	USA	2004	50 M. FREE				31.63	JODY SMITH	USA	2009
1:15.36	SYLVIA GERASCH	GER	2004	25.68	DARA TORRES	USA	2011	31.69	JUNKO NAKANO	JPN	2008
1:15.53	LAETITIA DUBOIS	FRA	2016	26.44	EDITH OTTERMANN	RSA	2009	31.71	ANDREA KUTZ	GER	2013



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31.90	MONICA SORO	ITA	2011	1:05.75	ERIKA BRAUN	USA	2015	2:13.85	JILL HERNANDEZ	USA	2005
31.95	ANA TEJEDA	DOM	2014	1:05.80	BEVERLEY MCCARNEY	RSA	2004	2:13.87	BARBARA KEHBEIN	GER	2014
100 M. BACK				1:06.27	LAURA VAL	USA	1992	2:14.84	SUSANNE SIMPSON	USA	2005
1:06.49	RAAKEL LUOTO	FIN	2016	1:06.35	WENKE SEIDER	USA	2013	2:14.89	ELLEN REYNOLDS	USA	2013
1:07.06	CINDY MABEE	CAN	2009	1:06.40	MARZENA KULIS	ITA	2007	400 M. FREE			
1:07.21	JODY SMITH	USA	2009	1:06.41	MARIA DOELGER	USA	2003	4:35.84	K.PIPES-NEILSEN	USA	2008
1:07.69	K PIPES-NEILSEN	USA	2003	200 M. FLY				4:37.74	ELENE JONES	USA	2009
1:07.75	GISELI PEREIRA	BRA	2013	2:24.77	K PIPES-NEILSEN	USA	2003	4:39.20	SUZANN HEIM-BOWEN	USA	2003
1:08.21	SYLVIE ALLERY	FRA	2009	2:24.78	S.VON DER LIPPE	USA	2006	4:40.35	VALERIA VERGANI	ITA	2016
1:08.32	HELEN WHITFORD	AUS	2008	2:25.15	SUSAN PRESTON	USA	2006	4:41.63	LYNN MARSHALL	CAN	2010
1:08.33	KRISTIN GARY	USA	2008	2:27.20	NICOLA LATTY	GBR	2012	4:43.14	SUSANNE SIMPSON	USA	2008
1:08.64	SILVIA PAROCCHI	ITA	2007	2:29.11	KAREN HIGGISON	AUS	2009	4:44.23	C.PETERSEN	USA	2009
1:08.75	JOANNA CORBEN	GBR	2012	2:29.37	SUSANNE SIMPSON	USA	2002	4:44.38	CLAUDIA KERN	GER	2009
200 M. BACK				2:29.81	BETH BAKER	USA	2001	4:44.49	BARBARA KEHBEIN	GER	2015
2:23.18	SILVIA PAROCCHI	ITA	2009	2:30.42	ANA PAULA GRILO	ESP	2009	4:45.57	JILL HERNANDEZ	USA	2005
2:23.18	JODY SMITH	USA	2009	2:30.47	BIRGIT LOHBERG	USA	2007	800 M. FREE			
2:23.64	K PIPES-NEILSEN	USA	2003	2:31.80	SANDIE EASTON	USA	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	9:36.86	ELENE JONES	USA	2008
2:28.36	KRISTIN GARY	USA	2008	2:25.38	K PIPES-NEILSEN	USA	2003	9:37.20	VALERIA VERGANI	ITA	2016
2:30.17	ELLEN REYNOLDS	USA	2008	2:25.81	LISA BLACKBURN	USA	2015	9:40.27	LYNN MARSHALL	CAN	2008
2:30.37	GISELI PEREIRA	BRA	2012	2:28.17	CYNTHIA LEWIS	USA	2016	9:40.64	CLAUDIA KERN	GER	2009
2:31.28	LISA WARD	USA	2008	2:29.80	CAROLINE KRATTLI	USA	2002	9:43.99	SUSANNA ROSEN	SWE	2009
2:31.34	LAURA SMITH	USA	2008	2:30.25	CLAUDIA POLL	CRC	2014	9:45.30	DIANNA EVA SZOKOL	HUN	2016
50 M. BRST				2:30.33	ELEEN GORMAN	GBR	2014	9:45.99	REBECCA PERROTT	NZL	2008
32.32	LINLEY FRAME	AUS	2013	2:30.33	SHEILA TRELEAVEN	CAN	2014	9:46.88	SUSANNE SIMPSON	USA	2008
32.47	KATIE GLENN	USA	2016	2:30.70	WENKE SEIDER	USA	2013	1500 M. FREE			
33.25	S.VON DER LIPPE	USA	2006	2:30.89	ANA PAULA GRILO	ESP	2009	17:55.83	SUZANN HEIM-BOWEN	USA	2003
33.44	S.BONDARENKO	UKR	2011	400 M. I.M.				18:10.28	ELENE JONES	USA	2008
33.79	CAROLINE KRATTLI	USA	2002	5:09.83	K PIPES-NEILSEN	USA	2004	18:12.63	LYNN MARSHALL	CAN	2009
33.86	LISA BLACKBURN	USA	2013	5:20.12	CYNTHIA LEWIS	USA	2016	18:40.27	LAURIE HUG	USA	2012
34.20	S.SEMINATORE	ITA	2004	5:21.32	JILL HERNANDEZ	USA	2000	18:44.29	K.PIPES-NEILSEN	USA	2008
34.50	SARAH JAMES	AUS	2015	5:21.42	LISA BLACKBURN	USA	2014	18:54.47	MAITE GARCIA	ESP	2011
34.59	TRINA SCHAETZ	USA	2016	5:21.87	MARZENA KULIS	ITA	2006	18:55.86	JILL GELIATLY	USA	2012
34.80	HELEN GORMAN	GBR	2015	5:21.95	VALERIA VERGANI	ITA	2012	18:57.89	DIANA SZOKOL	HUN	2016
100 M. BRST				5:22.96	ANA PAULA GRILO	ESP	2009	19:04.36	NORMA CAHILL	IRL	2013
1:11.31	LINLEY FRAME	AUS	2013	5:24.50	ANGELA DELISSEN	GER	2008	19:07.99	PAMELA NIX	AUS	2012
1:13.34	S.VON DER LIPPE	USA	2006	5:24.89	NADINE DAY	USA	2010	50 M. BACK			
1:13.55	CYNTHIA LEWIS	USA	2015	5:25.78	SHEILA TRELEAVEN	CAN	2014	31.02	CINDY MABEE	CAN	2016
1:13.57	KATIE GLENN	USA	2016	*****				31.71	ELLEN REYNOLDS	USA	2012
1:13.82	CAROLINE KRATTLI	USA	2002	WOMEN 45-49				31.71	VALERIA JENKINS	USA	2008
1:14.12	S.BONDARENKO	UKR	2012	*****				31.85	SUSAN WALSH	USA	2007
1:14.15	LISA BLACKBURN	USA	2014	50 M. FREE				31.94	SYLVIE ALLERY	FRA	2014
1:14.71	HELEN GORMAN	GBR	2014	26.59	EDITH OTTERMANN	RSA	2011	31.99	LESLIE LIVINGSTON	USA	2009
1:14.90	MARZENA KULIS	ITA	2006	27.04	M.FUZZATI	FRA	2013	32.02	FALL WILLEBOORDSE	USA	2013
1:15.83	H.MORRIS-EYTON	RSA	2010	27.09	MELANIE THOMAS	USA	2015	32.08	SHIZUKO HIRAISHI	JPN	2009
200 M. BRST				27.26	JENNIE BUCKNELL	AUS	2012	32.10	K.PIPES-NEILSEN	USA	2007
2:38.44	S.VON DER LIPPE	USA	2006	27.44	SUSAN WALSH	USA	2007	32.14	FRANCA BOSISIO	ITA	2014
2:40.76	H.MORRIS-EYTON	RSA	2010	27.61	LISA BLACKBURN	USA	2016	100 M. BACK			
2:40.86	LINLEY FRAME	AUS	2014	27.67	FALL WILLEBOORDSE	USA	2011	1:07.31	CINDY MABEE	CAN	2016
2:42.06	CAROLINE KRATTLI	USA	2002	27.68	ANETTE PHILIPSSON	SWE	2012	1:07.75	JOANNA CORBEN	GBR	2016
2:42.90	HELEN GORMAN	GBR	2014	27.76	BRIGITTE HEUER	USA	2006	1:08.11	K.PIPES-NEILSEN	USA	2009
2:43.17	MARZENA KULIS	ITA	2006	27.78	JUNKO NAKANO	JPN	2011	1:08.55	ELLEN REYNOLDS	USA	2010
2:44.44	LISA BLACKBURN	USA	2013	27.78	BETH LUTZ KNIGHT	USA	2005	1:08.82	KRISTIN GARY	USA	2014
2:47.92	KATIE GLENN	USA	2016	100 M. FREE				1:09.20	SYLVIE ALLERY	FRA	2014
2:49.37	WENKE SEIDER	USA	2011	57.40	MELANIE THOMAS	USA	2015	1:09.41	SILVIA PAROCCHI	ITA	2012
2:49.46	KAREN KEY	GBR	2014	59.79	K.PIPES-NEILSEN	USA	2007	1:09.51	FALL WILLEBOORDSE	USA	2013
50 M. FLY				1:00.05	M.FUZZATI	FRA	2013	1:09.66	SUSAN WALSH	USA	2007
28.36	ERIKA BRAUN	USA	2013	1:00.16	SUSAN WALSH	USA	2007	1:10.64	M.FUZZATI	FRA	2014
28.52	S.VON DER LIPPE	USA	2009	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
29.13	SILVIA PAROCCHI	ITA	2007	1:01.03	REBECCA PERROTT	NZL	2008	2:29.68	ELLEN REYNOLDS	USA	2013
29.24	MARIA RIVERA	VEN	2013	1:01.13	LISA BLACKBURN	USA	2016	2:30.68	STEPHANIE STONE	USA	2015
29.29	MARIA DOELGER	USA	2003	1:01.15	ANNA HAMMAR	SWE	2013	2:31.07	SILVIA PAROCCHI	ITA	2012
29.35	K PIPES-NEILSEN	USA	2002	200 M. FREE				2:31.93	LISA WARD	USA	2009
29.39	RAAKEL LUOTO	FIN	2016	2:10.09	K.PIPES-NEILSEN	USA	2009	2:32.08	KRISTIN GARY	USA	2014
29.40	K.RADKE GERRY	USA	2012	2:12.76	BETH LUTZ KNIGHT	USA	2005	2:32.12	HELEN WHITFORD	AUS	2012
100 M. FLY				2:13.00	MERELE LOVBERG	NOR	2016	2:33.51	SALLY BELL	AUS	2007
1:03.36	S.VON DER LIPPE	USA	2009	2:13.17	SUZANN HEIM-BOWEN	USA	2003	2:34.26	CINDY MABEE	CAN	2015
1:04.74	K PIPES-NEILSEN	USA	2003	2:13.27	ELENE JONES	USA	2009	50 M. BRST			
1:05.33	SILVIA PAROCCHI	ITA	2007	2:13.55	REBECCA PERROTT	NZL	2008	33.66	S.VON DER LIPPE	USA	2010
1:05.61	BETH BAKER	USA	2001					33.77	LINLEY FRAME	AUS	2016



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33.98	CAROLINE KRATTLI	USA	2007	2:33.72	CINDY MABEE	CAN	2016	1500 M. FREE			
34.05	MARZENA KULIS	ITA	2009	2:34.10	CAROLINE KRATTLI	USA	2007	18:29.28	LYNN MARSHALL	CAN	2011
34.20	MONICA CORO	ITA	2011	2:34.17	ANETTE PHILIPSSON	SWE	2010	18:32.76	S.HEIM-BOWEN	USA	2008
34.74	MAGGIE KELLY	GBR	2001	400 M. I.M.				19:01.37	ENEY JONES	USA	2010
34.89	S.BONDARENKO	UKR	2016	5:13.85	K.PIPES-NEILSEN	USA	2008	19:03.05	NORMA CAHILL	IRL	2015
34.91	SABINA VITALONI	ITA	2016	5:23.69	ELLEN REYNOLDS	USA	2013	19:07.52	JANE ANN HOAG	ITA	2016
35.12	ALBENA POPOVA	ITA	2009	5:27.67	JILL HERNANDEZ	USA	2005	19:08.69	LAURA VAL	USA	2001
35.18	LISA BLACKBURN	USA	2016	5:27.86	REBECCA PERROTT	NZL	2008	19:13.59	JEANNE CARLSEN	CAN	2010
35.18	ANNA HAMMAR	SWE	2013	5:29.68	MARZENA KULIS	ITA	2009	19:15.10	LAURIE HUG	USA	2015
100 M. BRST				5:30.74	STEPHANIE STONE	USA	2013	19:19.98	DENISE BROWN	USA	2009
1:13.49	MARZENA KULIS	ITA	2009	5:32.02	HELEN WHITFORD	AUS	2012	19:28.59	C.PETERSEN	USA	2016
1:13.95	LINLEY FRAME	AUS	2016	5:32.27	JILL GELLATLY	USA	2014	50 M. BACK			
1:14.41	S.VON DER LIPPE	USA	2010	5:32.69	ANGELA DELISSEN	GER	2012	32.02	MARIE FUZZATI	FRA	2015
1:15.64	LISA BLACKBURN	USA	2016	5:33.11	LYNN MARSHALL	CAN	2009	32.41	LESLIE LIVINGSTON	USA	2013
1:15.65	CAROLINE KRATTLI	USA	2007					32.50	ELLEN REYNOLDS	USA	2014
1:15.95	WENKE SEIDER	USA	2014	*****				32.87	J SWAGERTY-HILL	USA	2002
1:17.16	MONICA CORO	ITA	2011	WOMEN 50-54				33.01	S.ZHIGUNOVA	RUS	2015
1:18.19	MAGGIE KELLY	GBR	2001	*****				33.25	FALL WILLEBOORDSE	USA	2016
1:18.21	ANNA HAMMAR	SWE	2013	50 M. FREE				33.26	K.ANDRUS-HUGHES	USA	2007
1:18.51	SABINA VITALONI	ITA	2016	27.09	MARIE FUZZATI	FRA	2015	33.28	SUSAN WILLIAMS	USA	2016
200 M. BRST				27.79	ANETTE PHILIPSSON	SWE	2015	33.30	HIROKO NOGUCHI	JPN	2015
2:40.42	MARZENA KULIS	ITA	2009	27.94	EDITH OTTERMANN	RSA	2016	33.34	VALERIE JENKINS	USA	2013
2:43.73	H.MORRIS-EYTON	RSA	2013	28.17	FALL WILLEBOORDSE	USA	2016	100 M. BACK			
2:45.20	CAROLINE KRATTLI	USA	2007	28.22	LAURA VAL	USA	2001	1:09.28	ELLEN REYNOLDS	USA	2014
2:45.59	LINLEY FRAME	AUS	2016	28.25	JENNY WHITELEY	AUS	2009	1:10.82	FALL WILLEBOORDSE	USA	2016
2:48.13	WENKE SEIDER	USA	2014	28.29	JENNIE BUCKNELL	AUS	2016	1:11.00	MARIE FUZZATI	FRA	2015
2:50.94	CLAUDIA KERN	GER	2009	28.33	DANIELA DE PONTI	ITA	2016	1:11.39	SILVIA PAROCCHI	ITA	2016
2:51.02	JUDIT HAJDU	AUT	2007	28.41	SARAH MACDONALD	CAN	2010	1:11.78	K.PIPES-NEILSEN	USA	2012
2:53.27	K.PIPES-NEILSEN	USA	2008	28.41	ANGELA ZINGLER	GER	2005	1:12.69	ANETTE PHILIPSSON	SWE	2015
2:53.69	LAURA MOLINARI	ITA	2015	100 M. FREE				1:13.55	K.ANDRUS-HUGHES	USA	2008
2:54.07	SABINA VITALONI	ITA	2015	1:00.42	MARIE FUZZATI	FRA	2015	1:13.76	BONNIE BILICH	USA	2009
50 M. FLY				1:01.13	LAURA VAL	USA	2001	1:13.89	CATHY SHEEHAN	CAN	2010
28.97	EDITH OTTERMANN	RSA	2011	1:01.51	ANETTE PHILIPSSON	SWE	2015	1:14.04	MIKI NAMAI	JPN	2016
29.04	WENKE SEIDER	USA	2014	1:02.08	LIZ DILLMANN	USA	2015	200 M. BACK			
29.12	S.VON DER LIPPE	USA	2010	1:02.31	S.HEIM-BOWEN	USA	2008	2:26.64	ELLEN REYNOLDS	USA	2014
29.37	LAURIE DITOMMASO	USA	2009	1:02.49	DANIELA DE PONTI	ITA	2015	2:32.68	SILVIA PAROCCHI	ITA	2016
29.52	K.PIPES-NEILSEN	USA	2008	1:02.80	FALL WILLEBOORDSE	USA	2016	2:33.03	LYNN MARSHALL	CAN	2011
29.57	LISA DAHL	USA	2009	1:02.95	SARAH MACDONALD	CAN	2010	2:35.55	K.PIPES-NEILSEN	FRA	2012
29.74	LESLIE LIVINGSTON	USA	2009	1:02.95	SHANE GOULD	AUS	2008	2:37.11	NAOKO SHIDE	JPN	2010
29.82	SUSAN WILLIAMS	USA	2015	1:02.99	JILL HERNANDEZ	USA	2011	2:38.56	JUDY BROWN	GBR	2016
29.84	SUSAN WALSH	USA	2007	200 M. FREE				2:39.40	BONNIE BILICH	USA	2009
29.89	ANNA HAMMAR	SWE	2013	2:13.18	JILL HERNANDEZ	USA	2013	2:39.56	MARIE FUZZATI	FRA	2015
29.89	SHIZUKO HIRAISHI	JPN	2008	2:15.00	S.HEIM-BOWEN	USA	2008	2:39.82	JANE ANN HOAG	ITA	2016
100 M. FLY				2:15.06	LIZ DILLMANN	USA	2015	2:41.51	C.PETERSEN	USA	2016
1:04.96	WENKE SEIDER	USA	2014	2:15.37	LAURA VAL	USA	2001	50 M. BRST			
1:05.69	K.PIPES-NEILSEN	USA	2008	2:15.83	ELLEN REYNOLDS	USA	2016	34.18	MONICA CORO	ITA	2012
1:06.42	ARLENE DELMAGE	USA	2008	2:16.01	MAITE GARCIA	ESP	2015	35.42	JENNY WHITELEY	AUS	2009
1:06.65	BIRGIT LOHBERG	USA	2010	2:16.52	JENNY WHITELEY	AUS	2009	35.70	UTE HASSE	ESP	2015
1:06.91	FRANCA BOSISIO	ITA	2014	2:17.53	ENEY JONES	USA	2010	36.36	MARJA BLOEMZAAD	NED	2011
1:07.18	NATALIYA MATVEEVA	RUS	2010	2:17.65	LYNN MARSHALL	CAN	2011	36.40	JUDY GARAY	CAN	2014
1:07.30	JILL HERNANDEZ	USA	2005	2:17.74	MARIE FUZZATI	FRA	2015	36.73	JAN CLARKSON	AUS	2008
1:07.62	SHIZUKO HIRAISHI	JPN	2008	400 M. FREE				36.90	ALBENA POPOVA	ITA	2012
1:07.80	BARBARA KEHBEIN	GER	2014	4:40.66	JILL HERNANDEZ	USA	2013	36.94	MARZENA KULIS	ITA	2016
1:07.97	SILVIA PAROCCHI	ITA	2012	4:41.18	SUSAN PRESTON	USA	2016	36.99	MARIOLA KULIS	POL	2016
200 M. FLY				4:41.19	LYNN MARSHALL	CAN	2011	37.02	ELKE SCHMITZ	GER	2015
2:24.34	K.PIPES-NEILSEN	USA	2009	4:42.37	S.HEIM-BOWEN	USA	2008	100 M. BRST			
2:30.37	FRANCA BOSISIO	ITA	2014	4:47.34	MAITE GARCIA	ESP	2015	1:15.50	MONICA CORO	ITA	2012
2:31.37	LAURA VAL	USA	1998	4:47.93	LAURA VAL	USA	2002	1:17.80	MARZENA KULIS	ITA	2016
2:32.07	SUSANNE SIMPSON	USA	2006	4:48.62	ENEY JONES	USA	2010	1:18.73	UTE HASSE	ESP	2015
2:32.38	TERESA GARCIA	ESP	2010	4:50.37	JENNY WHITELEY	AUS	2008	1:19.23	JENNY WHITELEY	AUS	2009
2:32.51	NICOLA LATTY	GBR	2016	4:50.61	C.PETERSEN	USA	2015	1:21.29	JAN CLARKSON	AUS	2008
2:32.59	S. PALMER-WHITE	AUS	2009	4:51.07	BARBARA GELLRICH	GER	2011	1:22.13	T.PROKOFIEVA	RUS	2015
2:33.37	LYNN MARSHALL	CAN	2006	800 M. FREE				1:22.23	CORRIN POPPS	USA	2014
2:34.03	PAMELA NIX	AUS	2012	9:34.12	SUSAN PRESTON	USA	2016	1:22.58	MARJA BLOEMZAAD	NED	2013
2:34.05	ANDREA BLOCK	USA	2006	9:38.04	LYNN MARSHALL	CAN	2011	1:22.70	KATE SORENSSEN	DEN	2012
200 M. I.M.				9:48.81	S.HEIM-BOWEN	USA	2008	1:22.96	FALL WILLEBOORDSE	USA	2016
2:27.57	K.PIPES-NEILSEN	USA	2008	9:52.55	LAURA VAL	USA	2002	200 M. BRST			
2:28.42	WENKE SEIDER	USA	2014	9:54.50	MAITE GARCIA	ESP	2015	2:50.92	MONICA CORO	ITA	2012
2:31.88	MARZENA KULIS	ITA	2009	9:59.18	MARGE CURRAN	USA	2013	2:53.78	MARZENA KULIS	ITA	2016
2:31.95	REBECCA PERROTT	NZL	2008	9:59.71	JANE ANN HOAG	ITA	2016	2:54.00	ELLEN REYNOLDS	USA	2016
2:32.43	BARBARA KEHBEIN	GER	2014	9:59.85	NORMA CAHILL	IRL	2015	2:55.15	JENNY WHITELEY	AUS	2008
2:32.46	JILL HERNANDEZ	USA	2005	10:01.61	LAURIE HUG	USA	2015	2:57.58	JAN CLARKSON	AUS	2008
2:32.58	ELLEN REYNOLDS	USA	2012	10:02.92	TRIN CAMPBELL	USA	2014	2:58.60	CORRIN POPPS	USA	2014



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2:58.67	CYNTHIA PINCOTT	CAN	2012	29.79	TRACI GRANGER	USA	2014	1:17.34	LYNN MARSHALL	CAN	2016
2:59.29	UTE HASSE	ESP	2015	29.87	CHERYL GOMMERS	AUS	2003	1:17.51	B BARNETT-SALLEE	USA	2002
3:01.03	KATE SORENSEN	DEN	2011	100 M. FREE				1:17.52	K.ANDRUS-HUGHES	USA	2012
3:02.10	MARJA BLOEMZAAD	NED	2011	1:02.02	LAURA VAL	USA	2008	1:17.84	NAOKO SHIDE	JPN	2015
50 M. FLY				1:02.70	JILL HERNANDEZ	USA	2015	1:18.03	LINDLEY FLEURY	USA	2014
29.82	SUSAN WILLIAMS	USA	2016	1:03.99	HEATHER CAMPBELL	NZL	2008	1:18.09	ZENA COURTNEY	USA	2014
30.06	DANIELA DE PONTI	ITA	2016	1:05.14	JENNY WHITELEY	AUS	2014	200 M. BACK			
30.24	ANGELA ZINGLER	GER	2004	1:05.28	BETH LUTZ KNIGHT	USA	2016	2:38.52	LYNN MARSHALL	CAN	2016
30.29	ANETTE PHILIPSSON	SWE	2015	1:05.48	VERONICA HIBBEN	USA	2014	2:41.50	BONNIE BILICH	USA	2014
30.29	LESLIE LIVINGSTON	USA	2013	1:05.78	LYNN MORRISON	USA	2009	2:46.69	NAOKO SHIDE	JPN	2015
30.34	LISA DAHL	USA	2012	1:05.94	LYNN MARSHALL	CAN	2016	2:46.85	KAZUMI MORI	JPN	2016
30.48	NATALIYA MATVEEVA	RUS	2015	1:06.16	K.PALACE	USA	2016	2:47.52	N.STEADMAN-MARTIN	USA	2009
30.65	LAURIE DITOMMASO	USA	2013	1:06.17	K.ANDRUS-HUGHES	USA	2012	2:47.98	EVIE LYNCH	USA	2008
30.69	MARIA NORBERG	SWE	2014	200 M. FREE				2:49.22	COLETTE CRABBE	BEL	2013
30.72	MARIE FUZZATI	FRA	2016	2:16.28	LAURA VAL	USA	2009	2:49.57	ZENA COURTNEY	USA	2014
30.72	LAURA VAL	USA	2001	2:16.89	JILL HERNANDEZ	USA	2015	2:49.78	C.TARANTINO	ITA	2010
100 M. FLY				2:19.07	LYNN MARSHALL	CAN	2016	2:50.01	JANET MCDONOUGH	USA	2015
1:07.80	JILL HERNANDEZ	USA	2011	2:21.52	BARBARA GELLRICH	GER	2016	50 M. BRST			
1:07.81	LAURA VAL	USA	2001	2:22.36	ASUNCION ZABALA	ESP	2016	37.04	JENNY WHITELEY	AUS	2013
1:08.22	DANIELA DE PONTI	ITA	2016	2:22.48	JENNY WHITELEY	AUS	2013	37.42	PIA THULSTRUP	DEN	2016
1:09.90	ANETTE PHILIPSSON	SWE	2016	2:22.78	KIM OGRADY	USA	2016	37.80	DAGMAR FRESE	GER	2014
1:10.11	ANDREA BLOCK	USA	2012	2:23.56	K.PALACE	USA	2016	38.24	ALISON NYE	GBR	2012
1:10.19	KARLYN PIPES	USA	2014	2:24.47	N.STEADMAN-MARTIN	USA	2009	38.30	JAN WICKS	AUS	2001
1:10.31	CECILIA STANFORD	RSA	2011	2:24.52	BETH LUTZ KNIGHT	USA	2016	38.33	SARAH MACDONALD	CAN	2015
1:10.38	JUDITH HATTLE	GBR	2012	400 M. FREE				38.55	COLETTE CRABBE	USA	2013
1:10.78	JANNE THORSTENSEN	NOR	2016	4:43.41	LYNN MARSHALL	CAN	2016	38.58	ALICIA BOSCATTO	ARG	2016
1:10.79	S.HEIM-BOWEN	USA	2008	4:46.69	JILL HERNANDEZ	USA	2015	38.73	LESLIE LIVINGSTON	USA	2016
200 M. FLY				4:50.13	LAURA VAL	USA	2009	38.81	SETSUO MATSUI	JPN	2015
2:31.55	LAURA VAL	USA	2001	4:59.94	K.PALACE	USA	2016	100 M. BRST			
2:34.93	LYNN MARSHALL	CAN	2011	5:00.64	MARGUERITE MEYER	USA	2014	1:20.82	PIA THULSTRUP	DEN	2016
2:36.40	MAITE GARCIA	ESP	2015	5:03.67	BARBARA GELLRICH	GER	2016	1:23.16	JENNY WHITELEY	AUS	2013
2:36.81	S. PALMER-WHITE	AUS	2015	5:03.97	KIM OGRADY	USA	2016	1:24.78	DAGMAR FRESE	GER	2014
2:37.91	S.REIBEL-OBERLE	GER	2014	5:04.48	N.STEADMAN-MARTIN	USA	2009	1:25.19	LO KNAPP	USA	2009
2:40.57	JUDITH HATTLE	GBR	2012	5:04.52	JEANNE CARLSEN	CAN	2013	1:25.23	COLETTE CRABBE	BEL	2013
2:42.16	A.BIAGGI	ECU	2012	5:05.99	ENEY JONES	USA	2016	1:25.55	ALICIA BOSCATTO	ARG	2016
2:43.11	ILKA LOWENSTEYN	CAN	2016	800 M. FREE				1:25.58	KATE SOERENSEN	DEN	2016
2:43.11	JENNY COOK	USA	2008	9:46.56	JILL HERNANDEZ	USA	2015	1:25.86	JENNY COOK	USA	2013
2:43.99	CECILIA STANFORD	RSA	2012	9:49.18	LYNN MARSHALL	CAN	2016	1:26.17	AMANDA HEATH	GBR	2012
200 M. I.M.				10:05.28	LAURA VAL	USA	2008	1:26.50	TORILL BERGESEN	NOR	2012
2:31.02	ELLEN REYNOLDS	USA	2016	10:14.55	JEANNE CARLSEN	CAN	2013	200 M. BRST			
2:34.32	K.PIPES-NEILSEN	FRA	2012	10:18.29	K.PALACE	USA	2016	3:01.70	PIA THULSTRUP	DEN	2016
2:35.61	ANETTE PHILIPSSON	SWE	2016	10:18.54	KIM OGRADY	USA	2016	3:02.67	JENNY WHITELEY	AUS	2013
2:36.05	SUSAN PRESTON	USA	2016	10:21.00	MARGUERITE MEYER	USA	2014	3:04.04	ESTHER ISEPPI	SUI	2013
2:36.62	CECILIA STANFORD	RSA	2011	10:22.02	S.HEIM-BOWEN	USA	2016	3:04.32	LO KNAPP	USA	2009
2:36.78	DANIELA DEPONTI	ITA	2016	10:26.45	JENNY WHITELEY	AUS	2014	3:06.72	COLETTE CRABBE	BEL	2014
2:36.97	JILL HERNANDEZ	USA	2011	10:29.20	C.TARANTINO	ITA	2010	3:07.00	AMANDA HEATH	GBR	2012
2:37.90	JENNY WHITELEY	AUS	2008	1500 M. FREE				3:07.28	KAREN MAREB	USA	2014
2:37.94	DANIELA DE PONTI	ITA	2015	18:46.00	LYNN MARSHALL	CAN	2016	3:07.76	AVILA RHODES	CAN	2014
2:38.03	FALL WILLEBOORDSE	USA	2016	19:14.70	LAURA VAL	USA	2007	3:08.12	KEIKO UTSUMI	JPN	2011
400 M. I.M.				19:25.91	S.HEIM-BOWEN	USA	2016	3:08.52	JUDITH HATTLE	GBR	2016
5:20.68	ELLEN REYNOLDS	USA	2014	19:27.15	KIM OGRADY	USA	2016	50 M. FLY			
5:30.32	JILL HERNANDEZ	USA	2013	19:29.84	K.PALACE	USA	2016	30.52	LESLIE LIVINGSTON	USA	2016
5:32.26	LYNN MARSHALL	CAN	2011	19:30.77	JEANNE CARLSEN	CAN	2013	30.97	TRACI GRANGER	USA	2013
5:32.41	K.PIPES-NEILSEN	FRA	2012	19:50.81	ELLIE NAJJAR	USA	2016	31.42	LAURA VAL	USA	2009
5:36.45	S.REIBEL-OBERLE	GER	2014	19:52.61	BARBARA DUNBAR	USA	2004	32.02	M.CARMEN NAVARRO	ESP	2016
5:37.60	CECILLA STANFORD	RSA	2011	19:54.59	ENEY JONES	USA	2016	32.07	HARUMI SUGINUMA	JPN	2012
5:40.27	NAOKO SHIDE	JPN	2011	20:03.64	JENNY WHITELEY	AUS	2013	32.08	JENNY WHITELEY	AUS	2013
5:41.27	SHANNON MCINTYRE	USA	2016	50 M. BACK				32.16	ANDREA BLOCK	USA	2016
5:42.80	LAURA VAL	USA	2002	33.08	LESLIE LIVINGSTON	USA	2016	32.16	JUDITH HATTLE	GBR	2016
5:43.43	RIEKO SHOJI	JPN	2010	33.75	LAURA VAL	USA	2010	32.24	JUDY WILSON	GBR	2000
				34.73	BONNIE BILICH	USA	2016	32.38	HEATHER CAMPBELL	NZL	2008
*****				34.91	CATHY SHEEHAN	CAN	2015	100 M. FLY			
WOMEN 55-59				35.02	K.ANDRUS-HUGHES	USA	2012	1:09.47	LAURA VAL	USA	2009
*****				35.13	BENEDICTE DUPREZ	FRA	2006	1:10.27	JILL HERNANDEZ	USA	2015
50 M. FREE				35.49	LIZ COSGRAVE	IRL	2014	1:10.46	ANDREA BLOCK	USA	2016
28.69	LAURA VAL	USA	2008	35.55	B BARNETT-SALLEE	USA	2002	1:12.25	M.CARMEN NAVARRO	ESP	2016
28.80	LESLIE LIVINGSTON	USA	2016	35.66	DIANE COETZEE	RSA	2013	1:12.50	TRACI GRANGER	USA	2014
29.36	HEATHER CAMPBELL	NZL	2008	35.77	KIM BRIGHTWELL	USA	2015	1:12.52	LYNN MARSHALL	CAN	2016
29.46	PAT SARGEANT	USA	2008	100 M. BACK				1:12.84	COLETTE CRABBE	BEL	2013
29.55	JENNY WHITELEY	AUS	2013	1:14.41	LAURA VAL	USA	2008	1:13.01	CECILIA STANFORD	RSA	2016
29.62	CHRIS WENZEL	USA	2015	1:14.42	BONNIE BILICH	USA	2014	1:13.04	JUDITH HATTLE	GBR	2016
29.64	L.CADY-FERNANDES	USA	2016	1:16.78	CATHY SHEEHAN	CAN	2015	1:13.71	JUDY WILSON	GBR	2000
29.65	SARAH MACDONALD	CAN	2015	1:17.21	BENEDICTE DUPREZ	FRA	2006	200 M. FLY			



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2:37.99	LYNN MARSHALL	CAN	2016	5:21.02	LO KNAPP	USA	2014	100 M. BRST			
2:41.51	LAURA VAL	USA	2007	5:21.79	B.BARNETT-SALLEE	USA	2006	1:25.82	DAGMAR FRESE	GER	2016
2:44.16	N.STEADMAN-MARTIN	USA	2009	5:22.20	LAURA VACA	MEX	2015	1:27.08	AVILA RHODES	CAN	2016
2:48.14	I.KURTEN-SCHWABE	GER	2014	5:22.60	C.TARANTINO	ITA	2015	1:27.24	BETH ESTEL	USA	2016
2:48.61	JUDITH HATTLE	GBR	2016	5:23.55	CHRISTIE CIRAULO	USA	2015	1:27.64	BONNIE PRONK	CAN	2002
2:50.39	JENNY WHITELEY	AUS	2016	5:25.31	VERONICA HIBBEN	USA	2016	1:27.95	LO KNAPP	USA	2014
2:51.48	L.NAGOVITSYNA	RUS	2015	5:26.48	N.MARTIN	USA	2014	1:28.19	COLETTE CRABBE	BEL	2016
2:51.94	M HUNG OLEKSIUK	VEN	2015	800 M. FREE				1:29.23	MELINDA MANN	USA	2016
2:52.06	LAURIE ALIOTO	USA	2014	10:27.71	LAURA VAL	USA	2011	1:29.53	IRINA SHANGINA	RUS	2015
2:52.21	LEIGH RODGERS	AUS	2012	10:57.17	LAURA VACA	MEX	2014	1:29.86	HARRIET BERGER	GER	2004
200 M. I.M.				10:58.35	C.TARANTINO	ITA	2016	1:29.97	HANNELORE ROSE	GER	2002
2:38.74	JILL HERNANDEZ	USA	2015	11:02.30	CHRISTIE CIRAULO	USA	2015	200 M. BRST			
2:39.96	LYNN MARSHALL	CAN	2016	11:03.49	CHARLENE O'BRIEN	USA	2016	3:08.07	LO KNAPP	USA	2014
2:42.29	CECILIA STANFORD	RSA	2016	11:03.87	N.MARTIN	USA	2014	3:13.11	AVILA RHODES	CAN	2016
2:43.43	JENNY WHITELEY	AUS	2014	11:04.77	DIANE COETZEE	RSA	2016	3:14.49	BONNIE PRONK	CAN	2002
2:43.45	LAURA VAL	USA	2008	11:05.92	SUSAN SKIFF	USA	2015	3:15.64	JANETTE JEFFREY	AUS	2012
2:44.01	COLETTE CRABBE	BEL	2013	11:12.60	DOT MUNGER	USA	2014	3:15.66	DAGMAR FRESE	GER	2016
2:46.91	LO KNAPP	USA	2009	11:14.64	S.LOFTUS-CHARLEY	USA	2013	3:16.08	HANNELORE ROSE	GER	2003
2:47.79	JUDITH HATTLE	GBR	2016	1500 M. FREE				3:16.51	IRINA SHANGINA	RUS	2015
2:49.12	HEATHER CAMPBELL	NZL	2008	19:52.85	LAURA VAL	USA	2011	3:17.05	KRISSY MACCUDY	USA	2013
2:49.48	K.PALACE	USA	2016	20:52.70	CHRISTIE CIRAULO	USA	2015	3:17.24	DEB WALKER	USA	2011
400 M. I.M.				21:01.19	S.LOFTUS-CHARLEY	USA	2013	3:17.47	KEIKO UTSUMI	JPN	2016
5:40.33	LYNN MARSHALL	CAN	2016	21:09.44	LAURA VACA	MEX	2015	50 M. FLY			
5:49.40	LAURA VAL	USA	2009	21:16.05	BARBARA DUNBAR	USA	2009	32.27	LAURA VAL	USA	2012
5:51.88	CECILIA STANFORD	RSA	2016	21:21.40	C.TARANTINO	ITA	2016	32.28	LEIGH RODGERS	AUS	2016
5:53.27	COLETTE CRABBE	USA	2013	21:23.48	LAURIE SAMUELSON	USA	2015	32.57	CHARLOTTE DAVIS	USA	2012
5:53.54	BONNIE SPIVEY	USA	2013	21:24.84	LO KNAPP	USA	2014	33.24	VERONICA HIBBEN	USA	2016
5:55.18	NAOKO SHIDE	JPN	2015	21:25.18	COLETTE CRABBE	USA	2016	33.43	ANGELA ZINGLER	GER	2014
5:58.55	N.STEADMAN-MARTIN	USA	2009	21:27.17	AUDREY COOPER	GBR	2015	33.47	JUDY WILSON	GBR	2004
6:01.36	K.PALACE	USA	2016	50 M. BACK				33.49	LYNN MORRISON	USA	2014
6:03.55	GABRIELE BRKOWSKI	GER	2016	33.86	LAURA VAL	USA	2015	33.55	MELINDA MANN	USA	2016
6:07.52	ELLIE NAJJAR	USA	2016	35.63	LEIGH RODGERS	AUS	2016	33.63	BETTY CALLAHAN	AUS	1985
				35.79	B.BARNETT-SALLEE	USA	2006	33.74	CHRISTIE CIRAULO	USA	2013
*****				35.82	J.SWAGERTY-HILL	USA	2014	100 M. FLY			
WOMEN 60-64				36.07	CARLA YOUNG	CAN	2014	1:12.06	LAURA VAL	USA	2011
*****				36.42	DIANE COETZEE	RSA	2016	1:14.31	LEIGH RODGERS	AUS	2016
50 M. FREE				36.61	SATOKO TAKEUJI	JPN	2004	1:15.33	COLETTE CRABBE	BEL	2016
29.31	LAURA VAL	USA	2011	36.88	CECILIA MCCLOSKEY	USA	2014	1:17.34	JUDY WILSON	GBR	2004
30.11	CHARLOTTE DAVIS	USA	2012	36.93	LYNETTE STEVENSON	AUS	2009	1:17.85	MELINDA MANN	USA	2016
30.19	SANDERINA KRUGER	RSA	2011	36.94	RACHEL BARTON	GBR	2008	1:18.61	LAURA VACA	MEX	2014
30.42	LYNETTE STEVENSON	AUS	2009	100 M. BACK				1:18.83	CHARLOTTE DAVIS	USA	2012
30.44	A.PIJTAK-RADERSMA	NED	2016	1:14.76	LAURA VAL	USA	2015	1:19.75	CHARLENE O'BRIEN	USA	2016
30.55	JACKI HIRSTY	USA	2014	1:17.34	LEIGH RODGERS	AUS	2015	1:20.26	JEANNE LAPPIN	USA	2016
30.55	ROSARIO VIVANCO	PER	2009	1:17.81	M.RIPLEY	USA	2016	1:20.34	BARBARA DUNBAR	USA	2009
30.59	VERONICA HIBBEN	USA	2016	1:18.91	B.BARNETT-SALLEE	USA	2006	200 M. FLY			
30.71	LYNN MORRISON	USA	2015	1:19.41	DIANE COETZEE	RSA	2016	2:41.03	LAURA VAL	USA	2011
31.16	ANGELA ZINGLER	GER	2014	1:19.66	JOAN PFINGSGRAFF	USA	2014	2:54.50	COLETTE CRABBE	BEL	2016
100 M. FREE				1:20.34	COLETTE CRABBE	BEL	2016	2:58.64	LAURA VACA	MEX	2014
1:03.83	LAURA VAL	USA	2011	1:20.39	CECILIA MCCLOSKEY	USA	2014	3:01.50	N.MARTIN	USA	2014
1:06.63	SANDERINA KRUGER	RSA	2009	1:20.43	SATOKO TAKEUJI	JPN	2002	3:05.07	BARBARA DUNBAR	USA	2009
1:06.70	VERONICA HIBBEN	USA	2016	1:20.78	BENEDICTE DUPREZ	FRA	2012	3:07.36	ELAINE VALDEZ	USA	2016
1:07.33	CHARLOTTE DAVIS	USA	2010	200 M. BACK				3:09.96	ANDRA JAUNZEME	USA	2015
1:07.46	LYNN MORRISON	USA	2014	2:44.38	LAURA VAL	USA	2013	3:10.31	M.NEUMEISTER	GER	2012
1:08.08	ROSARIO VIVANCO	PER	2009	2:49.60	M.RIPLEY	USA	2016	3:11.07	JUNKO SATO	JPN	2014
1:08.50	JACKI HIRSTY	USA	2012	2:50.16	B.BARNETT-SALLEE	USA	2006	3:12.48	JUDY WILSON	GBR	2004
1:08.60	A.PIJTAK-RADERSMA	NED	2016	2:51.24	LEIGH RODGERS	AUS	2016	200 M. I.M.			
1:09.29	F.WILLIAMSON	USA	2008	2:52.05	DIANE COETZEE	RSA	2015	2:47.99	LAURA VAL	USA	2013
1:09.63	HEATHER CAMPBELL	RSA	2016	2:52.90	COLETTE CRABBE	BEL	2016	2:48.28	COLETTE CRABBE	BEL	2016
200 M. FREE				2:53.05	JOAN PFINGSGRAFF	USA	2014	2:52.67	CHARLOTTE DAVIS	USA	2010
2:21.48	LAURA VAL	USA	2012	2:55.30	BENEDICTE DUPREZ	FRA	2013	2:52.77	LEIGH RODGERS	AUS	2016
2:28.60	VERONICA HIBBEN	USA	2016	2:55.72	BARBARA CHURCH	USA	2015	2:57.92	SUSANNA SORDELLI	ITA	2016
2:29.54	SANDERINA KRUGER	RSA	2010	2:56.46	N.MARTIN	USA	2014	2:58.08	BRIGITTE MERTEN	GER	2006
2:29.86	DIANE COETZEE	RSA	2016	50 M. BRST				2:58.48	BETH ESTEL	USA	2016
2:30.96	JACKI HIRSTY	USA	2014	37.79	DAGMAR FRESE	GER	2016	2:58.78	LAURA VACA	MEX	2016
2:31.50	ROSARIO VIVANCO	PER	2009	38.48	MONIKA SENFTLEBEN	GER	2002	2:59.41	A.PIJTAK-RADERSMA	NED	2016
2:31.61	COLETTE CRABBE	BEL	2016	39.02	BETH ESTEL	USA	2016	2:59.57	JOAN PFINGSGRAFF	USA	2016
2:31.98	B.BARNETT-SALLEE	USA	2006	39.16	BONNIE PRONK	CAN	2002	400 M. I.M.			
2:32.17	LO KNAPP	USA	2014	39.25	JAN WICKS	AUS	2006	5:56.27	LAURA VAL	USA	2011
2:32.91	N.MARTIN	USA	2014	39.70	MELINDA MANN	USA	2016	5:56.40	COLETTE CRABBE	USA	2016
400 M. FREE				39.74	AVILA RHODES	CAN	2016	6:08.99	CHARLOTTE DAVIS	USA	2010
4:59.82	LAURA VAL	USA	2012	40.11	REGULA STEIGER	SUI	2013	6:18.55	LAURA VACA	MEX	2015
5:18.24	JACKI HIRSTY	USA	2014	40.46	IRINA SHANGINA	RUS	2015	6:19.16	SUSANNA SORDELLI	ITA	2016
5:19.86	DIANE COETZEE	RSA	2015	40.71	SALLY SHIELDS	GBR	2014	6:22.61	BRIGITTE MERTEN	GER	2006



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2016)

6:24.05	N.MARTIN	USA	2014	23:51.75	JAN CROFT	AUS	2009	36.03	RUTH SHAPS	USA	2012
6:26.86	S.LOFTUS-CHARLEY	USA	2013	50	M. BACK			36.14	YOSHIKO KADOSAKA	JPN	2014
6:27.23	JEANNE LAPPIN	USA	2016	35.46	LAURA VAL	USA	2016	36.50	MICHIE DOI	JPN	2008
6:27.26	ANDRA JAUNZEME	USA	2015	36.11	CECILIA MCCLOSKEY	USA	2016	36.55	KIRA MAKAROVA	RUS	2013

WOMEN 65-69											

50	M. FREE			37.11	MARGIT OHLSSON	SWE	2011	36.57	BRIGITTE MERTEN	GER	2013
29.92	LAURA VAL	USA	2016	37.38	CLARY MUNNS	AUS	2009	100	M. FLY		
30.72	SANDERINA KRUGER	RSA	2015	37.44	DIANN UUSTAL	USA	2011	1:13.70	LAURA VAL	USA	2016
30.85	CHARLOTTE DAVIS	USA	2016	37.54	SATOKO TAKEUJI	JPN	2009	1:20.09	CHARLOTTE DAVIS	USA	2015
31.84	CAROLYN BOAK	USA	2010	37.59	JANNIE JOHNSON	AUS	2013	1:20.90	CECILIA MCCLOSKEY	USA	2016
31.99	CONNY BOER-BUYS	NED	2016	38.17	SILVANA ABREU	BRA	2006	1:26.13	BRIGITTE MERTEN	GER	2013
32.07	JANETTE JEFFREY	AUS	2015	38.85	PAM HUTCHINGS	AUS	2002	1:26.17	CAROLYN BOAK	USA	2010
32.45	RUTH SHAPS	USA	2013	39.15	JANETTE JEFFREY	AUS	2016	1:27.73	YOSHIKO OSAKI	JPN	2003
32.49	DIANN UUSTAL	USA	2011	100	M. BACK			1:28.62	KIRA MAKAROVA	RUS	2012
32.52	CHRISTEL SCHULZ	GER	2005	1:16.34	LAURA VAL	USA	2016	1:29.47	CLARY MUNNS	AUS	2009
32.58	CLARY MUNNS	AUS	2009	1:20.17	CECILIA MCCLOSKEY	USA	2016	1:30.11	BARBARA DUNBAR	USA	2014
100	M. FREE			1:21.81	MARGIT OHLSSON	SWE	2010	1:30.29	A SUSAN TYLER	USA	2013
1:05.53	LAURA VAL	USA	2016	1:22.30	DIANN UUSTAL	USA	2011	200	M. FLY		
1:07.88	CHARLOTTE DAVIS	USA	2016	1:23.61	CLARY MUNNS	AUS	2009	3:21.42	CAROLYN BOAK	USA	2010
1:09.23	SANDERINA KRUGER	RSA	2015	1:24.67	SATOKO TAKEUJI	JPN	2007	3:28.48	KIRA MAKAROVA	RUS	2013
1:12.00	CHRISTEL SCHULZ	GER	2005	1:24.83	BENEDICTE DUPREZ	FRA	2016	3:29.68	DANIELA BARNEA	USA	2009
1:12.10	CAROLYN BOAK	USA	2010	1:25.86	MARIA BALLA	HUN	2009	3:29.68	HANNELORE ROSE	GER	2007
1:12.28	CONNY BOER-BUYS	NED	2016	1:26.39	E.KETELSEN	DEN	2010	3:30.95	BARBARA DUNBAR	USA	2015
1:13.05	YOSHIKO OSAKI	JPN	2004	1:26.61	BONNIE PRONK	CAN	2008	3:31.05	YOSHIKO OSAKI	JPN	2005
1:13.42	F.WILLIAMSON	USA	2013	200	M. BACK			3:32.63	SILVANA ABREU	BRA	2006
1:13.69	C.NIEUWENHUIS	NED	2016	2:49.39	LAURA VAL	USA	2016	3:33.04	FLORA CONNOLLY	GBR	1998
1:13.99	AIDA DAVIS	PER	2013	2:56.63	CECILIA MCCLOSKEY	USA	2016	3:33.38	HELGA REICH	GER	2002
200	M. FREE			3:00.24	MARGIT OHLSSON	SWE	2011	3:34.51	S.MORCHE-BLOCH	GER	2015
2:25.29	LAURA VAL	USA	2016	3:00.75	DIANN UUSTAL	USA	2013	200	M. I.M.		
2:35.36	CHARLOTTE DAVIS	USA	2015	3:06.41	BONNIE PRONK	CAN	2008	2:54.16	LAURA VAL	USA	2016
2:37.26	DOT MUNGER	USA	2016	3:08.20	SATOKO TAKEUJI	JPN	2007	2:54.74	CHARLOTTE DAVIS	USA	2016
2:37.63	SANDERINA KRUGER	RSA	2015	3:10.02	TAKAKO NAKAMORI	JPN	2014	2:56.87	CECILIA MCCLOSKEY	USA	2016
2:39.05	CAROLYN BOAK	USA	2010	3:10.55	MARIA BALLA	HUN	2009	3:05.32	BRIGITTE MERTEN	GER	2011
2:42.26	CHRISTEL SCHULZ	GER	2008	3:10.66	CLARY MUNNS	AUS	2009	3:06.10	CAROLYN BOAK	USA	2010
2:42.50	CONNY BOER-BUYS	NED	2016	3:11.04	JULIE GUNTHERP	NZL	2012	3:07.68	KIRA MAKAROVA	RUS	2013
2:42.91	YOSHIKO OSAKI	JPN	2004	50	M. BRST			3:08.78	MARGIT OHLSSON	SWE	2011
2:43.03	F.WILLIAMSON	USA	2013	40.51	GIURGIZA GABRILO	CRO	2012	3:08.85	CHRISTEL SCHULZ	GER	2006
2:43.36	JEN THOMASSON	AUS	2008	41.41	JANETTE JEFFREY	AUS	2016	3:11.94	YOSHIKO OSAKI	JPN	2003
400	M. FREE			41.52	MONIKA SENTLEBEN	GER	2009	3:13.04	CLARY MUNNS	AUS	2011
5:27.73	DOT MUNGER	USA	2016	41.69	BONNIE PRONK	CAN	2007	400	M. I.M.		
5:27.79	CHARLOTTE DAVIS	USA	2015	41.93	DOT MUNGER	USA	2016	6:28.60	CHARLOTTE DAVIS	USA	2016
5:43.10	JEN THOMASSON	AUS	2008	42.33	DURDICA GABRILO	CRO	2016	6:37.45	CAROLYN BOAK	USA	2010
5:45.43	CELESTE MILLER	USA	2015	42.73	DEB COELLNER	USA	2016	6:46.46	YOSHIKO OSAKI	JPN	2005
5:46.27	YOSHIKO OSAKI	JPN	2003	42.78	SHOKO YONEZAWA	JPN	2002	6:50.17	BRIGITTE MERTEN	GER	2012
5:46.65	JACKIE MARR	USA	2008	42.85	ANNEROSE TROBISCH	GER	2013	6:54.46	JACKIE MARR	USA	2008
5:50.35	F.WILLIAMSON	USA	2013	42.97	DIANN UUSTAL	USA	2011	6:56.94	HANNELORE ROSE	GER	2007
5:51.64	BARBARA DUNBAR	USA	2015	100	M. BRST			6:57.33	BARBARA DUNBAR	USA	2014
5:51.78	FRAN HARE	USA	2016	1:30.16	GIURGIZA GABRILO	CRO	2012	6:57.73	KIRA MAKAROVA	RUS	2012
5:53.50	CHRISTIE HAYES	USA	2014	1:32.66	JANETTE JEFFREY	AUS	2015	6:59.04	CLARY MUNNS	AUS	2012
800	M. FREE			1:33.23	NOBUKO YASUDA	JPN	2010	7:06.05	KATHY SLIFER	USA	2014
11:18.25	DOT MUNGER	USA	2016	1:33.69	DIANE FORD	GBR	2008	*****			
11:31.53	CHARLOTTE DAVIS	USA	2015	1:34.53	DOT MUNGER	USA	2016	WOMEN 70-74			
11:48.60	CELESTE MILLER	USA	2015	1:34.53	BONNIE PRONK	CAN	2008	*****			
11:52.87	BARBARA DUNBAR	USA	2014	1:34.67	DURDICA GABRILO	CRO	2016	50	M. FREE		
11:53.17	JEN THOMASSON	AUS	2008	1:34.87	JENNIFER MERRITT	GBR	2016	33.52	DIANN UUSTAL	USA	2016
11:55.93	JACKIE MARR	USA	2008	1:34.87	JENNIFER MERRITT	GBR	2016	33.57	CHRISTEL SCHULZ	GER	2010
11:59.36	CONNY BOER-BUYS	NED	2016	1:35.34	HANNELORE ROSE	GER	2007	33.61	YOSHIKO OSAKI	JPN	2009
12:04.35	FRAN HARE	USA	2016	1:35.75	STELLA HOLDSHTEIN	ISR	2012	33.95	REBECCA KAY	USA	2016
12:06.31	YOSHIKO OSAKI	JPN	2003	200	M. BRST			34.13	BITTE AXLING	SWE	2016
12:09.23	CARROL WANNELL	AUS	2008	3:19.76	JANETTE JEFFREY	AUS	2016	34.39	IKUKO OKADO	JPN	2013
1500	M. FREE			3:23.63	JENNIFER MERRITT	GBR	2016	34.64	JANE ASHER	GBR	2004
21:00.15	LAURA VAL	USA	2016	3:24.25	GIURGIZA GABRILO	CRO	2012	34.78	CLARY MUNNS	AUS	2015
22:28.69	BARBARA DUNBAR	USA	2014	3:24.79	NOBUKO YASUDA	JPN	2010	34.84	BRIGITTE MERTEN	GER	2016
22:40.65	JEN THOMASSON	AUS	2008	3:26.88	HANNELORE ROSE	GER	2007	35.06	JUDY WILSON	GBR	2016
23:00.95	CONNY BOER-BUYS	NED	2016	3:27.24	DIANE FORD	GBR	2008	100	M. FREE		
23:07.49	JACKIE MARR	USA	2008	3:27.71	LUISE KNOPFLE	GER	2004	1:14.28	YOSHIKO OSAKI	JPN	2009
23:17.71	MARCIA BARRY	USA	2015	3:28.43	MASAYO AZUMA	JPN	2001	1:15.01	CHRISTEL SCHULZ	GER	2010
23:31.33	ELEANOR PINFOLD	NZL	2016	3:28.49	BONNIE PRONK	CAN	2008	1:15.30	DIANN UUSTAL	USA	2016
23:35.49	ANN CAMPBELL	AUS	2014	50	M. FLY			1:17.13	BRIGITTE MERTEN	GER	2016
23:42.01	LAVELLE STOINOFF	USA	1998	33.66	CHARLOTTE DAVIS	USA	2016	1:17.94	JANE ASHER	GBR	2004
				34.09	DIANN UUSTAL	USA	2014	1:18.19	JEN THOMASSON	AUS	2013
				34.22	LAURA VAL	USA	2016	1:18.79	JUDY WILSON	GBR	2014
				35.63	SUMIKO KOBAYASHI	JPN	2015	1:19.45	CAROLYN BOAK	USA	2015
				35.77	CHRISTEL SCHULZ	GER	2006				

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13:58.35	HELGA REICH	GER	2012	200 M. BRST		38.64	GAIL ROPER	USA	2009	
13:58.84	JILL COMPLIN	GBR	2015	3:40.84 JOANN LEILICH	USA	2014	39.51	JOHNNIE DETRICK	USA	2016
14:05.80	DENISE ROBERTSON	AUS	2011	3:41.53 SHOKO YONEZAWA	JPN	2010	40.45	FLORENCE CARR	USA	2005
14:10.50	JUNE KRAUSER	USA	2001	3:43.29 LUISE KNOPFLE	GER	2014	40.75	JEAN TROY	USA	2007
14:16.12	SUSAN LEUNER	RSA	2014	3:44.29 MASAYO AZUMA	JPN	2011	41.21	OLGA JOHNSON	NZL	2001
14:16.35	ANNE WILLIAMS	USA	2013	3:53.56 A.VAN OBBERGHEN	BEL	2008	41.31	HATSUHO SUGAYA	JPN	1994
14:16.39	JEAN TROY	USA	2003	3:54.88 ELIANE PELLIS	BEL	2008	41.54	NAN BOHL	USA	2009
1500 M. FREE				3:55.25 SYLVIA NEUHAUSER	AUT	2004	41.80	ELIANE PELLIS	BEL	2013
24:41.76	JANE ASHER	GBR	2006	3:55.99 KUMIE TOKUDA	JPN	2012	100 M. FREE			
26:41.71	REIKO ISHIZAKI	JPN	2013	3:56.14 ANNE WILLIAMS	USA	2013	1:24.18	JANE ASHER	GBR	2011
26:58.65	DENISE ROBERTSON	AUS	2013	3:59.30 ANN HIRSCH	USA	2006	1:27.55	GAIL ROPER	USA	2009
27:09.75	JEAN TROY	USA	2003	50 M. FLY			1:34.43	MITSUKO KOMURO	JPN	2010
27:19.77	ANNE WILLIAMS	USA	2013	40.06 CHRISTEL SCHULZ	GER	2015	1:34.95	NAN BOHL	USA	2009
27:28.06	MARIA PENNA	BRA	2015	41.54 HARUMI SUGIMOTO	JPN	2013	1:34.96	DENISE ROBERTSON	AUS	2015
27:37.02	SARAH KOPSKY	USA	2016	41.99 JANE ASHER	GBR	2006	1:35.64	JEAN TROY	USA	2007
27:40.67	JUNE KRAUSER	USA	2001	42.34 CLAIRE O'DWYER	IRL	2016	1:35.94	LOTTIE GEURTS	NED	2016
27:41.38	JANE OBERG	USA	2012	44.54 HISAKO KITAYAMA	JPN	2012	1:36.14	M. CUNNINGHAM	AUS	2007
27:43.98	MICHIKO OKUMURA	JPN	2006	44.95 GAIL ROPER	USA	2004	1:37.04	JOHNNIE DETRICK	USA	2015
50 M. BACK				45.03 KIYOKO YONEDA	JPN	2016	1:37.18	ELIANE PELLIS	BEL	2013
42.06	SHOKO YONEZAWA	JPN	2010	45.44 ODETTE LUSIEN	FRA	2002	200 M. FREE			
43.16	PAM HUTCHINGS	AUS	2011	46.26 FUMIKO NAKAMURA	JPN	2013	3:07.40	JANE ASHER	GBR	2011
43.93	JANE ASHER	GBR	2006	46.27 HARU TSUKINO	JPN	2015	3:26.58	DENISE ROBERTSON	AUS	2015
43.94	YOSHIKO OSAKI	JPN	2014	100 M. FLY			3:27.26	JEAN TROY	USA	2007
44.43	DORIS STEADMAN	USA	1999	1:47.40 JUDIE OLIVER	CAN	2007	3:30.08	HELGA REICH	GER	2016
44.54	CHRISTEL SCHULZ	GER	2015	1:50.12 SYLVIA NEUHAUSER	AUT	2004	3:32.12	GAIL ROPER	USA	2009
44.57	MARGARET WILDING	GBR	2016	1:50.44 HELGA REICH	GER	2011	3:35.56	URSULA FROHLICH	GER	2016
45.77	GRETHE BENDTSEN	DEN	2007	1:50.99 JANE ASHER	GBR	2006	3:37.14	MARGERY MEYER	USA	2003
45.98	EVA JAROSOVA	CZE	2012	1:51.04 MARCELA STASTNA	CZE	2012	3:37.56	NAN BOHL	USA	2011
46.00	U.MEYER-TONNDORF	GER	2011	1:52.12 MARY ANN CASE	USA	2014	3:38.20	JUDIE OLIVER	CAN	2013
100 M. BACK				1:54.14 GAIL ROPER	USA	2004	3:40.08	AIKO HORII	JPN	2011
1:35.14	CHRISTEL SCHULZ	GER	2015	1:56.07 JUNE KRAUSER	USA	2001	400 M. FREE			
1:37.81	YOSHIKO OSAKI	JPN	2015	1:56.65 ODETTE LUSIEN	FRA	2002	6:39.90	JANE ASHER	GBR	2012
1:38.62	JANE ASHER	GBR	2006	1:56.92 LOIS NOCHMAN	USA	1999	7:10.31	HELGA REICH	GER	2016
1:38.78	DORIS STEADMAN	USA	2000	200 M. FLY			7:12.90	DENISE ROBERTSON	AUS	2015
1:39.02	SHOKO YONEZAWA	JPN	2010	4:03.55 SYLVIA NEUHAUSER	AUT	2004	7:24.53	JEAN TROY	USA	2007
1:41.22	PAM HUTCHINGS	AUS	2011	4:06.08 HELGA REICH	GER	2011	7:30.34	MARGERY MEYER	USA	2003
1:41.44	GRETHE BENDTSEN	DEN	2006	4:10.69 JUNE KRAUSER	USA	2001	7:39.84	URSULA FROHLICH	GER	2015
1:42.69	BETTY LORENZI	USA	2002	4:17.87 GAIL ROPER	USA	2004	7:40.93	AIKO HORII	JPN	2010
1:42.73	EVA JAROSOVA	CZE	2011	4:19.81 LOIS NOCHMAN	USA	1999	7:42.89	M. CUNNINGHAM	AUS	2005
1:42.81	JOAN PARNELL	CAN	2003	4:21.11 CHRISTA SVOBODOVA	CZE	2012	7:46.22	JUDIE OLIVER	CAN	2014
200 M. BACK				4:21.39 JANE ASHER	GBR	2006	7:47.03	DOROTHY DICKEY	AUS	2012
3:28.18	CHRISTEL SCHULZ	GER	2016	4:27.99 HIROKO KOBAYASHI	JPN	2015	800 M. FREE			
3:31.81	YOSHIKO OSAKI	JPN	2015	4:29.26 HARU TSUKINO	JPN	2015	13:51.21	JANE ASHER	GBR	2011
3:34.35	JANE ASHER	GBR	2006	4:29.94 ANN HIRSCH	USA	2006	14:52.17	HELGA REICH	GER	2016
3:37.48	DORIS STEADMAN	USA	2000	200 M. I.M.			15:00.75	DENISE ROBERTSON	AUS	2016
3:40.21	GRETHE BENDTSEN	DEN	2006	3:32.94 YOSHIKO OSAKI	JPN	2013	15:12.94	JEAN TROY	USA	2007
3:44.55	BETTY LORENZI	USA	2002	3:33.71 CHRISTEL SCHULZ	GER	2015	15:21.62	MARGERY MEYER	USA	2003
3:45.98	HELEN BIRD	AUS	2014	3:38.46 JANE ASHER	GBR	2006	15:32.50	GAIL ROPER	USA	2009
3:47.78	EVA JAROSOVA	CZE	2012	3:48.16 JUDIE OLIVER	CAN	2007	15:44.39	DOROTHY DICKEY	AUS	2012
3:48.04	HARUMI SUGIMOTO	JPN	2013	3:48.34 JOANN LEILICH	USA	2014	15:51.29	NAN BOHL	USA	2012
3:48.43	KAZU KOYAMA	JPN	2014	3:48.59 JUNE KRAUSER	USA	2001	16:04.82	BRITT GRILLI	SWE	2008
50 M. BRST				3:51.28 HELGA REICH	GER	2011	16:05.85	RITA SIMONTON	USA	1998
43.95	SHOKO YONEZAWA	JPN	2010	3:53.24 MARCELA STASTNA	CZE	2013	1500 M. FREE			
46.69	ELIANE PELLIS	BEL	2009	3:53.65 GRETHE BENDTSEN	DEN	2006	26:29.87	JANE ASHER	GBR	2011
47.10	JOANN LEILICH	USA	2014	3:54.27 TAYO FUJIEDA	JPN	2012	28:22.56	HELGA REICH	GER	2016
47.59	EDITH BOHM	GER	2003	400 M. I.M.			28:35.98	DENISE ROBERTSON	AUS	2016
47.76	KUMIE TOKUDA	JPN	2012	7:39.98 JANE ASHER	GBR	2006	29:04.81	JEAN TROY	USA	2007
47.77	GISELA GRUNER	GER	2012	7:51.71 JUNE KRAUSER	USA	2001	29:35.03	MARGERY MEYER	USA	2002
47.84	LUISE KNOPFLE	GER	2014	8:08.52 HELGA REICH	GER	2011	30:27.88	BETTY LORENZI	USA	2008
47.89	A.VAN OBBERGHEN	BEL	2009	8:10.16 ANN HIRSCH	USA	2006	30:35.70	FRANCA PARODI	ITA	2013
48.69	SYLVIA EISELE	USA	2005	8:17.70 GAIL ROPER	USA	2005	30:41.01	RITA SIMONTON	USA	1999
48.91	MASAYO AZUMA	JPN	2011	8:26.53 URSULA FROHLICH	GER	2010	30:43.41	MICHIKO OKUMURA	JPN	2011
100 M. BRST				8:28.79 SUE MAYNE	AUS	2011	30:46.79	DOROTHY DICKEY	AUS	2010
1:38.81	SHOKO YONEZAWA	JPN	2010	8:38.31 JUDIE OLIVER	CAN	2011	50 M. BACK			
1:42.18	JOANN LEILICH	USA	2014	8:41.75 KAZU KOYAMA	JPN	2015	46.39	BUNNY CEDERLUND	USA	2002
1:44.00	LUISE KNOPFLE	GER	2014	8:46.12 ANNEMARIE LUDICKE	GER	2015	46.51	JANE ASHER	GBR	2012
1:44.28	MASAYO AZUMA	JPN	2010	*****			47.94	SHOKO YONEZAWA	JPN	2015
1:45.78	ELIANE PELLIS	BEL	2009	*****			48.77	ALYCE VOGEL	USA	2014
1:45.98	A.VAN OBBERGHEN	BEL	2008	*****			48.98	EVA JAROSOVA	CZE	2016
1:47.73	KUMIE TOKUDA	JPN	2012	*****			49.13	U.MEYER-TONNDORF	GER	2016
1:48.15	TAYO FUJIEDA	JPN	2013	50 M. FREE			49.25	KATHARINA FLORA	ROU	2014
1:48.65	SYLVIA NEUHAUSER	AUT	2004	35.04 EVA JAROSOVA	CZE	2016	49.40	MARGERY MEYER	USA	2002
1:50.28	ANN HIRSCH	USA	2006	37.45 JANE ASHER	GBR	2011	49.53	BETTY LORENZI	USA	2009



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50.08	GRETHE BENDTSEN	DEN	2010	2:14.91	Y. KAPLAN-BADER	FRA	2008	4:01.97	G. MCKENZIE-HICKS	AUS	2012
100	M. BACK			2:21.88	GERTRUD MEERWALD	GER	2000	4:03.29	OLGA JOHNSON	NZL	2006
1:45.62	EVA JAROSOVA	CZE	2016	2:22.05	DENISE ROBERTSON	AUS	2015	400	M. FREE		
1:46.11	JANE ASHER	GBR	2011	2:22.44	BETTY RUSS	USA	2007	7:10.67	JANE ASHER	GBR	2016
1:47.29	BETTY LORENZI	USA	2009	2:25.58	CHIE TANI	JPN	2007	8:06.04	JEAN TROY	USA	2012
1:48.15	KATHARINA FLORA	ROU	2014	200	M. FLY			8:06.45	NAN BOHL	USA	2014
1:48.64	BUNNY CEDERLUND	USA	2002	4:15.19	JUDIE OLIVER	CAN	2012	8:14.05	MARGERY MEYER	USA	2007
1:48.90	SHOKO YONEZAWA	JPN	2016	4:22.66	SYLVIA NEUHAUSER	AUT	2009	8:14.99	DOROTHY DICKEY	AUS	2016
1:49.52	GRETHE BENDTSEN	DEN	2010	4:28.61	HELGA REICH	GER	2016	8:17.82	RITA SIMONTON	USA	2003
1:54.18	JUDIE OLIVER	CAN	2013	4:34.86	LOIS KIVI NOCHMAN	USA	2004	8:31.10	BETTY LORENZI	USA	2013
1:54.49	KIMIKO OOKA	JPN	2009	5:11.67	Y. KAPLAN-BADER	FRA	2008	8:35.33	AIKO HORII	JPN	2015
1:55.31	ALICE KINNAIRD	AUS	2016	5:12.38	BETTY RUSS	USA	2008	8:36.94	YOSHIKO KINOSHITA	JPN	2016
200	M. BACK			5:24.52	JEAN DURSTON	USA	1994	8:43.79	OLGA JOHNSON	NZL	2006
3:47.96	JANE ASHER	GBR	2012	5:29.93	MAXINE MERLINO	USA	1992	800	M. FREE		
3:53.25	BETTY LORENZI	USA	2009	5:34.09	JAE HOWELL	USA	2003	14:27.71	JANE ASHER	GBR	2016
3:55.60	EVA JAROSOVA	CZE	2016	5:48.70	NADIR TAUBERT	BRA	2014	16:45.59	DOROTHY DICKEY	AUS	2015
3:56.63	JUDIE OLIVER	CAN	2014	200	M. I.M.			16:48.12	NAN BOHL	USA	2014
3:59.73	BUNNY CEDERLUND	USA	2002	3:46.26	EVA JAROSOVA	CZE	2016	17:09.73	MARGERY MEYER	USA	2007
4:09.14	NANCY KINNEY	USA	2009	3:54.07	JANE ASHER	GBR	2011	17:10.20	BETTY LORENZI	USA	2013
4:10.95	GRETHE BENDTSEN	DEN	2010	3:59.70	JUDIE OLIVER	CAN	2012	17:14.24	RITA SIMONTON	USA	2003
4:11.24	KIMIKO OOKA	JPN	2009	4:12.56	HELGA REICH	GER	2016	17:49.83	OLGA JOHNSON	NZL	2006
4:11.82	G. SCHOBEL-GRASS	GER	2006	4:18.27	ANN HIRSCH	USA	2011	18:01.24	G. MCKENZIE-HICKS	AUS	2012
4:11.83	EDITH THEIN	ISR	2000	4:18.33	SYLVIA NEUHAUSER	AUT	2009	18:04.57	MARION BEULKE	AUS	2012
50	M. BRST			4:18.72	JEAN TROY	USA	2007	18:12.09	AIKO HORII	JPN	2015
47.59	SHOKO YONEZAWA	JPN	2015	4:19.58	DENISE ROBERTSON	AUS	2015	1500	M. FREE		
48.36	ELIANE PELLIS	BEL	2013	4:20.00	URSULA FROHLICH	GER	2015	28:11.18	JANE ASHER	GBR	2016
49.49	AGNES OBERGHEIN	BEL	2012	4:20.08	SUE MAYNE	AUS	2016	32:11.49	MARGERY MEYER	USA	2009
50.05	GISELA GRUNER	GER	2016	400	M. I.M.			32:18.85	DOROTHY DICKEY	AUS	2016
51.75	MASAYO AZUMA	JPN	2015	8:21.88	JANE ASHER	GBR	2011	32:32.53	BETTY LORENZI	USA	2012
53.36	EDITH BOHM	GER	2008	8:23.81	JUDIE OLIVER	CAN	2012	32:33.60	RITA SIMONTON	USA	2003
53.40	ANN HIRSCH	USA	2011	8:51.30	HELGA REICH	GER	2016	34:33.46	YOSHIKO KINOSHITA	JPN	2016
53.53	OLGA KOKORINA	RUS	2005	9:22.68	DENISE ROBERTSON	AUS	2015	35:43.52	AIKO HORII	JPN	2015
53.69	SUE MAYNE	AUS	2016	9:32.43	JEAN TROY	USA	2007	36:42.40	JEAN DURSTON	USA	1999
54.30	NAN BOHL	USA	2009	9:43.23	LOIS KIVI NOCHMAN	USA	2006	36:42.79	JOAN CAMPBELL	USA	2015
100	M. BRST			9:45.48	GERTRUD MEERWALD	GER	2000	36:53.31	BETTY RUSS	USA	2012
1:45.71	SHOKO YONEZAWA	JPN	2015	10:04.01	NANCY BROWN	USA	2016	50	M. BACK		
1:49.34	MASAYO AZUMA	JPN	2015	10:05.13	MAXINE MERLINO	USA	1992	44.92	JANE ASHER	GBR	2016
1:50.05	ELIANE PELLIS	BEL	2013	10:05.95	G. SCHOBEL-GRASS	GER	2006	51.81	BETTY LORENZI	USA	2012
1:50.94	A. VAN OBERGHEIN	BEL	2011	*****				53.44	BUNNY CEDERLUND	USA	2006
1:57.17	ANN HIRSCH	USA	2011	*****				55.68	KIMIKO OOKA	JPN	2014
1:59.30	SYLVIA NEUHAUSER	AUT	2009	*****				56.57	BETTY CHRISTIAN	USA	2006
2:01.21	OLGA KOKORINA	RUS	2005	*****				57.14	KERSTIN GJORES	SWE	2012
2:02.99	GISELA GRUNER	GER	2016	50	M. FREE			58.27	NANCY KINNEY	USA	2015
2:03.05	YOKO MIZUNO	JPN	2016	38.98	JANE ASHER	GBR	2016	58.34	MARGERY MEYER	USA	2008
2:05.45	JANE ASHER	GBR	2011	44.70	OLGA JOHNSON	NZL	2006	58.42	AILEEN SOULE	USA	1991
200	M. BRST			44.93	MIEKO KAMOSHITA	JPN	2012	58.73	AIKO GOTO	JPN	2016
3:59.60	MASAYO AZUMA	JPN	2015	44.97	JEAN TROY	USA	2012	100	M. BACK		
4:05.52	A. VAN OBERGHEIN	BEL	2012	46.08	NAN BOHL	USA	2014	1:52.70	JANE ASHER	GBR	2016
4:17.64	ANN HIRSCH	USA	2011	46.20	OLGA KOKORINA	RUS	2012	1:54.22	BETTY LORENZI	USA	2012
4:17.76	SYLVIA NEUHAUSER	AUT	2009	46.72	MARGERY MEYER	USA	2009	2:06.41	BUNNY CEDERLUND	USA	2006
4:26.18	OLGA KOKORINA	RUS	2006	47.23	DOROTHY DICKEY	AUS	2016	2:07.47	KERSTIN GJORES	SWE	2012
4:28.63	JANE ASHER	GBR	2011	47.63	MASAE KURATA	JPN	2016	2:08.11	KIMIKO OOKA	JPN	2014
4:31.56	SUE MAYNE	AUS	2016	48.04	AIKO HORII	JPN	2015	2:09.37	NANCY KINNEY	USA	2015
4:35.22	JUDIE OLIVER	CAN	2014	100	M. FREE			2:10.44	EDITH THEIN	ISR	2004
4:37.64	SYLVIA EISELE	USA	2009	1:29.29	JANE ASHER	GBR	2016	2:10.46	SILVIA CRAVERI	ITA	2009
4:40.09	EMMI PAULI	GER	1993	1:43.68	JEAN TROY	USA	2012	2:11.38	DOROTHY DICKEY	AUS	2015
50	M. FLY			1:45.16	NAN BOHL	USA	2014	2:12.48	WILLY VAN RYSEL	GBR	2001
46.21	JANE ASHER	GBR	2011	1:46.13	OLGA KOKORINA	RUS	2009	200	M. BACK		
47.37	GAIL ROPER	USA	2009	1:46.70	DOROTHY DICKEY	AUS	2016	4:00.25	JANE ASHER	GBR	2016
49.13	JUDIE OLIVER	CAN	2012	1:47.59	OLGA JOHNSON	NZL	2006	4:11.77	BETTY LORENZI	USA	2012
57.43	LOIS KIVI NOCHMAN	USA	2004	1:48.02	MARGERY MEYER	USA	2007	4:29.16	EDITH THEIN	ISR	2003
57.90	YONE MURATA	JPN	2002	1:48.59	BETTY LORENZI	USA	2012	4:35.71	BUNNY CEDERLUND	USA	2006
57.98	HAIKE HOLER	GER	2016	1:48.75	RITA SIMONTON	USA	2003	4:38.46	G. SCHOBEL-GRASS	GER	2011
58.33	CHIE TANI	JPN	2007	1:49.00	BRITT GRILLI	SWE	2013	4:42.52	DOROTHY DICKEY	AUS	2015
58.38	ANN HIRSCH	USA	2011	200	M. FREE			4:43.85	NANCY KINNEY	USA	2015
58.61	M. CUNNINGHAM	AUS	2005	3:21.29	JANE ASHER	GBR	2016	4:44.76	MARJORIE SHARPE	USA	2002
59.07	JEAN TROY	USA	2009	3:49.67	JEAN TROY	USA	2012	4:45.60	KERSTIN GJORES	SWE	2012
100	M. FLY			3:50.54	DOROTHY DICKEY	AUS	2016	4:46.20	PERSIS RAE	AUS	2007
1:54.93	JUDIE OLIVER	CAN	2012	3:55.17	NAN BOHL	USA	2014	50	M. BRST		
2:01.54	SYLVIA NEUHAUSER	AUT	2009	3:56.11	MARGERY MEYER	USA	2007	51.83	AGNES OBERGHEIN	BEL	2016
2:02.16	HELGA REICH	GER	2016	3:59.07	LIZ WALLIS	AUS	2012	57.24	OLGA KOKORINA	RUS	2009
2:02.26	JANE ASHER	GBR	2011	3:59.68	RITA SIMONTON	USA	2003	59.16	JANE ASHER	GBR	2016
2:06.55	LOIS KIVI NOCHMAN	USA	2004	4:00.92	AIKO HORII	JPN	2015	1:01.08	M. KAPCAROVA	SVK	2012



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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
1:03.35	ANN HIRSCH	USA	2016	11:16.32	Y.KAPLAN-BADER	FRA	2014	49:40.76	KIKU ONO	JPN	2007
1:03.39	YOKO KOBAYASHI	JPN	2011	11:21.06	MAXINE MERLINO	USA	1997	50:26.49	JULIA DOLCE	USA	1999
100 M. BRST				11:56.05	JAE HOWELL	USA	2007	51:19.79	KATH JOHNSTONE	NZL	2007
1:54.96	AGNES OBERGHEIN	BEL	2016	12:10.25	THELMA BRYAN	AUS	2015	50 M. BACK			
2:09.75	OLGA KOKORINA	RUS	2009	12:16.14	KALIS RASMUSSEN	CAN	2009	1:03.49	AILEEN SOULE	USA	1996
2:15.41	JANE ASHER	GBR	2016	12:29.83	NORA RONAI	BRA	2010	1:04.78	NOEL MORROW	CAN	2009
2:20.49	NAN BOHL	USA	2014	*****				1:05.08	WILLY VAN RYSEL	GBR	2006
2:21.10	ETSUKO KIMURA	JPN	2015	*****				1:06.02	KALIS RASMUSSEN	CAN	2014
2:22.94	M.KAPCAROVA	SVK	2012	*****				1:08.30	HANA ENATSU	JPN	2013
2:25.44	ANN HIRSCH	USA	2016	*****				1:09.68	AMY MULCRONE	AUS	2016
2:26.89	SYLVIA EISELE	CAN	2014	50 M. FREE				1:10.29	AUDREY ETIENNE	USA	2006
2:28.48	KIMIE KANAI	JPN	2009	49.68	OLGA KOKORINA	RUS	2013	1:11.05	DOROTHY WILLIAMS	GBR	2016
2:30.21	JEAN TROY	USA	2014	54.97	HISAKO KOGA	JPN	2007	1:11.47	TRUDY BULLIVANT	AUS	2013
200 M. BRST				55.48	MAURINE KORNFELD	USA	2011	1:11.53	FUMI MURATA	JPN	2014
4:18.23	AGNES OBERGHEIN	BEL	2016	55.76	AILEEN SOULE	USA	1996	100 M. BACK			
4:43.93	OLGA KOKORINA	RUS	2009	56.28	YONE MURATA	JPN	2012	2:23.23	AILEEN SOULE	USA	1996
5:04.17	ANN HIRSCH	USA	2016	56.87	RITA SIMONTON	USA	2008	2:25.93	WILLY VAN RYSEL	GBR	2006
5:14.41	NAN BOHL	USA	2014	58.80	JULIA DOLCE	USA	1999	2:30.63	MAURINE KORNFELD	USA	2011
5:21.96	JEAN TROY	USA	2012	1:00.88	M. CUNNINGHAM	AUS	2015	2:33.12	RITA SIMONTON	USA	2011
5:23.25	BARBARA BOHM	GER	2006	1:01.78	NOEL MORROW	CAN	2009	2:34.29	NOEL MORROW	CAN	2009
5:24.11	EVA KOPLIKOVA	CZE	2012	1:01.88	MARJORIE STONE	USA	2013	2:37.52	TRUDY BULLIVANT	AUS	2013
5:26.04	SYLVIA EISELE	CAN	2014	100 M. FREE				2:39.01	KALIS RASMUSSEN	CAN	2014
5:26.82	TERUKO ONO	JPN	2013	1:59.86	OLGA KOKORINA	RUS	2013	2:41.94	NORA KUTTI	EST	2013
5:27.60	BETTY CHRISTIAN	USA	2006	2:00.12	HISAKO KOGA	JPN	2007	2:45.73	HANA ENATSU	JPN	2014
50 M. FLY				2:03.52	RITA SIMONTON	USA	2008	2:47.05	MARIA LENK	BRA	2005
51.28	JANE ASHER	GBR	2016	2:08.53	MAURINE KORNFELD	USA	2012	200 M. BACK			
1:01.94	LOIS KIVI NOCHMAN	USA	2009	2:19.14	AUDREY ETIENNE	USA	2006	5:17.36	WILLY VAN RYSEL	GBR	2006
1:06.40	YONE MURATA	JPN	2007	2:19.62	AILEEN SOULE	USA	1996	5:28.09	KALIS RASMUSSEN	CAN	2014
1:09.14	Y.KAPLAN-BADER	FRA	2013	2:19.87	JULIA DOLCE	USA	2000	5:29.07	AILEEN SOULE	USA	1997
1:09.34	JEAN TROY	USA	2013	2:21.27	JOYCE O'FARRELL	AUS	2010	5:30.12	MAURINE KORNFELD	USA	2013
1:09.57	NORA RONAI	BRA	2010	2:25.03	CHIYOKO TAKIZAWA	JPN	2012	5:38.48	TRUDY BULLIVANT	AUS	2013
1:10.06	AGNES KISS	HUN	2012	2:25.17	MARJORIE STONE	USA	2013	5:41.35	MARIA LENK	BRA	2005
1:11.58	JEAN DURSTON	USA	1999	200 M. FREE				5:46.91	HANA ENATSU	JPN	2014
1:12.00	MARIA LENK	BRA	2000	4:19.80	RITA SIMONTON	USA	2008	5:56.93	JULIA DOLCE	USA	2000
1:12.55	E.LOBSIGER	ESP	2015	4:22.57	OLGA KOKORINA	RUS	2013	5:58.99	NORA KUTTI	EST	2013
100 M. FLY				4:30.03	MAURINE KORNFELD	USA	2013	6:05.42	INGEBORG FRITZE	GER	2011
2:23.89	LOIS KIVI NOCHMAN	USA	2009	5:06.38	AUDREY ETIENNE	USA	2006	50 M. BRST			
2:39.43	JEAN DURSTON	USA	2000	5:08.88	VALERIE LINCOLN	AUS	2014	1:03.72	OLGA KOKORINA	RUS	2013
2:40.97	Y.KAPLAN-BADER	FRA	2013	5:11.52	CHIYOKO TAKIZAWA	JPN	2012	1:13.20	INGEBORG FRITZE	GER	2012
2:43.95	BETTY RUSS	USA	2015	5:12.24	BETTY BRUSSEL	CAN	2014	1:16.17	MARJORIE STONE	USA	2014
2:45.28	DOROTHY WESTON	GBR	1998	5:13.39	FUMI MURATA	JPN	2013	1:18.96	NORA RONAI	BRA	2015
2:52.47	JAE HOWELL	USA	2007	5:16.84	WILLY VAN RYSEL	GBR	2006	1:20.53	MICHELE GUILLAIS	FRA	2011
2:58.82	THELMA BRYAN	AUS	2015	5:19.36	JULIA DOLCE	USA	1999	1:25.57	MASAKO HASEGAWA	JPN	2016
2:59.53	JUNE REYNOLDS	USA	2007	400 M. FREE				1:25.91	MARIA LENK	BRA	2005
2:59.55	MAXINE MERLINO	USA	1997	9:04.93	RITA SIMONTON	USA	2008	1:26.57	M.GOTTSCHALK	GER	1999
3:01.14	KATHERINE PELTON	USA	1991	9:30.36	MAURINE KORNFELD	USA	2011	1:27.24	AMY MULCRONE	AUS	2016
200 M. FLY				10:30.72	HISAKO KOGA	JPN	2009	1:27.46	ANNELIESE POKER	GER	2011
5:07.64	LOIS KIVI NOCHMAN	USA	2009	10:38.12	BETTY BRUSSEL	CAN	2014	100 M. BRST			
5:41.48	BETTY RUSS	USA	2012	10:38.46	VALERIE LINCOLN	AUS	2014	2:27.19	OLGA KOKORINA	RUS	2013
5:49.75	JEAN DURSTON	USA	1999	10:41.86	CHIYOKO TAKIZAWA	JPN	2012	2:55.27	MARJORIE STONE	USA	2013
6:12.31	JAE HOWELL	USA	2007	10:55.81	FUMI MURATA	JPN	2013	2:57.56	INGEBORG FRITZE	GER	2011
6:18.45	Y.KAPLAN-BADER	FRA	2016	10:58.64	WILLY VAN RYSEL	GBR	2006	3:04.80	NAKA FUKUOKA	JPN	2013
6:21.16	THELMA BRYAN	AUS	2015	11:17.74	MAXINE MERLINO	USA	2002	3:06.14	NORA RONAI	BRA	2015
6:35.26	MAXINE MERLINO	USA	1998	11:19.66	MARIA LENK	USA	2005	3:09.14	KALIS RASMUSSEN	CAN	2014
6:35.92	JUNE REYNOLDS	USA	2007	800 M. FREE				3:12.88	MARIA LENK	USA	2005
7:18.41	KATHERINE PELTON	USA	1990	18:53.58	RITA SIMONTON	USA	2008	3:19.15	BARBARA BOHM	GER	2010
8:02.73	ELLA PECKHAM	USA	1985	19:28.25	MAURINE KORNFELD	USA	2012	3:21.95	M.GOTTSCHALK	GER	1999
200 M. I.M.				22:01.97	VALERIE LINCOLN	AUS	2014	3:27.72	BETTY BRUSSEL	CAN	2016
4:12.71	JANE ASHER	GBR	2016	22:27.49	BETTY BRUSSEL	CAN	2014	200 M. BRST			
5:00.53	ANN HIRSCH	USA	2016	22:42.50	WILLY VAN RYSEL	GBR	2006	5:21.78	OLGA KOKORINA	RUS	2013
5:01.26	JEAN TROY	USA	2014	22:59.63	JOYCE O'FARRELL	AUS	2010	6:34.01	MARJORIE STONE	USA	2015
5:07.89	AGNES KISS	HUN	2013	23:01.12	MARIA LENK	BRA	2005	6:38.72	KALIS RASMUSSEN	CAN	2014
5:10.11	Y.KAPLAN-BADER	FRA	2015	23:04.42	MAXINE MERLINO	USA	2002	6:53.97	BARBARA BOHM	GER	2010
5:11.92	LOIS KIVI NOCHMAN	USA	2009	24:21.14	KALIS RASMUSSEN	CAN	2015	6:54.46	INGEBORG FRITZE	GER	2012
5:16.68	JEAN DURSTON	USA	1999	26:04.96	KATH JOHNSTONE	NZL	2007	6:57.76	MARIA LENK	USA	2005
5:25.65	RITA SIMONTON	USA	2004	1500 M. FREE				7:10.69	BETTY BRUSSEL	CAN	2014
5:27.56	MAXINE MERLINO	USA	1997	36:02.20	RITA SIMONTON	USA	2008	7:45.45	MICHIKO HAMURO	JPN	2009
5:29.95	KALIS RASMUSSEN	CAN	2009	42:10.07	VALERIE LINCOLN	AUS	2014	7:59.99	M. CUNNINGHAM	AUS	2015
400 M. I.M.				42:30.27	WILLY VAN RYSEL	GBR	2006	8:00.51	GUDRUN KLOOS	RSA	2015



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50 M. FLY		21:53.69 RITA SIMONTON	USA 2013		
1:22.05 YONE MURATA	JPN 2012	22:19.76 MAURINE KORNFELD	USA 2016	*****	
1:22.77 NORA RONAI	BRA 2014	29:29.02 MIEKO NAGAOKA	JPN 2010	M E N 25-29	
1:29.40 CHARLOTTE SANDDAL	USA 2013	33:53.37 KATH JOHNSTONE	NZL 2012	*****	
1:33.12 RITA SIMONTON	USA 2008	1500 M. FREE		50 M. FREE	
1:45.61 KALIS RASMUSSEN	CAN 2014	41:39.68 RITA SIMONTON	USA 2013	22.34 A.LIUKKONEN	FIN 2014
1:53.22 R.FLORES	MEX 2014	54:09.81 MIEKO NAGAOKA	JPN 2011	22.79 A.WADDELL	AUS 1992
2:29.08 GERTRUD ZINT	USA 2007	85:21.95 KATH JOHNSTONE	NZL 2015	22.94 PAVEL ZINKEVICH	BLR 2015
4:42.00 HILDA BUEL	USA 2006	50 M. BACK		22.97 SERGEY MUKHIN	RUS 2013
4:57.25 ANNA BAUSCHER	USA 1994	1:14.31 RITA SIMONTON	USA 2013	23.12 ALEXANDRE AGOSTIN	POR 2015
100 M. FLY		1:17.35 MAURINE KORNFELD	USA 2016	23.15 C.GRAHLEMANN	GER 2009
3:39.01 NORA RONAI	BRA 2014	1:19.05 MIEKO NAGAOKA	JPN 2009	23.17 RYO ISHII	JPN 2016
4:44.20 R.FLORES	MEX 2014	1:26.82 KIKUE ISHII	JPN 2016	23.21 CAMERON OWEN	USA 2016
200 M. FLY		1:30.96 INGEBORG FRITZE	GER 2016	23.21 YURI COSTA	BRA 2014
8:52.22 NORA RONAI	BRA 2014	1:37.73 KIKU ONO	JPN 2013	23.24 THIAGO REZZO	BRA 2014
10:39.85 R.FLORES	MEX 2014	1:39.68 EDITH HENDRY	USA 2007	100 M. FREE	
200 M. I.M.		1:42.07 JULIA DOLCE	USA 2005	50.45 MATTHEW MCGINNIS	USA 2013
6:30.12 RITA SIMONTON	USA 2008	1:45.87 MASAKO MATSUNO	JPN 2012	50.74 NICK SHACKELL	USA 2000
6:32.52 NORA RONAI	BRA 2014	1:49.08 CLARICE ARTIS	AUS 2013	50.75 KOSUKE MAEDA	JPN 2015
6:35.70 MAXINE MERLINO	USA 2003	100 M. BACK		50.81 A.LIUKKONEN	FIN 2014
6:55.97 KALIS RASMUSSEN	CAN 2014	2:42.67 RITA SIMONTON	USA 2013	51.06 ADAM RITTER	USA 2013
7:24.79 R.FLORES	MEX 2014	2:47.43 MAURINE KORNFELD	USA 2016	51.22 CAMERON OWEN	USA 2016
8:11.91 CHARLOTTE SANDDAL	USA 2014	2:55.56 MIEKO NAGAOKA	JPN 2010	51.23 EDVALDO SILVA	BRA 2007
12:03.55 HILDA BUEL	USA 2004	3:26.93 MASAKO MATSUNO	JPN 2011	51.31 A.SCHONENBERGER	BRA 2014
12:10.93 ANNA BAUSCHER	USA 1994	3:40.79 CLARICE ARTIS	AUS 2013	51.36 SERGEY MUKHIN	RUS 2013
400 M. I.M.		3:42.90 EDITH HENDRY	USA 2007	51.37 STEFAN OOSTING	NED 2009
14:12.52 NORA RONAI	BRA 2014	4:03.66 LAURA OLIVEIRA	BRA 2014	200 M. FREE	
16:29.91 R.FLORES	MEX 2014	4:16.79 MARGE ANDERSON	CAN 1998	1:51.00 JOHN KEPPELER	USA 1996
*****		4:18.07 ROSA SELLARES	ESP 2005	1:51.39 ADAM RITTER	USA 2013
WOMEN 95-99		4:19.08 BERNARDA ANGULO	ESP 2009	1:52.19 JOE TRISTAN	USA 2000
*****		200 M. BACK		1:52.39 MATEO DE ANGULO	COL 2016
50 M. FREE		5:42.64 MAURINE KORNFELD	USA 2016	1:52.77 MARIO MONTOYA	CRC 2014
1:04.02 MAURINE KORNFELD	USA 2016	6:17.46 RITA SIMONTON	USA 2014	1:52.82 CHRIS KING	RSA 2012
1:07.45 RITA SIMONTON	USA 2013	6:29.99 MIEKO NAGAOKA	JPN 2010	1:53.16 CHRISTIAN HEIN	GER 2007
1:14.38 SHIZUE SHIMIZU	JPN 2006	7:52.01 EDITH HENDRY	USA 2007	1:53.68 EDVALDO SILVA	BRA 2007
1:14.72 MARGO BATES	AUS 2007	8:49.98 BERNARDA ANGULO	ESP 2009	1:53.73 EDUARDO DUARTE	BRA 2016
1:17.53 JULIA DOLCE	USA 2005	11:32.56 ANNE DUNIVIN	USA 2011	1:53.76 MICHAEL KIEDEL	USA 2000
1:19.87 KIKUE ISHII	JPN 2016	50 M. BRST		400 M. FREE	
1:20.84 CLARICE ARTIS	AUS 2013	2:24.40 MIEKO NAGAOKA	JPN 2011	3:58.94 MATEO DE ANGULO	COL 2016
1:22.50 INGEBORG FRITZE	GER 2016	3:02.62 KATH JOHNSTONE	NZL 2014	4:00.98 HONZA VITAZKA	USA 2002
1:23.96 MIEKO NAGAOKA	JPN 2010	3:13.99 MICHIKO HAMURO	JPN 2014	4:01.70 STEVE MELLOR	GBR 2001
1:24.39 AUDREY ETIENNE	USA 2012	4:20.32 ROSA SELLARES	ESP 2005	4:02.79 MARTIN HOHL	SUI 2009
100 M. FREE		100 M. BRST		4:02.95 BART REYEMEN	BEL 1998
2:22.74 MAURINE KORNFELD	USA 2016	8:00.98 MICHIKO HAMURO	JPN 2014	4:03.32 MARIO MONTOYA	CRC 2014
2:23.86 RITA SIMONTON	USA 2013	*****		4:03.63 ALEX KOSTICH	USA 1997
2:56.83 MIEKO NAGAOKA	JPN 2009	WOMEN 100-104		4:05.99 CHIP HOBSON	USA 1994
3:08.43 JULIA DOLCE	USA 2005	*****		4:06.31 EDUARDO DUARTE	BRA 2016
3:09.64 MARGO BATES	AUS 2006	50 M. FREE		4:06.84 JULIO GALOFRE	COL 2016
3:14.18 KIKUE ISHII	JPN 2016	1:41.88 MIEKO NAGAOKA	JPN 2014	800 M. FREE	
3:15.49 AUDREY ETIENNE	USA 2011	2:43.80 ANNE DUNIVIN	USA 2016	8:22.43 ROBERT NUSSLE	GER 2013
3:18.26 LAURA OLIVEIRA	BRA 2014	5:10.84 MARY MAINA	AUS 1994	8:24.67 ALEX KOSTICH	USA 1997
3:32.02 KATH JOHNSTONE	NZL 2014	100 M. FREE		8:27.48 MICHAEL DMITRIEV	GER 2012
4:06.70 MARGE ANDERSON	CAN 1998	3:45.85 MIEKO NAGAOKA	JPN 2014	8:29.22 NICOLAS GRANGER	FRA 1994
200 M. FREE		5:42.81 ANNE DUNIVIN	USA 2016	8:32.92 NEIL TAIT	GBR 1996
5:03.47 MAURINE KORNFELD	USA 2016	6:17.75 MARGO BATES	AUS 2010	8:35.27 ROMAN YUSUPOV	RUS 2016
5:04.08 RITA SIMONTON	USA 2013	200 M. FREE		8:35.91 CHIP HOBSON	USA 1994
6:30.34 MIEKO NAGAOKA	JPN 2009	7:48.76 MIEKO NAGAOKA	JPN 2014	8:36.53 MATTEO MONTANARI	ITA 2016
7:34.27 MARGO BATES	AUS 2005	12:06.09 ANNE DUNIVIN	USA 2016	8:36.83 ALEXANDR SHIMIN	RUS 2015
7:48.08 LAURA OLIVEIRA	BRA 2014	400 M. FREE		8:36.83 JEFF ERWIN	USA 1992
7:59.19 KATH JOHNSTONE	NZL 2014	16:36.80 MIEKO NAGAOKA	JPN 2014	1500 M. FREE	
8:57.26 M.DE FROMONT	FRA 2006	800 M. FREE		16:13.78 RAFAEL CABANILLAS	ESP 2015
9:24.83 BERNARDA ANGULO	ESP 2007	38:04.30 MIEKO NAGAOKA	JPN 2014	16:13.89 ALEX KOSTICH	USA 1997
11:15.91 ANNE DUNIVIN	USA 2012	1500 M. FREE		16:26.06 MARTIN HOHL	SUI 2012
400 M. FREE		74:08.73 MIEKO NAGAOKA	JPN 2014	16:28.63 C.HANSMANN	GER 2002
10:12.49 MAURINE KORNFELD	USA 2016	50 M. BACK		16:28.69 CAMERON REID	USA 1987
10:47.07 RITA SIMONTON	USA 2013	1:33.89 MIEKO NAGAOKA	JPN 2014	16:31.20 JOHN CALNAN	CAN 2006
13:52.13 MIEKO NAGAOKA	JPN 2011	2:52.85 MARGO BATES	AUS 2010	16:32.95 ROBERT NUSSLE	GER 2012
15:43.16 KATH JOHNSTONE	NZL 2014	100 M. BACK		16:36.87 NICKY LANGE	GER 2009
18:16.28 BERNARDA ANGULO	ESP 2007	3:39.81 MIEKO NAGAOKA	JPN 2014	16:38.86 JULIEN BAILLOD	SUI 2009
18:32.26 M.DE FROMONT	FRA 2006	6:36.82 MARGO BATES	AUS 2010	16:39.99 AKIRA OTANI	JPN 2014
22:01.50 ANNE DUNIVIN	USA 2011	200 M. BACK		50 M. BACK	
800 M. FREE		8:05.64 MIEKO NAGAOKA	JPN 2014	25.44 ANTON BUTYMOV	RUS 2016
				26.05 ADAM MANIA	USA 2011



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26.09	YURI COSTA	BRA	2014	24.75	ERIK TOLMACHOFF	USA	2009	1:49.56	DARIAN TOWNSEND	USA	2016
26.12	VITALIY BORISOV	RUS	2015	100 M.	FLY			1:52.13	ADAM RITTER	USA	2015
26.18	HIDEAKI AOKI	JPN	2010	53.09	KOHEI KAWAMOTO	USA	2008	1:53.15	DANIEL KOWALSKI	AUS	2009
26.22	OMAR PINZON	COL	2016	53.41	M. PATTERSON	AUS	2013	1:53.33	JACOB CARSTENSEN	DEN	2010
26.40	TOMOYA FUKUI	JPN	2015	54.00	CARLOS VIVEROS	COL	2016	1:53.46	TAMAS KEREKJARTO	USA	2009
26.44	LEONARDO SUMIDA	BRA	2015	54.07	GLAUBER SILVA	BRA	2015	1:54.18	D.STOCKINGER	AUT	2012
26.58	JUNICHI MIYASHITA	JPN	2009	54.29	MATTHEW BOWE	GBR	2008	1:54.25	YURIY UFIMTSEV	RUS	2014
26.62	JANDER LAZARONI	BRA	2011	54.73	M.BABUCHOWSKI	POL	2012	1:54.33	JOSH DAVIS	USA	2006
100 M.	BACK			54.94	TAKATSUGU OGA	JPN	2014	1:55.20	DIOGO YABE	BRA	2011
55.49	OMAR PINZON	COL	2016	54.95	CARLOS NASCIMENTO	BRA	2009	1:55.26	A.MIGUEL NIZ	POR	2016
55.87	KURT CROSLAND	NZL	2013	55.16	KEI NAKASHIMA	JPN	2009	400 M.	FREE		
56.20	VITALIY BORISOV	RUS	2015	55.34	ANDREY DENISKO	RUS	2015	3:58.12	DARIAN TOWNSEND	USA	2016
56.35	ANTON BUTYMOV	RUS	2016	55.34	DANIEL BELINI	BRA	2009	3:58.42	DANIEL KOWALSKI	AUS	2009
56.80	CHRIS KING	RSA	2012	200 M.	FLY			4:00.33	R.MONASTERIO	VEN	2010
57.00	KEVIN DOAK	USA	2008	2:03.26	SATOSHI TORATANI	JPN	2008	4:01.06	JAN WOLFGARTEN	GER	2012
57.39	HISAYOSHI SATO	JPN	2015	2:04.14	KIMITAKA MINOBE	JPN	2003	4:01.70	JACOB CARSTENSEN	DEN	2012
57.42	IKUMI HASEGAWA	JPN	2009	2:05.26	PHILIPP GILGEN	SUI	2003	4:04.37	THOMAS LURZ	GER	2012
57.45	JON WINTER	NZL	1997	2:05.76	JASON EADDY	USA	2002	4:05.01	ROSTISLAV VITEK	CZE	2009
57.53	LEONARDO SUMIDA	BRA	2015	2:06.28	FREDERICO CASTRO	BRA	2015	4:05.19	CARLOS PAVAO	BRA	2007
200 M.	BACK			2:06.46	ANATOLIY POLYAKOV	RUS	2009	4:05.61	ERIK HOCHSTEIN	USA	2002
1:59.69	OMAR PINZON	COL	2016	2:06.52	ARNAUD RONDAN	FRA	2013	4:07.04	ROWDY GAINES	USA	1994
2:03.62	CHRIS KING	RSA	2012	2:06.53	MARCUS MATTIOLI	ITA	1988	800 M.	FREE		
2:03.80	KAMIL KASPROWICZ	GER	2010	2:07.09	K.GAYDAR	UKR	2012	8:08.68	JAN WOLFGARTEN	GER	2012
2:06.30	ADRIANO NIZ	POR	2015	2:07.14	HONZA VITAZKA	USA	2002	8:10.78	THOMAS LURZ	GER	2012
2:07.57	JOHN KEPPELER	USA	1992	200 M.	I.M.			8:16.52	R.MONASTERIO	VEN	2010
2:08.02	MASAYA KANEKO	JPN	2012	2:04.40	ADAM RITTER	USA	2013	8:18.76	DANIEL KOWALSKI	AUS	2009
2:08.23	NICOLAS GRANGER	FRA	1994	2:05.98	KAMIL KASPROWICZ	GER	2010	8:26.26	CARLOS PAVAO	BRA	2007
2:08.59	HIROSHI NISHIMURA	JPN	2001	2:06.33	HONZA VITAZKA	USA	2002	8:27.41	ROSTISLAV VITEK	CZE	2009
2:08.65	ROBERT HAUCK	USA	1993	2:06.45	YUTA SHOJI	JPN	2009	8:35.16	IGOR PIOVESAN	ITA	2008
2:08.75	JUNICHI MORITA	JPN	2016	2:06.59	TOBIAS ORIWOL	USA	2014	8:35.87	A.STUDZINSKI	GER	2014
50 M.	BRST			2:07.00	NICOLAS GRANGER	FRA	1994	8:39.53	YURI GOTTI	ITA	2016
27.84	IGOR GOLOVIN	RUS	2015	2:07.02	ARNAUD RONDAN	FRA	2013	8:40.19	ROWDY GAINES	USA	1994
27.96	MARK GANGLOFF	USA	2011	2:09.21	CAMERON REID	USA	1987	1500 M.	FREE		
28.04	JORGE MURILLO	COL	2016	2:09.68	A.MIGUEL NIZ	POR	2015	15:25.79	JAN WOLFGARTEN	GER	2012
28.13	A.VLADIMIROV	RUS	2015	2:09.79	IGOR BALDOINO	BRA	2016	16:30.41	ASUKA KOIZUMI	JPN	2009
28.18	OSSI OKSA	FIN	2015	400 M.	I.M.			16:30.57	MARTIN HOHL	SUI	2013
28.29	C.BURCKLE	USA	2013	4:29.28	ARNAUD RONDAN	FRA	2013	16:33.70	IGOR PIOVESAN	ITA	2008
28.33	EDUARDO FISCHER	BRA	2008	4:30.05	DIOGO YABE	BRA	2009	16:34.31	DAVID GENET	FRA	2012
28.43	YURI COSTA	BRA	2014	4:31.47	NICOLAS GRANGER	FRA	1994	16:35.67	SEBASTIAN WIESE	GER	2003
28.44	RYO KOBAYASHI	JPN	2013	4:32.19	HONZA VITAZKA	USA	2002	16:36.06	BOBBY PATEN	USA	1993
28.59	VINCENT DASSIE	FRA	2014	4:32.45	DIRK ZINNOW	GER	2000	16:38.24	JEFF ERWIN	USA	1998
100 M.	BRST			4:32.96	ALEX KOSTICH	USA	1997	16:42.28	RON NEUGENT	USA	1991
59.93	JORGE MURILLO	COL	2016	4:34.08	CAMERON REID	USA	1987	16:42.60	ANDREA MARCATO	ITA	2005
1:02.18	C.BURCKLE	USA	2013	4:41.14	MARCUS MATTIOLI	ITA	1988	50 M.	BACK		
1:02.19	RYO KOBAYASHI	JPN	2013	4:41.97	KOSHIRO IKEYA	JPN	2014	25.97	DARIAN TOWNSEND	USA	2016
1:02.44	GARY MARSHALL	USA	2008	4:42.28	ROMAN YUSUPOV	RUS	2016	26.02	STEFAN HERBST	GER	2011
1:02.65	CHRISTOPHER JONES	GBR	2007	*****				26.42	KEVIN DOAK	USA	2012
1:03.16	A.VLADIMIROV	RUS	2015	M E N 30-34				26.52	D. BLACKBORROW	AUS	2016
1:03.62	V.POLYAKOV	USA	2011	*****				26.54	R.FLOREA	ROM	2010
1:03.68	ROBERT LOVEFACE	USA	2016	*****				26.59	DERYA BUYUKUNCU	USA	2009
1:03.72	MAKOTO YAMASHITA	JPN	2010	50 M.	FREE			26.64	MARTIN HARRIS	GBR	2002
1:03.76	VINCENT DASSIE	FRA	2014	22.13	ROLAND SCHOEMAN	USA	2013	26.68	V.SHIRSHOV	UKR	2011
200 M.	BRST			22.53	SABIR MUHAMMAD	USA	2009	26.77	RODRIGO TRIVINO	BRA	2015
2:11.78	C.BURCKLE	USA	2013	22.80	ROBERT PEEL	USA	1996	26.89	VIKTOR AREFYEV	UKR	2005
2:12.81	JORGE MURILLO	COL	2016	22.91	BRIAN JACOBSON	USA	2005	100 M.	BACK		
2:16.70	GARY MARSHALL	USA	2008	23.12	SERGEY MUKHIN	RUS	2015	55.93	DARIAN TOWNSEND	USA	2014
2:18.17	CHRISTOPHER JONES	GBR	2008	23.12	FRANCISCO PINTO	BRA	2014	56.55	STEFAN HERBST	GER	2011
2:19.73	DAISUKE KIMURA	JPN	2010	23.19	M.BILDOSOLA	ESP	2013	57.24	MARTIN HARRIS	GBR	2000
2:19.96	VINCENT DASSIE	FRA	2014	23.21	ROWDY GAINES	USA	1991	57.46	R.FLOREA	ROM	2010
2:20.07	AHMED BAYOUMY	EGY	2014	23.25	S.KUNZELMANN	GER	2009	57.47	D. BLACKBORROW	AUS	2016
2:20.25	SIMON LEIGHFIELD	AUS	2002	23.27	TODD PACE	USA	1998	57.58	KEVIN DOAK	USA	2012
2:22.05	ANDREA CAVALLETTI	ITA	2013	100 M.	FREE			57.67	ENRICO CATALANO	ITA	2015
2:22.17	JIRI VLCEK	CZE	2009	49.80	DARIAN TOWNSEND	USA	2016	58.04	NAOYUKI WATANABE	JPN	2016
50 M.	FLY			50.34	ADAM RITTER	USA	2015	58.13	ALEXEY ZATSEPIN	RUS	2015
23.58	M. PATTERSON	AUS	2013	50.84	S.KUNZELMANN	GER	2009	58.61	MARCO MACCIANTI	ITA	2014
23.71	KOHEI KAWAMOTO	USA	2008	51.06	ADAM PINE	AUS	2009	200 M.	BACK		
24.01	RYO ISHII	JPN	2015	51.24	P.KUTSCHER	GER	2009	2:02.75	ROGERIO ROMERO	BRA	2000
24.35	SERGEY MUKHIN	RUS	2013	51.32	SERGEY MUKHIN	RUS	2015	2:04.43	R.FLOREA	ROM	2010
24.39	CARLOS VIVEROS	COL	2016	51.34	HIDEAKI HARA	JPN	2008	2:05.62	SEAN MURPHY	USA	1994
24.46	HISAYOSHI SATO	JPN	2015	51.46	STEFAN HERBST	GER	2011	2:06.30	MARTIN HARRIS	GBR	2000
24.65	Y.MURAMATSU	JPN	2015	51.50	ROWDY GAINES	USA	1991	2:06.61	KEITH BEAVERS	CAN	2014
24.67	CARLOS NASCIMENTO	BRA	2009	51.53	JOSE JUNIOR	BRA	2015	2:07.34	A.MIGUEL NIZ	POR	2016
24.72	RUDY TED DE HAAN	NED	2009	200 M.	FREE			2:08.11	MARK VOGEL	DEN	2000



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2:08.21	ROSTISLAV VITEK	CZE	2009	2:04.91	KEITH BEAVERS	CAN	2014	8:39.49	IGOR PIOVESAN	ITA	2009
2:08.53	D. BLACKBORROW	AUS	2016	2:05.52	ISTVAN BATHAZI	USA	2009	8:41.16	DANIEL VERDAGUER	ESP	2006
2:09.47	JEROME FAROUZE	FRA	2006	2:05.60	TAMAS KEREKJARTO	USA	2010	8:41.53	R SEAN JUSTICE	USA	2011
50 M. BRST				2:07.38	JACOB CARSTENSEN	DEN	2010	8:42.82	SAMUELE PAMPANA	ITA	2015
27.97	RYO KOBAYASHI	JPN	2015	2:07.83	ALEXEY ZATSEPIN	RUS	2015	8:43.21	JULIEN BAILLOD	SUI	2015
28.24	SERGEY GEYBEL	RUS	2015	2:07.96	ADAM RITTER	USA	2015	1500 M. FREE			
28.59	CARLOS ALENCAR	BRA	2009	2:07.97	KOSUKE KOJIMA	USA	2009	16:00.04	PETAR STOYCHEV	GER	2012
28.63	OLEG LISOGOR	UKR	2010	2:08.89	NICOLAS GRANGER	FRA	2000	16:32.72	CHRISTOPHER DERKS	USA	2008
28.79	WOLFGANG MAIER	GER	2016	400 M. I.M.				16:36.50	ANDREA MARCATO	ITA	2009
28.86	RYOSUKE IMAI	JPN	2009	4:20.81	DARIAN TOWNSEND	USA	2016	16:37.34	ROWDY GAINES	USA	1995
29.01	JEFF COMMINGS	USA	2006	4:24.11	LUKASZ WOJT	GER	2013	16:38.48	R SEAN JUSTICE	USA	2011
29.04	SERGIY KHILKO	UKR	2016	4:31.36	DIOGO YABE	BRA	2012	16:40.90	IGOR PIOVESAN	ITA	2009
29.11	MIRKO CECCHIN	ITA	2016	4:32.74	KEITH BEAVERS	CAN	2014	16:45.04	MIKE SHAFFER	USA	2002
29.15	DMITRIY BYCHKOV	RUS	2015	4:33.91	THOMAS LURZ	GER	2012	16:50.83	ERIK HOCHSTEIN	USA	2003
29.15	BRIAN JACOBSON	USA	2005	4:35.41	ASUKA KOIZUMI	JPN	2010	16:56.34	JULIEN BAILLOD	SUI	2016
100 M. BRST				4:38.28	JULIEN BAILLOD	SUI	2012	16:59.46	DANIEL VEATCH	USA	2001
1:02.39	RYO KOBAYASHI	JPN	2015	4:38.36	C.SORRENTINO	ITA	2008	50 M. BACK			
1:02.71	ED MOSES	USA	2011	4:38.55	A.BEZUGLIY	USA	2016	26.11	LUBOS KRIZKO	CZE	2016
1:02.90	EDUARDO FISCHER	BRA	2011	4:38.92	ANDREY KRYLOV	RUS	2015	26.99	STEV THELOKE	GER	2013
1:03.16	ADAM RITTER	USA	2015	*****				27.03	EDILSON SILVA	USA	2009
1:03.59	GARY MARSHALL	USA	2013	M E N 35-39				27.11	LEONARDO GOMES	BRA	2009
1:03.67	RYOSUKE IMAI	JPN	2011	*****				27.21	OSAMU ITOI	JPN	2009
1:03.90	WOLFGANG MAIER	GER	2016	50 M. FREE				27.38	KENICHI KANEKO	JPN	2016
1:04.38	TAKAHIRO NETSU	JPN	2015	22.76	MARK FOSTER	GBR	2005	27.42	SIMON THIRSK	RSA	2013
1:04.71	J.VALENCIA	COL	2016	23.19	EDUARD LORENTE	ESP	2014	27.44	ALEKSANDR SHILIN	RUS	2015
1:04.91	JACOB CARSTENSEN	DEN	2010	23.20	ROWDY GAINES	JPN	1994	27.47	VIKTOR AREFIEV	UKR	2012
200 M. BRST				23.28	RYK NEETHLING	RSA	2012	27.49	DIOGO YABE	BRA	2016
2:18.04	GARY MARSHALL	USA	2012	23.28	M.GIALDI	ITA	2004	100 M. BACK			
2:19.67	ED MOSES	USA	2011	23.37	BRIAN JACOBSON	USA	2012	58.48	MARCO MACCIANTI	ITA	2016
2:19.91	BENNO HAW	GER	2016	23.53	SVEN GUSKE	GER	2009	58.86	IOAN GHERGHEL	ROU	2015
2:20.43	NICK GILLINGHAM	GBR	1999	23.59	ALEKSEI MANZHULA	RUS	2015	59.04	STEV THELOKE	GER	2013
2:21.25	HIROYUKI KOSAKA	JPN	2009	23.59	STEFAN VOLERY	SUI	1996	59.18	MICHAEL ROSS	USA	2006
2:21.28	TOMASZ DUSZYNSKI	POL	2008	23.60	FELIPE DELGADO	USA	2009	59.50	OSAMU ITOI	JPN	2009
2:21.43	JACOB CARSTENSEN	DEN	2012	100 M. FREE				59.53	MAURIZIO TERSAR	ITA	2015
2:21.70	ANDREA CAVALLETTI	ITA	2016	50.78	HIDEAKI HARA	JPN	2009	59.65	JEFF COMMINGS	USA	2012
2:22.36	TAKAHIRO MORI	JPN	2012	51.49	ROWDY GAINES	USA	1995	59.91	ERIC ERICSON	USA	2000
2:22.62	KAZUYA KOIKE	JPN	2009	51.98	SVEN LODZIEWSKI	GER	2004	1:00.00	RICK GOULD	USA	2006
50 M. FLY				52.15	RICHARD SAEGER	USA	2001	1:00.07	SIMON THIRSK	RSA	2012
23.26	ROLAND SCHOEMAN	USA	2013	52.22	VLAD PYSHNENKO	USA	2006	200 M. BACK			
23.79	MICHAL SKRODZKI	AUS	2016	52.23	MICHAEL ROSS	USA	2004	2:07.16	RON KARNAUGH	USA	2001
24.41	GLAUBER SILVA	BRA	2016	52.27	TODD ROBINSON	AUS	2009	2:07.97	MARCO MACCIANTI	ITA	2016
24.59	KEVIN DOAK	USA	2012	52.36	TAMAS KEREKJARTO	USA	2015	2:08.66	HIROAKI INOU	JPN	2016
24.61	ADAM PINE	AUS	2009	52.55	CLAUS IVERSON	DEN	2015	2:09.26	DANIEL VEATCH	USA	2000
24.67	STEFANO RAZETO	GER	2016	52.67	RICARDO SALCEDO	ESP	2016	2:09.65	DARRYL FOLLOWS	NZL	2002
24.73	OSWALDO QUEVEDO	USA	2006	200 M. FREE				2:09.67	A.PONTALTI	ITA	2012
24.80	SERGEY MUKHIN	RUS	2015	1:52.84	VLAD PYSHNENKO	USA	2006	2:10.38	NICHOLAS GRANGER	FRA	2002
24.84	DARIAN TOWNSEND	USA	2014	1:54.86	RICHARD SAEGER	USA	2001	2:10.59	RICK GOULD	USA	2006
24.91	GARY HALL	USA	2005	1:55.36	ROWDY GAINES	JPN	1994	2:10.99	MAURIZIO TERSAR	ITA	2015
100 M. FLY				1:55.62	MICHAEL ROSS	USA	2006	2:11.60	TAKAYUKI MIYASAKA	JPN	2012
53.11	ADAM PINE	AUS	2009	1:55.63	IOAN GHERGHEL	ROU	2015	50 M. BRST			
53.65	DARIAN TOWNSEND	USA	2014	1:55.68	JOCHEN BRUHA	GER	2004	28.53	JEFF COMMINGS	USA	2009
54.19	I.GHERGHEL	ROM	2010	1:55.77	CLAUS IVERSON	DEN	2015	28.61	FELIPE SANTOS	BRA	2016
54.83	KEVIN DOAK	USA	2012	1:56.02	RONALD KARNAUGH	USA	2003	28.80	VLADISLAV BRAGIN	RUS	2009
55.01	TAMAS KEREKJARTO	USA	2009	1:56.31	HIDEAKI HARA	JPN	2012	29.09	WALLY DICKS	USA	1998
55.39	HIROKI NAKAZONO	JPN	2009	1:56.45	GUSTAVO HELENO	BRA	2011	29.19	ANDRIY KULYK	UKR	2012
55.67	MATT HAUPT	USA	2010	400 M. FREE				29.21	TIMO NOLTE	GER	2010
55.92	MARIO MARSHALL	USA	2015	4:05.91	PETAR STOYCHEV	GER	2012	29.26	DMITRIY BYCHKOV	RUS	2016
56.23	MARCO MACCIANTI	ITA	2013	4:06.73	GUSTAVO HELENO	BRA	2011	29.40	KRASIMIR ZAHOV	BUL	2014
56.25	RAZVAN PETCU	USA	2004	4:07.64	ROWDY GAINES	USA	1995	29.40	SATORU UMEZAKI	JPN	2014
200 M. FLY				4:09.74	DANIEL VERDAGUER	ESP	2006	29.40	GERALD MORKEN	GER	1996
2:00.33	MIGUEL ALCALDE	ESP	2007	4:10.02	NICOLA NISATO	ITA	2016	100 M. BRST			
2:03.76	MATT HAUPT	USA	2010	4:10.15	CLAUS IVERSEN	DEN	2012	1:03.76	JEFF COMMINGS	USA	2013
2:03.85	BOBBY PATTEN	USA	1995	4:10.31	ERIK HOCHSTEIN	USA	2003	1:04.73	NICK GILLINGHAM	GBR	2004
2:06.79	ASUKA KOIZUMI	JPN	2009	4:10.54	IGOR PIOVESAN	ITA	2009	1:04.91	STEVE WEST	USA	2011
2:06.82	PHILIPPE MEYER	SUI	2005	4:12.44	SAMUELE PAMPANA	ITA	2015	1:04.97	KRASIMIR ZAHOV	BUL	2014
2:06.84	IAN BECK	GBR	1996	4:12.48	CHRIS FYDLER	AUS	2009	1:05.00	WALLY DICKS	USA	2000
2:07.71	JAMES BELARDI	USA	1987	800 M. FREE				1:05.07	ALBERTO MONTINI	ITA	2004
2:08.03	LOIC LEROY	FRA	2012	8:18.44	PETAR STOYCHEV	GER	2012	1:05.38	VLADISLAV BRAGIN	RUS	2010
2:08.06	JULIEN BAILLOD	SUI	2011	8:35.29	GUSTAVO HELENO	BRA	2011	1:05.50	EDUARDO FISCHER	BRA	2016
2:08.25	TAMAS KEREKJARTO	USA	2010	8:38.17	NICOLA NISATO	ITA	2016	1:05.58	ANDREY IVANOV	RUS	2015
200 M. I.M.				8:38.73	ROWDY GAINES	USA	1996	1:05.63	RONALD KARNAUGH	USA	2003
2:02.05	DARIAN TOWNSEND	USA	2016	8:39.37	ANDREA MARCATO	ITA	2009	200 M. BRST			
2:03.54	DIOGO YABE	BRA	2011					2:20.29	NICK GILLINGHAM	GBR	2004



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2:20.34	STEVE WEST	USA	2011	23.86	M.GIALDI	ITA	2008	100 M.	BACK	
2:21.87	RON KARNAUGH	USA	2001	23.88	O.PLANES OSORIO	ESP	2016	59.08	MICHAEL ROSS	USA 2009
2:22.80	KRASIMIR ZAHOV	BUL	2014	24.00	JUAN BENAVIDES	ESP	2016	59.26	MAURIZIO TERSAR	ITA 2016
2:23.03	ANDREY IVANOV	RUS	2015	24.02	ISAMU TSUZUKI	JPN	2015	59.36	SERKAN ATASAY	TUR 2012
2:23.46	STEPHAN PERROT	FRA	2016	24.02	VLADIMIR PREDKIN	RUS	2013	59.81	JEFF COMMINGS	USA 2014
2:24.05	CHRISTOPHER JONES	GBR	2016	24.12	TOMMY RUNDGREN	FIN	2009	1:00.39	OSAMU ITOI	JPN 2014
2:24.26	ALBERTO MONTINI	ITA	2004	24.14	DAVID BOATWRIGHT	USA	2003	1:00.56	CHRIS STEVENSON	USA 2008
2:24.37	DAVID GUTHRIE	USA	1995	100 M.	FREE			1:00.62	EDILSON SILVA	BRA 2010
2:24.42	HIROYUKI KOSAKA	JPN	2011	51.59	HIDEAKI HARA	JPN	2015	1:00.64	RICH SAEGER	USA 2006
50 M.	FLY			51.72	VLAD PYSHNENKO	USA	2010	1:00.67	TREVER GRAY	USA 2016
24.14	KOHEI KAWAMOTO	USA	2015	52.10	ERIK HOCHSTEIN	USA	2009	1:00.83	RENE SAEZ	PUR 2014
24.69	RYK NEETHLING	RSA	2012	52.42	MICHAEL ROSS	USA	2009	200 M.	BACK	
24.75	MARK FOSTER	GBR	2005	52.55	CHRIS FYDLER	AUS	2012	2:10.46	MAURIZIO TERSAR	ITA 2016
25.00	WADE KING	USA	2002	53.19	STEFAN OPATRIL	AUT	2009	2:11.13	FREDERIK HVIID	USA 2014
25.10	LEONARDO GOMES	BRA	2009	53.30	BRIAN JACOBSON	USA	2013	2:12.77	MARK VOGEL	DEN 2010
25.18	GLENN COUNTS	USA	2012	53.31	TOMMY RUNDGREN	FIN	2009	2:12.82	EDUARDO MAROCCO	BRA 2012
25.22	MAKIO ENDO	JPN	2009	53.45	RICH SAEGER	USA	2006	2:13.31	RENE SAEZ	PUR 2014
25.23	EIJI NOMURA	JPN	2010	53.49	O.PLANES OSORIO	ESP	2016	2:13.37	SEAN MURPHY	USA 2006
25.31	JAN KARLSSON	SWE	2005	200 M.	FREE			2:13.48	CHRIS STEVENSON	USA 2008
25.41	DENIS SILANTJEV	UKR	2011	1:53.65	VLAD PYSHNENKO	USA	2010	2:13.87	LARS KALENKA	GER 2016
100 M.	FLY			1:55.06	MICHAEL ROSS	USA	2009	2:14.37	ERIK HOCHSTEIN	USA 2009
55.35	IOAN GHERGHEL	ROU	2015	1:55.06	RICH SAEGER	USA	2006	2:14.61	JOHN ENGS	USA 2006
55.43	TAMAS KEREKJARTO	USA	2015	1:55.70	ERIK HOCHSTEIN	USA	2008	50 M.	BRST	
55.58	DIOGO YABE	BRA	2016	1:58.50	KAI DITZEL	GER	2004	28.84	ALBERTO MONTINI	ITA 2009
55.62	BRENT CREAGER	USA	2015	1:58.60	ROSS DAVIS	USA	2006	29.02	JEFF COMMINGS	USA 2014
55.82	HIDEAKI HARA	JPN	2011	1:58.61	PAUL SMITH	USA	2001	29.16	VLADISLAV BRAGIN	RUS 2012
55.84	EIJI NOMURA	JPN	2009	1:58.66	JOCHEN BRUHA	GER	2009	29.29	STEVE WEST	USA 2016
56.07	MICHAEL ROSS	USA	2004	1:58.66	JEFFREY UTSCH	USA	2008	29.32	SERGEY FIRICHENKO	RUS 2015
56.28	STEPHEN MAVIN	GBR	2012	1:58.74	JURE BUCAR	SLO	2006	29.46	ANDRIY KULYK	NCA 2014
56.39	TYLER JOURDONNAIS	USA	2000	400 M.	FREE			29.53	HIDEAKI TOGO	JPN 2012
56.41	BERNIE ZERUHN	USA	2006	4:06.74	ERIK HOCHSTEIN	USA	2009	29.56	YOZO FUJII	JPN 2009
200 M.	FLY			4:11.55	DENNIS BAKER	USA	2004	29.61	ALAN PESSOTTI	BRA 2014
2:04.76	BRENT CREAGER	USA	2015	4:11.62	GUSTAVO HELENO	BRA	2016	29.81	YASUHIRO KOMORI	JPN 2013
2:05.98	TAMAS KEREKJARTO	USA	2015	4:12.04	SAMUELE PAMPANA	ITA	2016	100 M.	BRST	
2:06.74	JEFF STUART	USA	1996	4:12.99	IGOR PIOVESAN	ITA	2014	1:03.60	VLADISLAV BRAGIN	RUS 2012
2:07.13	BERNIE ZERUHN	USA	2006	4:13.65	MARK THOMPSON	AUS	2009	1:03.76	STEVE WEST	USA 2012
2:08.13	KIMITAKA MINOBE	JPN	2011	4:13.82	JURE BUCAR	SLO	2006	1:05.04	ALBERTO MONTINI	ITA 2009
2:08.51	WILLIAM SPECHT	USA	1994	4:14.37	MICHAEL PRUFERT	GER	2006	1:05.28	JEFF COMMINGS	USA 2014
2:08.65	MIKE SHAFFER	USA	2002	4:14.54	PAUL LEMMON	AUS	2009	1:05.97	RICO ROLLI	ITA 2009
2:09.03	PHILIPPE MEYER	SUI	2006	4:15.57	BRETT PHILLIPS	USA	2001	1:06.15	SERGEY FIRICHENKO	RUS 2014
2:09.10	FRANK WATTLES	USA	2007	800 M.	FREE			1:06.16	YOZO FUJII	JPN 2009
2:09.18	LOIC LEROY	FRA	2015	8:36.41	SAMUELE PAMPANA	ITA	2016	1:06.37	VAL BAGRI	USA 2015
2:09.18	JAMES BELARDI	USA	1992	8:37.81	ALEX KOSTICH	USA	2010	1:06.60	MAKOTO ONODERA	JPN 2009
200 M.	I.M.			8:41.65	JEFF ERWIN	USA	2005	1:06.67	HIDEAKI TOGO	JPN 2012
2:05.64	RONALD KARNAUGH	USA	2003	8:44.89	DANIEL SERRA	ESP	2008	200 M.	BRST	
2:07.24	DIOGO YABE	BRA	2016	8:46.51	MICHAEL KLEIBER	GER	2005	2:18.94	ALBERTO MONTINI	ITA 2009
2:11.23	NICOLAS GRANGER	FRA	2002	8:46.61	MICHAEL PRUFERT	GER	2005	2:19.01	STEVE WEST	USA 2012
2:11.54	ANTONINO TRIPPODO	ITA	2015	8:47.75	FREDERIK HVIID	USA	2014	2:23.09	VLADISLAV BRAGIN	RUS 2012
2:12.03	TAMAS KEREKJARTO	USA	2014	8:48.69	JOSEPH RHYNE	USA	1999	2:24.19	ROQUE SANTOS	USA 2008
2:12.11	JOCHEN HANZ	GER	2015	8:49.38	RYAN COX	USA	2013	2:27.67	VAL BAGRI	USA 2015
2:12.25	R.LOCOCIOLO	ITA	2010	8:51.24	GUSTAVO HELENO	BRA	2016	2:28.25	DAISUKE MIYASAKA	JPN 2015
2:12.37	CLAUS IVERSEN	DEN	2012	1500 M.	FREE			2:28.54	DAVID GUTHRIE	USA 2000
2:13.02	JEROME FRENTSOS	USA	2000	16:36.91	ALEX KOSTICH	USA	2010	2:28.80	MARTIN DE WILDT	NED 2016
2:13.04	HIROYUKI KOSAKA	JPN	2011	16:39.60	JEFF ERWIN	USA	2008	2:29.66	MAKOTO ONODERA	JPN 2010
400 M.	I.M.			16:41.48	SAMUELE PAMPANA	ITA	2016	2:29.77	RON SCHAFFER	USA 1998
4:34.10	RON KARNAUGH	USA	2001	16:45.53	MICHAEL KLEIBER	GER	2003	50 M.	FLY	
4:37.36	DIOGO YABE	BRA	2016	16:45.80	GUSTAVO HELENO	BRA	2016	25.06	EIJI NOMURA	JPN 2015
4:38.50	JULIEN BAILLOD	SUI	2015	16:48.68	TIMOTHY GALLAUDET	USA	2008	25.07	SERKAN ATASAY	TUR 2011
4:42.19	ANTONINO TRIPPODO	ITA	2015	16:51.19	FREDERIK HVIID	USA	2014	25.51	JOHN BATES	AUS 2011
4:42.45	NICOLAS GRANGER	FRA	2002	16:54.95	MICHAEL PRUFERT	GER	2006	25.54	MASATERU IKEDA	JPN 2012
4:43.17	JEROME FRENTSOS	USA	2000	16:55.07	IGOR PIOVESAN	ITA	2014	25.57	MICHAEL ROSS	USA 2009
4:44.98	JOCHEN HANZ	GER	2015	16:55.84	RYAN COX	USA	2013	25.58	MASATO SAKAI	JPN 2015
4:45.47	DEREK GUFFEY	USA	2009	50 M.	BACK			25.63	PETR GREGOR	CZE 2015
4:45.98	SANDRO TOMAS	CRO	2008	27.30	OSAMU ITOI	JPN	2014	25.73	JAN KARLSSON	SWE 2010
4:46.12	ASUKA KOIZUMI	JPN	2014	27.35	SERKAN ATASAY	TUR	2012	25.73	STEVE HILTABIDDLE	USA 2009
				27.38	EDILSON SILVA	BRA	2010	25.82	JAMES ZENYUH	USA 2016
*****				27.47	MICHAEL ROSS	USA	2008	100 M.	FLY	
	M E N 40-44			27.81	ALEXEY KHOVRIN	RUS	2015	56.17	SERKAN ATASAY	TUR 2011
*****				27.84	TAKATOSHI NUMATA	JPN	2015	56.43	MICHAEL ROSS	USA 2008
50 M.	FREE			27.88	CLAY BRITT	USA	2002	56.98	EIJI NOMURA	JPN 2015
23.30	STEPHAN VOLERY	SUI	2001	27.91	MAURIZIO TERSAR	ITA	2016	57.22	MATA SANGUINETTY	VEN 2015
23.31	BRIAN JACOBSON	USA	2014	27.95	CHRIS STEVENSON	USA	2008	57.30	PETR GREGOR	CZE 2015
23.47	LARS FROLANDER	SWE	2015	27.98	TREVER GRAY	USA	2016	57.41	MASATERU IKEDA	JPN 2012



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57.57	PAUL CARTER	USA	2001	2:00.68	EDUARDO MAROCCO	BRA	2013	30.02	MICHAEL HODGSON	GBR	2016
57.62	HENRY CLARK	USA	2005	400 M. FREE				30.06	NICOLAS GRANGER	FRA	2015
57.67	ALBERTO MONTINI	ITA	2009	4:09.20	DENNIS BAKER	USA	2008	30.10	SIPHIWE BALEKA	USA	2016
57.68	HIDEAKI HARA	JPN	2015	4:11.07	KEITH SWITZER	USA	2009	30.11	MAKOTO ONODERA	JPN	2012
200 M. FLY				4:13.86	NICOLAS GRANGER	FRA	2012	30.27	RICHARD SCHROEDER	USA	2006
2:05.55	DENNIS BAKER	USA	2004	4:14.81	MARCUS MATTIOLI	BRA	2006	100 M. BRST			
2:09.47	WILLIAM SPECHT	USA	1998	4:14.92	FABIO CALMASINI	ITA	2014	1:05.30	VLADISLAV BRAGIN	CZE	2016
2:10.20	MIKE SHAFFER	USA	2006	4:16.20	MICHAEL PRUFERT	GER	2009	1:05.95	NICOLAS GRANGER	FRA	2015
2:11.16	TOSHIYUKI IBE	JPN	2010	4:17.21	MARK THOMPSON	AUS	2014	1:06.35	V.PYLYPCHENKO	UKR	2009
2:11.21	EIJI NOMURA	JPN	2012	4:17.73	GREG STREPPPEL	CAN	2014	1:06.67	RICO ROLLI	ITA	2010
2:11.49	ISAMU TSUZUKI	JPN	2014	4:18.78	MICHAEL KLEIBER	GER	2009	1:07.38	DAVID GUTHRIE	USA	2008
2:11.53	JAMES BELARDI	USA	1997	4:18.93	JEFF ERWIN	USA	2009	1:07.65	YOZO FUJII	JPN	2014
2:12.04	ANDREA MARCATO	ITA	2015	800 M. FREE				1:07.71	MAKOTO ONODERA	JPN	2014
2:12.36	UWE VOLK	GER	2012	8:40.79	FABIO CALMASINI	ITA	2015	1:07.74	ALBERTO MONTINI	ITA	2016
2:12.43	HESS YNTEMA	USA	1996	8:42.85	MARCUS MATTIOLI	BRA	2006	1:07.75	HAJIME MORIMOTO	JPN	2014
200 M. I.M.				8:50.06	MICHAEL KLEIBER	GER	2009	1:08.19	MICHAEL HODGSON	GBR	2016
2:10.63	ALBERTO MONTINI	ITA	2009	8:51.98	JEFF ERWIN	USA	2010	200 M. BRST			
2:11.31	ANTONINO TRIPPODO	ITA	2016	8:52.20	MICHAEL PRUFERT	GER	2009	2:24.32	VLADISLAV BRAGIN	CZE	2016
2:12.41	PETER BERMEI	GER	2007	8:57.10	MARK THOMPSON	AUS	2014	2:24.39	ALBERTO MONTINI	ITA	2013
2:12.73	UWE VOLK	GER	2010	8:58.50	RICARDO VALDIVIA	USA	2009	2:24.91	V.PYLYPCHENKO	UKR	2009
2:13.71	JEFF COMMINGS	USA	2016	8:58.84	JIM MCCONICA	USA	1999	2:27.79	DAVID GUTHRIE	USA	2008
2:14.13	ERIK HOCHSTEIN	USA	2009	8:59.81	GREG STREPPPEL	CAN	2014	2:30.67	ABRAHAM SOLANO	ECU	2014
2:14.39	LORENZO BENUCCI	USA	2007	9:00.43	PAUL LEMMON	AUS	2012	2:31.97	MAKOTO ONODERA	JPN	2014
2:15.10	JENS-PETER BERNDT	USA	2004	1500 M. FREE				2:32.03	NICOLAS GRANGER	FRA	2016
2:15.36	BRIAN JACOBSON	USA	2014	16:38.81	JEFF ERWIN	USA	2009	2:33.74	THOMAS LIGL	GER	2006
2:15.53	JAMES SORENSEN	USA	1998	16:57.17	RICARDO VALDIVIA	USA	2009	2:33.97	HAJIME MORIMOTO	JPN	2013
400 M. I.M.				16:58.68	MICHAEL KLEIBER	GER	2009	2:34.10	MICHAEL HODGSON	GBR	2016
4:43.00	UWE VOLK	GER	2012	17:10.90	GEORGE TIDMARSH	USA	2005	50 M. FLY			
4:43.25	ANTONINO TRIPPODO	ITA	2016	17:11.41	MICHAEL PRUFERT	GER	2009	25.65	NICHOLAS DECKER	USA	2012
4:46.90	A.BORGIALLI	ITA	2014	17:12.28	MARCUS MATTIOLI	BRA	2008	25.90	PAUL SMITH	USA	2006
4:47.01	PETER BERMEI	GER	2007	17:16.00	FABIO CALMASINI	ITA	2015	26.03	ANDE RASMUSSEN	USA	2008
4:48.32	ALBERTO MONTINI	ITA	2012	17:23.73	CALUM MCKINLAY	GBR	2009	26.09	JOHN CUNNINGHAM	IRL	2015
4:49.34	DAVID MECA	ESP	2014	17:26.41	GREG STREPPPEL	CAN	2015	26.12	PAUL CARTER	USA	2002
4:49.42	DENNIS BAKER	USA	2005	17:28.77	BOBBY PATTEN	USA	2009	26.23	RICO ROLLI	ITA	2011
4:49.62	DARIUSZ WOLNY	POL	2000	50 M. BACK				26.26	VLADIMIR PREDKIN	RUS	2014
4:50.74	GUNTER GOTTFRIED	GER	2000	28.05	STEVE WOOD	USA	2008	26.34	JOHN BATES	AUS	2015
4:50.95	DAVID WARREN	GBR	2012	28.14	ANDE RASMUSSEN	USA	2008	26.35	WADE KING	USA	2012
*****				28.25	FRITZ BEDFORD	USA	2011	26.38	TODD DREITZLER	USA	2015
M E N 45-49				28.32	J CLAY BRITT	USA	2008	26.38	STEVE HILTABIDDLE	USA	2011
*****				28.44	CHRIS STEVENSON	USA	2009	100 M. FLY			
50 M. FREE				28.47	NICOLAS GRANGER	FRA	2015	56.42	PAUL CARTER	USA	2002
23.98	VLADIMIR PREDKIN	RUS	2014	28.59	EDILSON JUNIOR	BRA	2015	57.60	PAUL SMITH	USA	2008
24.26	BRENT BARNES	JPN	2004	28.60	EDUARDO MAROCCO	BRA	2014	58.25	NICOLAS GRANGER	FRA	2016
24.29	PAUL SMITH	USA	2006	28.76	MIKE SELF	USA	2016	58.47	C.LUTOTOVICH	ARG	2009
24.34	M.GIALDI	ITA	2013	28.77	JAY YARID	USA	2008	58.97	NICHOLAS DECKER	USA	2012
24.40	STEVE WOOD	USA	2008	100 M. BACK				59.10	CHRIS STEVENSON	USA	2009
24.50	ANDREA NICOLAO	ITA	2009	1:00.13	STEVE WOOD	USA	2008	59.20	DENNIS BAKER	USA	2009
24.50	ANDE RASMUSSEN	USA	2008	1:00.55	CHRIS STEVENSON	USA	2009	59.38	WILLIAM SPECHT	USA	2003
24.63	SIPHIWE BALEKA	USA	2016	1:01.12	EDUARDO MAROCCO	BRA	2014	59.40	ANDERS RASMUSSEN	USA	2009
24.63	RICO ROLLI	ITA	2010	1:01.40	EDICK GOULD	USA	2015	59.60	ALBERTO MONTINI	ITA	2013
24.68	TOMMY RUNDGREN	FIN	2016	1:01.71	NICOLAS GRANGER	FRA	2012	200 M. FLY			
100 M. FREE				1:01.94	GREG KAHN	GBR	2016	2:04.07	DENNIS BAKER	USA	2008
53.77	NICOLAS GRANGER	USA	2016	1:02.07	J CLAY BRITT	USA	2006	2:08.34	MARCUS MATTIOLI	BRA	2006
53.77	MARCO COLOMBO	ITA	2005	1:02.22	RICH SAEGER	USA	2012	2:10.97	PAUL CARTER	USA	2002
53.90	JACK GROSELLE	USA	1999	1:02.43	DEREK BOTSFORD	CAN	2014	2:11.02	WILLIAM SPECHT	USA	2003
54.08	MARK THOMPSON	AUS	2016	1:02.44	HIROYOSHI MAETOGE	JPN	2012	2:13.45	TOSHIYUKI IBE	JPN	2015
54.10	MATTHEW BIONDI	USA	2014	200 M. BACK				2:13.69	M.CACCIAMANI	ITA	2011
54.15	PAUL SMITH	USA	2008	2:11.56	EDUARDO MAROCCO	BRA	2013	2:13.93	MIKE SHAFFER	USA	2014
54.22	JAMES MONTGOMERY	USA	2002	2:13.37	RICH SAEGER	USA	2012	2:14.96	JIM BELARDI	USA	2002
54.39	VLADIMIR PREDKIN	RUS	2014	2:14.32	NICOLAS GRANGER	FRA	2015	2:15.24	A.LAVEGLIA	ITA	2012
54.43	SIPHIWE BALEKA	USA	2016	2:15.83	CHRIS STEVENSON	USA	2011	2:15.72	FABIO CALMASINI	ITA	2014
54.62	M.GIALDI	ITA	2013	2:16.06	PAUL LEMMON	AUS	2012	200 M. I.M.			
200 M. FREE				2:16.78	TAIHEI SAKA	JPN	2009	2:10.09	NICOLAS GRANGER	USA	2016
1:57.75	NICOLAS GRANGER	FRA	2014	2:17.13	MARK VOGEL	DEN	2015	2:14.90	JEROME FRENTSOS	USA	2010
1:57.89	KEITH SWITZER	USA	2009	2:17.37	KURT DICKSON	USA	2013	2:14.94	DAVID WARREN	GBR	2016
1:59.34	DENNIS BAKER	USA	2009	2:17.40	MICHAEL SODERLUND	USA	2010	2:15.07	ALBERTO MONTINI	ITA	2014
1:59.37	KAI DITZEL	GER	2008	2:17.51	LUCA VIGNERI	ITA	2016	2:16.12	DENNIS BAKER	USA	2006
1:59.56	MARCUS MATTIOLI	BRA	2006	50 M. BRST				2:16.21	SERGEY MARINIUK	USA	2014
1:59.60	MARCO COLOMBO	ITA	2007	29.63	RICO ROLLI	ITA	2011	2:16.32	TAIHEI SAKA	JPN	2009
2:00.09	FABIO CALMASINI	ITA	2014	29.70	V.ZAGREBENKO	RUS	2009	2:16.83	LORENZO BENUCCI	USA	2014
2:00.44	MARK THOMPSON	AUS	2016	29.78	VLADISLAV BRAGIN	CZE	2016	2:17.04	PAUL LEMMON	AUS	2012
2:00.44	PAUL SMITH	USA	2006	29.90	JENS LUTSCHIN	GER	2009	2:17.21	VLASSENKO ALEXEI	RUS	2010
				29.96	YOZO FUJII	JPN	2014	400 M. I.M.			



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4:43.83	NICOLAS GRANGER	FRA	2014	17:40.70	MARK DRENNEN	USA	2006	2:39.08	RICK COLELLA	USA	2001
4:47.65	JEROME FRENTSOS	USA	2010	17:44.07	ARNALDO PEREZ	PUR	2015	50 M. FLY			
4:48.36	ALBERTO MONTINI	ITA	2014	17:51.93	J.CARLOS FREITAS	POR	2015	25.88	PAUL CARTER	USA	2008
4:50.27	MARCUS MATTIOLI	BRA	2008	17:52.24	LORENZO MARUGO	ITA	2004	26.12	STEVE HILTABIDDLE	USA	2016
4:50.73	DENNIS BAKER	USA	2006	17:59.45	MICHAEL PRUFERT	GER	2014	26.23	TRIP HEDRICK	USA	2004
4:55.26	SERGEY MARINIUK	USA	2014	18:00.23	TONY ANDERSON	USA	2016	26.56	PAUL SMITH	USA	2009
4:55.65	FABIO CALMASINI	ITA	2014	18:00.54	FRANCIS CHRISTIAN	AUS	2007	26.80	RAMON VOLCAN	VEN	2009
4:55.83	TAIHEI SAKA	JPN	2010	50 M. BACK				26.83	RICK ABBOTT	USA	2008
4:56.57	GREG STREPPPEL	CAN	2014	28.02	MARCUS MATTIOLI	BRA	2013	26.89	FRITZ BEDFORD	USA	2014
4:56.92	PAUL LEMMON	AUS	2012	28.60	STEVE WOOD	USA	2011	27.02	STEVEN UNRUH	USA	2016
*****				28.77	CLAY BRITT	USA	2014	27.04	ANDERS RASMUSSEN	USA	2013
M E N 50-54				28.84	FRITZ BEDFORD	USA	2014	27.08	CALVIN MAUGHAN	RSA	2015
*****				29.02	CRAIG NORREY	SUI	2014	100 M. FLY			
50 M. FREE				29.16	HIROYOSHI MAETOGE	JPN	2015	57.23	PAUL CARTER	USA	2008
24.08	BRENT BARNES	JPN	2009	29.39	BRYAN JENNINGS	USA	2013	59.49	TRIP HEDRICK	USA	2004
24.34	CALVIN MAUGHAN	RSA	2015	29.43	JAMIE FOWLER	USA	2009	59.67	HUGO BREGMAN	NED	2009
24.58	ROWDY GAINES	USA	2009	29.51	MINAKOV VALERIJS	LAT	2010	59.87	MARCUS MATTIOLI	BRA	2010
24.60	RICHARD ABRAHAMS	USA	1998	29.54	ANDERS RASMUSSEN	USA	2013	1:00.11	STEVE HILTABIDDLE	USA	2016
24.88	RICK ABBOTT	USA	2008	100 M. BACK				1:00.55	WILLIAM SPECHT	USA	2009
24.89	JACK GROSELLE	USA	2004	1:01.89	STEVE WOOD	USA	2011	1:00.66	MAURO CAPPELLETTI	ITA	2015
24.94	TRIP HEDRICK	USA	2006	1:02.77	CLAY BRITT	USA	2014	1:00.82	ANDREA TOJA	ITA	2016
25.03	GARY SCHATZ	USA	2005	1:02.93	JAMIE FOWLER	USA	2009	1:00.87	STEVEN UNRUH	USA	2016
25.17	STEVE HILTABIDDLE	USA	2016	1:03.44	MINAKOV VALERIJS	LAT	2010	1:01.20	MIKE SHAFFER	USA	2015
25.17	RICO ROLLI	ITA	2016	1:03.48	HIROYOSHI MAETOGE	JPN	2015	200 M. FLY			
100 M. FREE				1:03.50	FRITZ BEDFORD	USA	2014	2:13.39	MARCUS MATTIOLI	BRA	2010
54.36	CALVIN MAUGHAN	RSA	2015	1:03.71	CHRIS STEVENSON	USA	2014	2:13.80	DENNIS BAKER	USA	2011
54.61	ROWDY GAINES	JPN	2011	1:03.83	MICHAEL SODERLUND	USA	2012	2:14.63	MAURO CAPPELLETTI	ITA	2015
54.93	JACK GROSELLE	USA	2004	1:03.92	BRYAN JENNINGS	USA	2013	2:15.06	HUGO BREGMAN	NED	2009
54.94	BOB BUGG	USA	2009	1:04.58	ANDERS RASMUSSEN	USA	2013	2:16.38	MIKE SHAFFER	USA	2015
55.11	DAN STEPHENSON	USA	2007	200 M. BACK				2:17.83	DAVID SIMS	USA	2016
55.13	RICK ABBOTT	USA	2008	2:17.57	MICHAEL SODERLUND	USA	2012	2:18.57	PAUL CARTER	USA	2008
55.38	TRIP HEDRICK	USA	2006	2:17.74	JAMIE FOWLER	USA	2009	2:19.16	FRANCIS CHRISTIAN	AUS	2008
55.42	PAUL SMITH	USA	2009	2:20.04	MATTHEW NANCE	USA	2015	2:19.35	JOSEPH RHYNE	USA	2009
55.49	STEVE WOOD	USA	2012	2:20.51	TOM WOLF	USA	2004	2:20.46	WILLIAM SPECHT	USA	2009
55.68	AHMET NAKKAS	TUR	2015	2:20.53	BRYAN JENNINGS	USA	2013	200 M. I.M.			
200 M. FREE				2:21.11	LEN GUSHE	CAN	2013	2:18.05	JAMIE FOWLER	USA	2009
2:00.34	DAN STEPHENSON	USA	2007	2:21.78	ERWIN KRATZ	USA	2015	2:19.45	DARREN PHELAN	USA	2013
2:01.40	BOB BUGG	USA	2009	2:21.85	DJAN MADRUGA	BRA	2010	2:19.79	MARCUS MATTIOLI	BRA	2010
2:02.14	MARCUS MATTIOLI	BRA	2012	2:22.02	JIM TUCHLER	USA	2015	2:20.02	MICHAEL MANN	USA	2008
2:02.16	KEITH SWITZER	USA	2013	2:22.26	SCOTT SHAKE	USA	2009	2:20.48	JEROME FRENTSOS	USA	2015
2:02.50	JIM MCCONICA	USA	2000	50 M. BRST				2:20.60	TAIHEI SAKA	JPN	2015
2:03.31	RICH SAEGER	USA	2015	30.48	DAVID GUTHRIE	USA	2013	2:20.99	KEN SHILLING	USA	2008
2:03.51	ROWDY GAINES	JPN	2010	30.88	RICHARD SCHROEDER	USA	2012	2:21.53	GIAN LUCA SONDALI	ITA	2016
2:03.66	JACK GROSELLE	USA	2004	30.92	RICO ROLLI	ITA	2016	2:21.77	DENNIS BAKER	USA	2013
2:03.95	MICHAEL SODERLUND	USA	2012	30.93	S.TAKAHASHI	JPN	2015	2:22.41	ANDERS RASMUSSEN	USA	2013
2:04.34	DANIEL MACHEK	CZE	2009	30.97	OLIVIER BORIOS	FRA	2009	400 M. I.M.			
400 M. FREE				30.97	GARY PATTERSON	USA	2009	4:53.69	MARCUS MATTIOLI	BRA	2010
4:16.61	DAN STEPHENSON	USA	2007	31.13	JENS LUTSCHIN	GER	2016	4:56.71	RICARDO VALDIVIA	USA	2014
4:18.03	RICARDO VALDIVIA	USA	2014	31.37	DOUG MALCOLM	USA	2007	4:57.93	DARREN PHELAN	USA	2013
4:19.05	MARCUS MATTIOLI	BRA	2014	31.49	STUART MOFFATT	AUS	2013	5:02.51	DENNIS BAKER	USA	2013
4:19.47	JIM MCCONICA	USA	2000	31.50	TOMAS VAVERKA	CZE	2016	5:03.27	LORENZO MARUGO	ITA	2004
4:20.71	BOB BUGG	USA	2009	31.50	GLEN CHRISTIANSEN	SWE	2009	5:03.76	DJAN MADRUGA	BRA	2010
4:22.79	JOSEPH RHYNE	USA	2009	100 M. BRST				5:04.32	JAMIE FOWLER	USA	2009
4:24.31	DANIEL MACHEK	CZE	2009	1:06.98	DAVID GUTHRIE	USA	2014	5:05.82	RICK COLELLA	USA	2001
4:24.41	FRANCIS CHRISTIAN	AUS	2008	1:09.23	RICHARD SCHROEDER	USA	2012	5:06.27	IGNACIO JIMENEZ	USA	2015
4:24.57	DARREN PHELAN	USA	2013	1:09.36	GARY PATTERSON	USA	2009	5:06.60	HUGO BREGMAN	NED	2009
4:25.98	STEVEN UNRUH	USA	2016	1:09.57	JIM TUCHLER	USA	2015	*****			
800 M. FREE				1:09.85	S.TAKAHASHI	JPN	2015	M E N 55-59			
8:55.05	MARCUS MATTIOLI	BRA	2010	1:10.08	V.PYLYPCHENKO	UKR	2014	*****			
8:56.31	RICARDO VALDIVIA	USA	2014	1:10.09	GLEN CHRISTIANSEN	SWE	2009	50 M. FREE			
9:00.39	KEITH SWITZER	USA	2013	1:10.94	C.COENEY	USA	2016	24.45	BRENT BARNES	JPN	2015
9:03.84	JIM MC CONICA	USA	2001	1:11.45	ANDREA FLORIT	ITA	2010	25.01	JACK GROSELLE	USA	2009
9:06.61	DAN STEPHENSON	USA	2007	1:11.49	JACK GROSELLE	USA	2004	25.31	MIKE TENNANT	USA	2008
9:11.16	MICHAEL KLEIBER	GER	2013	200 M. BRST				25.51	STEVE WOOD	USA	2016
9:11.84	BOB BUGG	USA	2009	2:27.91	DAVID GUTHRIE	USA	2013	25.53	RICHARD ABRAHAMS	USA	2002
9:13.23	DANIEL MACHEK	CZE	2009	2:33.54	V.PYLYPCHENKO	UKR	2014	25.59	DOUG MARTIN	USA	2009
9:13.36	ARNALDO PEREZ	PUR	2014	2:34.62	JIM TUCHLER	USA	2015	25.74	PAUL TREVISAN	USA	2006
9:13.39	JOSEPH RHYNE	USA	2009	2:34.70	TIMUR PODMAREV	RUS	2007	25.87	DAVID BOATWRIGHT	USA	2016
1500 M. FREE				2:35.08	LORENZO MARUGO	ITA	2004	25.97	MARCO COLOMBO	ITA	2016
17:08.33	JIM MCCONICA	USA	2000	2:37.20	C.COENEY	USA	2014	25.97	ALEXEY MARKOVSKIY	RUS	2016
17:33.87	MICHAEL KLEIBER	GER	2014	2:37.62	SHUJI YAMAZAKI	JPN	2016	100 M. FREE			
17:34.04	MARCUS MATTIOLI	BRA	2011	2:37.77	DAVE MILBURN	GBR	2012	56.08	JACK GROSELLE	USA	2009
				2:38.33	VITALIY SYVOLAP	UKR	2016				



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56.51	L.GOMEZ-GUILLAMON	ESP	2016	1:07.81	HUGH WILDER	USA	2002	2:25.52	JIM SAUER	USA	2014
56.91	STEVE WOOD	USA	2016	1:07.84	A.BONANNI	ITA	2016	2:26.37	SCOTT LAUTMAN	USA	2008
57.08	MICHAEL MANN	USA	2009	200	M. BACK			2:26.76	PAUL BLACKBEARD	AUS	2013
57.48	DAVID BOATWRIGHT	USA	2016	2:22.68	CRAIG PETERSEN	USA	2015	2:27.22	JOHN MARCH	AUS	2008
57.60	BRAD HORNER	USA	2009	2:23.84	TOM BARTON	USA	2011	2:27.59	FRANCIS CHRISTIAN	AUS	2012
57.76	BOB BUGG	USA	2012	2:25.89	JIM MC CONICA	USA	2005	2:28.62	JIM MC CONICA	USA	2006
57.77	DAN STEPHENSON	USA	2014	2:26.58	JIM SAUER	USA	2014	200	M. I.M.		
57.83	CHARLES LEMAISTRE	USA	2009	2:27.27	A.BONANNI	ITA	2016	2:20.83	MICHAEL MANN	USA	2009
57.85	ALEXANDER MILLS	NOR	2006	2:27.32	STEVE WOOD	USA	2016	2:22.50	JIM SAUER	USA	2014
200	M. FREE			2:27.49	FRED FERROGGIARO	USA	2008	2:24.12	RICK COLELLA	USA	2008
2:04.01	MICHAEL MANN	USA	2009	2:27.99	SCOTT SHAKE	USA	2013	2:24.16	TIMOTHY SHEAD	RSA	2008
2:04.02	MARCUS MATTIOLI	BRA	2015	2:28.85	WIESLAW MUSIAL	CAN	2012	2:24.65	MARCUS MATTIOLI	BRA	2015
2:05.82	JACK GROSELLE	USA	2009	2:28.93	VLADIMIR GORKOV	RUS	2016	2:25.49	HUGO BREGMAN	NED	2013
2:05.88	DAVID BOATWRIGHT	USA	2016	50	M. BRST			2:26.93	ANDREY KOMISSAROV	USA	2015
2:06.26	DAN STEPHENSON	USA	2012	30.65	DAVID GUTHRIE	USA	2016	2:26.99	STEVE WOOD	USA	2016
2:08.03	JIM MC CONICA	USA	2005	31.05	WALTER KUSCH	GER	2009	2:27.18	PAUL CARTER	USA	2012
2:08.40	BOB BUGG	USA	2012	31.96	S.TAKAHASHI	JPN	2016	2:27.46	SERGEY MOLODIN	RUS	2015
2:08.59	PAUL BLACKBEARD	AUS	2013	32.07	TIMOTHY SHEAD	RSA	2008	400	M. I.M.		
2:08.65	JAMES RITTER	USA	2013	32.23	GLEN CHRISTIANSEN	SWE	2012	5:01.81	MARCUS MATTIOLI	BRA	2015
2:08.67	BRAD HORNER	USA	2009	32.43	LARRY GOLDEN	USA	2015	5:04.07	MICHAEL MANN	USA	2009
400	M. FREE			32.44	JACK GROSELLE	USA	2009	5:07.81	JIM SAUER	USA	2014
4:22.49	MICHAEL MANN	USA	2009	32.59	OLIVIER BORIOS	FRA	2016	5:17.10	JIM MC CONICA	USA	2005
4:25.34	JIM MC CONICA	USA	2005	32.68	J.KOCHENDORFER	USA	2015	5:19.49	DJAN MADRUGA	BRA	2014
4:25.65	MARCUS MATTIOLI	BRA	2015	32.72	STUART ELLICOTT	AUS	2009	5:22.27	HUGO BREGMAN	NED	2015
4:32.87	DAN STEPHENSON	USA	2012	100	M. BRST			5:24.00	SERGEY MOLODIN	RUS	2015
4:33.42	STEVE PRESCOTT	NZL	2009	1:07.97	DAVID GUTHRIE	USA	2015	5:26.08	ANDREAS SEIBT	USA	2013
4:36.39	PAUL BLACKBEARD	AUS	2016	1:11.13	TIMOTHY SHEAD	RSA	2008	5:26.63	JOHN CALVERT	USA	2000
4:36.62	DAVID BOATWRIGHT	USA	2016	1:12.15	TIMUR PODMARYOV	RUS	2015	5:26.70	DAN STEPHENSON	USA	2012
4:36.73	CRAIG PETERSEN	USA	2015	1:12.64	THOMAS LIGL	GER	2016	*****			
4:37.94	J.CHATARD	FRA	2006	1:12.85	WALTER KUSCH	GER	2009	M E N 60-64			
4:38.19	BOB BUGG	USA	2012	1:12.87	G.HOFFMANN	USA	2011	*****			
800	M. FREE			1:13.11	JACK GROSELLE	USA	2009	50	M. FREE		
9:00.09	MICHAEL MANN	USA	2009	1:13.42	GLEN CHRISTIANSEN	SWE	2012	25.23	RICHARD ABRAHAMS	USA	2006
9:06.86	JIM MCCONICA	USA	2006	1:13.69	GREG SCOTT	USA	2015	25.63	DOUG MARTIN	USA	2015
9:22.02	STEVE PRESCOTT	NZL	2009	1:13.96	SERGEY PAKHOMOV	RUS	2016	25.85	VINCENZO DE SIO	ITA	2008
9:32.37	DAN STEPHENSON	USA	2013	200	M. BRST			26.31	ANDRE STEYNBERG	RSA	2016
9:35.87	TODD BRYAN	USA	2006	2:30.63	DAVID GUTHRIE	USA	2016	26.35	JACK GROSELLE	USA	2014
9:37.39	CRAIG PETERSEN	USA	2015	2:38.66	RICK COLELLA	USA	2008	26.35	PAUL TREVISAN	USA	2013
9:37.49	J.CHATARD	FRA	2006	2:39.28	TIMUR PODMARYOV	RUS	2012	26.70	JEFF FARRELL	USA	1998
9:38.27	PAUL BLACKBEARD	AUS	2016	2:41.54	TIMOTHY SHEAD	RSA	2008	26.75	MARC MIDDLETON	USA	2012
9:38.61	SCOTT SHAKE	USA	2013	2:42.40	PATRICK ALLENDER	USA	2013	26.78	LEONARD BIELICZ	SWE	2012
9:39.03	MARTEN DE GROOT	NED	2014	2:42.88	G.HOFFMANN	USA	2011	26.88	BRUCE WILLIAMS	USA	2015
1500	M. FREE			2:43.47	THOMAS LIGL	GER	2016	100	M. FREE		
17:22.61	MICHAEL MANN	USA	2009	2:43.68	GLEN CHRISTIANSEN	SWE	2012	57.79	JACK GROSELLE	USA	2014
17:40.10	JIM MC CONICA	USA	2005	2:44.03	ANDREY KOMISSAROV	USA	2016	58.21	JAMES RITTER	USA	2016
18:19.49	STEVE PRESCOTT	NZL	2009	2:44.22	RALPH SCHALLON	SUI	2009	58.61	RICHARD ABRAHAMS	USA	2005
18:21.59	MARC JOUANDON	FRA	2012	50	M. FLY			59.04	RICK COLELLA	USA	2014
18:27.25	SCOTT SHAKE	USA	2013	26.86	GARY HALL	USA	2009	59.57	DOUG MARTIN	USA	2014
18:31.80	BRUCE THOMAS	USA	2015	27.08	GREG SHAW	USA	2007	59.60	BRUCE WILLIAMS	USA	2014
18:33.99	GLENN CARLSEN	CAN	2013	27.26	DAN THOMPSON	CAN	2014	59.66	TRIP HEDRICK	USA	2014
18:34.42	DAVID BOATWRIGHT	USA	2016	27.31	STEVE WOOD	USA	2016	59.66	JAMES DE LACY	USA	2006
18:35.85	J.CHATARD	FRA	2006	27.31	PAUL CARTER	USA	2012	59.76	ANDRE STEYNBERG	RSA	2016
18:40.63	PAUL BLACKBEARD	AUS	2014	27.43	RICHARD ABRAHAMS	USA	2002	1:00.11	JOHN FIELDS	USA	2016
50	M. BACK			27.47	HUGO BREGMAN	NED	2013	1:00.11	JEFF FARRELL	USA	1998
29.01	CARLOS SILVA	BRA	2013	27.49	DAVID HAGUE	USA	2009	200	M. FREE		
29.03	STEVE WOOD	USA	2016	27.52	BRUCE KONE	USA	2015	2:09.08	JAMES RITTER	USA	2016
30.01	TOM BARTON	USA	2011	27.62	LARRY GOLDEN	USA	2015	2:09.24	JACK GROSELLE	USA	2014
30.02	CRAIG NORREY	SUI	2016	100	M. FLY			2:12.32	JOHN FIELDS	USA	2016
30.06	GLENN PATCHING	USA	2015	1:00.56	PAUL CARTER	USA	2012	2:12.57	JIM MC CONICA	USA	2010
30.09	GARY HALL	USA	2009	1:01.05	GREG SHAW	USA	2006	2:12.69	FRED SCHLICHER	USA	2008
30.21	MARCO COLOMBO	ITA	2016	1:01.29	HUGO BREGMAN	NED	2013	2:13.32	JAMES DE LACY	USA	2006
30.48	ANDRE STEYNBERG	RSA	2012	1:01.31	MARCUS MATTIOLI	BRA	2015	2:13.94	GRAHAM CROFT	AUS	2008
30.56	VLADIMIR OSIPOV	UKR	2013	1:01.83	BRAD HORNER	USA	2009	2:14.52	LARRY KRAUSER	USA	2013
30.78	HUGH WILDER	USA	2004	1:01.97	DAN THOMPSON	CAN	2014	2:15.06	ALESSANDRO MARCO	ITA	2016
100	M. BACK			1:02.23	STEVE WOOD	USA	2016	2:15.35	DUNCAN MCCREADIE	FRA	2006
1:03.50	STEVE WOOD	USA	2015	1:03.03	JIM SAUER	USA	2014	400	M. FREE		
1:05.46	TOM BARTON	USA	2011	1:03.24	LEONARD BIELICZ	SWE	2006	4:40.00	JIM MC CONICA	USA	2012
1:06.14	GARY HALL	USA	2009	1:03.33	BOB BUGG	USA	2012	4:42.94	JACK GROSELLE	USA	2014
1:06.47	GLENN PATCHING	USA	2016	200	M. FLY			4:43.37	ALESSANDRO MARCO	ITA	2016
1:07.03	CRAIG NORREY	SUI	2016	2:16.78	MARCUS MATTIOLI	BRA	2015	4:45.21	JAMES RITTER	USA	2016
1:07.27	JONATHAN KLEIN	USA	2014	2:18.97	BRAD HORNER	USA	2009	4:46.04	SERGE GUERIN	FRA	2016
1:07.29	TIMOTHY SHEAD	RSA	2008	2:19.18	HUGO BREGMAN	NED	2013	4:48.25	GRAHAM CROFT	AUS	2008
1:07.77	RASTISLAV PAVLIK	SVK	2015	2:25.35	GREG SHAW	USA	2006				

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32.19	RICHARD BURNS	USA	2009	30.47	ROBERT WRIGHT	USA	2015	200 M. FREE			
33.04	MARC MIDDLETON	USA	2016	30.49	LEE CHILDS	USA	2013	2:24.41	DAVID QUIGGIN	USA	2014
33.44	TAKEO HIRAMOTO	JPN	2016	100 M. FLY				2:25.42	CHRIS DUNN	GBR	2016
33.50	BERND HORSTMANN	GER	2008	1:06.53	LAWRENCE DAY	USA	2016	2:26.20	DAVID RADCLIFF	USA	2008
33.54	YOSHI OYAKAWA	USA	1999	1:07.34	RICHARD ABRAHAMS	USA	2010	2:27.83	RICHARD BURNS	USA	2013
33.58	VINUS VAN BAALLEN	USA	2007	1:07.78	JOSEP CLARET	ESP	2009	2:28.37	CAV CAVANAUGH	USA	2005
33.72	JOZSEF CSIKANY	HUN	2008	1:09.60	ROBERT POILETMAN	USA	2009	2:28.42	TOM LANDIS	USA	2012
33.87	ROBERT SMITH	USA	2008	1:09.98	FRED BAIRD	USA	2013	2:29.15	KEEFE LODWIG	USA	2013
33.98	JOSE LORO	BRA	2015	1:10.03	RICK COLELLA	USA	2016	2:29.45	GRAHAM JOHNSTON	USA	2001
100 M. BACK				1:10.12	TAKEO HIRAMOTO	JPN	2015	2:30.11	KARL-LUDWIG REHN	GER	2010
1:09.79	HUGH WILDER	USA	2012	1:10.22	BORIS RUZHITSKIY	RUS	2009	2:31.54	AKIRA FUJIMAKI	JPN	2015
1:11.32	RICHARD BURNS	USA	2009	1:10.44	LEONARD BIELICZ	SWE	2016	400 M. FREE			
1:13.82	BERND HORSTMANN	GER	2009	1:10.80	DEREK PARR	GBR	2009	5:11.68	CHRIS DUNN	GBR	2016
1:14.96	JOZSEF CSIKANY	HUN	2009	200 M. FLY				5:12.05	GRAHAM JOHNSTON	USA	2001
1:15.69	LUIZ FIGUEIREDO	BRA	2006	2:33.40	LAWRENCE DAY	USA	2016	5:17.20	DAVID RADCLIFF	USA	2008
1:15.74	JOSE LORO	BRA	2015	2:41.92	TAKEO HIRAMOTO	JPN	2015	5:19.29	DAVID QUIGGIN	USA	2015
1:16.76	DIETER SEIFERT	GER	2013	2:47.60	DEREK PARR	GBR	2009	5:21.27	TOM LANDIS	USA	2012
1:16.78	YOSHI OYAKAWA	USA	1999	2:49.73	JOEL WILSON	USA	2015	5:24.85	JOHN CRISP	AUS	2006
1:17.23	BARRY YOUNG	NZL	2006	2:50.18	ROBERT POILETMAN	USA	2009	5:25.70	WERNER SCHNABEL	GER	2006
1:17.34	CLAUDIO TOMASI	ITA	2016	2:50.38	HUBIE KERNS	USA	2014	5:26.46	KEEFE LODWIG	USA	2013
200 M. BACK				2:51.07	BARRY YOUNG	NZL	2004	5:28.64	BURWELL JONES	USA	2005
2:40.95	BERND HORSTMANN	GER	2008	2:51.83	J.LESTIDEAU	FRA	2012	5:29.04	BARRY YOUNG	NZL	2009
2:41.76	RICHARD BURNS	USA	2009	2:52.19	FRED BAIRD	USA	2013	800 M. FREE			
2:42.96	JOZSEF CSIKANY	HUN	2008	2:54.46	RUDOLF SMERDA	CZE	2008	10:45.92	GRAHAM JOHNSTON	USA	2002
2:44.37	HUGH WILDER	USA	2012	200 M. I.M.				10:49.02	DAVID RADCLIFF	USA	2006
2:48.99	DAN KIRKLAND	USA	2015	2:25.22	RICK COLELLA	USA	2016	10:50.20	CHRIS DUNN	GBR	2016
2:49.32	GEORGE SCHMIDT	USA	2016	2:39.23	HUBIE KERNS	USA	2014	11:18.60	J-C.LESTIDEAU	FRA	2016
2:49.70	JOSE LORO	BRA	2015	2:41.20	ALEK SHESTAKOV	USA	2014	11:18.98	DAVID QUIGGIN	USA	2016
2:50.38	HUBIE KERNS	USA	2014	2:43.37	RICHARD BURNS	USA	2009	11:19.41	JOHN CRISP	AUS	2005
2:50.44	MIKLOS KOVATS	HUN	2005	2:44.41	LEE CHILDS	USA	2013	11:19.55	BURWELL JONES	USA	2005
2:50.79	DANNY WALMSLEY	CAN	2014	2:44.44	GERSHON SHEFA	ISR	2008	11:20.69	TOM LANDIS	USA	2012
50 M. BRST				2:44.53	JIM CLEMMONS	USA	2015	11:25.71	ERNIE LESKOVITZ	USA	2006
33.30	RICK COLELLA	USA	2016	2:44.75	ROBERT WILSON	USA	2016	11:32.62	MICHAEL MCCOLLY	USA	2016
34.61	OSAMU MAEDA	JPN	2009	2:45.17	BARRY YOUNG	NZL	2004	1500 M. FREE			
34.66	ROBERT STRAND	USA	2012	2:45.64	J.LESTIDEAU	FRA	2011	20:36.56	GRAHAM JOHNSTON	USA	2001
34.69	C.STARZEC	FRA	2015	2:45.64	BERND HORSTMANN	GER	2009	21:07.50	DAVID RADCLIFF	USA	2008
34.80	ROBERT WRIGHT	USA	2016	400 M. I.M.				21:12.56	TOM LANDIS	USA	2012
35.00	KENNETH FROST	USA	2009	5:14.48	RICK COLELLA	USA	2016	21:49.74	WERNER SCHNABEL	GER	2006
35.30	JIM DRAGON	USA	2009	5:40.43	LAWRENCE DAY	USA	2016	21:50.53	DAVID QUIGGIN	USA	2015
35.35	TOSHIHARU FUJII	JPN	2015	5:50.98	ALEK SHESTAKOV	USA	2014	21:53.77	BURWELL JONES	USA	2005
35.56	YOSHIHIKO OSAKI	JPN	2004	5:51.91	HUBIE KERNS	USA	2014	22:01.12	JOHN CRISP	AUS	2005
35.60	PETER ANDERSEN	USA	2009	5:52.50	GEORGE WENDT	USA	2012	22:03.95	MASATO YOSHINO	JPN	2010
100 M. BRST				5:52.79	BARRY YOUNG	NZL	2004	22:06.67	YASUSHI YAMAGUCHI	JPN	2009
1:15.94	RICK COLELLA	USA	2016	5:55.49	GERSHON SHEFA	ISR	2008	22:08.77	VICTOR PAUL	AUS	2014
1:18.11	KENNETH FROST	USA	2009	6:01.74	FRANK MCELROY	USA	2013	50 M. BACK			
1:18.49	C.STARZEC	FRA	2015	6:02.99	JIM CLEMMONS	USA	2015	33.59	RICHARD BURNS	USA	2013
1:18.87	ROBERT STRAND	USA	2012	6:03.31	TOM LANDIS	USA	2007	34.81	J-C LESTIDEAU	ESP	2016
1:19.16	ROBERT WRIGHT	USA	2015	*****				34.90	BERND HORSTMANN	GER	2012
1:19.69	TOSHIHARU FUJII	JPN	2016	*****				35.31	YOSHI OYAKAWA	USA	2003
1:19.88	ALLEN STARK	USA	2014	M E N 70-74				35.54	JOZSEF CSIKANY	HUN	2013
1:19.89	DAVID GILDEA	USA	2009	*****				35.83	S.SEKIKAWA	JPN	2003
1:21.25	OSAMU MAEDA	JPN	2009	50 M. FREE				36.20	RICHARD ALEXANDER	USA	2014
1:21.75	GERSHON SHEFA	ISR	2008	27.71	RICHARD ABRAHAMS	USA	2015	36.23	MIKLOS KOVATS	HUN	2010
200 M. BRST				28.35	IAN SMITH	CAN	2011	36.46	KATSUYUKI SUZUKI	JPN	2015
2:41.54	RICK COLELLA	USA	2016	28.46	DAVID QUIGGIN	USA	2015	36.49	FRANS VAN ENST	NED	2011
2:56.96	ALLEN STARK	USA	2014	28.46	WOLFRAM GOTTFRIED	GER	2004	100 M. BACK			
2:58.10	ROBERT WRIGHT	USA	2015	28.53	JEFF FARRELL	USA	2007	1:15.13	RICHARD BURNS	USA	2013
2:58.13	ROBERT STRAND	USA	2012	28.55	JAMES ELDER	USA	2013	1:15.24	BARRY YOUNG	NZL	2009
2:58.34	TOSHIHARU FUJII	JPN	2015	28.65	CAV CAVANAUGH	USA	2005	1:16.14	BERND HORSTMANN	GER	2013
2:59.54	KENNETH FROST	USA	2009	28.66	RONALD JOHNSON	USA	2001	1:17.64	J-C LESTIDEAU	ESP	2016
2:59.99	GERSHON SHEFA	ISR	2008	28.85	PETER BERGEGREN	SWE	2008	1:18.29	JOZSEF CSIKANY	HUN	2015
3:00.88	JIM CLEMMONS	USA	2015	28.94	B.SCHLURIKE	GER	1991	1:18.96	GERHARD WIELAND	AUT	2016
3:01.93	C.STARZEC	FRA	2015	100 M. FREE				1:19.12	YOSHI OYAKAWA	USA	2004
3:02.13	MICHAEL MOLONEY	AUS	2004	1:03.32	DAVID QUIGGIN	USA	2015	1:19.14	BURWELL JONES	USA	2003
50 M. FLY				1:03.71	RICHARD ABRAHAMS	USA	2015	1:20.74	MIKLOS KOVATS	HUN	2010
28.54	JOSEP CLARET	ESP	2009	1:04.85	RICHARD BURNS	USA	2013	1:20.93	S.SEKIKAWA	JPN	2003
28.68	KEEFE LODWIG	USA	2008	1:05.40	CAV CAVANAUGH	USA	2005	200 M. BACK			
28.69	JIM DRAGON	USA	2009	1:05.45	CHRIS DUNN	GBR	2016	2:44.59	RICHARD BURNS	USA	2013
29.24	MARC MIDDLETON	USA	2016	1:05.57	GERHARD WIELAND	AUT	2015	2:48.10	BARRY YOUNG	NZL	2009
29.25	RICHARD ABRAHAMS	USA	2010	1:05.79	JAMES ELDER	USA	2014	2:49.85	BERND HORSTMANN	GER	2013
30.13	ROBERT OLSON	USA	2009	1:05.81	WOLFRAM GOTTFRIED	GER	2002	2:53.46	JOZSEF CSIKANY	HUN	2015
30.23	BORIS RUZHITSKY	RUS	2009	1:05.86	KEEFE LODWIG	USA	2013	2:55.19	BURWELL JONES	USA	2005
30.33	TOMOYASU IIDA	JPN	2006	1:05.92	AKIRA FUJIMAKI	JPN	2014	2:55.96	J-C.LESTIDEAU	FRA	2016



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2:58.62	S.SEKIKAWA	JPN	2003	2:53.82	J-C LESTIDEAU	ESP	2016	11:59.91	MASATO YOSHINO	JPN	2013
2:58.88	MARTY MENNEN	USA	2006	2:54.06	ROBERT STRAND	USA	2016	12:04.82	IGOR BROVIN	RUS	2009
2:59.52	MIKLOS KOVATS	HUN	2010	2:55.13	RICHARD BURNS	USA	2013	12:08.69	IKURO SHIMONO	JPN	2012
3:01.03	KARL DONOGHUE	CAN	2010	2:56.09	PAUL WYATT	AUS	2016	12:14.79	WERNER SCHNABEL	GER	2011
50 M. BRST				2:56.26	CHRIS DUNN	GBR	2016	12:17.40	GIULIO DIVANO	ITA	2009
36.68	ROBERT STRAND	USA	2016	2:56.72	TOM LANDIS	USA	2012	12:29.76	GERHARD HOLE	GER	2010
36.86	DIETER HOFEL	GER	2015	2:56.96	NORIAKI TSUJI	JPN	2016	12:31.76	JOAQUIN CANALES	ESP	2016
37.23	YOSHIHIKO OSAKI	JPN	2009	2:57.68	ED REED	USA	2014	1500 M. FREE			
37.34	KENNETH FROST	USA	2014	2:58.06	BURWELL JONES	USA	2003	21:03.06	DAVID RADCLIFF	USA	2009
37.47	KARL WIEDAMANN	USA	2008	400 M. I.M.				22:48.56	JOHN CRISP	AUS	2010
37.59	DIETER HOFEL	GER	2016	5:57.81	BARRY YOUNG	NZL	2009	23:02.25	GRAHAM JOHNSTON	USA	2006
37.63	JOZEF KLUKOWSKI	POL	2016	6:23.93	CHRIS DUNN	GBR	2016	23:16.89	MASATO YOSHINO	JPN	2014
37.68	PETER ANDERSEN	USA	2013	6:24.55	DOUGLAS SPRINGER	USA	2016	23:30.55	YASUSHI YAMAGUCHI	JPN	2014
37.74	DOUGLAS SPRINGER	USA	2016	6:24.76	TOM LANDIS	USA	2012	23:31.64	WERNER SCHNABEL	GER	2012
37.93	AKIO SUGIYAMA	JPN	2004	6:26.71	PAUL WYATT	AUS	2016	23:34.20	HIROSHI YOSHIMURA	JPN	2005
100 M. BRST				6:27.26	J-C.LESTIDEAU	FRA	2016	23:36.08	JOAQUIN CANALES	ESP	2016
1:23.63	ROBERT STRAND	USA	2016	6:30.38	RUDOLF SMERDA	CZE	2014	23:50.80	GIULIO DIVANO	ITA	2009
1:23.65	KENNETH FROST	USA	2014	6:31.03	ED REED	USA	2014	24:02.91	FRANK WILLIAMS	USA	2015
1:24.12	DAVID GILDEA	USA	2013	6:32.11	BURWELL JONES	USA	2003	50 M. BACK			
1:24.71	KARL WIEDAMANN	USA	2008	6:32.30	MASAO KIJIMA	JPN	2011	36.14	YOSHI OYAKAWA	USA	2008
1:25.25	ANTONIO ORSELLI	BRA	2012	*****				36.38	S.SEKIKAWA	JPN	2008
1:25.53	TONY GOODWIN	AUS	2007	M E N 75-79				36.90	BURWELL JONES	USA	2010
1:25.80	SEIKO OKAZAKI	JPN	2016	*****				37.51	KEIJIRO NAKAMURA	JPN	1998
1:26.07	NORIAKI TSUJI	JPN	2016	50 M. FREE				37.59	RYUJI TAKAMINE	JPN	2016
1:26.25	BARRY YOUNG	NZL	2009	30.26	IAN SMITH	CAN	2016	37.68	Y.FUNAHASHI	JPN	2015
1:26.26	DIETER HOFEL	GER	2016	30.28	DAVID RADCLIFF	USA	2009	38.08	CLARKE MITCHELL	USA	2007
200 M. BRST				30.30	MIKE FRESHLEY	USA	2016	38.17	MIKLOS KOVATS	HUN	2016
3:04.79	MICHAEL MOLONEY	AUS	2009	30.32	NEIL MACKINNON	GBR	2016	38.57	FRANS VAN ENST	NED	2015
3:07.26	ROBERT STRAND	USA	2016	30.40	TSUTOMU EBIHARA	JPN	2015	38.83	HELMUT RICHTER	GER	2014
3:07.50	KARL WIEDAMANN	USA	2008	30.63	SHINGO YAMAMOTO	JPN	2008	100 M. BACK			
3:07.93	KENNETH FROST	USA	2014	30.78	HIROSHI MATSUMOTO	JPN	2011	1:20.98	BURWELL JONES	USA	2009
3:09.09	NORIAKI TSUJI	JPN	2016	30.82	DONALD HILL	USA	2009	1:21.52	YOSHI OYAKAWA	USA	2008
3:09.23	DOUGLAS SPRINGER	USA	2016	31.14	ALDO EMINENTE	FRA	2006	1:22.05	S.SEKIKAWA	JPN	2009
3:09.27	TONY GOODWIN	AUS	2008	31.19	HELMUT RICHTER	GER	2015	1:25.41	MIKLOS KOVATS	HUN	2016
3:11.67	CLAUDIO NEGRI	ITA	2006	31.19	FRANK PIEMME	USA	2000	1:25.84	FRANS VAN ENST	NED	2015
3:12.61	HANS REICHELT	GER	2008	100 M. FREE				1:26.00	CLARKE MITCHELL	USA	2007
3:14.76	THOMAS WALKER	GBR	2006	1:06.63	DAVID RADCLIFF	USA	2009	1:26.00	KEIJIRO NAKAMURA	JPN	1998
50 M. FLY				1:09.06	MIKE FRESHLEY	USA	2016	1:26.51	T.HASHIMOTO	JPN	2016
30.06	RICHARD ABRAHAMS	USA	2015	1:10.02	SHINGO YAMAMOTO	JPN	2008	1:26.55	MARTY MENNEN	USA	2011
30.90	JOEL BURNS	USA	2016	1:10.38	GRAHAM JOHNSTON	USA	2006	1:27.24	MAMPEI SEINO	JPN	2007
31.20	RICHARD BURNS	USA	2015	1:10.49	HIROSHI MATSUMOTO	JPN	2012	200 M. BACK			
31.28	JOSEP CLARET	ESP	2014	1:11.16	WILL GOSNOLD	USA	2016	2:57.72	BURWELL JONES	USA	2010
31.37	JIM DRAGON	USA	2014	1:11.78	HELMUT RICHTER	GER	2014	3:04.07	S.SEKIKAWA	JPN	2010
31.49	HIROSHI MATSUMOTO	JPN	2007	1:11.83	BURWELL JONES	USA	2008	3:07.08	MARTY MENNEN	USA	2011
31.66	J-C LESTIDEAU	ESP	2016	1:12.63	MASATO YOSHINO	JPN	2013	3:07.83	T.HASHIMOTO	JPN	2016
31.91	HARRY GREENFIELD	USA	2015	1:12.78	WERNER SCHNABEL	GER	2011	3:10.25	ROGER FRANKS	USA	2002
31.95	BORIS RUZHITSKIY	RUS	2014	200 M. FREE				3:10.36	KARL DONOGHUE	CAN	2015
31.95	BERND SCHRODER	GER	2013	2:25.66	DAVID RADCLIFF	USA	2009	3:10.53	FRANS VAN ENST	NED	2015
31.95	Y.FUNAHASHI	JPN	2010	2:35.32	BURWELL JONES	USA	2009	3:10.64	KEIJIRO NAKAMURA	JPN	1998
100 M. FLY				2:36.30	GRAHAM JOHNSTON	USA	2006	3:12.71	MIKLOS KOVATS	HUN	2016
1:12.66	RICHARD ABRAHAMS	USA	2015	2:40.79	MASATO YOSHINO	JPN	2013	3:13.03	YOSHI OYAKAWA	USA	2008
1:14.20	ROBERT POILETMAN	USA	2013	2:41.06	IKURO SHIMONO	JPN	2013	50 M. BRST			
1:14.47	JOSEP CLARET	ESP	2014	2:41.39	WERNER SCHNABEL	GER	2012	39.62	MIKE FRESHLEY	USA	2016
1:15.23	J-C LESTIDEAU	ESP	2016	2:43.81	IGOR BROVIN	RUS	2009	39.65	HANS REICHELT	GER	2011
1:15.79	RICHARD BURNS	USA	2015	2:43.98	LAURI MALK	FIN	2012	39.92	TONY GOODWIN	AUS	2012
1:16.04	KOJI IWAMOTO	JPN	2012	2:44.40	YASUSHI YAMAGUCHI	JPN	2014	40.01	TETSUO NAKAMARU	JPN	2010
1:16.18	BARRY YOUNG	NZL	2009	2:44.56	MIKE FRESHLEY	USA	2016	40.20	MIKHAIL FARAFONOV	RUS	2012
1:16.80	DEREK PARR	GBR	2014	400 M. FREE				40.28	TATSUO ASAI	JPN	2016
1:17.41	RUDOLF SMERDA	CZE	2013	5:17.77	DAVID RADCLIFF	USA	2009	40.38	TOSHIO TAJIMA	JPN	2000
1:17.52	JOEL BURNS	USA	2016	5:32.06	GRAHAM JOHNSTON	USA	2006	40.41	DON BIDWELL	NZL	2009
200 M. FLY				5:33.42	BURWELL JONES	USA	2009	40.44	WERNER MULLER	GER	2008
2:53.26	BARRY YOUNG	NZL	2009	5:39.94	JOHN CRISP	AUS	2010	40.49	HIROFUMI HOSOTANI	JPN	2010
2:59.21	ROBERT POILETMAN	USA	2013	5:43.90	IKURO SHIMONO	JPN	2013	100 M. BRST			
3:03.40	J-C LESTIDEAU	ESP	2016	5:43.91	WERNER SCHNABEL	GER	2011	1:27.74	MIKE FRESHLEY	USA	2016
3:04.35	GUNTER SCHOPKE	GER	2010	5:44.68	MASATO YOSHINO	JPN	2014	1:29.15	MASARU SHINKAI	JPN	2016
3:06.80	PAUL WYATT	AUS	2016	5:48.71	YASUSHI YAMAGUCHI	JPN	2014	1:29.35	TONY GOODWIN	AUS	2012
3:08.06	TAISUKE MIYAZAKI	JPN	2009	5:49.23	IGOR BROVIN	RUS	2009	1:29.55	TETSUO NAKAMARU	JPN	2010
3:08.50	RUDOLF SMERDA	CZE	2013	5:50.16	JOAQUIN CANALES	ESP	2015	1:29.92	HANS REICHELT	GER	2011
3:10.53	RICHARD KITCHELL	USA	2010	800 M. FREE				1:31.65	BELA FABIAN	HUN	2012
3:12.79	DEREK PARR	GBR	2014	11:07.90	DAVID RADCLIFF	USA	2009	1:31.90	TSUTOMU KAJIHARA	JPN	2008
3:13.15	HERBERT LANGE	GER	2016	11:25.95	GRAHAM JOHNSTON	USA	2006	1:32.06	SHUNSAKU TAKAHIRA	JPN	2007
200 M. I.M.				11:59.76	JOHN CRISP	AUS	2010	1:32.17	YOSHIAKI AOKI	JPN	2013
2:44.36	BARRY YOUNG	NZL	2009					1:32.46	PETER BELL	CAN	2010



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200 M. BRST		32.73 B.SCHLURIKE	GER 2002	42.13 SHOICHI SHIDA	JPN 2008
3:13.93 MIKE FRESHLEY	USA 2016	32.83 TSUTOMU HAYASHI	JPN 2016	100 M. BACK	
3:17.54 TONY GOODWIN	AUS 2012	32.92 CAV CAVANAUGH	USA 2015	1:26.44 S.SEKIKAWA	JPN 2013
3:18.14 MASARU SHINKAI	JPN 2016	33.08 SHINGO YAMAMOTO	JPN 2012	1:26.97 KEIJIRO NAKAMURA	JPN 2003
3:24.08 HANS REICHELT	GER 2011	33.09 FRANK PIEMME	USA 2005	1:31.10 CLARKE MITCHELL	USA 2013
3:28.51 SHUNSAKU TAKAHIRA	JPN 2007	33.12 KEIJIRO NAKAMURA	JPN 2004	1:31.14 MARTY MENNEN	USA 2016
3:28.63 TSUTOMU KAJIHARA	JPN 2008	33.18 CLARKE MITCHELL	USA 2013	1:32.84 BURWELL JONES	USA 2014
3:28.79 BELA FABIAN	HUN 2012	33.27 DAVID RADCLIFF	USA 2014	1:34.40 GERHARD HOLE	GER 2015
3:28.90 CLAUDIO NEGRI	ITA 2012	100 M. FREE		1:35.36 RAYMOND TAFT	USA 1999
3:29.31 YOSHIKAKI AOKI	JPN 2013	1:11.82 DAVID RADCLIFF	USA 2014	1:35.42 PAUL HUTINGER	USA 2004
3:30.58 PETER BELL	CAN 2010	1:12.68 HIROSHI MATSUMOTO	JPN 2016	1:36.58 FRITZ ILGEN	GER 2014
50 M. FLY		1:13.12 ROBERTO ALBERICHE	ESP 2011	1:36.95 GORO KOBAYASHI	JPN 1998
32.61 Y.FUNAHASHI	JPN 2014	1:16.04 GRAHAM JOHNSTON	USA 2011	200 M. BACK	
32.76 HIROSHI MATSUMOTO	JPN 2012	1:16.22 CAV CAVANAUGH	USA 2015	3:16.22 BURWELL JONES	USA 2013
33.27 AKIRA TAKAKURA	JPN 2016	1:17.11 KEIJIRO NAKAMURA	JPN 2003	3:16.82 KEIJIRO NAKAMURA	JPN 2004
33.74 NEIL MACKINNON	GBR 2016	1:17.64 GERHARD HOLE	GER 2015	3:24.35 GERHARD HOLE	GER 2015
33.83 MIKE FRESHLEY	USA 2016	1:17.75 WERNER SCHNABEL	GER 2016	3:25.44 MARTY MENNEN	USA 2016
33.83 JOHN SMITH	USA 2013	1:17.85 KELLEY LEMMON	PUR 1993	3:27.80 CLARKE MITCHELL	USA 2013
33.94 TSUTOMU EBIHARA	JPN 2015	1:17.93 SHINGO YAMAMOTO	JPN 2011	3:30.76 PAUL HUTINGER	USA 2004
34.82 TAISUKE MIYAZAKI	JPN 2015	200 M. FREE		3:31.36 RAYMOND TAFT	USA 1999
34.94 FRANTISEK POKORNY	CZE 2016	2:40.22 DAVID RADCLIFF	USA 2014	3:33.41 JAN ZIEGLER	CZE 2005
35.06 JOAQUIN CANALES	ESP 2015	2:48.61 WERNER SCHNABEL	GER 2016	3:33.44 FRITZ ILGEN	GER 2015
100 M. FLY		2:48.76 ROBERTO ALBERICHE	ESP 2011	3:36.85 E.NODENSCHNEIDER	FRA 2016
1:22.77 AKIRA TAKAKURA	JPN 2016	2:52.91 GRAHAM JOHNSTON	USA 2013	50 M. BRST	
1:25.60 TAISUKE MIYAZAKI	JPN 2014	2:53.00 HIROSHI MATSUMOTO	JPN 2016	41.68 TOSHIO TAJIMA	JPN 2006
1:26.04 TAKASHI HAYASHI	JPN 2008	2:53.10 BURWELL JONES	USA 2013	43.05 IWAMI IKEDA	JPN 2014
1:26.41 GUNTER SCHOPKE	GER 2015	2:55.98 CAV CAVANAUGH	USA 2015	43.19 HIROFUMI HOSOTANI	JPN 2015
1:27.82 JOAQUIN CANALES	ESP 2015	2:59.28 HIROSHI YOSHIMURA	JPN 2008	43.23 TETSUO NAKAMARU	JPN 2015
1:28.30 GIULIO DIVANO	ITA 2009	3:00.09 SHINGO YAMAMOTO	JPN 2011	43.62 Y.MIYAMOTO	JPN 1998
1:28.44 CHITOSHI KONISHI	JPN 2015	3:00.55 GERHARD HOLE	GER 2015	43.67 PATRICK GALVIN	AUS 2013
1:28.67 DAVID MCLACHLAN	RSA 2012	400 M. FREE		43.93 WERNER MULLER	GER 2013
1:28.72 WERNER MULLER	GER 2008	5:45.21 DAVID RADCLIFF	USA 2015	44.41 BOB BEST	USA 2012
1:29.16 GENICHI IGARASHI	JPN 2011	6:05.49 WERNER SCHNABEL	GER 2016	44.72 GERHARD GIERA	GER 2008
200 M. FLY		6:08.75 GIULIO DIVANO	ITA 2011	44.88 HANS REICHELT	GER 2016
3:18.12 RICHARD KITCHELL	USA 2015	6:10.13 GRAHAM JOHNSTON	USA 2012	44.88 TSUTOMU KAJIHARA	JPN 2013
3:22.72 GUNTER SCHOPKE	GER 2015	6:11.49 ROBERTO ALBERICHE	ESP 2011	100 M. BRST	
3:26.21 DAVID MCLACHLAN	RSA 2012	6:17.52 TOSABURO HOSOKAWA	JPN 2015	1:37.05 TETSUO NAKAMARU	JPN 2015
3:26.28 TAKASHI HAYASHI	JPN 2008	6:20.66 BURWELL JONES	USA 2014	1:39.32 PATRICK GALVIN	AUS 2013
3:31.90 WERNER MULLER	GER 2009	6:26.19 GERHARD HOLE	GER 2015	1:39.73 TSUTOMU KAJIHARA	JPN 2013
3:33.34 GIULIO DIVANO	ITA 2010	6:26.98 IGOR BROVIN	RUS 2012	1:41.02 TOSHIO TAJIMA	JPN 2005
3:33.50 LAURI MALK	FIN 2012	6:31.17 HIROSHI YOSHIMURA	JPN 2009	1:41.73 HIROFUMI HOSOTANI	JPN 2015
3:34.30 MAURICE LUSIEN	FRA 2001	800 M. FREE		1:42.33 WERNER MULLER	GER 2013
3:34.82 CLAUDIO NEGRI	ITA 2012	11:49.29 DAVID RADCLIFF	USA 2014	1:42.99 CLAUDIO NEGRI	ITA 2016
3:35.17 OLEG TKACHENKO	RUS 2016	12:51.45 GRAHAM JOHNSTON	USA 2012	1:43.16 JAN ZIEGLER	CZE 2005
200 M. I.M.		12:52.38 GIULIO DIVANO	ITA 2011	1:43.21 ROBERT MACDONALD	USA 2008
2:59.01 MIKE FRESHLEY	USA 2016	12:55.27 BURWELL JONES	USA 2013	1:43.43 SHUNSAKU TAKAHIRA	JPN 2013
3:06.58 BURWELL JONES	USA 2009	13:00.08 WERNER SCHNABEL	GER 2016	200 M. BRST	
3:07.29 GERHARD HOLE	GER 2010	13:10.59 TOSABURO HOSOKAWA	JPN 2015	3:42.84 MASAMI SHIGETA	JPN 2016
3:09.33 IKURO SHIMONO	JPN 2012	13:15.13 ANRI VERESHCHAGIN	RUS 2015	3:43.82 TSUTOMU KAJIHARA	JPN 2014
3:11.78 JOAQUIN CANALES	ESP 2015	13:28.82 IGOR BROVIN	RUS 2012	3:46.57 CLAUDIO NEGRI	ITA 2016
3:12.48 DAVID MCLACHLAN	RSA 2012	13:39.76 ROD BAKER	AUS 2008	3:47.15 PATRICK GALVIN	AUS 2013
3:13.53 GRAHAM JOHNSTON	USA 2006	13:43.17 JOSEF KREJCI	SUI 2013	3:47.81 AL CRAIG	USA 2007
3:16.05 MASARU SHINKAI	JPN 2016	1500 M. FREE		3:47.98 KARL HAUTER	GER 2005
3:16.31 BELA FABIAN	HUN 2012	22:16.90 DAVID RADCLIFF	USA 2014	3:48.49 ROBERT MACDONALD	USA 2008
3:16.41 MASAO KIJIMA	JPN 2016	24:40.69 GIULIO DIVANO	ITA 2011	3:48.92 JOHN COCKS	AUS 2016
400 M. I.M.		25:03.24 WERNER SCHNABEL	GER 2016	3:49.18 ZENJI NAKAHARI	JPN 2009
6:34.91 MIKE FRESHLEY	USA 2016	25:08.34 GERHARD HOLE	GER 2015	3:51.06 LARRY GOOD	USA 2014
6:48.48 BURWELL JONES	USA 2009	25:08.56 TOSABURO HOSOKAWA	JPN 2015	3:51.06 SHUNSAKU TAKAHIRA	JPN 2012
6:57.53 MASARU SHINKAI	JPN 2015	25:10.41 GRAHAM JOHNSTON	USA 2011	50 M. FLY	
6:58.19 GIULIO DIVANO	ITA 2009	25:59.56 HIROSHI YOSHIMURA	JPN 2008	34.75 HIROSHI MATSUMOTO	JPN 2016
7:03.86 JOAQUIN CANALES	ESP 2015	26:39.67 KATSURA SUZUKI	JPN 2011	38.05 TAKASHI HAYASHI	JPN 2013
7:08.74 GRAHAM JOHNSTON	USA 2007	26:52.76 FRANK PIEMME	USA 2005	38.75 CLARKE MITCHELL	USA 2013
7:10.29 DAVID MCLACHLAN	RSA 2012	26:52.93 RAYMOND TAFT	USA 1999	39.17 WERNER MULLER	GER 2013
7:12.95 IKURO SHIMONO	JPN 2015	50 M. BACK		39.65 GIULIO DIVANO	ITA 2011
7:13.52 ISAO TAKEBAYASHI	JPN 2016	38.16 S.SEKIKAWA	JPN 2013	39.88 MASARU IGARASHI	JPN 2015
7:14.22 ANRI VERESHCHAGIN	RUS 2009	38.41 KEIJIRO NAKAMURA	JPN 2003	40.26 ROBERTO ALBERICHE	ESP 2012
*****		39.18 YOSHI OYAKAWA	USA 2015	40.65 FRANK PIEMME	USA 2005
M E N 80-84		40.71 SHOICHI SAKOMOTO	JPN 1998	40.95 TOSHIO TAJIMA	JPN 2005
*****		41.00 MARTY MENNEN	USA 2016	41.02 BOB BEST	USA 2012
50 M. FREE		41.12 BURWELL JONES	USA 2013	100 M. FLY	
31.96 ROBERTO ALBERICHE	ESP 2012	41.40 PAUL HUTINGER	USA 2004	1:29.39 GIULIO DIVANO	ITA 2011
32.05 HIROSHI MATSUMOTO	JPN 2016	41.44 THOMAS ROBSON	GBR 2016	1:34.18 TAKASHI HAYASHI	JPN 2013
		41.49 CLARKE MITCHELL	USA 2012	1:40.57 WERNER MULLER	GER 2013



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2016)

1:43.93	WILLIAM LAUER	USA	2014	3:19.10	GORO KOBAYASHI	JPN	2002	48.94	GERHARD GIERA	GER	2013
1:44.39	CLAUDIO NEGRI	ITA	2016	3:19.25	KATSURA SUZUKI	JPN	2016	49.46	HIROMU YOSHIMOTO	JPN	2000
1:45.50	THOMAS MAINE	USA	2006	3:23.31	JIRO KOBAYASHI	JPN	2010	49.49	FRANK PIEMME	USA	2010
1:45.53	JAN ZIEGLER	CZE	2006	3:24.33	WALLIE JEFFRIES	USA	2016	49.69	ROLF WALTHER	GER	2014
1:45.64	JOHN COCKS	AUS	2016	400 M. FREE				49.90	SEIJI TAKAHASHI	JPN	2000
1:46.11	FRANK PIEMME	USA	2005	6:38.87	GRAHAM JOHNSTON	USA	2016	50.57	BARTON GREENBERG	USA	2009
1:47.86	KARL HAUTER	GER	2005	6:59.51	KATSURA SUZUKI	JPN	2016	50.74	PAUL KRUP	USA	2002
200 M. FLY				7:02.33	ROD BAKER	AUS	2013	50.83	FREDERICK HOPPE	USA	2012
3:31.42	GIULIO DIVANO	ITA	2011	7:03.07	FRANK PIEMME	USA	2010	100 M. BRST			
3:38.95	TAKASHI HAYASHI	JPN	2013	7:05.53	HIKOJI UEKI	JPN	2000	1:51.56	TAKAO TSUCHIYA	JPN	2016
3:54.51	THOMAS MAINE	USA	2006	7:06.36	WILLARD LAMB	USA	2008	1:51.79	FRANK PIEMME	USA	2010
4:02.29	WERNER MULLER	GER	2013	7:12.16	JIM EUBANK	USA	2001	1:53.27	BARTON GREENBERG	USA	2009
4:03.00	JAN ZIEGLER	CZE	2005	7:16.00	KARL HAUTER	GER	2013	1:53.70	HIROMU YOSHIMOTO	JPN	2000
4:04.18	WILLIAM LAUER	USA	2014	7:20.63	D.CASOLINO	ITA	2012	1:54.19	Y.MIYAMOTO	JPN	2002
4:06.58	CLAUDIO NEGRI	ITA	2016	7:20.74	HIROSHI IMAIZUMI	JPN	2010	1:56.64	H.REITEMEYER	GER	2006
4:11.09	ANTON CERER	USA	1998	800 M. FREE				1:57.18	KARL HAUTER	GER	2010
4:11.48	KARL HAUTER	GER	2006	14:23.39	GRAHAM JOHNSTON	USA	2016	1:57.36	TOSHIO TAJIMA	JPN	2010
4:19.84	HAL STOLZ	USA	2014	14:36.90	WILLARD LAMB	USA	2008	1:57.78	GERHARD GIERA	GER	2013
200 M. I.M.				14:39.80	KATSURA SUZUKI	JPN	2016	1:58.07	ROBERT MACDONALD	USA	2013
3:20.65	GIULIO DIVANO	ITA	2011	14:43.80	ROD BAKER	AUS	2013	200 M. BRST			
3:27.46	JOHN COCKS	AUS	2016	14:43.81	FRANK PIEMME	USA	2010	4:10.75	AL CRAIG	USA	2012
3:29.66	ROBERTO ALBERICHE	ESP	2012	15:11.24	D.CASOLINO	ITA	2012	4:13.81	KARL HAUTER	GER	2010
3:32.82	JAN ZIEGLER	CZE	2005	15:24.45	JIM EUBANK	USA	2001	4:15.11	FRANK PIEMME	USA	2010
3:33.09	WERNER MULLER	GER	2013	15:24.97	HIROSHI IMAIZUMI	JPN	2010	4:16.56	THOMAS MAINE	USA	2010
3:33.56	YOSHINAO KAMEI	JPN	2013	15:30.95	ROBERT BEACH	USA	2015	4:16.96	ROBERT MACDONALD	USA	2013
3:34.94	FRANK PIEMME	USA	2005	15:32.70	JURGEN SCHMIDT	USA	2008	4:20.59	FREDERICK HOPPE	USA	2012
3:35.20	KARL HAUTER	GER	2006	1500 M. FREE				4:22.99	HIROMU YOSHIMOTO	JPN	2000
3:39.78	BOB BEST	USA	2013	27:47.93	KATSURA SUZUKI	JPN	2016	4:25.31	ALDO DAROSA	USA	2003
3:40.00	ANRI VERESHCHAGIN	RUS	2014	27:50.01	GRAHAM JOHNSTON	USA	2016	4:26.74	H.REITEMEYER	GER	2006
400 M. I.M.				28:35.24	WILLARD LAMB	USA	2008	4:36.86	HAROLD PERRY	USA	1996
7:12.63	GIULIO DIVANO	ITA	2011	29:00.17	ROD BAKER	AUS	2013	50 M. FLY			
7:38.09	JAN ZIEGLER	CZE	2005	29:12.85	JURGEN SCHMIDT	USA	2008	45.63	FRANK PIEMME	USA	2010
7:39.41	JOHN COCKS	AUS	2016	29:29.44	ROBERT BEACH	USA	2015	46.48	ANDREW HOLDEN	USA	2004
7:39.71	WILLIAM LAUER	USA	2014	29:53.88	JIM EUBANK	USA	2000	46.85	TOSHIO TAJIMA	JPN	2010
7:45.19	LARRY GOOD	USA	2014	30:10.16	HIROSHI IMAIZUMI	JPN	2010	47.88	TAMON YOSHIDA	JPN	2011
7:47.73	THOMAS MAINE	USA	2006	30:14.52	TOKUSHI KOMEDA	JPN	1999	48.21	CURT ZEISS	GER	2016
7:54.48	BOB BEST	USA	2012	31:17.64	ALDO DA ROSA	USA	2002	50.30	THOMAS MAINE	USA	2010
7:57.61	KARL HAUTER	GER	2005	50 M. BACK				50.64	MAX VON ISSER	USA	2006
7:58.02	ANRI VERESHCHAGIN	RUS	2014	39.89	KEIJIRO NAKAMURA	JPN	2008	51.12	PAUL KRUP	USA	2002
8:03.49	FRANK PIEMME	USA	2005	42.17	GORO KOBAYASHI	JPN	2001	51.26	ROBERT MACDONALD	USA	2013
*****				44.52	FRED VAN DYKE	USA	2006	51.81	Y.MIYAMOTO	JPN	2002
*****				45.16	TOSHIJI SATO	JPN	2000	100 M. FLY			
M E N 85-89				45.33	SHOICHI SAKAMOTO	JPN	2004	1:55.18	THOMAS MAINE	USA	2010
*****				45.45	ILO FONSECA	BRA	2015	2:02.53	ANDREW HOLDEN	USA	2004
50 M. FREE				45.60	K.KLAUSTERMEYER	GER	2013	2:05.21	KARL HAUTER	GER	2010
33.94	KEIJIRO NAKAMURA	JPN	2008	46.89	SHOICHI SHIDA	JPN	2012	2:05.39	FRANK PIEMME	USA	2010
35.77	WOODROW BOWERSOCK	USA	1998	47.06	ALDO DA ROSA	USA	2002	2:10.28	WALTER PFEIFFER	USA	1999
35.85	FRANK PIEMME	USA	2010	47.30	ROD BAKER	AUS	2013	2:11.44	ANTON CERER	USA	2002
36.24	ILO FONSECA	BRA	2015	100 M. BACK				2:12.47	MAX VAN GELDER	NED	2009
36.40	JAMES EUBANK	USA	2000	1:31.65	KEIJIRO NAKAMURA	JPN	2008	2:17.29	PAUL KRUP	USA	2002
36.41	GORO KOBAYASHI	JPN	2002	1:36.34	GORO KOBAYASHI	JPN	2001	2:17.55	PAUL HUTINGER	USA	2009
36.62	ROD BAKER	AUS	2013	1:41.25	TOSHIJI SATO	JPN	2000	2:18.84	GUILHERME SILVA	BRA	2016
36.90	TAKAHIKO NOMA	JPN	2013	1:45.37	ROGER BURRELL	GBR	2016	200 M. FLY			
36.90	TOSHIMI INATOMI	JPN	2011	1:48.22	ROD BAKER	AUS	2014	4:15.86	THOMAS MAINE	USA	2010
37.21	ANDREW HOLDEN	USA	2004	1:48.68	HIKOJI UEKI	JPN	2000	4:46.99	KARL HAUTER	GER	2010
100 M. FREE				1:49.24	WILLARD LAMB	USA	2008	4:47.63	ANDREW HOLDEN	USA	2004
1:23.25	FRANK PIEMME	USA	2010	1:49.54	ALDO DA ROSA	USA	2002	4:57.41	ANTON CERER	USA	2002
1:23.52	KEIJIRO NAKAMURA	JPN	2008	1:49.88	HELMUT KUNZEL	GER	2013	5:06.00	WALTER PFEIFFER	USA	1999
1:23.87	JIM EUBANK	USA	2001	1:50.23	NORIO HAYASHI	JPN	2015	5:07.93	PAUL KRUP	USA	2002
1:24.51	ROD BAKER	AUS	2013	200 M. BACK				5:25.02	ALDO CAPUTI	ITA	2001
1:25.48	GRAHAM JOHNSTON	USA	2016	3:28.59	KEIJIRO NAKAMURA	JPN	2008	5:42.31	HIRONARI UEDA	JPN	2006
1:26.48	GORO KOBAYASHI	JPN	2002	3:41.06	GORO KOBAYASHI	JPN	2002	5:54.28	FRANK GRIFFITHS	AUS	1993
1:26.71	HIKOJI UEKI	JPN	2000	3:48.38	TOSHIJI SATO	JPN	2000	5:55.76	DON LEADER	GBR	2009
1:26.78	WILLARD LAMB	USA	2007	3:54.81	ROD BAKER	AUS	2013	200 M. I.M.			
1:27.61	WOODROW BOWERSOCK	USA	1998	3:56.39	NORIO HAYASHI	JPN	2015	3:51.20	THOMAS MAINE	USA	2010
1:28.56	SHOICHI SHIDA	JPN	2011	3:56.47	KARL HAUTER	GER	2010	3:51.88	FRANK PIEMME	USA	2010
200 M. FREE				3:59.04	HELMUT KUNZEL	GER	2014	3:57.74	KARL HAUTER	GER	2010
3:07.03	GRAHAM JOHNSTON	USA	2016	4:04.33	WILLARD LAMB	USA	2008	4:06.36	GRAHAM JOHNSTON	USA	2016
3:13.78	HIKOJI UEKI	JPN	2000	4:04.99	JAN ZIEGLER	CZE	2010	4:07.75	HIROSHI IMAIZUMI	JPN	2010
3:16.89	FRANK PIEMME	USA	2010	4:05.88	ROGER BURRELL	GBR	2016	4:13.14	ANTON CERER	USA	2001
3:16.95	WILLARD LAMB	USA	2008	50 M. BRST				4:14.16	S.KROKOSZYNSKI	POL	2015
3:17.18	ROD BAKER	AUS	2013	45.58	TOSHIO TAJIMA	JPN	2011	4:15.59	ANDREW HOLDEN	USA	2004
3:17.30	JIM EUBANK	USA	2001	46.23	Y.MIYAMOTO	JPN	2002	4:16.31	ALDO DAROSA	USA	2003



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4:20.63 JAN ZIEGLER	CZE 2013	36:22.20 JURGEN SCHMIDT	USA 2013	5:53.77 JURGEN SCHMIDT	USA 2014
400 M. I.M.		36:47.02 GUS LANGNER	USA 1993	5:55.72 BRUD CLEAVELAND	USA 2007
8:21.81 THOMAS MAINE	USA 2010	37:21.89 NILS FERM	SWE 2007	50 M. FLY	
8:34.82 KARL HAUTER	GER 2010	38:18.63 THOMAS MAINE	USA 2015	1:00.30 WALTER PFEIFER	USA 2003
9:21.90 ANTON CERER	USA 2001	38:53.18 ELI KITAY	AUS 2014	1:03.95 FRANK GRANNIS	USA 2014
9:42.77 WALTER PFEIFFER	USA 1999	38:56.19 JOHN HARRISON	GBR 2004	1:05.38 JAN ZIEGLER	CZE 2015
10:28.43 FRANK GRIFFITHS	AUS 1994	39:36.67 WALTER PFEIFFER	USA 2004	1:05.95 ANDREW HOLDEN	USA 2009
10:38.32 DON LEADER	GBR 2009	40:41.55 JAMES TAR	BRA 2014	1:09.14 THOMAS MAINE	USA 2015
10:57.84 HIRONARI UEDA	JPN 2006	40:59.21 RICHARD SMITH	USA 2010	1:10.34 HEINZ SIEGEL	GER 2004
11:23.79 WILLIAM JOHNSTON	USA 2003	50 M. BACK		1:11.54 R.REINSTADTLER	GER 2002
11:35.32 TOSHIKAZU TATEDA	JPN 2016	46.82 GORO KOBAYASHI	JPN 2006	1:11.57 TOKUSHI KOMEDA	JPN 2004
11:52.88 ALDO CAPUTI	ITA 2000	51.94 ALAN WEEDEN	USA 2014	1:11.95 KARL HAUTER	GER 2016
*****		53.26 KAZUNAGA AKUTSU	JPN 2002	1:12.66 ALDO CAPUTI	ITA 2005
M E N 90-94		53.81 KAIZO WATANABE	JPN 2014	100 M. FLY	
*****		53.99 R.REINSTADTLER	GER 2002	2:23.56 THOMAS MAINE	USA 2015
50 M. FREE		54.07 TOSHIJI SATO	JPN 2005	2:31.03 WALTER PFEIFER	USA 2003
39.19 WOODY BOWERSOCK	USA 2003	54.39 BELA BANKI	HUN 2010	2:38.92 KARL HAUTER	GER 2015
40.89 TOSHIMI INATOMI	JPN 2016	54.41 MASAHISA KANEKO	JPN 2003	2:46.91 ALDO CAPUTI	ITA 2005
41.93 GEORGE CORONES	AUS 2008	54.65 ANTON BIEDERMANN	BRA 2014	2:49.34 FRANK GRANNIS	USA 2014
42.17 ROGER HALIMI	FRA 2012	54.96 WILLARD LAMB	USA 2013	3:29.53 JESSE COON	USA 2000
43.03 TOKUSHI KOMEDA	JPN 2004	100 M. BACK		4:11.06 ROBERT DOUD	USA 2014
43.50 WILLARD LAMB	USA 2015	1:45.46 GORO KOBAYASHI	JPN 2006	200 M. FLY	
43.78 KAZUNAGA AKUTSU	JPN 2002	1:59.92 WILLARD LAMB	USA 2014	5:19.18 THOMAS MAINE	USA 2015
44.07 MIRIO VINCENTIN	ARG 2009	2:01.03 JAN ZIEGLER	CZE 2015	5:51.79 WALTER PFEIFER	USA 2003
44.71 GORO KOBAYASHI	JPN 2006	2:02.90 KARL HAUTER	GER 2015	6:05.42 ALDO CAPUTI	ITA 2005
45.31 MASAHISA KANEKO	JPN 2002	2:04.48 TOSHIJI SATO	JPN 2006	8:22.48 JESSE COON	USA 2000
100 M. FREE		2:04.94 R.REINSTADTLER	GER 2002	9:44.64 ROBERT DOUD	USA 2013
1:37.69 KARL HAUTER	GER 2015	2:06.63 BELA BANKI	HUN 2010	200 M. I.M.	
1:38.05 GORO KOBAYASHI	JPN 2006	2:07.20 JOHN MERRILL	USA 2007	4:27.72 KARL HAUTER	GER 2015
1:40.54 TOKUSHI KOMEDA	JPN 2004	2:07.33 KAIZO WATANABE	JPN 2014	4:35.62 THOMAS MAINE	USA 2015
1:41.87 WILLARD LAMB	USA 2014	2:07.37 NILS FERM	SWE 2008	4:51.03 JAN ZIEGLER	CZE 2015
1:43.22 WOODY BOWERSOCK	USA 2003	200 M. BACK		5:02.64 TOKUSHI KOMEDA	JPN 2004
1:45.51 GEORGE CORONES	AUS 2009	4:05.77 GORO KOBAYASHI	JPN 2007	5:08.02 FRANK GRANNIS	USA 2014
1:48.50 ANTON BIEDERMANN	BRA 2014	4:20.06 WILLARD LAMB	USA 2014	5:12.11 WALTER PFEIFER	USA 2003
1:50.28 JURGEN SCHMIDT	USA 2013	4:24.15 JAN ZIEGLER	CZE 2015	5:43.35 ALDO CAPUTI	ITA 2005
1:50.30 KAZUNAGA AKUTSU	JPN 2002	4:32.63 NILS FERM	SWE 2009	6:10.88 JOHN HARRISON	GBR 2005
1:50.66 YOSHIRO OBATA	JPN 2014	4:33.77 BELA BANKI	HUN 2010	6:25.78 JESSE COON	USA 2000
200 M. FREE		4:34.60 R.REINSTADTLER	GER 2002	7:02.80 JIM PENFIELD	USA 1998
3:39.15 KARL HAUTER	GER 2016	4:40.87 KAIZO WATANABE	JPN 2013	400 M. I.M.	
3:41.77 WILLARD LAMB	USA 2013	4:41.28 TOSHIJI SATO	JPN 2005	9:56.43 THOMAS MAINE	USA 2015
3:54.89 TOKUSHI KOMEDA	JPN 2004	4:42.14 JOHN HARRISON	GBR 2004	11:19.91 WALTER PFEIFER	USA 2003
4:02.49 JURGEN SCHMIDT	USA 2013	4:46.15 JOHN MERRILL	USA 2008	13:52.72 JESSE COON	USA 2000
4:10.40 WOODY BOWERSOCK	USA 2003	50 M. BRST		17:53.58 ROBERT DOUD	USA 2013
4:19.52 MASAHISA KANEKO	JPN 2002	50.71 TOSHIO TAJIMA	JPN 2015	*****	
4:24.46 ANTON BIEDERMANN	BRA 2014	55.52 KARL HAUTER	GER 2016	M E N 95-99	
4:25.48 JAMES TAR	BRA 2014	57.20 HIROMU YOSHIMOTO	JPN 2005	*****	
4:28.34 GUS LANGNER	USA 1993	1:00.75 SEIJI TAKAHASHI	JPN 2005	50 M. FREE	
4:28.88 NILS FERM	SWE 2008	1:00.98 H.REITEMEYER	GER 2011	47.30 GEORGE CORONES	AUS 2013
400 M. FREE		1:01.55 M.GIAMPIETRO	ITA 2013	48.66 HIDEKAZU TAMURA	JPN 2015
8:01.57 WILLARD LAMB	USA 2014	1:01.64 BRUD CLEAVELAND	USA 2007	55.88 GUS LANGNER	USA 1998
8:13.45 TOKUSHI KOMEDA	JPN 2004	1:01.79 GEORGE CORONES	AUS 2009	56.99 KAZUNAGA AKUTSU	JPN 2007
8:48.73 JURGEN SCHMIDT	USA 2013	1:02.08 BRUNO HAMPEL	GER 2014	1:03.14 JARING TIMMERMAN	CAN 2005
9:31.51 THOMAS MAINE	USA 2015	1:02.56 ALFRED SCHULHOF	CAN 2010	1:06.06 COLLISTER WHEELER	USA 1988
9:35.43 ARTHUR THOMAS	AUS 2007	100 M. BRST		1:06.93 ALFREDO CHERCHI	AUS 2003
9:38.67 JAMES TAR	BRA 2014	2:05.18 KARL HAUTER	GER 2015	1:07.47 ALFRED SCHULHOF	CAN 2014
9:39.37 WOODY BOWERSOCK	USA 2003	2:15.43 HIROMU YOSHIMOTO	JPN 2005	1:14.72 JOHN HARRISON	GBR 2009
9:40.04 ALFREDO CHERCHI	AUS 1997	2:20.73 H.REITEMEYER	GER 2011	1:16.19 HUGH MCGREGOR	CAN 2014
9:40.14 CARLOS VINCENTIN	ARG 2009	2:23.53 RAYMOND HAKOMAKI	USA 2010	100 M. FREE	
9:43.35 JULIUS FEICHT	GER 2011	2:28.24 BRUD CLEAVELAND	USA 2007	1:57.54 GEORGE CORONES	AUS 2013
800 M. FREE		2:30.45 ALFRED SCHULHOF	CAN 2010	2:17.59 KAZUNAGA AKUTSU	JPN 2007
16:28.37 WILLARD LAMB	USA 2013	2:30.49 GEORGE CORONES	AUS 2008	2:29.32 GUS LANGNER	USA 1998
17:54.42 TOKUSHI KOMEDA	JPN 2005	2:31.40 MASAHISA KANEKO	JPN 2002	2:31.44 JARING TIMMERMAN	CAN 2005
17:58.02 JURGEN SCHMIDT	USA 2013	2:33.07 DENZO WAKAYAMA	JPN 2015	2:41.42 ALFRED SCHULHOF	CAN 2014
19:35.42 THOMAS MAINE	USA 2015	2:33.83 A.LISTSKIY	RUS 2015	2:41.83 HUGH MCGREGOR	CAN 2014
19:36.32 NILS FERM	SWE 2007	200 M. BRST		2:44.63 JOHN HARRISON	GBR 2009
20:09.22 JOHN HARRISON	GBR 2004	5:12.25 THOMAS MAINE	USA 2015	2:52.51 HORVATH BANKI	HUN 2015
20:13.74 GUS LANGNER	USA 1993	5:17.47 HIROMU YOSHIMOTO	JPN 2005	2:56.86 BUD JACKSON	USA 2014
20:16.94 ELI KITAY	AUS 2014	5:26.11 GEORGE CORONES	AUS 2009	3:02.33 F.GIANNETTA	ITA 2012
20:28.49 BELA BANKI	HUN 2011	5:26.75 H.REITEMEYER	GER 2011	200 M. FREE	
20:43.98 JULIUS FEICHT	GER 2011	5:35.18 MASAHISA KANEKO	JPN 2002	5:13.23 GUS LANGNER	USA 1998
1500 M. FREE		5:42.50 G.CHIZHEVSKIY	UKR 2016	5:56.17 JARING TIMMERMAN	CAN 2005
31:12.82 WILLARD LAMB	USA 2014	5:46.62 DENZO WAKAYAMA	JPN 2015	5:58.59 HORVATH BANKI	HUN 2015
		5:49.32 BELA BANKI	HUN 2010		



FINA WORLD MASTERS TOP 10 - LONG COURSE METERS - ALL TIME (1986-2016)

6:21.53	HUGH MCGREGOR	CAN	2014	4:58.20	F.GIANNETTA	ITA	2012
6:28.25	BUD JACKSON	USA	2014	200 M. BRST			
6:30.80	GARY WEISENTHAL	USA	2008	5:47.31	HIROMU YOSHIMOTO	JPN	2010
7:16.59	YOSHIO AKIMOTO	JPN	2016	7:11.65	BUD JACKSON	USA	2014
7:27.16	F.GIANNETTA	ITA	2012	7:29.12	HORVATH BANKI	HUN	2015
7:54.76	ROMAN JEZEK	CAN	2009	7:37.17	GUS LANGNER	USA	1998
10:17.12	JOHN BRICE	AUS	2014	7:54.76	ROMAN JEZEK	CAN	2009
400 M. FREE				8:11.63	JACK MATHESON	AUS	2012
11:30.53	GUS LANGNER	USA	1998	12:08.37	F.GIANNETTA	ITA	2012
12:11.73	HORVATH BANKI	HUN	2015	50 M. FLY			
13:19.19	HUGH MCGREGOR	CAN	2014	1:37.18	ALDO CAPUTI	ITA	2010
13:43.10	GARY WEISENTHAL	USA	2008	2:01.41	WALTER PFEIFFER	USA	2008
19:16.97	JACK MATHIESON	AUS	2012	2:40.49	EUGENE LEHMAN	CAN	2008
20:38.12	JEAN STORZ	FRA	2009	100 M. FLY			
21:45.34	JOHN BRICE	AUS	2014	4:09.52	WALTER PFEIFFER	USA	2008
800 M. FREE				200 M. FLY			
22:28.28	GUS LANGNER	USA	1998	14:05.25	WALTER PFEIFFER	USA	2008
24:21.10	HORVATH BANKI	HUN	2015	200 M. I.M.			
28:18.13	GARY WEISENTHAL	USA	2008	8:55.97	WALTER PFEIFFER	USA	2008
28:40.69	HUGH MCGREGOR	CAN	2014	400 M. I.M.			
42:55.70	JACK MATHIESON	AUS	2012	17:29.20	WALTER PFEIFFER	USA	2008
1500 M. FREE							
47:30.40	GUS LANGNER	USA	1999	*****			
82:25.34	JACK MATHIESON	AUS	2012	M E N 100-104			
50 M. BACK				*****			
1:01.61	TOSHIJI SATO	JPN	2010	50 M. FREE			
1:02.35	B.BANKI-HORVATH	HUN	2015	1:40.46	TOM LANE	USA	1994
1:03.32	KAZUNAGA AKUTSU	JPN	2007	1:47.82	JEAN LEEMPUT	FRA	2015
1:07.47	ALFRED SCHULHOF	CAN	2014	2:15.51	HANS HAHN	GER	2008
1:10.06	NORI YAMAMOTO	JPN	2005	3:22.65	EDWIN THOMAS	USA	1994
1:10.49	JEAN LEEMPUT	FRA	2009	100 M. FREE			
1:12.29	JOHN HARRISON	GBR	2009	3:23.10	JOHN HARRISON	GBR	2014
1:16.30	TOM LANE	USA	1989	4:05.98	TOM LANE	USA	1994
1:20.41	SHOGORO AZUMA	JPN	2007	50 M. BACK			
1:23.77	ALFREDO CHERCHI	AUS	2002	1:29.13	JEAN LEEMPUT	FRA	2014
100 M. BACK				1:32.20	JOHN HARRISON	GBR	2014
2:22.83	TOSHIJI SATO	JPN	2010	1:50.73	TOM LANE	USA	1994
2:31.61	KAZUNAGA AKUTSU	JPN	2007	2:25.23	HANS HAHN	GER	2008
2:32.01	B.BANKI-HORVATH	HUN	2015	100 M. BACK			
2:41.42	ALFRED SCHULHOF	CAN	2014	4:13.84	TOM LANE	USA	1994
2:42.01	JOHN HARRISON	GBR	2009	6:01.50	HANS HAHN	GER	2008
2:54.90	NORI YAMAMOTO	JPN	2005	200 M. BACK			
3:04.37	GARY WEISENTHAL	USA	2008	9:04.31	TOM LANE	USA	1994
3:15.35	ALDO CAPUTI	ITA	2010				
3:19.14	TOM LANE	USA	1992				
3:19.24	JARING TIMMERMAN	CAN	2005				
200 M. BACK							
5:24.20	HORVATH BANKI	HUN	2015				
5:30.07	TOSHIJI SATO	JPN	2010				
6:00.99	JEAN LEEMPUT	FRA	2011				
6:10.65	JOHN HARRISON	GBR	2010				
6:38.69	GARY WEISENTHAL	USA	2008				
8:19.55	ALFREDO CHERCHI	AUS	2002				
8:23.02	JACK MATHESON	AUS	2012				
50 M. BRST							
1:10.01	GEORGE CORONES	AUS	2013				
1:10.83	HIROMU YOSHIMOTO	JPN	2010				
1:16.52	ALFRED SCHULHOF	CAN	2014				
1:26.15	KAZUNAGA AKUTSU	JPN	2007				
1:26.61	GUS LANGNER	USA	1998				
1:29.09	B.BANKI-HORVATH	HUN	2016				
1:31.06	BUD JACKSON	USA	2014				
1:35.45	ROMAN JEZEK	CAN	2009				
1:35.94	ALDO CAPUTI	ITA	2010				
1:36.87	TOM LANE	USA	1989				
100 M. BRST							
2:40.08	HIROMU YOSHIMOTO	JPN	2010				
2:57.35	GEORGE CORONES	AUS	2013				
3:16.56	BUD JACKSON	USA	2014				
3:36.50	ROMAN JEZEK	CAN	2009				
3:37.59	B.BANKI-HORVATH	HUN	2015				
3:38.45	GUS LANGNER	USA	1998				
3:54.74	JACK MATHESON	AUS	2012				