



WOMEN 25-29

28.79	OLGA KLYUCHINKOVA	RUS	2014
28.92	DIANA MACMANUS	USA	2012
29.00	THERESE SVENDSEN	SWE	2016
29.20	AKIKO MIZUMOTO	JPN	2006
29.25	AYA SHIMODA	JPN	2010
29.46	RYO SAWADA	JPN	2013
29.51	LAUREN LAVIGNA	CAN	2014
29.53	ANE SASETA	ESP	2011
100 M. BACK			
00.63	YURIE OGA	JPN	2015
01.65	OLGA KLYUCHINKOVA	RUS	2014
02.32	AKIKO MIZUMOTO	JPN	2007
02.48	KANA OHASHI	JPN	2005
02.58	LAUREN LAVIGNA	CAN	2014
02.80	THERESE SVENDSEN	SWE	2016
02.89	ERIN CAMPBELL	USA	2014
02.99	ANE SASETA	ESP	2011
03.26	CAMILLA JOHANSSON	USA	2002
03.29	F.ALVARENGA	BRA	2012
200 M. BACK			
12.84	KANA OHASHI	JPN	2005
13.00	K.BARANOWSKA	GER	2015
14.77	LIA OBERSTAR	USA	2001
16.29	ERIN CAMPBELL	USA	2013
16.35	LAUREN LAVIGNA	CAN	2014
16.45	MARION ZOLLER	GER	1995
16.59	THERESE SVENDSEN	SWE	2016
17.86	JOLANDA DE ROVER	NED	1992
18.22	KELLY HARRIGAN	USA	2010
18.65	CAMILLA JOHANSSON	USA	2002
50 M. BRST			
30.50	PETRA CHOCOVA	CZE	2014
31.01	ANNA KUZMICHEVA	RUS	2015
31.59	NICOLE HEIDEMANN	GER	2011
31.87	MEGAN JENDRICK	USA	2010
31.92	SUVI PULKKINEN	FIN	2015
31.95	YOSHIMI MIWA	JPN	2012
32.11	RACHAEL WILSON	GBR	2016
32.20	TRACEY MIRANDE	USA	1995
32.25	GEORGINA HEYN	GBR	2011
32.25	CELINE BAILLOD	SUI	2007
100 M. BRST			
06.83	PETRA CHOCOVA	CZE	2014
08.67	RACHAEL WILSON	GBR	2016
09.38	GEORGINA HEYN	GBR	2011
09.40	ANNA KUZMICHEVA	RUS	2016
09.80	LINDA LUND	DEN	2009
10.04	MEGAN JENDRICK	USA	2012
10.17	KATIE HENDERSON	GBR	2009
10.55	HITOMI MATSUDA	JPN	2005
10.65	NICOLE HEIDEMANN	GER	2011
10.68	JULIA VENDEVILLE	FRA	2009
200 M. BRST			
29.80	MEGAN JENDRICK	USA	2012
30.29	KATIE HENDERSON	GBR	2009
30.52	PETRA CHOCOVA	CZE	2015
31.18	HITOMI MATSUDA	JPN	2006
31.44	GEORGINA HEYN	GBR	2011
32.73	RILEY WEST	CAN	2004
33.67	NICOLE HEIDEMANN	GER	2011
34.41	LORELLE MCLEISH	AUS	2015
35.66	ANDREA PACKARD	USA	2001
36.78	CAMILLE MARCHAND	FRA	2016
50 M. FLY			
26.31	CLAIRE DONAHUE	USA	2015
27.08	NADINE JONES	AUS	2014
27.14	MOTOMI NAKAMURA	JPN	2013
27.20	AMY SMITH	GBR	2013
27.29	YUKO NAKANISHI	JPN	2010
27.41	ANNA POLYAKOVA	RUS	2015
27.42	ELZANNE WERTH	RSA	2014
27.48	EMMA GAGE	GBR	2011

:58.11	CLAIRE DONAHUE	USA	2015
:00.13	ANNA POLYAKOVA	RUS	2015
:00.18	YUKO NAKANISHI	JPN	2010
:00.24	EMMA GAGE	GBR	2015
:00.93	NADINE JONES	AUS	2014
:01.33	SHEILA TAORMINA	USA	1996
:01.37	A.CISNEROS	USA	2008
:01.46	HITOMI MATSUDA	JPN	2005
:01.54	JENNIFER THATER	GER	2016
:01.70	LINDA LUND	DEN	2009
200 M.	FLY		
:09.64	YUKO NAKANISHI	JPN	2015
:17.13	S. PALMER-WHITE	AUS	1991
:17.19	HITOMI MATSUDA	JPN	2006
:17.26	ANNA MARKOVA	RUS	2014
:17.30	ANNA POLYAKOVA	RUS	2015
:17.83	CLAIRE DONAHUE	USA	2015
:17.87	SABRINA MARZAHN	GER	2016
:18.79	T.BENISON	CAN	2016
:19.23	K.BARANOWSKA	GER	2015
:19.30	SANDRA TEMMERMAN	NED	2005
100 M.	I.M.		
:02.29	PETRA CHOCOVA	CZE	2014
:03.41	MEGAN JENDRICK	USA	2011
:03.67	HITOMI MATSUDA	JPN	2005
:03.72	AVA OHLGREN	ESP	2016
:04.06	ANNA KUZMICHEVA	RUS	2015
:04.23	OLGA KLYUCHINKOVA	RUS	2014
:04.25	HANNA ERIKSSON	SWE	2011
:04.36	LINDA LUND TIETZE	DEN	2010
:04.55	SVETLANA KARPEEVA	RUS	2013
:04.63	MIO HIRANO	JPN	2016
:04.63	GEORGINA HEYN	GBR	2011
200 M.	I.M.		
:17.17	HITOMI MATSUDA	JPN	2006
:17.35	ERIKO KATO	JPN	2009
:17.54	ANNA MARKOVA	RUS	2014
:19.48	CELINE BAILLOD	SUI	2007
:19.54	VERONICA BALSANO	BRA	2014
:20.34	AVA OHLGREN	ESP	2016
:20.88	MAGALI ROUSSEAU	FRA	2015
:21.70	MARION BLANCHARD	FRA	2011
:21.79	WENKE HANSEN	USA	1998
:21.82	FANNY LILLIESTROM	SWE	2014
400 M.	I.M.		
:44.98	K.BARANOWSKA	GER	2015
:52.13	HITOMI MATSUDA	JPN	2006
:52.81	ERIKO KATO	JPN	2009
:55.85	KANA OHASHI	JPN	2006
:56.01	CELINE BAILLOD	SUI	2008
:56.98	ALESSANDRA CORTES	BRA	1999
:57.78	VERONICA BALSANO	BRA	2016
:58.92	LOUISE STEVENSON	AUS	2009
:59.20	AVA OHLGREN	ESP	2016
:59.66	ANNA MARKOVA	RUS	2014

WOMEN 30-34			

50	M.	FREE	
25.17	S.KNYAGINIA	RUS	2014
25.57	SUMIKA KOMATSU	JPN	2009
25.64	METTE JACOBSEN	DEN	2006
25.66	TATIANA BARBOSA	BRA	2008
25.69	ERIKA ERNDL	USA	2012
25.77	HANNAH CALDAS	USA	2011
25.83	HITOMI MATSUDA	JPN	2010
25.84	EIDER FUENTES	ESP	2014
25.98	DIANE BUI DUYET	FRA	2011



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25.98	KATRINA RADKE	USA	2004	1:02.88	METTE JACOBSEN	DEN	2006	1:03.04	ANJA BEHA	GER	2005
100 M. FREE				1:03.36	K.PIPES-NEILSEN	USA	1996	200 M. FLY			
54.75	ERIKA ERNDL	USA	2012	1:03.81	KELLY HARRIGAN	USA	2014	2:13.09	HITOMI MATSUDA	JPN	2008
55.11	ALENA POPCHANKA	FRA	2009	1:04.03	J HUDGELL	NZL	1986	2:19.34	LAURA BIANZANI	ITA	2004
55.59	TATIANA BARBOSA	BRA	2008	1:04.16	D.GRANER-GALLAS	USA	1996	2:19.34	KATRINA RADKE	USA	2003
56.29	ARA BERGILLOS	USA	2016	1:04.30	DESIREE CAPPA	ITA	2016	2:19.64	K PIPES-NEILSEN	USA	1996
56.32	HANNAH CALDAS	USA	2011	1:04.30	CAMILLA JOHANSSON	SWE	2004	2:20.41	L. CARVALHO	AUS	2011
56.41	METTE JACOBSEN	DEN	2006	200 M. BACK				2:21.21	FLORENCE CIOTTI	ITA	2006
56.48	PASCALE VERBAUWEN	BEL	1993	2:11.86	KANA YAMAGUCHI	JPN	2012	2:21.88	RACHAEL KEIR	GBR	2016
56.49	HITOMI MATSUDA	JPN	2010	2:12.47	L.OBERSTAR-BROWN	USA	2008	2:22.78	SARA PAPINI	ITA	2016
57.02	PAULINE GOUWENS	NED	2016	2:13.51	K.PIPES-NEILSEN	USA	1996	2:23.00	ANTJE AUHL	GER	2009
57.13	GEORGINA HEYN	GBR	2016	2:17.33	ROBERTA IOPI	ITA	2016	2:23.60	LUCY LLOYD-ROACH	GBR	2014
200 M. FREE				2:17.93	RACHAEL KEIR	GBR	2016	100 M. I.M.			
2:02.60	HITOMI MATSUDA	JPN	2010	2:18.19	JOANNA CORBEN	GBR	2002	1:02.07	MARTINA MORAVCOVA	USA	2006
2:03.31	SOPHIE CASSON	GBR	2016	2:19.60	D.GRANER-GALLAS	USA	1996	1:02.52	ERIKA ERNDL	USA	2012
2:03.91	CAROLINE SAXBY	GBR	2013	2:19.66	JO SWATTON	GBR	2000	1:02.55	HITOMI MATSUDA	JPN	2010
2:04.64	K PIPES-NEILSEN	USA	1996	2:21.16	KELLY HARRIGAN	USA	2016	1:03.31	PETRA CHOCOVA	CZE	2016
2:04.98	LYNN MARSHALL	CAN	1991	2:21.41	VALERIE HADD	CAN	2009	1:04.07	GEORGINA HEYN	GBR	2016
2:05.19	RACHAEL KEIR	GBR	2016	50 M. BRST				1:04.30	ROSER VIVES	ESP	2014
2:05.94	BARBARA KEHBEIN	GER	2000	31.02	PETRA CHOCOVA	CZE	2016	1:04.44	NADINE ROLLAND	CAN	2005
2:06.24	J.RADECKE-NOBLE	USA	2014	31.12	BRITTA STEVENS	GER	2003	1:04.68	N.VINOKURENKOVA	RUS	2013
2:06.33	BROOKE BENNETT	USA	2012	31.35	NICOLE HEIDEMANN	GER	2015	1:04.75	KATY SEXTON	GBR	2014
2:06.39	KELLY HIGGINS	AUS	2011	31.71	HITOMI MATSUDA	JPN	2010	1:04.82	NORIKO INADA	USA	2011
2:06.39	LAUREN THIES	USA	2010	31.73	GEORGINA HEYN	GBR	2016	200 M. I.M.			
400 M. FREE				32.13	N.VINOKURENKOVA	RUS	2013	2:13.41	HITOMI MATSUDA	JPN	2009
4:15.04	SOPHIE CASSON	GBR	2015	32.17	HANNAH CALDAS	USA	2011	2:16.52	SOPHIE TURBAN	FRA	2016
4:17.82	DAWN HECKMAN	USA	2011	32.72	YUKO SAKAGUCHI	JPN	2010	2:17.01	N.VINOKURENKOVA	RUS	2014
4:18.86	HITOMI MATSUDA	JPN	2010	32.82	WENKE HANSEN	USA	2000	2:18.79	K.PIPES-NEILSEN	USA	1996
4:20.26	BROOKE BENNETT	USA	2012	32.95	MARIONA COSTA	ESP	2010	2:18.89	WENKE HANSEN	USA	2000
4:21.80	CAROLINE SAXBY	GBR	2013	100 M. BRST				2:19.07	KANA YAMAGUCHI	JPN	2010
4:22.70	K PIPES-NEILSEN	USA	1996	1:06.98	HITOMI MATSUDA	JPN	2010	2:22.66	CYNTHIA LEWIS	USA	2009
4:22.75	YWETTA HLAVACOVA	CZE	2006	1:08.46	PETRA CHOCOVA	CZE	2016	2:22.68	LAUREN THIES	USA	2010
4:22.77	ERIKA HANSEN	USA	2003	1:09.25	NICOLE HEIDEMANN	GER	2016	2:22.72	KATRINA RADKE	USA	2003
4:25.56	KIRSTEN CAMERON	NZL	2007	1:09.48	GEORGINA HEYN	GBR	2016	2:22.73	KANA OHASHI	JPN	2009
4:26.43	KELLY HIGGINS	AUS	2011	1:09.58	N.VINOKURENKOVA	RUS	2013	400 M. I.M.			
800 M. FREE				1:10.00	WENKE HANSEN	USA	2000	4:45.07	HITOMI MATSUDA	JPN	2010
8:38.58	DAWN HECKMAN	USA	2011	1:11.33	SUSANNE HOCK	GER	2015	4:50.66	N.VINOKURENKOVA	RUS	2014
8:53.61	BROOKE BENNETT	USA	2012	1:11.49	MARIONA COSTA	ESP	2010	4:51.33	HIDEKO HIRANAKA	JPN	2004
8:54.86	HITOMI MATSUDA	JPN	2010	1:11.74	YUKO SAKAGUCHI	JPN	2010	4:53.85	K PIPES-NEILSEN	USA	1996
9:01.21	KIRSTEN CAMERON	NZL	2007	1:11.81	SUKI BROWNSDON	GBR	1995	4:55.62	KANA YAMAGUCHI	JPN	2010
9:06.49	ERIKA HANSEN	USA	2003	200 M. BRST				4:58.16	KANA OHASHI	JPN	2009
9:08.32	LYNN MARSHALL	CAN	1993	2:26.96	HITOMI MATSUDA	JPN	2009	5:04.56	BARBARA KEHBEIN	GER	2000
9:08.34	K.PIPES-NEILSEN	USA	1996	2:30.65	WENKE HANSEN	USA	2000	5:05.92	ANNE VELEZ	FRA	2011
9:11.69	RACHAEL KEIR	GBR	2016	2:32.78	NICOLE HEIDEMANN	GER	2016	5:06.05	SUKI BROWNSDON	GBR	1997
9:14.03	ASA NEIJ	SWE	2004	2:33.57	N.VINOKURENKOVA	RUS	2014	5:07.17	CYNTHIA LEWIS	USA	2009
9:16.65	KELLY HIGGINS	AUS	2011	2:33.94	PETRA CHOCOVA	CZE	2016	*****			
1500 M. FREE				2:35.60	ULRIKE GERNER	GER	2013	WOMEN 35-39			
16:26.93	DAWN HECKMAN	USA	2011	2:35.72	KATIE HENDERSON	GBR	2011	*****			
17:01.56	KIRSTEN CAMERON	NZL	2007	2:36.13	GEORGINA HEYN	GBR	2014	50 M. FREE			
17:13.38	HITOMI MATSUDA	JPN	2007	2:37.34	A.JANITZKI	GER	2010	25.10	DARA TORRES	USA	2006
17:21.99	LYNN MARSHALL	CAN	1992	2:37.60	MARIONA COSTA	ESP	2010	25.82	SANDRA KAZIKOVA	CZE	2011
17:23.60	KAREN BURTON	USA	1994	50 M. FLY				25.91	OLESYA BOUROVA	ITA	2015
17:25.33	BROOKE BENNETT	USA	2011	26.79	MARTINA MORAVCOVA	USA	2006	25.93	JOHANNA SJOBERG	SWE	2016
17:33.66	KELLY HIGGINS	AUS	2011	27.08	YUKA KATO	JPN	2016	26.05	M.VALKO	USA	2011
17:44.19	ALISON ZAMANIAN	USA	2004	27.08	S.KNYAGINIA	RUS	2014	26.13	S.NEILSON-BELL	USA	1995
17:46.97	JACQUI ROBINSON	AUS	2005	27.30	IRINA SHLEMOVA	RUS	2016	26.22	LAURA ROCA	ESP	2016
17:48.12	CYNTHIA LEWIS	USA	2009	27.81	METTE JACOBSEN	DEN	2006	26.27	NORIKO INADA	USA	2014
50 M. BACK				27.89	NORIKO INADA	USA	2011	26.33	OLESSIA BOUROVA	ITA	2016
27.43	MAI NAKAMURA	JPN	2009	27.95	PAULINE GOUWENS	NED	2015	26.33	ZOE CRAY	GBR	2010
27.61	NORIKO INADA	USA	2009	27.97	NADINE ROLLAND	CAN	2008	100 M. FREE			
28.95	CARLA STAMPFLI	SUI	2016	28.05	KATRINA RADKE	USA	2004	54.95	DARA TORRES	USA	2006
28.99	METTE JACOBSEN	DEN	2006	28.16	HITOMI MATSUDA	JPN	2010	57.12	LAURA ROCA	ESP	2015
29.28	ALENA NYVITOVA	CZE	2013	100 M. FLY				57.48	ZOE CRAY	GBR	2010
29.44	NADINE ROLLAND	CAN	2005	59.11	MARTINA MORAVCOVA	USA	2006	57.60	HITOMI MATSUDA	JPN	2014
29.47	KATY SEXTON	GBR	2016	59.82	ANNA POLYAKOVA	RUS	2016	57.65	K PIPES-NEILSEN	USA	2000
29.53	KANA YAMAGUCHI	JPN	2012	1:00.11	METTE JACOBSEN	DEN	2006	57.79	KARIN SEICK	GER	1996
29.58	KANA OHASHI	JPN	2009	1:00.34	ERIKA ERNDL	USA	2012	57.94	R.CRESCENTINI	ITA	2014
30.03	KATIE BIRCHALL	GBR	2012	1:00.35	HITOMI MATSUDA	JPN	2008	58.09	SHERI HART	USA	2008
100 M. BACK				1:01.19	CLAUDIA BECK	GER	2011	58.13	ERIKA BRAUN	USA	2011
59.53	NORIKO INADA	USA	2009	1:02.39	NADINE ROLLAND	CAN	2005	58.36	OLESYA BOUROVA	ITA	2015
1:00.90	KANA YAMAGUCHI	JPN	2010	1:02.65	BERIT PUGGAARD	DEN	2004	200 M. FREE			
1:02.23	CARLA STAMPFLI	SUI	2016	1:02.70	WENKE HANSEN	USA	2000				



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2:03.12	HITOMI MATSUDA	JPN	2012	2:22.03	HITOMI MATSUDA	JPN	2012	1:03.17	HITOMI MATSUDA	JPN	2012
2:03.56	K PIPES-NEILSEN	USA	1997	2:22.08	CINDY MABEE	CAN	2008	1:04.61	SHERI HART	USA	2009
2:04.92	LAURA ROCA	ESP	2015	2:22.62	NORIKO INADA	USA	2015	1:05.13	LAURA ROCA	ESP	2015
2:05.70	KIRSTEN CAMERON	NZL	2010	2:22.82	DAPHNE FUCHS	GER	1998	1:05.40	K PIPES-NEILSEN	USA	2000
2:06.18	LAUREEN WELTING	USA	2000	50 M. BRST				1:05.53	ZOE CRAY	GBR	2009
2:06.86	JILL HERNANDEZ	USA	1999	31.87	HITOMI MATSUDA	JPN	2012	1:06.10	R.CRESCENTINI	ITA	2011
2:06.96	D GRANER GALLAS	USA	1999	32.13	LINLEY FRAME	AUS	2010	1:06.34	KATIE GLENN	USA	2015
2:06.99	VALERIA VERGANI	ITA	2006	32.35	R.CRESCENTINI	ITA	2012	1:06.34	CYNTHIA LEWIS	USA	2012
2:07.15	CINDY BERTELINK	CAN	2013	32.48	KATIE GLENN	USA	2015	1:06.43	KANA OHASHI	JPN	2013
2:07.36	MELANIA BUSSIÈRE	CAN	2008	32.89	ANNA-KARIN LUNDIN	SWE	2011	1:06.50	SILVIA PAROCCHI	ITA	2005
400 M. FREE				32.94	LAURA ROCA	ESP	2016	200 M. I.M.			
4:22.56	K PIPES-NEILSEN	USA	1999	33.03	CAROLINE KRATTLI	USA	2000	2:17.69	HITOMI MATSUDA	JPN	2012
4:24.56	LAUREEN WELTING	USA	2000	33.06	CYNTHIA LEWIS	USA	2014	2:19.08	K PIPES-NEILSEN	USA	2000
4:25.52	CINDY BERTELINK	CAN	2013	33.14	KELLY LEGASPI	USA	2009	2:20.99	LAURA ROCA	ESP	2016
4:26.00	HITOMI MATSUDA	JPN	2012	33.64	MALIN BORENSJO	SWE	2016	2:22.19	CYNTHIA LEWIS	USA	2014
4:26.57	JILL HERNANDEZ	USA	1999	100 M. BRST				2:22.54	KANA OHASHI	JPN	2013
4:27.62	VALERIA VERGANI	ITA	2006	1:09.20	HITOMI MATSUDA	JPN	2012	2:23.47	DEBBIE YOUNGER	CAN	2005
4:28.14	CYNTHIA LEWIS	USA	2014	1:09.41	CYNTHIA LEWIS	USA	2014	2:24.60	CINDY BERTELINK	CAN	2013
4:29.09	PENNY BOND	AUS	1999	1:10.59	KATIE GLENN	USA	2015	2:24.67	C.J-SPONSELLER	SWE	2012
4:29.30	KIRSTEN CAMERON	NZL	2010	1:10.65	LINLEY FRAME	AUS	2010	2:24.94	NADINE DAY	USA	2005
4:29.71	ASA NEIJ	SWE	2008	1:11.97	CAROLINE KRATTLI	USA	2000	2:25.26	KARIN SEICK	GER	1996
800 M. FREE				1:12.13	ANNA-KARIN LUNDIN	SWE	2012	400 M. I.M.			
8:57.30	KIRSTEN CAMERON	NZL	2010	1:12.30	R.CRESCENTINI	ITA	2011	4:52.83	K PIPES-NEILSEN	USA	1997
8:57.60	HEIDI GEORGE	USA	2015	1:12.79	SATSUKI HIRUKAWA	JPN	2015	4:55.84	HITOMI MATSUDA	JPN	2012
9:02.52	HITOMI MATSUDA	JPN	2012	1:12.95	LAURA ROCA	ESP	2015	5:01.26	KANA OHASHI	JPN	2013
9:12.97	ALISON ZAMANIAN	USA	2006	1:13.08	KELLY LEGASPI	USA	2009	5:02.22	LAUREEN WELTING	USA	2000
9:13.05	ASA NEIJ	SWE	2008	200 M. BRST				5:07.20	CAROLINA BENEYTO	ESP	2015
9:14.27	LAURIE HUG	USA	2000	2:30.63	HITOMI MATSUDA	JPN	2012	5:08.03	CYNTHIA LEWIS	USA	2011
9:14.92	KRISTINA ULVELING	USA	2008	2:33.73	CYNTHIA LEWIS	USA	2014	5:09.04	CINDY BERTELINK	CAN	2013
9:15.40	K PIPES-NEILSEN	USA	1998	2:36.04	CAROLINE KRATTLI	USA	2000	5:09.87	NADINE DAY	USA	2006
9:17.93	PENNY BOND	AUS	1997	2:36.84	YUKO MORITA	JPN	2012	5:10.43	JILL HERNANDEZ	USA	1999
9:19.78	CAROLINA BENEYTO	ESP	2015	2:37.13	KATIE GLENN	USA	2015	5:10.65	ANA PAULA GRILLO	POR	2005
1500 M. FREE				2:37.21	CAROLINA BENEYTO	ESP	2015				
16:52.94	HEIDI GEORGE	USA	2015	2:39.04	ANNA-KARIN LUNDIN	SWE	2011	*****			
17:07.48	KIRSTEN CAMERON	NZL	2010	2:41.19	SATSUKI HIRUKAWA	JPN	2015	WOMEN 40-44			
17:27.84	LAURIE HUG	USA	2000	2:41.24	KAREN KEY	GBR	2011	*****			
17:30.90	HITOMI MATSUDA	JPN	2014	2:42.22	YUKA KAWAI	JPN	2011	50 M. FREE			
17:35.69	PENNY BOND	AUS	1997	50 M. FLY				26.02	ERIKA BRAUN	USA	2014
17:36.24	K PIPES-NEILSEN	USA	1999	27.45	NORIKO INADA	USA	2015	26.40	MARIKA JOHANSSON	SWE	2008
17:36.58	KRISTINA ULVELING	USA	2008	27.83	JOHANNA SJOBERG	SWE	2016	26.50	LISA BLACKBURN	USA	2015
17:42.37	ASA NEIJ	SWE	2010	28.28	R.CRESCENTINI	ITA	2013	26.60	SANDRA KAZIKOVA	CZE	2016
17:43.10	BETH KNIGHT	USA	1994	28.30	GABRIELA KOSTKOVA	CZE	2014	26.66	S.NEILSON-BELL	USA	1996
17:46.79	VALERIA VERGANI	ITA	2008	28.37	GISELI PEREIRA	BRA	2009	26.67	EDITH OTTERMANN	RSA	2007
50 M. BACK				28.55	MALIN BORENSJO	SWE	2016	26.70	S. VON DER LIPPE	USA	2008
27.63	NORIKO INADA	USA	2016	28.58	HITOMI MATSUDA	JPN	2013	26.70	GIOVANNI MORELLI	SUI	2007
28.68	SHERI HART	USA	2009	28.58	SHERI HART	USA	2009	26.75	JUNKO NAKANO	JPN	2010
29.00	GISELI PEREIRA	BRA	2009	28.60	YOKO YAMAGUCHI	JPN	2009	26.83	F.TRAVAGLINI	ITA	2016
29.34	ZOE CRAY	GBR	2009	28.61	YAYOI SAKAMOTO	JPN	2013	100 M. FREE			
29.84	KANA OHASHI	JPN	2013	28.61	SANDRA KAZIKOVA	CZE	2011	57.08	ERIKA BRAUN	USA	2014
29.91	CINDY MABEE	CAN	2008	100 M. FLY				57.20	LISA BLACKBURN	USA	2015
30.17	RAQUEL GIL	ESP	2016	1:01.88	HITOMI MATSUDA	JPN	2014	57.55	S.VON DER LIPPE	USA	2008
30.26	FLORENCE RIERA	FRA	2016	1:01.96	DIANE BUI DUYET	FRA	2015	57.60	K PIPES-NEILSEN	USA	2003
30.40	NAHOMI SHIRATA	JPN	2011	1:03.07	DEBBIE YOUNGER	CAN	2005	58.54	RAAKEL LUOTO	FIN	2015
30.67	C.J-SPONSELLER	SWE	2012	1:03.29	K PIPES-NEILSEN	USA	1997	58.61	F.TRAVAGLINI	ITA	2016
100 M. BACK				1:03.32	MABI TSUKIOKA	JPN	2014	58.81	JILL HERNANDEZ	USA	2000
1:00.56	NORIKO INADA	USA	2015	1:03.76	JUNKO ONISHI	JPN	2012	59.14	JENNIE BUCKNELL	AUS	2010
1:02.36	SHERI HART	USA	2009	1:03.96	SOPHIA SKOU	DEN	2011	59.26	CINDY BERTELINK	CAN	2016
1:02.81	KANA OHASHI	JPN	2013	1:04.01	KYOKO YAMADA	JPN	2009	59.37	ANNA HAMMAR	SWE	2012
1:03.11	GISELI PEREIRA	BRA	2009	1:04.09	MELANIA BUSSIÈRE	CAN	2008	200 M. FREE			
1:03.38	ZOE CRAY	GBR	2009	1:04.18	R.CRESCENTINI	ITA	2013	2:05.26	K PIPES-NEILSEN	USA	2003
1:03.56	K PIPES-NEILSEN	USA	1997	200 M. FLY				2:05.55	S.VON DER LIPPE	USA	2008
1:04.61	CINDY MABEE	CAN	2008	2:16.67	HITOMI MATSUDA	JPN	2012	2:05.90	CINDY BERTELINK	CAN	2016
1:05.03	C.J-SPONSELLER	SWE	2011	2:18.41	K PIPES-NEILSEN	USA	1997	2:06.81	JILL HERNANDEZ	USA	2000
1:05.42	KANA MORIHISA	JPN	2016	2:21.18	KYOKO YAMADA	JPN	2010	2:07.64	KIRSTEN CAMERON	GBR	2014
1:05.46	FLORENCE RIERA	FRA	2016	2:21.76	DEBBIE YOUNGER	CAN	2005	2:08.30	VALERIA VERGANI	ITA	2013
200 M. BACK				2:22.52	ILDKO SZEKELY	USA	2014	2:09.10	BIRGIT LOHBERG	USA	2009
2:13.37	KANA OHASHI	JPN	2013	2:23.89	L. CARVALHO	AUS	2015	2:09.23	CYNTHIA LEWIS	USA	2015
2:14.10	K PIPES-NEILSEN	USA	1997	2:24.80	KATE VEALE	GBR	2002	2:09.32	BARBARA KEHBEIN	GER	2013
2:14.49	GISELI PEREIRA	BRA	2009	2:25.06	JILL HERNANDEZ	USA	1997	2:09.53	BETH KNIGHT	USA	1999
2:17.61	C.J-SPONSELLER	SWE	2012	2:25.52	NADINE DAY	USA	2006	400 M. FREE			
2:19.82	JOANNA CORBEN	GBR	2006	2:25.81	ALISON ZAMANIAN	USA	2009	4:21.75	K PIPES-NEILSEN	USA	2003
2:20.81	KANA MORIHISA	JPN	2016	100 M. I.M.				4:24.22	JILL HERNANDEZ	USA	2000

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9:27.44 SUZANN HEIM-BOWEN USA 2004	200 M. BRST	5:20.17 ALISON ZAMANIAN USA 2016
9:35.81 CLAUDIA KERN GER 2009	2:37.19 MARZENA KULIS ITA 2009	5:21.74 NICOLA LATTY GBR 2016
9:40.50 MARGEE CURRAN USA 2007	2:38.00 S.VON DER LIPPE USA 2010	5:22.81 FRANCA BOSISIO ITA 2014
9:40.69 SUSANNE SIMPSON USA 2008	2:42.10 CAROLINE KRATTLI USA 2007	5:23.42 BARBARA KEHBEIN GER 2016
9:41.99 BARBARA GELLRICH GER 2007	2:44.60 H.MORRIS-EYTON RSA 2012	5:27.12 LISA WARD USA 2009
9:43.60 STEPHANIE STONE USA 2015	2:47.91 K.PIPES-NEILSEN FRA 2009	*****
1500 M. FREE	2:48.38 JENNY WHITELEY AUS 2003	WOMEN 50-54
17:22.01 ALISON ZAMANIAN USA 2015	2:48.56 JUDIT HAIDU AUT 2007	*****
17:46.32 LYNN MARSHALL CAN 2007	2:49.13 LAUREL HILL USA 2016	50 M. FREE
17:50.64 SUZANN HEIM-BOWEN USA 2004	2:49.50 MONICA CORO ITA 2007	26.27 MARIE FUZZATI FRA 2015
17:57.50 VALERIA VERGANI ITA 2016	2:49.55 LORRAINE WHEATLEY GBR 2013	26.87 ANETTE PHILIPSSON SWE 2015
18:23.90 LAURIE HUG USA 2011	50 M. FLY	27.50 JENNIE BUCKNELL AUS 2016
18:34.32 NORMA CAHILL IRL 2011	28.72 S.VON DER LIPPE USA 2010	27.67 MARIA NORBERG SWE 2014
18:34.95 SUSANNA ROSEN SWE 2009	29.08 WENKE SEIDER USA 2014	27.67 SUE WALSH USA 2014
18:38.83 ANDREA BLOCK USA 2009	29.10 HAYLEY BETTINSON GBR 2009	27.73 LESLIE LIVINGSTON USA 2015
18:40.49 SUSANNE SIMPSON USA 2008	29.21 LAURIE DITOMMASO USA 2008	27.81 SARAH MACDONALD CAN 2011
18:41.77 M.ELIAS-WILLIAMS USA 2009	29.27 SUSAN WILLIAMS USA 2013	27.88 EDITH OTTERMANN RSA 2016
50 M. BACK	29.37 EDITH OTTERMANN RSA 2011	28.00 HAYLEY BETTINSON GBR 2013
30.25 CINDY MABEE CAN 2014	29.40 K.PIPES-NEILSEN FRA 2009	28.00 JENNY WHITELEY AUS 2009
30.58 K.PIPES-NEILSEN USA 2007	29.65 MONICA SORO ITA 2015	100 M. FREE
30.70 SUSAN WILLIAMS USA 2013	29.69 LESLIE LIVINGSTON USA 2009	58.60 MARIE FUZZATI FRA 2015
30.84 ANDREA KUTZ GER 2016	29.71 SHIZUKO HIRAISHI JPN 2009	1:00.15 JENNIE BUCKNELL AUS 2016
31.12 FALL WILLEBOORDSE USA 2012	100 M. FLY	1:00.80 ANETTE PHILIPSSON SWE 2015
31.14 LESLIE LIVINGSTON USA 2010	1:03.47 S.VON DER LIPPE USA 2010	1:01.41 ELLEN REYNOLDS USA 2014
31.15 ELLEN REYNOLDS USA 2011	1:03.96 K.PIPES-NEILSEN USA 2009	1:01.49 LAURA VAL USA 2001
31.24 FRANCA BOSISIO ITA 2014	1:04.38 WENKE SEIDER USA 2014	1:01.52 DANIELA DE PONTI ITA 2016
31.25 MONICA SORO ITA 2015	1:05.83 MONICA SORO ITA 2016	1:01.64 JENNY WHITELEY AUS 2009
31.26 SYLVIE ALLERY FRA 2014	1:06.05 BARBARA KEHBEIN GER 2015	1:01.81 SARAH MACDONALD CAN 2011
100 M. BACK	1:06.28 FRANCA BOSISIO ITA 2015	1:01.90 JILL HERNANDEZ USA 2013
1:04.46 K.PIPES-NEILSEN FRA 2009	1:06.69 FALL WILLEBOORDSE USA 2011	1:01.90 K PIPES-NEILSEN FRA 2012
1:04.49 CINDY MABEE CAN 2014	1:06.73 DANIELA DE PONTI ITA 2014	200 M. FREE
1:05.51 ELLEN REYNOLDS USA 2012	1:06.75 SHIZUKO HIRAISHI JPN 2008	2:10.72 S.HEIM-BOWEN USA 2009
1:07.27 JOANNA CORBEN GBR 2015	1:06.84 SILVIA PAROCCHI ITA 2012	2:11.34 MARIE FUZZATI FRA 2015
1:07.41 SUSAN WILLIAMS USA 2011	200 M. FLY	2:11.63 ELLEN REYNOLDS USA 2016
1:07.60 SYLVIE ALLERY FRA 2015	2:23.18 K.PIPES-NEILSEN USA 2009	2:11.86 LIZ DILLMANN USA 2015
1:07.86 SILVIA PAROCCHI ITA 2013	2:24.08 S.VON DER LIPPE USA 2010	2:12.80 JILL HERNANDEZ USA 2013
1:07.94 FALL WILLEBOORDSE USA 2014	2:26.31 S. PALMER-WHITE AUS 2009	2:13.21 LYNN MARSHALL CAN 2011
1:08.49 ANNA HAMMAR SWE 2013	2:26.45 BARBARA KEHBEIN GER 2014	2:13.58 K.PIPES-NEILSEN USA 2012
1:08.98 MARIE FUZZATI FRA 2014	2:28.26 LYNN MARSHALL CAN 2006	2:14.49 JENNY WHITELEY AUS 2009
200 M. BACK	2:29.23 FRANCA BOSISIO ITA 2015	2:14.50 DANIELA DE PONTI ITA 2016
2:18.15 K.PIPES-NEILSEN FRA 2009	2:29.32 SUZANNE SIMPSON USA 2005	2:14.66 LAURA VAL USA 2003
2:20.17 JOANNA CORBEN GBR 2016	2:30.44 ARLENE DELMAGE USA 2008	400 M. FREE
2:22.00 ELLEN REYNOLDS USA 2012	2:32.09 SHIZUKO HIRAISHI JPN 2010	4:34.81 LYNN MARSHALL CAN 2011
2:23.92 CINDY MABEE CAN 2016	2:32.40 BIRGIT LOHBERG USA 2012	4:35.54 S.HEIM-BOWEN USA 2009
2:25.52 STEPHANIE STONE USA 2014	100 M. I.M.	4:35.80 JILL HERNANDEZ USA 2013
2:26.57 SILVIA PAROCCHI ITA 2011	1:05.61 K.PIPES-NEILSEN FRA 2009	4:40.46 ELLEN REYNOLDS USA 2016
2:28.11 LISA WARD USA 2009	1:05.88 LISA BLACKBURN USA 2016	4:43.61 JENNY WHITELEY AUS 2008
2:28.12 HELEN WHITFORD AUS 2014	1:06.58 S.VON DER LIPPE USA 2010	4:45.72 LAURA VAL USA 2003
2:31.42 LYNN MARSHALL CAN 2006	1:06.88 ANNA HAMMAR SWE 2013	4:45.95 NORMA CAHILL IRL 2016
2:31.49 SYLVIE ALLERY FRA 2015	1:07.98 MONICA SORO ITA 2015	4:45.96 MAITE GARCIA ESP 2016
50 M. BRST	1:08.08 FALL WILLEBOORDSE USA 2015	4:46.36 BARBARA GELLRICH GER 2011
33.56 MARZENA KULIS ITA 2009	1:08.54 ANETTE PHILIPSSON SWE 2012	4:46.38 C.PETERSEN USA 2016
33.81 ANNA HAMMAR SWE 2013	1:08.59 CAROLINE KRATTLI USA 2007	800 M. FREE
33.82 S.VON DER LIPPE USA 2010	1:08.81 SARAH MACDONALD CAN 2009	9:23.45 LYNN MARSHALL CAN 2011
33.94 CAROLINE KRATTLI USA 2007	1:08.85 MARZENA KULIS ITA 2009	9:29.62 S.HEIM-BOWEN USA 2009
34.15 TRACEY MCFARLANE USA 2012	200 M. I.M.	9:30.83 JILL HERNANDEZ USA 2013
34.20 LISA BLACKBURN USA 2016	2:21.55 K.PIPES-NEILSEN USA 2009	9:35.39 ELLEN REYNOLDS USA 2014
34.36 ALISON NYE GBR 2002	2:24.33 WENKE SEIDER USA 2014	9:44.40 JANE ANN HOAG ITA 2016
34.60 SWICZINSKY-KORDES GER 2001	2:26.26 ELLEN REYNOLDS USA 2012	9:45.02 NORMA CAHILL IRL 2016
34.64 MAGGIE KELLY GBR 2001	2:27.02 ANNA HAMMAR SWE 2014	9:45.13 BARBARA GELLRICH GER 2012
34.70 JUDY GARAY CAN 2005	2:29.40 MARZENA KULIS ITA 2009	9:47.94 K.PALACE USA 2011
100 M. BRST	2:29.69 CAROLINE KRATTLI USA 2007	9:49.92 JEANNE CARLSEN CAN 2009
1:11.78 MARZENA KULIS ITA 2009	2:30.10 BARBARA KEHBEIN GER 2014	9:50.25 ILKA LOWENSTEYN CAN 2015
1:12.64 ANNA HAMMAR SWE 2013	2:30.11 SILVIA PAROCCHI ITA 2011	1500 M. FREE
1:13.30 S.VON DER LIPPE USA 2010	2:30.44 ANETTE PHILIPSSON SWE 2012	17:49.23 LYNN MARSHALL CAN 2013
1:13.38 CAROLINE KRATTLI USA 2007	2:30.79 CINDY MABEE CAN 2016	17:51.33 S.HEIM-BOWEN USA 2009
1:13.55 LISA BLACKBURN USA 2016	400 M. I.M.	18:25.23 NORMA CAHILL IRL 2015
1:13.98 WENKE SEIDER USA 2014	5:00.29 K.PIPES-NEILSEN FRA 2009	18:38.58 JEANNE CARLSEN CAN 2009
1:15.86 MONICA CORO ITA 2007	5:17.29 ELLEN REYNOLDS USA 2011	18:44.66 C.PETERSEN USA 2016
1:16.06 K.PIPES-NEILSEN USA 2007	5:17.54 STEPHANIE STONE USA 2014	18:49.27 ILKA LOWENSTEYN CAN 2015
1:16.52 SABINA VITALONI ITA 2015	5:19.13 LYNN MARSHALL CAN 2006	18:52.34 ENEY JONES USA 2011
1:16.90 DEIRDRE MORRIS IRL 2016	5:19.58 VIBEKE SWANSON USA 2006	



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18:54.06	JANE ANN HOAG	ITA	2016	29.65	SUSAN WILLIAMS	USA	2016	28.58	JACKI HIRSTY	USA	2009
18:56.50	K.PALACE	USA	2011	30.06	MARIE FUZZATI	FRA	2016	28.64	CHRIS WENZEL	USA	2014
18:59.17	LAURA VAL	USA	2002	30.06	DANIELA DE PONTI	ITA	2016	28.77	JENNY WHITELEY	AUS	2013
50 M. BACK				30.13	ANETTE PHILIPSSON	SWE	2016	28.81	BETH LUTZ KNIGHT	USA	2015
30.27	LESLIE LIVINGSTON	USA	2015	30.33	MARIA NORBERG	SWE	2015	28.99	KRISTIN HENDERSON	USA	2015
31.15	MARIE FUZZATI	FRA	2015	30.38	ANGELA ZINGLER	GER	2005	29.05	PAT SARGEANT	USA	2008
32.13	K.ANDRUS-HUGHES	USA	2008	30.56	MARY ESTABROOK	USA	2011	29.16	REGULA STEIGER	SUI	2008
32.17	SUSAN WILLIAMS	USA	2016	30.60	TRACI GRANGER	USA	2008	100 M. FREE			
32.35	JENNIE BUCKNELL	AUS	2016	30.62	HARUMI SUGINUMA	JPN	2009	1:01.33	LAURA VAL	USA	2009
32.35	K PIPES-NEILSEN	FRA	2012	100 M. FLY				1:01.84	SARAH MACDONALD	CAN	2015
32.37	HIROKO NOGUCHI	JPN	2016	1:06.88	DANIELA DE PONTI	ITA	2016	1:02.75	HEATHER CAMPBELL	NZL	2008
32.44	CAROLINE LINDBORG	SWE	2016	1:06.92	K PIPES-NEILSEN	FRA	2012	1:03.94	MA CARMEN NAVARRO	ESP	2016
32.44	SILVIA PAROCCHI	ITA	2016	1:07.73	SILVIA PAROCCHI	ITA	2016	1:04.08	LYNN MARSHALL	CAN	2016
32.55	J SWAGERTY-HILL	USA	2002	1:08.50	JUDITH HATTLE	GBR	2010	1:04.14	BARBARA GELLRICH	GER	2016
100 M. BACK				1:08.62	ANDREA BLOCK	USA	2011	1:04.18	BETH LUTZ KNIGHT	USA	2015
1:05.89	ELLEN REYNOLDS	USA	2014	1:08.64	ANETTE PHILIPSSON	SWE	2016	1:04.34	JENNY WHITELEY	AUS	2015
1:06.97	MARIE FUZZATI	FRA	2016	1:08.91	JILL HERNANDEZ	USA	2013	1:04.60	VERONICA HIBBEN	USA	2013
1:08.12	K PIPES-NEILSEN	FRA	2012	1:09.05	LAURA VAL	USA	2001	1:04.77	PAT SARGEANT	USA	2008
1:08.85	LESLIE LIVINGSTON	USA	2012	1:09.22	MAITE GARCIA	ESP	2016	200 M. FREE			
1:08.91	SILVIA PAROCCHI	ITA	2016	1:09.28	ILKA LOWENSTEYN	CAN	2015	2:13.58	LYNN MARSHALL	CAN	2016
1:10.21	LYNN MARSHALL	CAN	2011	200 M. FLY				2:14.45	LAURA VAL	USA	2009
1:10.35	K.ANDRUS-HUGHES	USA	2007	2:28.08	LYNN MARSHALL	CAN	2011	2:18.32	K.PALACE	USA	2016
1:10.45	MIKI NAMAI	JPN	2016	2:31.06	ILKA LOWENSTEYN	CAN	2015	2:18.37	BARBARA GELLRICH	GER	2016
1:10.51	L.PELT-DILLER	USA	2008	2:31.17	DANIELA DE PONTI	ITA	2016	2:19.23	JENNY WHITELEY	AUS	2015
1:11.05	CAROLINE LINDBORG	SWE	2016	2:32.29	KARLYN PIPES	USA	2012	2:19.65	SARAH MACDONALD	CAN	2015
200 M. BACK				2:33.93	ANDREA BLOCK	USA	2011	2:20.20	MA CARMEN NAVARRO	ESP	2016
2:22.37	ELLEN REYNOLDS	USA	2014	2:34.79	JUDITH HATTLE	GBR	2010	2:20.33	BETH LUTZ KNIGHT	USA	2015
2:25.94	LYNN MARSHALL	CAN	2011	2:35.36	JILL HERNANDEZ	USA	2013	2:22.17	REBECCA PERROTT	NZL	2016
2:26.85	K PIPES-NEILSEN	FRA	2012	2:35.49	S. PALMER-WHITE	AUS	2016	2:22.25	SALLY WINTER	GBR	2015
2:27.99	SILVIA PAROCCHI	ITA	2016	2:38.19	JENNY WHITELEY	AUS	2009	400 M. FREE			
2:28.99	MARIE FUZZATI	FRA	2016	2:38.32	MAITE GARCIA	ESP	2015	4:37.35	LYNN MARSHALL	CAN	2016
2:32.48	NAOKO SHIDE	JPN	2010	100 M. I.M.				4:42.97	LAURA VAL	USA	2009
2:34.24	AHELEE SUE OSBORN	USA	2009	1:07.85	ANETTE PHILIPSSON	SWE	2015	4:53.27	N.STEADMAN-MARTIN	USA	2009
2:34.48	C.PETERSEN	USA	2016	1:08.28	K PIPES-NEILSEN	FRA	2012	4:54.30	JENNY WHITELEY	AUS	2016
2:34.69	L.PELT-DILLER	USA	2008	1:08.98	MARIE FUZZATI	FRA	2015	4:54.94	BARBARA GELLRICH	GER	2016
2:35.02	BRIGID BUNCH	USA	2013	1:09.22	JENNY WHITELEY	AUS	2009	4:56.22	K.PALACE	USA	2016
2:35.02	BONNIE BILICH	USA	2010	1:09.75	DANIELA DE PONTI	ITA	2016	4:57.59	SARAH MACDONALD	CAN	2015
50 M. BRST				1:09.97	SARAH MACDONALD	CAN	2011	4:59.10	ANDREA BLOCK	USA	2016
33.96	MONICA CORO	ITA	2013	1:10.32	SILVIA PAROCCHI	ITA	2016	4:59.70	BETH LUTZ KNIGHT	USA	2015
34.50	UTE HASSE	ESP	2015	1:10.46	ELLEN REYNOLDS	USA	2016	5:00.15	DYMPHNA MORRIS	IRL	2016
35.08	JENNY WHITELEY	AUS	2009	1:10.69	LESLIE LIVINGSTON	USA	2015	800 M. FREE			
35.15	JUDY GARAY	CAN	2014	1:11.00	SUSAN WILLIAMS	USA	2016	9:33.78	LYNN MARSHALL	CAN	2016
35.28	MARZENA KULIS	ITA	2016	200 M. I.M.				9:51.35	LAURA VAL	USA	2009
35.88	SARAH MACDONALD	CAN	2011	2:28.64	ELLEN REYNOLDS	USA	2014	10:03.33	K.PALACE	USA	2016
35.89	MARIOLA KULIS	POL	2016	2:30.63	KARLYN PIPES	USA	2012	10:09.29	BARBARA GELLRICH	GER	2016
36.29	TOSHIKO ITAGAKI	JPN	2014	2:30.98	JENNY WHITELEY	AUS	2009	10:12.79	JEANNE CARLSEN	CAN	2013
36.30	PIA THULSTRUP	DEN	2015	2:31.96	JILL HERNANDEZ	USA	2013	10:15.17	ANDREA BLOCK	USA	2016
36.31	CAROLINE KRATTLI	USA	2015	2:32.10	DANIELA DE PONTI	ITA	2016	10:17.05	DYMPHNA MORRIS	IRL	2016
100 M. BRST				2:32.45	ANETTE PHILIPSSON	SWE	2016	10:17.86	BARBARA DUNBAR	USA	2004
1:15.02	UTE HASSE	ESP	2015	2:33.09	LYNN MARSHALL	CAN	2011	10:19.39	KATHERINE BRANCH	USA	2012
1:15.22	MONICA CORO	ITA	2013	2:33.93	ILKA LOWENSTEYN	CAN	2015	10:19.65	MARGUERITE MEYER	USA	2014
1:15.86	MARZENA KULIS	ITA	2016	2:34.03	CECILLA STANFORD	RSA	2011	1500 M. FREE			
1:16.49	JENNY WHITELEY	AUS	2009	2:35.35	BARBARA GELLRICH	GER	2012	18:06.01	LYNN MARSHALL	CAN	2016
1:18.13	KATE SORENSEN	DEN	2011	400 M. I.M.				18:43.73	LAURA VAL	USA	2010
1:19.23	CORRIN POPPS	USA	2014	5:10.96	ELLEN REYNOLDS	USA	2014	19:00.59	K.PALACE	USA	2016
1:19.45	SARAH MACDONALD	CAN	2013	5:14.65	LYNN MARSHALL	CAN	2011	19:24.70	BARBARA DUNBAR	USA	2004
1:19.60	CAROLINE KRATTLI	USA	2016	5:31.20	NAOKO SHIDE	JPN	2010	19:27.93	JEANNE CARLSEN	CAN	2013
1:19.92	T.PROKOFIEVA	RUS	2016	5:32.37	ANGELA DELISSEN	GER	2016	19:29.49	BETH LUTZ KNIGHT	USA	2015
1:20.21	KELLY RODGERS	CAN	2016	5:32.60	JENNY WHITELEY	AUS	2008	19:34.48	N.STEADMAN-MARTIN	USA	2009
200 M. BRST				5:34.04	ANETTE PHILIPSSON	SWE	2015	19:41.20	ENEY JONES	USA	2016
2:45.70	MARZENA KULIS	ITA	2016	5:34.04	ILKA LOWENSTEYN	CAN	2015	19:43.66	DYMPHNA MORRIS	IRL	2016
2:48.69	JENNY WHITELEY	AUS	2009	5:34.22	RIEKO SHOJI	JPN	2010	19:44.94	JENNY WHITELEY	AUS	2013
2:49.05	MONICA CORO	ITA	2013	5:35.42	JUDITH HATTLE	GBR	2012	50 M. BACK			
2:50.36	ELLEN REYNOLDS	USA	2016	5:35.90	BARBARA GELLRICH	GER	2012	30.12	LESLIE LIVINGSTON	USA	2016
2:50.44	UTE HASSE	ESP	2015	*****				32.62	LAURA VAL	USA	2009
2:52.03	KATE SORENSEN	DEN	2011	WOMEN 55-59				33.56	K.ANDRUS-HUGHES	USA	2012
2:52.57	CORRIN POPPS	USA	2014	*****				33.99	ANN KOURI	CAN	2016
2:52.59	KIM CROUCH	USA	2013	50 M. FREE				33.99	CATHY SHEEHAN	CAN	2015
2:52.84	CYNTHIA PINCOTT	CAN	2012	27.81	LESLIE LIVINGSTON	USA	2016	34.00	FRANCES MCEACHRAN	USA	2016
2:55.78	T.PROKOFIEVA	RUS	2016	27.91	SARAH MACDONALD	CAN	2015	34.11	SARAH MACDONALD	CAN	2015
50 M. FLY				28.49	LAURA VAL	USA	2009	34.25	JENNY WHITELEY	AUS	2013
29.25	LESLIE LIVINGSTON	USA	2013					34.52	KIM BRIGHTWELL	USA	2015



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34.64	LYNN MARSHALL	CAN	2016	1:11.65	TRACI GRANGER	USA	2013	1:08.19	LYNN MORRISON	USA	2015
100 M. BACK				1:11.98	MA CARMEN NAVARRO	ESP	2016	1:08.43	CATHY MERRITT	CAN	2012
1:10.08	LESLIE LIVINGSTON	USA	2016	1:12.97	HARUMI SUGINUMA	JPN	2012	1:08.58	CONNY BOER-BUYS	NED	2010
1:12.23	LAURA VAL	USA	2008	1:12.99	JUDY WILSON	GBR	2001	1:09.10	RACHEL BARTON	GBR	2009
1:12.87	LYNN MARSHALL	CAN	2016	1:13.08	JENNY WHITELEY	AUS	2014	200 M. FREE			
1:12.89	CATHY SHEEHAN	CAN	2015	1:14.11	CECILIA STANFORD	RSA	2016	2:20.16	LAURA VAL	USA	2011
1:12.96	ANN KOURI	CAN	2016	200 M. FLY				2:25.83	VERONICA HIBBEN	USA	2016
1:13.14	K.ANDRUS-HUGHES	USA	2014	2:31.13	LAURA VAL	USA	2008	2:26.94	DIANE COETZEE	RSA	2015
1:14.11	BONNIE BILICH	USA	2016	2:34.29	LYNN MARSHALL	CAN	2016	2:29.23	COLETTE CRABBE	USA	2016
1:15.04	ZENA COURTNEY	USA	2015	2:39.55	ANDREA BLOCK	USA	2016	2:30.04	A.PIJTAK-RADERSMA	NED	2016
1:15.62	KAZUMI MORI	JPN	2016	2:41.97	JUDITH HATTLE	GBR	2016	2:30.15	JACKI HIRSTY	USA	2013
1:15.86	JUDITH HATTLE	GBR	2015	2:43.13	JENNY WHITELEY	AUS	2014	2:30.48	NANCY MARTIN	USA	2016
200 M. BACK				2:45.95	TRACI GRANGER	USA	2014	2:30.67	CHARLENE O'BRIEN	USA	2016
2:31.71	LYNN MARSHALL	CAN	2016	2:47.18	BARBARA DUNBAR	USA	2004	2:31.02	S.LOFTUS-CHARLEY	USA	2012
2:37.84	NAOKO SHIDE	JPN	2016	2:47.63	HARUMI SUGINUMA	JPN	2013	2:31.09	SUSANNA SORDELLI	ITA	2016
2:39.94	BONNIE BILICH	USA	2016	2:47.89	N.STEADMAN-MARTIN	USA	2009	400 M. FREE			
2:40.01	ANN KOURI	CAN	2016	2:50.34	COLETTE CRABBE	BEL	2013	4:53.24	LAURA VAL	USA	2013
2:40.05	LAURA VAL	USA	2008	100 M. I.M.				5:10.08	VERONICA HIBBEN	USA	2016
2:40.82	CATHY SHEEHAN	CAN	2015	1:10.66	JENNY WHITELEY	AUS	2013	5:12.25	DIANE COETZEE	RSA	2015
2:41.83	K.ANDRUS-HUGHES	USA	2012	1:11.95	SARAH MACDONALD	CAN	2015	5:12.77	NANCY MARTIN	USA	2016
2:42.42	JUDITH HATTLE	GBR	2015	1:12.90	LAURA VAL	USA	2009	5:13.96	CHRISTIE CIRAULO	USA	2015
2:43.36	KAZUMI MORI	JPN	2016	1:13.32	LYNN MARSHALL	CAN	2016	5:14.09	SUSANNA SORDELLI	ITA	2016
2:43.47	MINDY DOUGHERTY	USA	2009	1:13.93	JUDITH HATTLE	GBR	2015	5:16.83	C.TARANTINO	ITA	2016
50 M. BRST				1:14.31	COLETTE CRABBE	BEL	2013	5:17.88	S.LOFTUS-CHARLEY	USA	2011
36.29	JENNY WHITELEY	AUS	2013	1:14.80	ANN KOURI	CAN	2016	5:18.55	BETH ESTEL	USA	2016
36.44	PIA THULSTRUP	DEN	2016	1:14.87	KIM CROUCH	USA	2016	5:20.87	JOAN PFINGRAFF	USA	2014
37.11	SARAH MACDONALD	CAN	2015	1:15.06	HEATHER CAMPBELL	NZL	2008	800 M. FREE			
37.54	KIM CROUCH	USA	2016	1:15.15	BARBARA GELLRICH	GER	2016	10:21.68	LAURA VAL	USA	2011
37.56	DAGMAR FRESE	GER	2012	200 M. I.M.				10:39.12	S.LOFTUS-CHARLEY	USA	2011
37.58	ALISON NYE	GBR	2012	2:34.01	LYNN MARSHALL	CAN	2016	10:42.74	C.TARANTINO	ITA	2016
37.62	LESLIE LIVINGSTON	USA	2016	2:36.98	LAURA VAL	USA	2009	10:44.11	CHRISTIE CIRAULO	USA	2015
37.71	ALICIA BOSCATTO	ARG	2015	2:37.71	JENNY WHITELEY	AUS	2013	10:48.05	DIANE COETZEE	RSA	2015
38.02	SETSUOKO MATSUI	JPN	2016	2:40.49	SARAH MACDONALD	CAN	2015	10:50.18	CHARLENE O'BRIEN	USA	2016
38.12	REISS-ABDULRAHMA	GER	2015	2:41.32	JUDITH HATTLE	GBR	2016	10:56.23	COLETTE CRABBE	USA	2016
100 M. BRST				2:42.08	BARBARA GELLRICH	GER	2016	10:56.54	NANCY MARTIN	USA	2016
1:18.45	JENNY WHITELEY	AUS	2013	2:42.28	ANN KOURI	CAN	2016	10:56.97	KAREN EINSIDLER	USA	2016
1:21.15	SARAH MACDONALD	CAN	2015	2:44.01	JANIS SHIRRIFF	CAN	2016	10:57.15	BETH ESTEL	USA	2016
1:21.29	ALICIA BOSCATTO	ARG	2016	2:44.02	TRACI GRANGER	USA	2014	1500 M. FREE			
1:21.89	PIA THULSTRUP	DEN	2016	2:44.50	COLETTE CRABBE	BEL	2012	19:38.63	LAURA VAL	USA	2011
1:23.22	CHRIS WENZEL	USA	2014	400 M. I.M.				19:59.92	S.LOFTUS-CHARLEY	USA	2011
1:23.24	JUDITH HATTLE	GBR	2016	5:23.08	LYNN MARSHALL	CAN	2016	20:15.16	CHRISTIE CIRAULO	USA	2015
1:23.25	KIM CROUCH	USA	2016	5:39.30	LAURA VAL	USA	2009	20:21.72	C.TARANTINO	ITA	2016
1:23.56	KATE SORENSEN	DEN	2016	5:45.54	NAOKO SHIDE	JPN	2015	20:38.60	NANCY MARTIN	USA	2016
1:23.60	JENNY COOK	USA	2015	5:45.92	JUDITH HATTLE	GBR	2015	20:39.25	COLETTE CRABBE	USA	2016
1:23.66	MISA KUWANO	JPN	2016	5:47.01	N.STEADMAN-MARTIN	USA	2009	20:44.63	AUDREY COOPER	GBR	2016
200 M. BRST				5:48.86	JENNY WHITELEY	AUS	2015	20:46.72	BARBARA DUNBAR	USA	2009
2:55.48	JENNY WHITELEY	AUS	2013	5:49.38	ROBYN CROTTY	NZL	2016	21:10.33	DARCY LAFOUNTAIN	USA	2016
2:59.34	COLETTE CRABBE	BEL	2012	5:50.58	JEANNE CARLSEN	CAN	2013	21:17.04	VERONICA HIBBEN	USA	2016
3:00.02	JUDITH HATTLE	GBR	2015	5:51.97	COLETTE CRABBE	BEL	2013	50 M. BACK			
3:00.46	ALICIA BOSCATTO	ARG	2015	5:54.15	JANIS SHIRRIFF	CAN	2016	33.01	LAURA VAL	USA	2013
3:01.40	KIM CROUCH	USA	2016	*****				35.60	DIANE COETZEE	RSA	2015
3:01.64	KATE SORENSEN	DEN	2016	WOMEN 60-64				35.78	BENEDICTE DUPREZ	FRA	2012
3:02.33	AMANDA HEATH	GBR	2013	*****				35.84	LEIGH RODGERS	AUS	2015
3:02.37	CATHERINE KOHN	USA	2009	50 M. FREE				35.89	JOAN PFINGRAFF	USA	2014
3:03.02	KEIKO UTSUMI	JPN	2011	29.23	LAURA VAL	USA	2013	36.02	DIANN UUSTAL	USA	2010
3:03.89	NANCY MARCHAND	FRA	2013	29.65	VERONICA HIBBEN	USA	2016	36.16	RACHEL BARTON	GBR	2008
50 M. FLY				29.90	ISABELLA RICCA	ITA	2012	36.17	LYNETTE STEVENSON	AUS	2009
29.39	LESLIE LIVINGSTON	USA	2016	30.01	CHARLOTTE DAVIS	USA	2010	36.20	CECILIA MCCLOSKEY	USA	2014
31.13	TRACI GRANGER	USA	2013	30.07	JACKI HIRSTY	USA	2013	36.38	SATOKO TAKEUJI	JPN	2002
31.13	LAURA VAL	USA	2009	30.11	A.PIJTAK-RADERSMA	NED	2016	100 M. BACK			
31.23	SARAH MACDONALD	CAN	2015	30.64	LYNN MORRISON	USA	2015	1:12.72	LAURA VAL	USA	2013
31.57	MA CARMEN NAVARRO	ESP	2016	30.70	LYNETTE STEVENSON	AUS	2009	1:16.57	DIANE COETZEE	RSA	2016
31.72	HARUMI SUGINUMA	JPN	2012	30.76	CONNY BOER-BUYS	NED	2010	1:16.83	JOAN PFINGRAFF	USA	2014
31.76	JENNY WHITELEY	AUS	2016	30.83	REGULA STEIGER	SUI	2012	1:17.95	LEIGH RODGERS	AUS	2015
31.81	JUDITH HATTLE	GBR	2016	100 M. FREE				1:18.60	BENEDICTE DUPREZ	FRA	2013
31.92	JUDY WILSON	GBR	2000	1:03.48	LAURA VAL	USA	2014	1:18.69	DIANN UUSTAL	USA	2010
32.12	ANDREA BLOCK	USA	2016	1:04.76	VERONICA HIBBEN	USA	2016	1:18.77	CECILIA MCCLOSKEY	USA	2014
100 M. FLY				1:06.58	CHARLOTTE DAVIS	USA	2010	1:19.38	DIANA NASH	GBR	2016
1:09.23	LAURA VAL	USA	2009	1:07.34	A.PIJTAK-RADERSMA	NED	2016	1:20.02	MARGIT OHLSSON	SWE	2006
1:09.67	LYNN MARSHALL	CAN	2016	1:07.56	JACKI HIRSTY	USA	2013	1:20.03	COLETTE CRABBE	USA	2016
1:10.10	ANDREA BLOCK	USA	2016	1:08.13	DIANE COETZEE	RSA	2015	200 M. BACK			
1:11.21	JUDITH HATTLE	GBR	2015					2:40.04	LAURA VAL	USA	2015



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2:44.59	JOAN PFINGSGRAFF	USA	2014	3:05.77	ELAINE VALDEZ	USA	2016	2:42.08	JACKIE MARR	USA	2008
2:46.71	DIANE COETZEE	RSA	2015	3:06.44	ANDRA JAUNZEME	USA	2016	400 M. FREE			
2:48.22	LEIGH RODGERS	AUS	2015	3:07.04	JUDY WILSON	GBR	2004	5:06.74	LAURA VAL	USA	2016
2:48.59	BENEDICTE DUPREZ	FRA	2013	100 M. I.M.				5:22.78	S.LOFTUS-CHARLEY	USA	2016
2:49.36	SUSANNA SORDELLI	ITA	2016	1:15.07	LAURA VAL	USA	2013	5:23.19	CHARLOTTE DAVIS	USA	2015
2:51.37	CECILIA MCCLOSKEY	USA	2014	1:16.69	LEIGH RODGERS	AUS	2015	5:35.53	CAROLYN BOAK	USA	2010
2:53.41	C.TARANTINO	ITA	2015	1:17.34	COLETTE CRABBE	USA	2016	5:39.39	BARBARA DUNBAR	USA	2014
2:53.65	KAREN EINSIDLER	USA	2016	1:17.48	CHARLOTTE DAVIS	USA	2010	5:42.41	JANETTE JEFFREY	AUS	2015
2:53.83	LO KNAPP	USA	2016	1:19.05	A.PIJTAK-RADERSMA	NED	2016	5:44.29	JACKIE MARR	USA	2008
50 M. BRST				1:19.09	BRIGITTE MERTEN	GER	2006	5:46.47	SUZANNE DILLS	USA	2010
38.38	DAGMAR FRESE	GER	2016	1:19.63	VERONICA HIBBEN	USA	2016	5:46.56	CONNY BOER-BUYS	NED	2016
38.60	MONIKA SENFTLEBEN	GER	2002	1:19.86	DIANN UUSTAL	USA	2010	5:46.94	YOSHIKO OSAKI	JPN	2003
38.63	AVILA RHODES	CAN	2016	1:20.11	ANDRA JAUNZEME	USA	2014	800 M. FREE			
38.87	COLETTE CRABBE	USA	2016	1:20.44	AVILA RHODES	CAN	2016	10:34.67	LAURA VAL	USA	2016
38.97	BETH ESTEL	USA	2016	200 M. I.M.				10:55.71	S.LOFTUS-CHARLEY	USA	2016
38.97	BONNIE PRONK	CAN	2002	2:41.53	LAURA VAL	USA	2013	11:09.87	CHARLOTTE DAVIS	USA	2015
39.60	DEB WALKER	USA	2011	2:47.18	COLETTE CRABBE	USA	2016	11:24.13	JEN THOMASSON	AUS	2008
39.69	SALLY SHIELDS	GBR	2016	2:48.31	LEIGH RODGERS	AUS	2015	11:32.00	BARBARA DUNBAR	USA	2014
39.77	JAN WICKS	AUS	2006	2:48.33	CHARLOTTE DAVIS	USA	2010	11:40.70	JACKIE MARR	USA	2008
40.24	DALE BARNHARD	USA	2008	2:52.21	SUSANNA SORDELLI	ITA	2016	11:49.70	YOSHIKO OSAKI	JPN	2003
100 M. BRST				2:52.64	S.LOFTUS-CHARLEY	USA	2011	11:52.80	CONNY BOER-BUYS	NED	2016
1:24.39	COLETTE CRABBE	USA	2016	2:53.28	JEANNE LAPPIN	USA	2015	11:56.44	CHRISTIE HAYES	USA	2016
1:25.89	DAGMAR FRESE	GER	2016	2:54.07	CAROLE BATES	GBR	1998	11:59.86	MARGARETA RAINER	SWE	2014
1:26.26	AVILA RHODES	CAN	2016	2:54.83	BETH ESTEL	USA	2016	1500 M. FREE			
1:26.43	HANNELORE ROSE	GER	2002	2:55.72	BONNIE PRONK	CAN	2002	20:21.61	LAURA VAL	USA	2016
1:26.56	BONNIE PRONK	CAN	2002	400 M. I.M.				20:37.63	S.LOFTUS-CHARLEY	USA	2016
1:27.07	DEB WALKER	USA	2011	5:51.81	LAURA VAL	USA	2011	21:43.60	JEN THOMASSON	AUS	2008
1:27.11	BETH ESTEL	USA	2016	5:54.91	COLETTE CRABBE	USA	2016	21:49.37	BARBARA DUNBAR	USA	2014
1:27.63	LO KNAPP	USA	2016	5:57.70	CHARLOTTE DAVIS	USA	2010	21:52.87	FRAN HARE	USA	2016
1:28.01	LINDA CHAPMAN	USA	2016	6:03.26	S.LOFTUS-CHARLEY	USA	2011	22:09.43	JACKIE MARR	USA	2008
1:28.79	NOBUKO YASUDA	JPN	2009	6:07.12	SUSANNA SORDELLI	ITA	2016	22:35.98	YOSHIKO OSAKI	JPN	2004
200 M. BRST				6:10.75	JEANNE LAPPIN	USA	2015	22:56.72	CHRISTIE HAYES	USA	2015
3:04.70	LO KNAPP	USA	2016	6:10.88	LAURA VACA	MEX	2015	22:58.26	LINDA SHOENBERGER	USA	2012
3:06.48	BONNIE PRONK	CAN	2002	6:13.25	AUDREY COOPER	GBR	2015	22:58.32	MARCIA BARRY	USA	2014
3:07.44	HANNELORE ROSE	GER	2002	6:15.26	BARBARA DUNBAR	USA	2009	50 M. BACK			
3:08.21	COLETTE CRABBE	USA	2016	6:18.65	N.MARTIN	USA	2015	34.12	LAURA VAL	USA	2016
3:10.10	AVILA RHODES	CAN	2016	*****				35.58	DIANN UUSTAL	USA	2011
3:10.48	JANETTE JEFFREY	AUS	2012	*****				35.86	CECILIA MCCLOSKEY	USA	2016
3:10.69	IRINA SHANGINA	RUS	2015	*****				36.58	MARGIT OHLSSON	SWE	2010
3:13.04	KEIKO UTSUMI	JPN	2016	*****				36.85	CLARY MUNNS	AUS	2009
3:13.51	ULRIKE URBANIAK	GER	2013	50 M. FREE				37.10	RACHEL BARTON	GBR	2014
3:13.55	DEB WALKER	USA	2011	29.30	LAURA VAL	USA	2016	37.27	BENEDICTE DUPREZ	FRA	2016
50 M. FLY				30.79	CHARLOTTE DAVIS	USA	2015	37.47	SILVANA ABREU	BRA	2006
31.34	CAROL BOAGEY	GBR	2013	31.64	SANDERINA KRUGER	RSA	2014	37.63	SATOKO TAKEUJI	JPN	2007
32.42	LAURA VAL	USA	2013	31.76	JANETTE JEFFREY	AUS	2015	37.71	CHARLOTTE DAVIS	USA	2016
32.54	VERONICA HIBBEN	USA	2016	31.82	LYNETTE STEVENSON	AUS	2011	100 M. BACK			
32.84	LEIGH RODGERS	AUS	2015	31.85	CONNY BOER-BUYS	NED	2016	1:14.99	LAURA VAL	USA	2016
32.93	CHARLOTTE DAVIS	USA	2011	31.91	HEIDE LORBERG	GER	2004	1:17.95	DIANN UUSTAL	USA	2011
33.38	JUDY WILSON	GBR	2004	32.06	DIANN UUSTAL	USA	2011	1:18.02	CECILIA MCCLOSKEY	USA	2015
33.43	ANGELA ZINGLER	GER	2016	32.25	SUSIE WHITE	USA	2013	1:18.81	MARGIT OHLSSON	SWE	2011
33.73	CHRISTIE CIRAULO	USA	2015	32.25	CHRISTEL SCHULZ	GER	2005	1:22.17	BENEDICTE DUPREZ	FRA	2016
34.19	COLETTE CRABBE	USA	2016	100 M. FREE				1:22.17	CLARY MUNNS	AUS	2009
34.47	RUTH SHAPS	USA	2008	1:05.27	LAURA VAL	USA	2016	1:25.00	BONNIE PRONK	CAN	2007
100 M. FLY				1:06.90	CHARLOTTE DAVIS	USA	2015	1:25.43	HELLA VERSFELD	CAN	2015
1:11.47	LAURA VAL	USA	2013	1:08.25	SANDERINA KRUGER	RSA	2015	1:25.53	PAM HUTCHINGS	AUS	2001
1:13.58	LEIGH RODGERS	AUS	2015	1:10.66	CONNY BOER-BUYS	NED	2016	1:25.61	SILVANA ABREU	BRA	2006
1:14.77	COLETTE CRABBE	USA	2016	1:10.76	DIANN UUSTAL	USA	2011	200 M. BACK			
1:15.40	CHARLOTTE DAVIS	USA	2011	1:10.97	CHRISTEL SCHULZ	GER	2005	2:43.74	LAURA VAL	USA	2016
1:16.41	JUDY WILSON	GBR	2004	1:12.05	RACHEL BARTON	GBR	2013	2:50.10	CECILIA MCCLOSKEY	USA	2015
1:17.07	JEANNE LAPPIN	USA	2015	1:12.35	C.NIEUWENHUIS	NED	2016	2:53.36	DIANN UUSTAL	USA	2011
1:19.02	VERONICA HIBBEN	USA	2016	1:12.44	CECILIA MCCLOSKEY	USA	2016	2:55.02	MARGIT OHLSSON	SWE	2011
1:19.17	CHARLENE O'BRIEN	USA	2016	1:12.99	F.WILLIAMSON	USA	2013	2:58.80	BENEDICTE DUPREZ	FRA	2016
1:19.38	BARBARA DUNBAR	USA	2009	200 M. FREE				3:01.88	BONNIE PRONK	CAN	2007
1:20.32	CHRISTIE CIRAULO	USA	2015	2:25.41	LAURA VAL	USA	2016	3:04.05	CLARY MUNNS	AUS	2011
200 M. FLY				2:29.35	CHARLOTTE DAVIS	USA	2015	3:05.00	HELLA VERSFELD	CAN	2016
2:41.25	LAURA VAL	USA	2011	2:35.21	S.LOFTUS-CHARLEY	USA	2016	3:06.59	TAKAKO NAKAMORI	JPN	2015
2:52.43	JEANNE LAPPIN	USA	2015	2:37.00	SANDERINA KRUGER	RSA	2014	3:06.96	S.LOFTUS-CHARLEY	USA	2016
3:00.31	BARBARA DUNBAR	USA	2009	2:37.13	CONNY BOER-BUYS	NED	2016	50 M. BRST			
3:02.09	CHRISTIE CIRAULO	USA	2016	2:38.60	DIANN UUSTAL	USA	2012	40.90	NOBUKO YASUDA	JPN	2010
3:04.33	LAURA VACA	MEX	2015	2:39.77	CAROLYN BOAK	USA	2010	41.38	JANETTE JEFFREY	AUS	2016
3:04.81	N.MARTIN	USA	2015	2:41.90	F.WILLIAMSON	USA	2013	41.40	BONNIE PRONK	CAN	2009
3:05.20	YOSHIKO OSAKI	JPN	2000	2:42.05	YOSHIKO OSAKI	JPN	2004	41.53	MONIKA SENFTLEBEN	GER	2008



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42.02	DIANN UUSTAL	USA	2011	1:24.71	CAROLYN BOAK	USA	2010	12:11.34	CAROLYN BOAK	USA	2016
42.13	LAURA VAL	USA	2016	200 M. I.M.				12:30.00	JANE ASHER	GBR	2004
42.32	BRIGITTE MERTEN	GER	2011	2:48.15	LAURA VAL	USA	2016	12:39.45	JACKIE MARR	USA	2013
42.35	JOANN LEILICH	USA	2005	2:53.33	CHARLOTTE DAVIS	USA	2015	12:42.21	KATHY SLIFER	USA	2016
42.38	IMMA GIER	GER	2012	2:55.88	CECILIA MCCLOSKEY	USA	2016	13:00.04	BARBARA FENTIMAN	GBR	2004
42.43	JENNIFER MERRITT	GBR	2016	2:59.30	S.LOFTUS-CHARLEY	USA	2016	13:03.64	HELGA REICH	GER	2006
42.43	ANNE ROSE TROBISCH	GER	2012	3:02.58	BRIGITTE MERTEN	GER	2011	13:07.28	JUNE KRAUSER	USA	1996
100 M. BRST				3:04.22	CAROLYN BOAK	USA	2010	13:07.66	M.CHRISTENSEN	USA	2015
1:28.73	NOBUKO YASUDA	JPN	2010	3:04.40	CLARY MUNNS	AUS	2012	13:09.33	RITSUKO SUGIMURA	JPN	2015
1:30.81	CHARLOTTE DAVIS	USA	2016	3:05.72	NOBUKO YASUDA	JPN	2010	13:20.34	E.KETELSEN	DEN	2016
1:30.92	JANETTE JEFFREY	AUS	2016	3:06.04	KIRA MAKAROVA	RUS	2013	1500 M. FREE			
1:31.87	BONNIE PRONK	CAN	2007	3:06.34	DIANN UUSTAL	USA	2013	23:54.74	JANE ASHER	GBR	2004
1:32.05	DIANE FORD	GBR	2008	400 M. I.M.				23:58.11	JACKIE MARR	USA	2013
1:32.37	JOANN LEILICH	USA	2004	5:55.00	LAURA VAL	USA	2016	24:56.47	BARBARA FENTIMAN	GBR	2004
1:33.03	HANNELORE ROSE	GER	2007	6:16.30	S.LOFTUS-CHARLEY	USA	2016	24:57.45	M.CHRISTENSEN	USA	2015
1:33.05	JENNIFER MERRITT	GBR	2016	6:22.01	CECILIA MCCLOSKEY	USA	2016	24:57.85	JUNE KRAUSER	USA	1996
1:33.17	NATHALIE MACAIRE	FRA	2016	6:28.11	CHARLOTTE DAVIS	USA	2015	25:14.99	HELGA REICH	GER	2006
1:33.89	LUISE KNOPFLE	GER	2004	6:31.71	CAROLYN BOAK	USA	2010	25:19.73	REIKO ISHIZAKI	JPN	2009
200 M. BRST				6:34.95	YOSHIKO OSAKI	JPN	2003	25:26.53	E.KETELSEN	DEN	2015
3:10.75	JANETTE JEFFREY	AUS	2015	6:45.14	CLARY MUNNS	AUS	2009	25:40.21	GAIL ROPER	USA	1999
3:14.89	NOBUKO YASUDA	JPN	2010	6:45.94	JACKIE MARR	USA	2008	25:44.60	JILL COMPLIN	GBR	2013
3:17.44	JOANN LEILICH	USA	2004	6:49.48	BONNIE PRONK	CAN	2007	50 M. BACK			
3:20.34	JENNIFER MERRITT	GBR	2016	6:50.53	BARBARA DUNBAR	USA	2014	37.50	MARGIT OHLSSON	SWE	2015
3:20.83	LUISE KNOPFLE	GER	2004					37.67	DIANN UUSTAL	USA	2016
3:21.25	DIANE FORD	GBR	2008	*****				37.78	CLARY MUNNS	AUS	2015
3:23.72	BONNIE PRONK	CAN	2007	WOMEN 70-74				39.44	E.KETELSEN	DEN	2013
3:24.31	MASAYO AZUMA	JPN	2000	*****				39.79	SATOKO TAKEUJI	JPN	2013
3:24.52	NATHALIE MACAIRE	FRA	2016	50 M. FREE				40.11	HIROMI SATO	JPN	2013
3:26.40	FLORA CONNOLLY	GBR	2000	32.38	DIANN UUSTAL	USA	2016	40.49	MARGARET WILDING	GBR	2009
50 M. FLY				33.34	CHRISTEL SCHULZ	GER	2010	40.58	JOY WARD	USA	2012
33.53	LAURA VAL	USA	2016	33.36	YOSHIKO OSAKI	JPN	2009	40.61	PAM HUTCHINGS	AUS	2008
33.56	CHARLOTTE DAVIS	USA	2016	33.56	BITTE AXLING	SWE	2016	40.88	BITTE AXLING	SWE	2016
34.53	DIANN UUSTAL	USA	2013	33.86	JANE ASHER	GBR	2004	40.88	PENNY STEELE	AUS	2015
35.49	YOSHIKO KADOSAKA	JPN	2014	34.19	BRIGITTE MERTEN	GER	2016	100 M. BACK			
35.58	CECILIA MCCLOSKEY	USA	2016	34.39	JEN THOMASSON	AUS	2013	1:22.15	MARGIT OHLSSON	SWE	2015
35.98	SUMIKO KOBAYASHI	JPN	2015	34.49	IKUKO OKADO	JPN	2013	1:22.65	DIANN UUSTAL	USA	2016
36.36	CHRISTEL SCHULZ	GER	2005	34.57	CLARY MUNNS	AUS	2016	1:25.13	CLARY MUNNS	AUS	2014
36.38	JOEL FELDMANN	USA	2016	34.59	JUDY WILSON	GBR	2014	1:26.25	SATOKO TAKEUJI	JPN	2012
36.39	C.NIEUWENHUIS	NED	2016	100 M. FREE				1:27.45	E.KETELSEN	DEN	2013
36.48	BRIGITTE MERTEN	GER	2014	1:12.58	DIANN UUSTAL	USA	2016	1:29.10	CHRISTEL SCHULZ	GER	2011
100 M. FLY				1:12.97	YOSHIKO OSAKI	JPN	2009	1:29.37	NORIKO YOSHIDA	JPN	2015
1:15.40	LAURA VAL	USA	2016	1:14.69	CHRISTEL SCHULZ	GER	2010	1:29.64	JOY WARD	USA	2012
1:18.80	CHARLOTTE DAVIS	USA	2015	1:16.45	JANE ASHER	GBR	2004	1:29.93	BETSY JORDAN	USA	2007
1:21.13	CECILIA MCCLOSKEY	USA	2016	1:16.52	CLARY MUNNS	AUS	2016	1:31.24	SHOKO YONEZAWA	JPN	2005
1:23.41	BRIGITTE MERTEN	GER	2011	1:16.54	JUDY WILSON	GBR	2015	200 M. BACK			
1:23.61	JUDY WILSON	FRA	2010	1:17.92	JEN THOMASSON	AUS	2013	2:58.64	MARGIT OHLSSON	SWE	2015
1:24.98	KIRA MAKAROVA	RUS	2012	1:18.35	E.KETELSEN	DEN	2013	3:05.23	CLARY MUNNS	AUS	2015
1:25.28	YOSHIKO OSAKI	JPN	2003	1:18.67	GAIL ROPER	USA	1999	3:07.31	DIANN UUSTAL	USA	2016
1:25.67	CAROLYN BOAK	USA	2010	1:19.54	JEAN HOWARD-JONES	GBR	2013	3:11.41	E.KETELSEN	DEN	2013
1:25.68	S.LOFTUS-CHARLEY	USA	2016	200 M. FREE				3:12.67	JOY WARD	USA	2012
1:27.32	DIANN UUSTAL	USA	2013	2:43.60	DIANN UUSTAL	USA	2016	3:15.04	NORIKO YOSHIDA	JPN	2015
200 M. FLY				2:44.70	YOSHIKO OSAKI	JPN	2008	3:17.71	BONNIE PRONK	CAN	2012
2:45.20	LAURA VAL	USA	2016	2:47.82	CHRISTEL SCHULZ	GER	2010	3:17.86	CHRISTEL SCHULZ	GER	2011
3:03.97	S.LOFTUS-CHARLEY	USA	2016	2:49.28	JANE ASHER	GBR	2003	3:18.61	V.JOHANSSON	SWE	2005
3:15.63	CAROLYN BOAK	USA	2012	2:49.70	JEN THOMASSON	AUS	2013	3:20.96	JANE ASHER	GBR	2001
3:17.34	BARBARA DUNBAR	USA	2014	2:55.09	E.KETELSEN	DEN	2013	50 M. BRST			
3:17.36	YOSHIKO OSAKI	JPN	2003	2:55.22	JUDY WILSON	GBR	2014	42.80	SHOKO YONEZAWA	JPN	2005
3:17.86	KIRA MAKAROVA	RUS	2012	2:55.57	HELGA REICH	GER	2007	43.18	MONIKA SENFTLEBEN	GER	2012
3:28.93	HELGA REICH	GER	2002	2:58.06	GAIL ROPER	USA	2000	43.26	NOBUKO YASUDA	JPN	2015
3:29.98	SILVANA ABREU	BRA	2006	2:58.42	CLARY MUNNS	AUS	2016	43.95	CLARY MUNNS	AUS	2015
3:31.67	SUMIKO KOBAYASHI	JPN	2015	400 M. FREE				44.05	DIANE FORD	GBR	2014
3:31.98	FLORA CONNOLLY	GBR	1999	5:50.41	YOSHIKO OSAKI	JPN	2008	44.22	JOANN LEILICH	USA	2011
100 M. I.M.				5:56.79	CAROLYN BOAK	USA	2016	44.74	BRIGITTE MERTEN	GER	2016
1:16.67	LAURA VAL	USA	2016	5:56.99	JEN THOMASSON	AUS	2013	44.74	KAZUKO KAJIWARA	JPN	2009
1:19.10	CHARLOTTE DAVIS	USA	2015	6:00.34	JANE ASHER	GBR	2003	44.83	DIANN UUSTAL	USA	2016
1:20.86	DIANN UUSTAL	USA	2011	6:06.19	KATHY SLIFER	USA	2016	44.91	BITTE AXLING	SWE	2016
1:21.89	BRIGITTE MERTEN	GER	2011	6:14.34	JACKIE MARR	USA	2013	100 M. BRST			
1:22.02	CECILIA MCCLOSKEY	USA	2015	6:19.39	M.CHRISTENSEN	USA	2015	1:33.92	NOBUKO YASUDA	JPN	2015
1:22.53	CLARY MUNNS	AUS	2009	6:19.60	HEATHER MORGAN	AUS	2015	1:34.86	DIANE FORD	GBR	2014
1:23.71	KIRA MAKAROVA	RUS	2013	6:19.70	E.KETELSEN	DEN	2014	1:35.58	SHOKO YONEZAWA	JPN	2005
1:24.08	MARGIT OHLSSON	SWE	2011	6:19.80	HELGA REICH	GER	2006	1:36.63	YOSHIKO OSAKI	JPN	2010
1:24.45	NOBUKO YASUDA	JPN	2010	800 M. FREE				1:36.93	MARGOT PETTIJOHN	USA	2016



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1:36.94 MASAYO AZUMA	JPN 2005	6:47.91 BRIGITTE MERTEN	GER 2016	26:37.02 GAIL ROPER	USA 2005
1:37.11 LUISE KNOPFLE	GER 2009	6:51.30 CLARY MUNNS	AUS 2015	26:37.41 DENISE ROBERTSON	AUS 2011
1:37.20 JOANN LEILICH	USA 2009	6:56.79 YOSHIKO OSAKI	JPN 2008	26:44.97 HELGA REICH	GER 2012
1:37.27 BRIGITTE MERTEN	GER 2016	7:09.96 JANE ASHER	GBR 2001	27:13.56 JILL COMPLIN	GBR 2016
1:37.36 CLARY MUNNS	AUS 2015	7:12.34 KATHY SLIFER	USA 2016	27:14.94 MICHIO OKUMURA	JPN 2006
200 M. BRST		7:19.12 JUDIE OLIVER	CAN 2002	27:19.57 MARIA PENNA	BRA 2014
3:25.76 JOANN LEILICH	USA 2009	7:24.32 JUNE KRAUSER	USA 1996	27:33.16 LIZ WALLIS	AUS 2002
3:28.12 DIANE FORD	GBR 2014	7:28.73 DANIELA BARNEA	USA 2014	27:39.46 JUNE KRAUSER	USA 2001
3:28.32 NOBUKO YASUDA	JPN 2016	7:34.98 URSULA FROHLICH	GER 2005	50 M. BACK	
3:28.98 MASAYO AZUMA	JPN 2005	7:35.12 JOY WARD	USA 2013	43.19 MARLENE MENDES	BRA 2008
3:30.16 SHOKO YONEZAWA	JPN 2005			43.23 LILIA ALMEIDA	BRA 2014
3:31.07 CLARY MUNNS	AUS 2015	*****		43.46 YOSHIKO OSAKI	JPN 2014
3:33.22 LUISE KNOPFLE	GER 2009	WOMEN 75-79		43.50 JANE ASHER	GBR 2006
3:34.27 MARGOT PETTIJOHN	USA 2016	*****		43.54 SHOKO YONEZAWA	JPN 2010
3:35.99 JEN THOMASSON	AUS 2013	50 M. FREE		43.64 CHRISTEL SCHULZ	GER 2015
3:40.16 TAYO FUJIEDA	JPN 2007	34.58 CHRISTEL SCHULZ	GER 2015	44.24 PAM HUTCHINGS	AUS 2012
50 M. FLY		35.41 YOSHIKO OSAKI	JPN 2014	44.76 DORIS STEADMAN	USA 1999
35.12 DIANN UUSTAL	USA 2016	35.88 JANE ASHER	GBR 2006	45.19 NANCY BROWN	USA 2011
36.10 JUDY WILSON	GBR 2015	37.21 HISAKO KITAYAMA	JPN 2013	45.28 JOAN PARNELL	CAN 2004
36.69 BRIGITTE MERTEN	GER 2016	37.24 GAIL ROPER	USA 2004	100 M. BACK	
37.96 YOSHIKO OSAKI	JPN 2009	37.33 JOHNNIE DETRICK	USA 2011	1:33.68 CHRISTEL SCHULZ	GER 2015
39.02 CHRISTEL SCHULZ	GER 2010	37.38 SHOKO YONEZAWA	JPN 2011	1:34.38 ELIANE PELLIS	BEL 2009
39.36 HARUMI SUGIMOTO	JPN 2008	37.99 MASAKO KOHA	JPN 2015	1:35.18 YOSHIKO OSAKI	JPN 2015
39.44 JANE ASHER	GBR 2004	38.14 PAM HUTCHINGS	AUS 2012	1:36.33 SHOKO YONEZAWA	JPN 2010
39.51 MARGIT OHLSSON	SWE 2015	38.35 LOTTIE GEURTS	NED 2010	1:36.90 NANCY BROWN	USA 2011
39.56 BITTE AXLING	SWE 2016	100 M. FREE		1:37.87 PAM HUTCHINGS	AUS 2012
39.81 BARBARA FRID	USA 2012	1:18.59 JANE ASHER	GBR 2006	1:37.87 JANE ASHER	GBR 2006
100 M. FLY		1:19.11 CHRISTEL SCHULZ	GER 2015	1:39.76 DORIS STEADMAN	USA 2000
1:24.03 JUDY WILSON	GBR 2016	1:19.41 YOSHIKO OSAKI	JPN 2015	1:40.82 HELEN BIRD	AUS 2014
1:28.40 BRIGITTE MERTEN	GER 2016	1:24.31 GAIL ROPER	USA 2005	1:41.65 GRETHE BENDTSEN	DEN 2006
1:28.55 YOSHIKO OSAKI	JPN 2009	1:25.21 SHOKO YONEZAWA	JPN 2011	200 M. BACK	
1:34.06 MARGOT PETTIJOHN	USA 2016	1:26.20 JEAN TROY	USA 2002	3:22.68 CHRISTEL SCHULZ	GER 2015
1:34.70 JANE ASHER	GBR 2001	1:28.07 JILL COMPLIN	GBR 2016	3:32.59 JANE ASHER	GBR 2006
1:34.86 HELGA REICH	GER 2006	1:28.49 M. CUNNINGHAM	AUS 2000	3:34.09 NANCY BROWN	USA 2011
1:35.84 CLARY MUNNS	AUS 2015	1:28.57 PAM HUTCHINGS	AUS 2012	3:36.60 HARUMI SUGIMOTO	JPN 2013
1:37.41 CHRISTEL SCHULZ	GER 2010	1:28.69 MASAKO KOHA	JPN 2015	3:38.25 DORIS STEADMAN	USA 1999
1:37.56 GAIL ROPER	USA 1999	200 M. FREE		3:40.01 EVA JAROSOVA	CZE 2013
1:38.39 HAIKE HOLER	GER 2006	2:51.65 YOSHIKO OSAKI	JPN 2013	3:40.06 BETTY LORENZI	USA 2003
200 M. FLY		2:57.19 JANE ASHER	GBR 2006	3:40.33 PAM HUTCHINGS	AUS 2012
3:26.57 CLARY MUNNS	AUS 2016	3:00.26 CHRISTEL SCHULZ	GER 2015	3:41.22 JUDIE OLIVER	CAN 2009
3:26.69 JUDY WILSON	GBR 2016	3:07.58 GAIL ROPER	USA 2005	3:41.31 KAZU KOYAMA	JPN 2014
3:27.16 CAROLYN BOAK	USA 2016	3:08.94 LINDA MACPHERSON	CAN 2014	50 M. BRST	
3:30.68 MARGOT PETTIJOHN	USA 2016	3:10.85 JILL COMPLIN	GBR 2016	43.79 SHOKO YONEZAWA	JPN 2010
3:34.59 YOSHIKO OSAKI	JPN 2009	3:11.94 KUMIE TOKUDA	JPN 2012	46.20 JOANN LEILICH	USA 2014
3:37.23 HELGA REICH	GER 2006	3:11.99 JEAN TROY	USA 2002	46.86 ELIANE PELLIS	BEL 2008
3:38.39 JUNE KRAUSER	USA 1996	3:12.60 HELGA REICH	GER 2011	46.94 A.VAN OBBERGHEEN	BEL 2008
3:42.68 DANIELA BARNEA	USA 2014	3:13.88 DENISE ROBERTSON	AUS 2010	47.15 EDITH BOHM	GER 2003
3:44.96 JANE ASHER	GBR 2001	400 M. FREE		47.51 LUISE KNOPFLE	GER 2014
3:45.64 GAIL ROPER	USA 1999	6:08.74 YOSHIKO OSAKI	JPN 2015	47.66 MASAYO AZUMA	JPN 2010
100 M. I.M.		6:09.40 JANE ASHER	GBR 2006	48.23 GISELA GRUNER	GER 2012
1:23.23 DIANN UUSTAL	USA 2016	6:39.88 DENISE ROBERTSON	AUS 2010	48.26 KUMIE TOKUDA	JPN 2012
1:23.42 BRIGITTE MERTEN	GER 2016	6:42.00 LINDA MACPHERSON	CAN 2013	48.50 KIYOKO YONEDA	JPN 2016
1:24.41 CLARY MUNNS	AUS 2016	6:44.09 JEAN TROY	USA 2002	100 M. BRST	
1:24.88 YOSHIKO OSAKI	JPN 2009	6:49.27 HELGA REICH	GER 2012	1:36.48 SHOKO YONEZAWA	JPN 2010
1:25.13 MARGIT OHLSSON	SWE 2015	6:50.22 MARIA PENNA	BRA 2014	1:38.81 LUISE KNOPFLE	GER 2015
1:27.39 CHRISTEL SCHULZ	GER 2010	6:54.09 JILL COMPLIN	GBR 2016	1:40.82 JOANN LEILICH	USA 2014
1:27.80 SHOKO YONEZAWA	JPN 2005	6:54.68 GAIL ROPER	USA 2004	1:42.36 MASAYO AZUMA	JPN 2010
1:30.95 BITTE AXLING	SWE 2016	6:55.16 TAYO FUJIEDA	JPN 2012	1:43.34 ELIANE PELLIS	BEL 2008
1:31.82 NOBUKO YASUDA	JPN 2016	800 M. FREE		1:44.01 A.VAN OBBERGHEEN	BEL 2008
1:32.23 GAIL ROPER	USA 2000	12:25.61 YOSHIKO OSAKI	JPN 2013	1:46.09 KUMIE TOKUDA	JPN 2012
200 M. I.M.		12:42.75 JANE ASHER	GBR 2006	1:46.62 YOSHIKO OSAKI	JPN 2014
3:09.87 CLARY MUNNS	AUS 2015	13:55.30 HELGA REICH	GER 2013	1:47.02 TAYO FUJIEDA	JPN 2012
3:11.14 YOSHIKO OSAKI	JPN 2009	13:58.35 DENISE ROBERTSON	AUS 2014	1:47.80 SYLVIA NEUHAUSER	AUT 2004
3:11.17 BRIGITTE MERTEN	GER 2016	13:59.01 JEAN TROY	USA 2002	200 M. BRST	
3:12.16 CHRISTEL SCHULZ	GER 2011	14:00.42 MARIA PENNA	BRA 2014	3:33.03 SHOKO YONEZAWA	JPN 2010
3:15.46 MARGIT OHLSSON	SWE 2015	14:00.66 LINDA MACPHERSON	CAN 2013	3:36.11 LUISE KNOPFLE	GER 2015
3:20.75 NOBUKO YASUDA	JPN 2016	14:03.84 ANNE WILLIAMS	USA 2013	3:36.56 JOANN LEILICH	USA 2014
3:21.52 JUDIE OLIVER	CAN 2002	14:11.11 TAYO FUJIEDA	JPN 2013	3:40.80 MASAYO AZUMA	JPN 2010
3:24.64 JANE ASHER	GBR 2001	14:12.12 GAIL ROPER	USA 2005	3:47.58 ELIANE PELLIS	BEL 2008
3:25.28 HELGA REICH	GER 2006	1500 M. FREE		3:48.93 TAYO FUJIEDA	JPN 2013
3:26.44 SHOKO YONEZAWA	JPN 2006	24:04.75 JANE ASHER	GBR 2006	3:49.39 A.VAN OBBERGHEEN	BEL 2008
400 M. I.M.		26:20.36 LINDA MACPHERSON	CAN 2013	3:50.88 ANNE WILLIAMS	USA 2013



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3:54.55 SYLVIA NEUHAUSER	AUT	2004	*****	49.02 JOAN PARNELL	CAN	2008
3:56.11 JANE ASHER	GBR	2006	50 M. FREE	49.09 GRETHE BENDTSEN	DEN	2010
50 M. FLY			37.67 JANE ASHER	GBR	2011	
40.71 JANE ASHER	GBR	2006	38.03 GAIL ROPER	USA	2009	
41.55 CHRISTEL SCHULZ	GER	2015	39.21 JOHNNIE DETRICK	USA	2016	
42.23 HISAKO KITAYAMA	JPN	2012	40.24 MITSUKO KOMURO	JPN	2010	
42.44 HARUMI SUGIMOTO	JPN	2013	41.10 JUDIE OLIVER	CAN	2014	
44.18 GAIL ROPER	USA	2004	41.34 MARGERY MEYER	USA	2002	
44.53 JUDIE OLIVER	CAN	2007	41.40 CHIE TANI	JPN	2007	
44.91 KIYOKO YONEDA	JPN	2016	41.45 JEAN TROY	USA	2007	
45.00 MARCELA STASTNA	CZE	2013	41.78 M. CUNNINGHAM	AUS	2005	
45.30 CLAIRE O'DWYER	IRL	2016	41.98 OLGA JOHNSON	NZL	2001	
46.01 HARU TSUKINO	JPN	2016	100 M. FREE			
46.01 LUISE KNOPFLE	GER	2014	1:23.46 JANE ASHER	GBR	2011	
100 M. FLY			1:26.23 GAIL ROPER	USA	2009	
1:44.35 JUDIE OLIVER	CAN	2007	1:32.76 JOHNNIE DETRICK	USA	2016	
1:44.90 YOSHIKO OSAKI	JPN	2013	1:33.19 DENISE ROBERTSON	AUS	2015	
1:45.10 JANE ASHER	GBR	2006	1:33.88 JEAN TROY	USA	2007	
1:46.98 HELGA REICH	GER	2011	1:34.45 MARGERY MEYER	USA	2002	
1:49.36 GAIL ROPER	USA	2005	1:34.59 M. CUNNINGHAM	AUS	2005	
1:49.50 MARY ANN CASE	USA	2015	1:35.79 URSULA FROHLICH	GER	2015	
1:49.51 MARCELA STASTNA	CZE	2012	1:36.05 LOTTIE GEURTS	NED	2016	
1:50.11 SYLVIA NEUHAUSER	AUT	2005	1:36.42 BRITT GRILLI	SWE	2008	
1:51.41 JANET MASTERS	GBR	2016	200 M. FREE			
1:52.25 JUNE KRAUSER	USA	2001	3:01.61 JANE ASHER	GBR	2011	
200 M. FLY			3:18.57 GAIL ROPER	USA	2009	
3:57.63 HELGA REICH	GER	2012	3:21.74 DENISE ROBERTSON	AUS	2015	
3:58.98 LINDA MACPHERSON	CAN	2013	3:26.52 JEAN TROY	USA	2007	
4:00.46 JUDIE OLIVER	CAN	2007	3:27.57 MARGERY MEYER	USA	2002	
4:06.06 JANE ASHER	GBR	2006	3:28.59 URSULA FROHLICH	GER	2015	
4:08.39 LOIS KIVI NOCHMAN	USA	1999	3:33.80 ELIANE PELLIS	BEL	2013	
4:09.28 GAIL ROPER	USA	2004	3:35.64 NAN BOHL	USA	2011	
4:12.50 JUNE KRAUSER	USA	2001	3:36.33 AIKO HORII	JPN	2010	
4:24.60 HIROKO KOBAYASHI	JPN	2015	3:37.21 RITA SIMONTON	USA	1998	
4:25.06 SUE MAYNE	AUS	2011	400 M. FREE			
4:25.42 MARY ANN CASE	USA	2014	6:34.92 JANE ASHER	GBR	2011	
100 M. I.M.			6:57.02 DENISE ROBERTSON	AUS	2015	
1:31.38 YOSHIKO OSAKI	JPN	2013	7:20.96 JEAN TROY	USA	2007	
1:31.62 SHOKO YONEZAWA	JPN	2010	7:22.84 MARGERY MEYER	USA	2002	
1:32.92 JANE ASHER	GBR	2006	7:22.87 URSULA FROHLICH	GER	2015	
1:33.86 CHRISTEL SCHULZ	GER	2015	7:32.58 JUDIE OLIVER	CAN	2012	
1:38.11 GAIL ROPER	USA	2004	7:33.69 RITA SIMONTON	USA	1998	
1:38.73 JUDIE OLIVER	CAN	2007	7:37.49 DOROTHY DICKEY	AUS	2010	
1:42.04 TAYO FUJIEDA	JPN	2013	7:41.09 NAN BOHL	USA	2011	
1:42.50 MARCELA STASTNA	CZE	2012	7:42.75 AIKO HORII	JPN	2010	
1:42.98 JOANN LEILICH	USA	2015	800 M. FREE			
1:44.43 HELGA REICH	GER	2011	12:49.43 JANE ASHER	GBR	2011	
200 M. I.M.			14:12.49 DENISE ROBERTSON	AUS	2015	
3:22.23 YOSHIKO OSAKI	JPN	2013	15:12.35 JEAN TROY	USA	2007	
3:30.27 CHRISTEL SCHULZ	GER	2015	15:12.42 URSULA FROHLICH	GER	2016	
3:31.20 JANE ASHER	GBR	2006	15:24.58 JUDIE OLIVER	CAN	2013	
3:35.06 JUDIE OLIVER	CAN	2007	15:30.51 MARGERY MEYER	USA	2005	
3:37.24 GAIL ROPER	USA	2005	15:31.74 NAN BOHL	USA	2011	
3:40.89 JOANN LEILICH	USA	2015	15:43.22 DOROTHY DICKEY	AUS	2011	
3:43.58 JUNE KRAUSER	USA	2001	15:49.21 RITA SIMONTON	USA	1998	
3:45.86 MARCELA STASTNA	CZE	2012	16:04.77 VIRGINIA KETELEER	BEL	2006	
3:46.71 TAYO FUJIEDA	JPN	2013	1500 M. FREE			
3:47.43 HELGA REICH	GER	2011	25:45.37 JANE ASHER	GBR	2011	
400 M. I.M.			28:22.75 DENISE ROBERTSON	AUS	2016	
7:11.33 YOSHIKO OSAKI	JPN	2013	28:55.09 JEAN TROY	USA	2007	
7:34.39 JANE ASHER	GBR	2006	28:57.32 URSULA FROHLICH	GER	2016	
7:39.96 JUDIE OLIVER	CAN	2007	29:34.22 DOROTHY DICKEY	AUS	2010	
7:52.71 JUNE KRAUSER	USA	2001	29:39.08 MARGERY MEYER	USA	2002	
7:59.77 NANCY BROWN	USA	2011	29:48.75 RITA SIMONTON	USA	1998	
8:05.23 GAIL ROPER	USA	2006	30:15.00 JUDIE OLIVER	CAN	2013	
8:16.68 SUE MAYNE	AUS	2011	30:25.73 FRANCA PARODI	ITA	2013	
8:20.33 JANET MASTERS	GBR	2015	30:32.06 VIRGINIA KETELEER	BEL	2005	
8:26.33 KAZU KOYAMA	JPN	2014	50 M. BACK			
8:27.31 ANN HIRSCH	USA	2008	46.10 JANE ASHER	GBR	2011	
*****			46.29 SHOKO YONEZAWA	JPN	2016	
WOMEN 80-84			47.63 JUDIE OLIVER	CAN	2014	
			48.82 KERSTIN GJORES	SWE	2007	
			49.02 JOAN PARNELL	CAN	2008	
			49.09 GRETHE BENDTSEN	DEN	2010	
			49.10 EVA JAROSOVA	CZE	2016	
			49.77 MAE WALDIE	CAN	2015	
			50.03 MARGERY MEYER	USA	2002	
			50.73 NANCY KINNEY	USA	2009	
			100 M. BACK			
			1:44.88 JANE ASHER	GBR	2011	
			1:45.08 SHOKO YONEZAWA	JPN	2016	
			1:45.29 JUDIE OLIVER	CAN	2014	
			1:45.36 EVA JAROSOVA	CZE	2016	
			1:49.83 JOAN PARNELL	CAN	2008	
			1:50.61 BETTY LORENZI	USA	2007	
			1:52.72 KERSTIN GJORES	SWE	2007	
			1:53.51 KIMIKO OOKA	JPN	2009	
			1:54.86 GRETHE BENDTSEN	DEN	2010	
			1:55.05 MAE WALDIE	CAN	2015	
			200 M. BACK			
			3:42.88 JANE ASHER	GBR	2011	
			3:48.35 EVA JAROSOVA	CZE	2016	
			3:49.32 JUDIE OLIVER	CAN	2014	
			3:59.15 NANCY KINNEY	USA	2009	
			4:07.13 BETTY LORENZI	USA	2007	
			4:08.87 JOAN PARNELL	CAN	2008	
			4:09.07 DORIS STEADMAN	USA	2004	
			4:09.21 URSULA FROHLICH	GER	2015	
			4:12.74 MAE WALDIE	CAN	2015	
			4:13.99 KERSTIN GJORES	SWE	2010	
			50 M. BRST			
			46.48 SHOKO YONEZAWA	JPN	2015	
			48.46 ELIANE PELLIS	BEL	2013	
			49.35 A.VAN OBBERGHEN	BEL	2011	
			50.48 SATOKO SUZUKI	JPN	2003	
			50.73 MASAYO AZUMA	JPN	2015	
			51.23 GISELA GRUNER	GER	2016	
			51.34 EDITH BOHM	GER	2008	
			52.20 JOHNNIE DETRICK	USA	2015	
			53.62 ANN HIRSCH	USA	2011	
			53.64 JUDIE OLIVER	CAN	2013	
			100 M. BRST			
			1:45.52 SHOKO YONEZAWA	JPN	2015	
			1:49.73 A.VAN OBBERGHEN	BEL	2011	
			1:49.86 MASAYO AZUMA	JPN	2015	
			1:54.30 SATOKO SUZUKI	JPN	2003	
			1:57.31 ANN HIRSCH	USA	2011	
			1:58.44 JANE ASHER	GBR	2011	
			1:59.48 JUDIE OLIVER	CAN	2014	
			2:00.48 GISELA GRUNER	GER	2016	
			2:01.32 YOKO MIZUNO	JPN	2016	
			2:03.93 SAYOKO WATANABE	JPN	2007	
			200 M. BRST			
			3:54.35 SHOKO YONEZAWA	JPN	2016	
			3:57.78 MASAYO AZUMA	JPN	2016	
			4:00.52 A.VAN OBBERGHEN	BEL	2011	
			4:10.42 JUDIE OLIVER	CAN	2012	
			4:12.33 JANE ASHER	GBR	2011	
			4:16.16 ANN HIRSCH	USA	2011	
			4:17.11 SUE MAYNE	AUS	2016	
			4:27.04 YOKO MIZUNO	JPN	2016	
			4:29.24 EIKO MORI	JPN	2007	
			4:31.25 SYLVIA EISELE	CAN	2009	
			50 M. FLY			
			45.57 JANE ASHER	GBR	2011	
			46.90 JUDIE OLIVER	CAN	2012	
			48.85 GAIL ROPER	USA	2009	
			54.73 SHIZUKO SHINOMIYA	JPN	2016	
			55.65 LOIS KIVI NOCHMAN	USA	2004	
			56.51 CHIE TANI	JPN	2006	
			57.92 DENISE ROBERTSON	AUS	2015	
			57.97 NANCY KINNEY	USA	2009	
			58.13 SYLVIA EISELE	CAN	2009	
			58.20 JEAN TROY	USA	2008	



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

100 M. FLY		1:43.97	JEAN TROY	USA 2012	2:11.03	WILLY VAN RYSEL	GBR 2001	
1:50.08	JUDIE OLIVER	CAN 2012	1:44.91	NAN BOHL	USA 2014	2:11.06	SILVIA CRAVERI	ITA 2009
1:58.02	GAIL ROPER	USA 2009	1:46.44	DOROTHY DICKEY	AUS 2015	2:11.09	PERSIS RAE	AUS 2005
1:59.41	JANE ASHER	GBR 2011	1:46.95	MARGERLY MEYER	USA 2008	200 M. BACK		
2:02.63	LOIS KIVI NOCHMAN	USA 2004	1:47.73	BETTY LORENZI	USA 2012	3:57.91	JANE ASHER	GBR 2016
2:13.07	DENISE ROBERTSON	AUS 2015	1:48.44	MIEKO KAMOSHITA	JPN 2012	4:05.00	BETTY LORENZI	USA 2014
2:14.51	CHIE TANI	JPN 2007	1:48.55	OLGA JOHNSON	NZL 2006	4:18.50	EDITH THEIN	ISR 2003
2:14.53	YAYOI KANAZASHI	JPN 2016	1:49.64	RITA SIMONTON	USA 2003	4:29.09	NANCY KINNEY	USA 2015
2:16.00	Y.KAPLAN-BADER	FRA 2008	1:50.59	BETTY RUSS	USA 2013	4:31.92	KERSTIN GJORES	SWE 2012
2:17.23	SYLVIA EISELE	CAN 2009	200 M. FREE			4:34.10	AIKO GOTO	JPN 2016
2:19.85	JEAN TROY	USA 2008	3:12.66	JANE ASHER	GBR 2016	4:36.48	BUNNY CEDERLUND	USA 2006
200 M. FLY			3:49.35	JEAN TROY	USA 2012	4:38.83	KIMIKO OOKA	JPN 2014
4:10.18	JUDIE OLIVER	CAN 2012	3:50.49	DOROTHY DICKEY	AUS 2015	4:40.96	DOROTHY DICKEY	AUS 2015
4:31.97	LOIS KIVI NOCHMAN	USA 2005	3:54.18	MARGERLY MEYER	USA 2007	4:41.34	MARIA LENK	BRA 2000
4:54.54	BETTY RUSS	USA 2008	3:57.48	RITA SIMONTON	USA 2003	50 M. BRST		
5:20.76	Y.KAPLAN-BADER	FRA 2010	4:01.13	NAN BOHL	USA 2014	52.17	AGNES OBBERGHEN	BEL 2016
5:22.65	MAXINE O MERLINO	USA 1992	4:04.35	BETTY LORENZI	USA 2012	58.27	JANE ASHER	GBR 2016
5:24.06	JAE HOWELL	USA 2002	4:05.78	G. MCKENZIE-HICKS	AUS 2012	59.00	M.KAPCAROVA	SVK 2013
5:27.00	JEAN DURSTON	USA 1997	4:05.82	OLGA JOHNSON	NZL 2006	1:00.27	SYLVIA EISELE	CAN 2014
5:29.14	THELMA BRYAN	AUS 2010	4:10.40	HISAKO KOGA	JPN 2002	1:00.45	ETSUKO KIMURA	JPN 2014
5:38.21	NADIR TAUBERT	BRA 2013	400 M. FREE			1:00.56	SATOKO SUZUKI	JPN 2008
5:39.29	DOROTHY WESTON	GBR 1996	6:57.06	JANE ASHER	GBR 2016	1:02.09	OLGA KOKORINA	RUS 2012
100 M. I.M.			7:58.41	MARGERLY MEYER	USA 2008	1:02.52	NAN BOHL	USA 2014
1:41.14	SHOKO YONEZAWA	JPN 2015	8:03.09	JEAN TROY	USA 2012	1:02.92	KIMIE KANAI	JPN 2009
1:42.46	JANE ASHER	GBR 2011	8:03.71	DOROTHY DICKEY	AUS 2015	1:03.54	MASAE KURATA	JPN 2016
1:43.51	JUDIE OLIVER	CAN 2013	8:17.82	RITA SIMONTON	USA 2003	100 M. BRST		
1:44.95	GAIL ROPER	USA 2009	8:19.75	NAN BOHL	USA 2014	1:56.68	AGNES OBBERGHEN	BEL 2016
1:49.26	MITSUKO KOMURO	JPN 2010	8:31.16	AIKO HORII	JPN 2015	2:11.98	SATOKO SUZUKI	JPN 2009
1:54.74	DENISE ROBERTSON	AUS 2015	8:39.86	BETTY RUSS	USA 2012	2:17.21	ETSUKO KIMURA	JPN 2014
1:55.68	JOHNNIE DETRICK	USA 2015	8:44.56	MAURINE KORNFELD	USA 2008	2:18.42	OLGA KOKORINA	RUS 2012
1:55.83	URSULA FROHLICH	GER 2015	8:45.92	MARJORIE SHARPE	USA 2002	2:21.06	SYLVIA EISELE	CAN 2014
1:56.27	JOAN PARNELL	CAN 2008	800 M. FREE			2:22.83	NAN BOHL	USA 2015
1:56.65	JEAN TROY	USA 2007	14:24.83	JANE ASHER	GBR 2016	2:24.69	JEAN TROY	USA 2012
200 M. I.M.			16:23.22	DOROTHY DICKEY	AUS 2015	2:25.10	M.KAPCAROVA	SVK 2013
3:43.73	JANE ASHER	GBR 2011	16:25.24	BETTY LORENZI	USA 2012	2:25.30	MASAKO SHOJI	JPN 2014
3:47.29	JUDIE OLIVER	CAN 2012	16:37.49	NAN BOHL	USA 2014	2:26.71	DOROTHY WILLIAMS	GBR 2008
3:55.51	GAIL ROPER	USA 2009	16:49.43	RITA SIMONTON	USA 2003	200 M. BRST		
4:07.37	URSULA FROHLICH	GER 2015	17:36.42	AIKO HORII	JPN 2015	4:38.73	JANE ASHER	GBR 2016
4:07.66	JEAN TROY	USA 2007	18:02.38	MAURINE KORNFELD	USA 2007	5:09.65	DOROTHY WILLIAMS	GBR 2008
4:11.26	SUE MAYNE	AUS 2016	18:03.40	YOSHIKO KINOSHITA	JPN 2016	5:10.89	ETSUKO KIMURA	JPN 2014
4:15.95	DENISE ROBERTSON	AUS 2015	18:14.96	ELSA DE LEEUW	CAN 2009	5:13.19	JEAN TROY	USA 2012
4:16.31	MITSUKO KOMURO	JPN 2010	18:15.27	BETTY RUSS	USA 2012	5:15.45	OLGA KOKORINA	RUS 2012
4:22.00	SYLVIA EISELE	CAN 2009	1500 M. FREE			5:17.95	SYLVIA EISELE	CAN 2014
4:22.29	LOIS KIVI NOCHMAN	USA 2005	28:02.25	JANE ASHER	GBR 2016	5:19.81	NAN BOHL	USA 2015
400 M. I.M.			30:50.51	BETTY LORENZI	USA 2012	5:26.93	EVA KOPLIKOVA	CZE 2012
8:04.67	JUDIE OLIVER	CAN 2012	31:44.50	RITA SIMONTON	USA 2003	5:29.71	ELSA DE LEEUW	CAN 2009
8:07.34	JANE ASHER	GBR 2011	32:37.40	DOROTHY DICKEY	AUS 2016	5:32.72	Y.KAPLAN-BADER	FRA 2013
8:39.68	GAIL ROPER	USA 2009	33:03.30	MARGERLY MEYER	USA 2007	50 M. FLY		
8:47.93	URSULA FROHLICH	GER 2015	34:37.00	AIKO HORII	JPN 2016	52.20	JANE ASHER	GBR 2016
9:01.89	DENISE ROBERTSON	AUS 2015	34:52.73	YOSHIKO KINOSHITA	JPN 2016	1:02.04	LOIS KIVI NOCHMAN	USA 2009
9:30.65	JEAN TROY	USA 2007	35:03.42	BETTY RUSS	USA 2012	1:06.92	JEAN TROY	USA 2012
9:31.73	LOIS KIVI NOCHMAN	USA 2004	36:05.90	SHEILA NAIMAN	CAN 2015	1:07.35	JEAN DURSTON	USA 1999
9:37.55	BETTY RUSS	USA 2008	36:22.53	Y.KAPLAN-BADER	FRA 2013	1:07.98	E.LOBSIGER	ESP 2016
9:42.82	SYLVIA EISELE	CAN 2009	50 M. BACK			1:09.68	Y.KAPLAN-BADER	FRA 2013
9:50.43	MAXINE MERLINO	USA 1992	49.07	JANE ASHER	GBR 2016	1:11.38	MARIA LENK	BRA 2000
			51.75	BETTY LORENZI	USA 2012	1:12.24	EMIKO SEKINO	JPN 2015
*****			56.46	KERSTIN GJORES	SWE 2012	1:12.55	NORA RONAI	BRA 2009
*****			57.36	NANCY KINNEY	USA 2015	1:16.65	M. CUNNINGHAM	AUS 2010
*****			57.43	KIMIKO OOKA	JPN 2014	100 M. FLY		
50 M. FREE			57.62	BUNNY CEDERLUND	USA 2006	2:21.77	LOIS KIVI NOCHMAN	USA 2009
38.75	JANE ASHER	GBR 2016	58.02	NOEL MORROW	CAN 2004	2:27.22	BETTY RUSS	USA 2013
44.68	MIEKO KAMOSHITA	JPN 2012	58.38	MASA SHIGEMITSU	JPN 2000	2:36.50	JEAN DURSTON	USA 1999
45.84	TOKUYO KAMIGAKI	JPN 2011	58.80	JOAN PARNELL	CAN 2013	2:37.57	Y.KAPLAN-BADER	FRA 2013
46.01	NAN BOHL	USA 2014	59.11	MARGERLY MEYER	USA 2008	2:51.00	MAXINE MERLINO	USA 1998
46.31	OLGA JOHNSON	NZL 2006	100 M. BACK			2:59.72	JUNE REYNOLDS	USA 2007
46.35	JEAN TROY	USA 2012	1:50.18	JANE ASHER	GBR 2016	3:05.69	JAE HOWELL	USA 2007
47.11	MASAE KURATA	JPN 2016	1:52.21	BETTY LORENZI	USA 2012	3:16.99	NORA RONAI	BRA 2012
47.72	DOROTHY DICKEY	AUS 2015	2:05.64	NANCY KINNEY	USA 2015	3:20.81	JEWEL COOKE	USA 1996
48.10	MARGERLY MEYER	USA 2008	2:05.95	KERSTIN GJORES	SWE 2012	3:22.29	EDITH GLUSAC	USA 2003
48.37	BETTY RUSS	USA 2012	2:06.16	KIMIKO OOKA	JPN 2014	200 M. FLY		
100 M. FREE			2:10.25	AIKO GOTO	JPN 2016	4:59.50	LOIS KIVI NOCHMAN	USA 2009
1:28.60	JANE ASHER	GBR 2016	2:10.33	BUNNY CEDERLUND	USA 2006	5:33.79	BETTY RUSS	USA 2012



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5:42.80	JEAN DURSTON	USA	1999	4:58.52	BETTY BRUSSEL	CAN	2014	1:02.33	OLGA KOKORINA	RUS	2013
6:01.46	MAXINE MERLINO	USA	1998	5:08.97	CHIYOKO TAKIZAWA	JPN	2012	1:11.00	INGEBORG FRITZE	GER	2011
6:04.28	Y.KAPLAN-BADER	FRA	2014	5:11.66	WILLY VAN RYSEL	GBR	2006	1:15.48	FUSAKO TOMINARI	JPN	2007
6:26.75	JAE HOWELL	USA	2007	5:15.90	VALERIE LINCOLN	AUS	2014	1:16.42	NORA RONAI	BRA	2014
6:45.75	JUNE REYNOLDS	USA	2007	5:19.08	FUMI MURATA	JPN	2014	1:18.38	KALIS RASMUSSEN	CAN	2015
7:12.95	JEWEL COOKE	USA	1996	5:21.30	MARIA LENK	BRA	2005	1:18.76	BETTY BRUSSELS	CAN	2014
7:15.07	KATHERINE PELTON	USA	1990	400 M. FREE				1:20.12	MICHELE GUILLAIS	FRA	2011
7:47.68	NORA RONAI	BRA	2010	9:01.89	RITA SIMONTON	USA	2008	1:21.91	DOROTHY WESTON	GBR	2003
100 M. I.M.				9:21.61	MAURINE KORNFELD	USA	2013	1:22.47	LIZ KNUTZEN	DEN	2010
1:47.02	JANE ASHER	GBR	2016	10:01.56	HISAKO KOGA	JPN	2007	1:24.48	MARIA LENK	BRA	2005
2:08.06	JEAN TROY	USA	2012	10:06.85	BETTY BRUSSEL	CAN	2015	100 M. BRST			
2:12.85	JEWEL COOKE	USA	1995	10:29.76	WILLY VAN RYSEL	GBR	2006	2:25.58	OLGA KOKORINA	RUS	2013
2:12.90	AGNES KISS	HUN	2013	10:33.62	ELSA DE LEEUW	CAN	2014	2:46.46	INGEBORG FRITZE	GER	2011
2:13.69	MARGERY MEYER	USA	2008	10:45.34	MAXINE MERLINO	USA	2002	3:00.44	KALIS RASMUSSEN	CAN	2015
2:15.05	KIMIKO OOKA	JPN	2014	11:10.67	MARIA LENK	BRA	2005	3:01.08	NAKA FUKUOKA	JPN	2014
2:15.23	Y.KAPLAN-BADER	FRA	2014	11:15.72	VALERIE LINCOLN	AUS	2015	3:04.86	DOROTHY WESTON	GBR	2003
2:17.34	BETTY RUSS	USA	2013	11:25.22	KALIS RASMUSSEN	CAN	2016	3:05.60	MARIA LENK	BRA	2005
2:18.42	E.LOBSIGER	ESP	2015	800 M. FREE				3:14.51	BETTY BRUSSEL	CAN	2014
2:18.55	LOIS KIVI NOCHMAN	USA	2009	18:38.69	MAURINE KORNFELD	USA	2011	3:16.60	BARBARA BOHM	GER	2010
200 M. I.M.				18:38.98	RITA SIMONTON	USA	2008	3:25.74	M.GOTTSCHALK	GER	1999
4:02.82	JANE ASHER	GBR	2016	20:07.33	BETTY BRUSSEL	CAN	2014	3:26.15	MIRIAM TUOVILA	USA	2015
4:48.96	JEAN TROY	USA	2012	21:16.76	WILLY VAN RYSEL	GBR	2006	200 M. BRST			
4:59.06	LOIS KIVI NOCHMAN	USA	2009	22:18.84	MAXINE MERLINO	USA	2002	5:15.24	OLGA KOKORINA	RUS	2013
5:04.14	Y.KAPLAN-BADER	FRA	2013	22:40.67	FUMI MURATA	JPN	2014	6:31.21	INGEBORG FRITZE	GER	2011
5:09.92	MARIA LENK	BRA	2000	22:57.60	VALERIE LINCOLN	AUS	2015	6:37.73	MARIA LENK	BRA	2005
5:12.01	JEAN DURSTON	USA	1999	23:17.55	KALIS RASMUSSEN	CAN	2015	6:45.18	KALIS RASMUSSEN	CAN	2014
5:12.13	MAXINE MERLINO	USA	1998	25:03.34	MARIA LENK	BRA	2007	6:59.08	BETTY BRUSSEL	CAN	2016
5:21.34	E.LOBSIGER	ESP	2016	25:12.44	KATH JOHNSTONE	NZL	2007	7:06.04	BARBARA BOHM	GER	2010
5:26.90	RITA SIMONTON	USA	2004	1500 M. FREE				7:20.16	MIRIAM TUOVILA	USA	2015
5:36.16	MARIANNA BERKLEY	USA	2007	35:40.38	RITA SIMONTON	USA	2008	7:56.76	CHARLOTTE SANDDAL	USA	2012
400 M. I.M.				41:20.62	WILLY VAN RYSEL	GBR	2006	7:57.95	MICHIKO HAMURO	JPN	2009
10:13.73	JEAN TROY	USA	2012	41:59.32	FUMI MURATA	JPN	2013	8:05.15	M. CUNNINGHAM	AUS	2015
10:28.05	LOIS KIVI NOCHMAN	USA	2009	44:27.18	MAXINE MERLINO	USA	2002	50 M. FLY			
10:39.21	Y.KAPLAN-BADER	FRA	2014	45:12.58	KALIS RASMUSSEN	CAN	2015	1:21.95	CHARLOTTE SANDDAL	USA	2012
10:55.73	JEAN DURSTON	USA	1999	48:36.59	KATH JOHNSTONE	NZL	2007	1:25.65	NORA RONAI	BRA	2014
11:02.02	MAXINE MERLINO	USA	1998	50:36.15	LILLIAN WARREN	CAN	2010	1:30.41	RITA SIMONTON	USA	2008
11:16.04	BETTY RUSS	USA	2015	53:29.69	CHARLOTTE SANDDAL	USA	2015	1:34.61	DOROTHY WESTON	GBR	2003
11:51.00	KALIS RASMUSSEN	CAN	2009	53:43.25	GUDRUN KLOOS	RSA	2015	1:35.56	MAXINE MERLINO	USA	2002
12:24.66	JAE HOWELL	USA	2007	50 M. BACK				1:48.46	MARIE KELLEHER	USA	2006
12:30.12	JUNE REYNOLDS	USA	2007	1:05.70	WILLY VAN RYSEL	GBR	2006	1:49.08	JEWEL COOKE	USA	2000
12:47.00	NORA RONAI	BRA	2012	1:06.29	KALIS RASMUSSEN	CAN	2014	1:53.34	KALIS RASMUSSEN	CAN	2014
*****				1:08.16	NOEL MORROW	CAN	2009	1:54.97	MAURINE KORNFELD	USA	2013
*****				1:09.37	HANA ENATSU	JPN	2013	2:30.12	YOSHIE HASEGAWA	JPN	2016
*****				1:12.15	MAURINE KORNFELD	USA	2011	100 M. FLY			
*****				1:12.16	M. CUNNINGHAM	AUS	2015	3:21.00	DOROTHY WESTON	GBR	2003
*****				1:12.54	RITA SIMONTON	USA	2010	3:45.69	NORA RONAI	BRA	2014
*****				1:13.01	TRUDY BULLIVANT	AUS	2012	4:06.32	JEWELL COOK	USA	1999
*****				1:13.33	HIDEKO HANADA	JPN	2009	5:02.23	CHARLOTTE SANDDAL	USA	2016
*****				1:13.75	MARIA LENK	BRA	2005	200 M. FLY			
*****				100 M. BACK				9:17.02	NORA RONAI	BRA	2014
*****				2:24.46	PERSIS RAE	AUS	2010	100 M. I.M.			
*****				2:26.64	WILLY VAN RYSEL	GBR	2006	2:22.96	OLGA KOKORINA	RUS	2013
*****				2:29.86	HANA ENATSU	JPN	2013	2:51.20	RITA SIMONTON	USA	2008
*****				2:30.57	KALIS RASMUSSEN	CAN	2015	2:53.56	NORA RONAI	BRA	2014
*****				2:32.24	RITA SIMONTON	USA	2010	3:00.91	KALIS RASMUSSEN	CAN	2014
*****				2:33.82	NOEL MORROW	CAN	2009	3:06.08	DOROTHY WESTON	GBR	2003
*****				2:34.81	MAURINE KORNFELD	USA	2011	3:06.87	MAXINE MERLINO	USA	2004
*****				2:36.08	HIDEKO HANADA	JPN	2009	3:08.12	MAURINE KORNFELD	USA	2011
*****				2:40.94	TRUDY BULLIVANT	AUS	2012	3:13.87	JEWEL COOKE	USA	1999
*****				2:43.99	MARIA LENK	BRA	2005	3:20.81	M. CUNNINGHAM	AUS	2015
*****				200 M. BACK				3:23.98	CHARLOTTE SANDDAL	USA	2012
*****				4:57.77	PERSIS RAE	AUS	2010	200 M. I.M.			
*****				5:02.82	WILLY VAN RYSEL	GBR	2006	5:58.46	RITA SIMONTON	USA	2008
*****				5:24.31	MAURINE KORNFELD	USA	2014	6:25.12	MAXINE MERLINO	USA	2003
*****				5:29.42	HIDEKO HANADA	JPN	2009	6:56.70	JEWEL COOKE	USA	1999
*****				5:33.60	KALIS RASMUSSEN	CAN	2014	7:00.01	KALIS RASMUSSEN	CAN	2015
*****				5:44.73	TRUDY BULLIVANT	AUS	2012	7:16.26	CHARLOTTE SANDDAL	USA	2012
*****				5:46.03	HANA ENATSU	JPN	2015	7:40.70	YOSHIE HASEGAWA	JPN	2015
*****				5:54.06	BETTY BRUSSEL	CAN	2016	10:46.88	GERDA VOSS	CAN	2009
*****				5:56.27	ANNE WALKER	USA	2006	11:57.44	HILDA BUEL	USA	2004
*****				6:16.53	L.GENOULAZ	FRA	2015	400 M. I.M.			
*****				50 M. BRST				13:55.37	NORA RONAI	BRA	2014



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14:55.37	JEWEL COOKE	USA	1999	5:58.95	MAURINE KORNFELD	USA	2016	1:50.99	EDUARDO SCHIESARI	BRA	2002
				6:24.50	MIEKO NAGAOKA	JPN	2009	1:51.11	HERMAN LOUW	USA	2000
*****				7:36.62	EDITH HENDRY	USA	2006	400 M. FREE			
	WOMEN 95-99			9:20.51	BERNARDA ANGULO	ESP	2008	3:53.60	SYLVAIN CROS	FRA	2007
*****				9:37.39	ROSA SELLARES	ESP	2005	3:55.84	LUCA PUCE	ITA	2014
				11:55.69	MARGO BATES	AUS	2007	3:56.53	A.ANGELOTTI	BRA	2001
50 M. FREE				50 M. BRST				3:56.60	MARTIN HOHL	SUI	2009
1:04.68	MAURINE KORNFELD	USA	2016	1:50.07	LAURA OLIVEIRA	BRA	2014	3:56.66	AURELIEN COQ	FRA	2004
1:13.87	SHIZUE SHIMIZU	JPN	2006	2:25.20	MIEKO NAGAOKA	JPN	2010	3:57.03	ERIC NILSSON	USA	2013
1:21.48	LAURA OLIVEIRA	BRA	2014	2:54.04	KATH JOHNSTONE	NZL	2014	3:57.24	STEVEN MELLOR	GBR	2000
1:21.93	MIEKO NAGAOKA	JPN	2009	3:28.94	MICHIKO HAMURO	JPN	2014	3:58.23	ALEX KOSTICH	USA	1997
1:23.02	KIKUE ISHII	JPN	2016	100 M. I.M.				3:59.34	SOHEI WASHINO	JPN	2016
1:24.92	YOSHIKO WATANABE	JPN	2012	3:32.13	MAURINE KORNFELD	USA	2016	3:59.78	GAVIN LILLEY	GBR	1993
1:26.91	INGEBORG FRITZE	GER	2016	3:54.89	MARIE KELLEHER	USA	2008	800 M. FREE			
1:28.20	KIKU ONO	JPN	2012	*****				8:07.91	A.ANGELOTTI	BRA	2001
1:29.00	EMI HAYASHI	JPN	2014		WOMEN 100-104			8:13.81	G.ORPHANIDES	GBR	2003
1:40.15	MICHELE GUILLAIS	FRA	2016	*****				8:14.75	ALEX KOSTICH	USA	1997
100 M. FREE								8:17.80	ERIC NILSSON	USA	2013
2:29.17	MAURINE KORNFELD	USA	2016	50 M. FREE				8:18.68	RAFAEL CABANILLAS	ESP	2015
2:59.01	MIEKO NAGAOKA	JPN	2010	1:34.12	MIEKO NAGAOKA	JPN	2014	8:21.79	G.SPLITTGERBER	GER	2000
3:10.36	MARIE KELLEHER	USA	2008	100 M. FREE				8:22.10	MATTEO MONTANARI	ITA	2015
3:26.81	LAURA OLIVEIRA	BRA	2014	3:30.49	MIEKO NAGAOKA	JPN	2014	8:22.21	KOHEI FUKAYA	JPN	2009
3:43.58	MICHELE GUILLAIS	FRA	2016	200 M. FREE				8:25.06	JASON NIELSON	USA	1996
4:04.76	KATH JOHNSTONE	NZL	2013	7:27.89	MIEKO NAGAOKA	JPN	2014	8:26.25	SYLVAIN CROS	FRA	2009
4:25.97	BERNARDA ANGULO	ESP	2008	400 M. FREE				1500 M. FREE			
4:32.42	ROSA SELLARES	ESP	2006	16:40.10	MIEKO NAGAOKA	JPN	2014	15:29.68	G.ORPHANIDES	GBR	2003
4:35.98	MARGE ANDERSON	CAN	1998	800 M. FREE				15:41.81	ALEX KOSTICH	USA	1997
4:41.51	ANNE DUNIVIN	USA	2011	36:51.23	MIEKO NAGAOKA	JPN	2014	15:50.89	H.ALBERTO RIBEIRO	POR	2015
200 M. FREE				1500 M. FREE				15:51.03	AKIRA OTANI	JPN	2014
5:06.73	MAURINE KORNFELD	USA	2016	75:54.39	MIEKO NAGAOKA	JPN	2015	15:56.29	MARTIN HOHL	SUI	2008
5:25.74	RITA SIMONTON	USA	2013	50 M. BACK				15:56.57	RAFAEL CABANILLAS	ESP	2014
6:17.47	MIEKO NAGAOKA	JPN	2009	1:38.71	MIEKO NAGAOKA	JPN	2014	16:02.38	MATTEO MONTANARI	ITA	2016
6:50.52	MARIE KELLEHER	USA	2008	3:53.60	ROSA SELLARES	ESP	2010	16:07.48	FEDERICO FILOSI	ITA	2016
8:13.16	LAURA OLIVEIRA	BRA	2014	100 M. BACK				16:08.62	TAMMO SCHROEDER	GER	2009
9:26.22	BERNARDA ANGULO	ESP	2009	3:42.81	MIEKO NAGAOKA	JPN	2014	16:15.61	CRAIG PICKERING	USA	2006
9:32.52	ROSA SELLARES	ESP	2006	200 M. BACK				50 M. BACK			
10:33.89	ANNE DUNIVIN	USA	2011	7:40.01	MIEKO NAGAOKA	JPN	2014	24.17	MARCO LOUGHRAN	GBR	2014
400 M. FREE				*****				24.55	DARIAN TOWNSEND	USA	2013
10:08.44	MAURINE KORNFELD	USA	2016		M E N 25-29			24.66	TONY COX	USA	2016
13:05.10	MIEKO NAGAOKA	JPN	2010	*****				24.98	DAVID RUSSELL	USA	2014
15:28.76	MASAKO MATSUNO	JPN	2012					25.00	RYO ISHII	JPN	2015
19:20.68	BERNARDA ANGULO	ESP	2007	50 M. FREE				25.02	HIROKI SAKURAI	JPN	2016
19:24.06	ROSA SELLARES	ESP	2006	21.37	CESAR CIELO	USA	2014	25.02	RODRIGO TRIVINO	BRA	2012
21:39.84	ANNE DUNIVIN	USA	2011	21.59	A.LIUKKONEN	FIN	2014	25.05	STEV THELOKE	GER	2004
800 M. FREE				22.08	DARIAN TOWNSEND	USA	2013	25.15	KEVIN DOAK	USA	2007
20:57.02	MAURINE KORNFELD	USA	2016	22.25	SERGEY MUKHIN	RUS	2013	25.17	SIMON SJODIN	SWE	2013
27:58.70	MIEKO NAGAOKA	JPN	2010	22.30	RYO ISHII	JPN	2015	100 M. BACK			
1500 M. FREE				22.36	DANIEL BELINI	BRA	2009	52.99	TONY COX	USA	2016
42:34.14	RITA SIMONTON	USA	2013	22.37	RENATO GUERALDI	BRA	2009	53.38	DAVID RUSSELL	USA	2014
55:14.66	MIEKO NAGAOKA	JPN	2011	22.38	ERIC MCGINNIS	USA	2014	53.85	RYO ISHII	JPN	2015
50 M. BACK				22.40	LUKAS HARNOL	CZE	2009	54.23	LEONARDO SUMIDA	BRA	2011
1:20.28	MIEKO NAGAOKA	JPN	2010	22.47	LUKE PECHMANN	USA	2016	54.47	TAKASHI TAKEMOTO	JPN	2012
1:22.45	MAURINE KORNFELD	USA	2016	100 M. FREE				54.58	ROMAN MIKHAILOV	RUS	2015
1:25.98	MICHELE GUILLAIS	FRA	2016	47.43	CESAR CIELO	USA	2014	54.99	IAN POWELL	GBR	2011
1:27.92	EDITH HENDRY	USA	2006	48.29	DARIAN TOWNSEND	USA	2013	55.04	STEFAN HERBST	GER	2005
1:40.07	LAURA OLIVEIRA	BRA	2014	48.32	ADAM RITTER	USA	2014	55.05	JUNICHI MORITA	JPN	2016
1:47.22	KIKU ONO	JPN	2012	48.58	S.KUNZELMANN	GER	2005	55.15	TERO RATY	FIN	2004
1:50.40	MASAKO MATSUNO	JPN	2012	49.58	ANDREW MANLEY	GBR	2003	200 M. BACK			
1:52.63	MARY LATHRAM	USA	2010	49.60	KOSUKE MAEDA	JPN	2015	1:56.22	STEFAN HERBST	GER	2006
1:53.95	KATH JOHNSTONE	NZL	2013	49.90	DANIEL BELINI	BRA	2009	1:59.68	IAN POWELL	GBR	2011
1:57.45	BERNARDA ANGULO	ESP	2008	49.90	AKIRA OGASAWARA	JPN	2010	2:00.59	TAKASHI TAKEMOTO	JPN	2016
100 M. BACK				49.90	LUKAS HARNOL	CZE	2009	2:00.80	VICTOR MIGEON	FRA	2015
2:42.88	MAURINE KORNFELD	USA	2016	49.91	BJORN ZIKARSKY	USA	1995	2:01.14	DEAN KENT	NZL	2005
2:55.44	MIEKO NAGAOKA	JPN	2009	200 M. FREE				2:01.34	JAN KONARZEWSKI	USA	2016
2:59.71	RITA SIMONTON	USA	2014	1:44.90	DARIAN TOWNSEND	USA	2013	2:01.41	JUNICHI MORITA	JPN	2016
3:25.37	EDITH HENDRY	USA	2006	1:46.52	ADAM RITTER	USA	2013	2:01.78	MARTIN HARRIS	GBR	1994
3:46.03	LAURA OLIVEIRA	BRA	2014	1:48.81	JOHN KEPPELER	USA	1995	2:02.10	A.MIGUEL NIZ	POR	2015
4:07.69	MARY LATHRAM	USA	2010	1:49.94	ANDREW MANLEY	GBR	2003	2:02.23	JOHNATHAN SARGENT	GBR	2011
4:08.35	BERNARDA ANGULO	ESP	2008	1:50.01	KOSUKE MAEDA	JPN	2014	50 M. BRST			
4:12.61	SHIZUE SHIMIZU	JPN	2006	1:50.19	SYLVAIN CROS	FRA	2007	27.31	EETU KARVONEN	USA	2013
4:36.75	ROSA SELLARES	ESP	2005	1:50.38	KO FUKAYA	JPN	2016	27.41	RYO KOBAYASHI	JPN	2014
5:12.32	MARGO BATES	AUS	2007	1:50.85	VINICIUS WAKED	USA	2014	27.55	IGOR GOLOVIN	RUS	2015
200 M. BACK											



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27.59	ADAM RITTER	USA	2014	56.18	HISAYOSHI SATO	JPN	2016	8:17.06	ALEX KOSTICH	USA	2000
27.68	A.LIUKKONEN	FIN	2014	200 M. I.M.				8:19.13	SEBASTIAN WIESE	GER	2004
27.69	RUSS PATRICK	CAN	2003	1:59.70	K.GILCHRIST	FRA	2010	8:19.44	BRUCE HAYES	USA	1994
27.76	EDUARDO FISCHER	BRA	2005	1:59.79	ADAM RITTER	USA	2013	8:22.07	ALBERT GALLARDO	ESP	2014
27.77	YUKI HONDA	JPN	2014	2:00.56	STEFAN HERBST	GER	2006	8:22.07	DAVID GENET	FRA	2013
27.91	MALIK FALL	SEN	2014	2:01.58	DEAN KENT	NZL	2005	8:22.10	FABIEN CZACHOR	FRA	2009
27.97	RYO ISHII	JPN	2015	2:02.48	RYOYA TAGUCHI	JPN	2011	8:28.60	IGOR PIOVESAN	ITA	2008
100 M. BRST				2:02.90	VICTOR MIGEON	FRA	2015	8:29.34	JOSE HERVAS	ESP	2013
59.21	EETU KARVONEN	USA	2013	2:02.93	YUTA SAITO	JPN	2016	8:29.51	CRAIG PICKERING	USA	2008
59.24	RYO KOBAYASHI	JPN	2014	2:03.28	AURELIEN COQ	FRA	2004	8:30.00	YURI GOTTI	ITA	2016
1:00.28	EDUARDO FISCHER	BRA	2005	2:04.10	IKUMI HASEGAWA	JPN	2010	1500 M. FREE			
1:00.84	MACIEJ CERTA	POL	2016	2:04.17	YOHEI KATO	JPN	2007	15:51.07	ALEX KOSTICH	USA	2000
1:00.89	DANIEL PILHATSCH	AUT	2016	400 M. I.M.				15:54.44	LUCA PUCE	ITA	2015
1:00.99	TETSUYA WAKATSUKI	JPN	2015	4:14.51	IKUMI HASEGAWA	JPN	2009	16:06.84	IGOR PIOVESAN	ITA	2008
1:01.18	MICHAL ZAWADKA	POL	2015	4:20.94	DEAN KENT	NZL	2005	16:08.42	DAVID GENET	FRA	2014
1:01.43	PIOTR SAFRONCZYK	POL	2014	4:26.08	JULIEN BAILLOD	SUI	2009	16:09.53	JULIEN BAILLOD	SUI	2013
1:01.48	KOTARO MORITA	JPN	2010	4:26.79	JOHN KEPPELER	USA	1995	16:09.78	JOSE HERVAS	ESP	2014
1:01.49	MITSUHIRO MARU	JPN	2008	4:26.97	ALEX KOSTICH	USA	1997	16:11.71	ANDREA MARCATO	ITA	2004
200 M. BRST				4:28.12	GIORGIO PAOLETTI	ITA	2012	16:12.03	FABIEN CZACHOR	FRA	2009
2:10.68	RYO KOBAYASHI	JPN	2013	4:28.38	RAYMOND VD MERWE	NED	2012	16:15.49	MIKE SHAFFER	USA	1995
2:11.81	SEAN MAHONEY	USA	2014	4:29.57	MORTEN AHME	GER	2016	16:19.32	MARTIN HOHL	SUI	2013
2:14.44	CHRISTOPHER JONES	GBR	2007	4:30.05	DAVID HOLMES	GBR	2009	50 M. BACK			
2:15.42	SIMON LEIGHFIELD	AUS	2002	4:30.42	SYLVAIN CROS	FRA	2009	24.58	RODRIGO TRIVINO	BRA	2016
2:16.46	CHIKAHIDE ENDO	JPN	2013	*****				24.75	DARIAN TOWNSEND	USA	2016
2:16.98	TAKAHIRO NETSU	JPN	2013	M E N 30-34				24.81	DERYA BUYUKUNCU	USA	2009
2:17.34	YUICHI SAKAI	JPN	2015	*****				24.92	KEVIN DOAK	USA	2012
2:17.95	ANDREA CAVALLETTI	ITA	2013	50 M. FREE				25.01	SERGEY MAKOV	RUS	2016
2:18.21	FABIO SILVA	BRA	2006	21.59	EVGENIY LAGUNOV	RUS	2015	25.09	GLAUBER SILVA	BRA	2016
2:18.31	KOICHI MASUI	JPN	2010	21.91	DARIAN TOWNSEND	USA	2016	25.13	D. BLACKBORROW	AUS	2016
50 M. FLY				21.98	NICHOLAS BRUNELLI	USA	2011	25.41	SIMON BURNETT	USA	2014
23.38	RYO ISHII	JPN	2015	22.13	THOMAS RUPPRATH	GER	2009	25.49	IKUMI HASEGAWA	JPN	2015
23.53	DARIAN TOWNSEND	USA	2013	22.24	DAVID MAITRE	FRA	2011	25.50	SEIJI TANIGUCHI	JPN	2016
23.60	YOSHIHIRO ASO	JPN	2014	22.38	PETTER STYME	SWE	2015	100 M. BACK			
23.66	DAISUKE ABE	JPN	2009	22.39	ANTHONY ERVIN	USA	2011	52.68	DERYA BUYUKUNCU	USA	2009
23.70	OLIVER WENZEL	GER	2009	22.41	S.KUNZELMANN	GER	2008	54.49	D. BLACKBORROW	AUS	2016
23.88	TONY COX	USA	2016	22.47	SERGEY MUKHIN	RUS	2015	54.65	SIMON BURNETT	USA	2014
23.95	DANIEL BELINI	BRA	2009	22.51	YOSHIHIRO ASO	JPN	2015	54.83	SERGEY MAKOV	RUS	2016
24.04	JAN KONARZEWSKI	USA	2016	100 M. FREE				54.90	ENRICO CATALANO	ITA	2015
24.10	M. PATTERSON	AUS	2011	47.29	EVGENIY LAGUNOV	RUS	2015	55.17	KEVIN DOAK	USA	2012
24.15	ADAM RITTER	USA	2014	48.08	DARIAN TOWNSEND	USA	2014	55.19	MARTIN ZUBERO	USA	2003
100 M. FLY				49.04	S.KUNZELMANN	GER	2008	55.47	PIERRE ROGER	FRA	2015
52.45	KO FUKAYA	JPN	2016	49.27	GREG MALLET	USA	2014	55.65	RODRIGO TRIVINO	BRA	2014
52.45	DARIAN TOWNSEND	USA	2013	49.30	TAMAS KEREKJARTO	USA	2009	55.78	MARTIN HARRIS	GBR	2000
52.56	TONY COX	USA	2016	49.37	SIMON BURNETT	USA	2016	200 M. BACK			
52.92	DANIEL BELINI	BRA	2009	49.71	ADAM RITTER	USA	2015	1:55.46	DERYA BUYUKUNCU	USA	2009
53.00	DAVID RUSSELL	USA	2014	49.89	SERGEY MUKHIN	RUS	2015	1:56.68	STEFAN HERBST	GER	2008
53.04	KIYOTAKA INOUE	JPN	2013	49.89	M.BILDOSOLA	ESP	2014	2:00.43	MARTIN ZUBERO	USA	2001
53.17	TAKATSUGU OGA	JPN	2014	49.95	FERNANDO ALAEZ	ESP	2009	2:02.15	EDUARDO SEVIERI	BRA	2015
53.46	IVAN NECHUNAEV	GBR	2015	200 M. FREE				2:02.16	ENRICO CATALANO	ITA	2016
53.63	TAKUYA HASEGAWA	JPN	2013	1:46.12	DARIAN TOWNSEND	USA	2014	2:02.81	MARCO MACCIANTI	ITA	2015
53.72	KEI NAKASHIMA	JPN	2009	1:46.52	STEFAN HERBST	GER	2011	2:02.84	TAKAFUMI OISHI	JPN	2007
200 M. FLY				1:48.17	YURIY UFIMTSEV	RUS	2015	2:02.91	JOHN KEPPELER	USA	1999
1:58.87	TAKATSUGU OGA	JPN	2016	1:48.40	JACOB CARSTENSEN	DEN	2008	2:03.36	D. BLACKBORROW	AUS	2016
1:59.74	MARK LEWIS	GBR	2008	1:49.00	CHRISTOPH HILMER	GER	2006	2:03.36	TAKUMA YAMAOKA	JPN	2008
1:59.80	MAKSIM GANIKHIN	RUS	2012	1:49.58	TAMAS KEREKJARTO	USA	2009	50 M. BRST			
1:59.92	SATOSHI TORATANI	JPN	2008	1:50.00	GREG MALLET	USA	2014	26.77	JORGE ALONZO	ESP	2009
2:00.57	FREDERICO CASTRO	BRA	2016	1:50.25	ADAM RITTER	USA	2015	27.11	MARCELO TOMAZINI	BRA	2009
2:00.88	KIYOTAKA IDO	JPN	2015	1:50.91	ROWDY GAINES	JPN	1989	27.23	SERGEY GEYBEL	RUS	2015
2:01.72	YOHEI KATO	JPN	2007	1:51.97	ANDREW MANLEY	GBR	2007	27.44	RYO KOBAYASHI	JPN	2016
2:01.74	LOIC LEROY	FRA	2006	400 M. FREE				27.73	CARLOS ALENCAR	BRA	2009
2:01.95	IKUMI HASEGAWA	JPN	2010	3:51.97	YURIY UFIMTSEV	RUS	2014	27.81	THOMAS RUPPRATH	GER	2009
2:02.05	KIMITAKA MINOBE	JPN	2003	3:57.47	TAMAS KEREKJARTO	USA	2009	28.01	JEFF COMMINGS	USA	2008
100 M. I.M.				3:58.40	ALEX KOSTICH	USA	2000	28.20	RYOSUKE IMAI	JPN	2011
53.47	DARIAN TOWNSEND	USA	2013	3:59.83	BRUCE HAYES	USA	1994	28.27	MATTHIAS RUMPF	GER	2009
53.53	ADAM RITTER	USA	2014	4:00.26	SEBASTIAN WIESE	GER	2004	28.31	HIDEAKI TOGO	JPN	2003
54.80	RYO ISHII	JPN	2015	4:00.36	FABIEN CZACHOR	FRA	2009	100 M. BRST			
55.13	YUTA SHOJI	JPN	2010	4:02.06	RAPHAEL VIEIRA	BRA	2008	59.71	RYO KOBAYASHI	JPN	2016
55.20	STEFAN HERBST	GER	2004	4:02.13	CLAUS IVERSEN	DEN	2011	59.85	SERGEY GEYBEL	RUS	2015
55.51	LUKE PECHMANN	USA	2016	4:02.56	SYLVAIN CROS	FRA	2010	1:00.81	ED MOSES	USA	2011
55.78	OLIVER WENZEL	GER	2009	4:02.66	ROWDY GAINES	JPN	1989	1:00.95	RYOSUKE IMAI	JPN	2011
55.97	IKUMI HASEGAWA	JPN	2012	800 M. FREE				1:01.07	KYOSUKE YONEHARA	JPN	2010
56.13	NAOKI NAGURA	JPN	2008					1:01.15	K.GILCHRIST	GBR	2013



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1:01.34	MATTHIAS RUMPF	GER	2009	4:19.69	TAMAS KEREKJARTO	USA	2009	16:05.94	RICHARD STANNARD	GBR	2009
1:01.34	JEFF COMMINGS	USA	2008	4:22.35	ASUKA KOIZUMI	JPN	2009	16:07.85	FRED CLATWORTHY	GBR	2009
1:01.35	RYUTARO MORITA	JPN	2009	4:25.00	KEITH BEAVERS	CAN	2014	16:11.68	IGOR PIOVESAN	ITA	2009
1:01.59	MALIK FALL	SEN	2015	4:26.74	ROQUE SANTOS	USA	1999	16:12.88	ERIK HOCHSTEIN	USA	2003
200 M. BRST				4:27.02	JOCHEN HANZ	GER	2008	16:17.38	DANIEL SERRA	ESP	2007
2:12.54	RYO KOBAYASHI	JPN	2015	4:28.83	K.GILCHRIST	GBR	2013	16:20.54	NICOLAS GRANGER	FRA	2006
2:12.58	HIROYUKI KOSAKA	JPN	2010	4:29.07	ALEX KOSTICH	USA	2000	16:24.14	OLIVIER VAHE	FRA	2008
2:12.92	KYOSUKE YONEHARA	JPN	2010	4:32.23	JEROME FRENTSOS	USA	1999	50 M. BACK			
2:13.16	K.GILCHRIST	GBR	2013	4:33.78	JULIEN BAILLOD	SUI	2011	25.43	STEV THELOKE	GER	2015
2:13.60	KAZUYA KOIKE	JPN	2009	*****				25.70	PABLO MARTIN ABAL	ARG	2016
2:15.36	CHRISTOPHER JONES	GBR	2015	M E N 35-39				25.72	EDILSON SILVA	USA	2009
2:15.72	TOMASZ DUSZYNSKI	POL	2007	*****				25.86	MICHAEL ROSS	USA	2004
2:16.60	NICK GILLINGHAM	GBR	2001	50 M. FREE				26.10	C.SORRENTINO	ITA	2010
2:16.82	SERGEY GEYBEL	RUS	2015	21.53	MARK FOSTER	GBR	2007	26.21	KENICHI KANEKO	JPN	2016
2:17.36	YUICHI SAKAI	JPN	2016	22.47	JOHN MIRANDA	SWE	2000	26.23	MARCIN KACZMAREK	POL	2016
50 M. FLY				22.48	RYK NEETHLING	RSA	2014	26.36	LEONARDO GOMES	BRA	2010
22.87	THOMAS RUPPRATH	GER	2009	22.72	EDUARD LORENTE	ESP	2014	26.37	BEN HARKIN	GBR	2016
23.86	YOSHIHIRO ASO	JPN	2016	22.73	FELIPE DELGADO	USA	2009	26.47	T.MINAMIZATO	JPN	2016
24.10	FERNANDO ALAEZ	ESP	2009	22.86	JEROME LE COQ	FRA	2010	100 M. BACK			
24.11	LEANDRO OKUDA	BRA	2009	22.94	ALEXEY MANZHULA	RUS	2016	55.95	MICHAEL ROSS	USA	2004
24.20	TAKASHI NISHIYAMA	JPN	2009	22.96	STEPHANE MEYER	FRA	2009	56.42	JEFF WELECHUK	CAN	2009
24.32	MARCELO TOMAZINI	BRA	2009	22.97	GLENN COUNTS	USA	2012	56.45	STEFAN HERBST	GER	2016
24.36	HAJIME ITOI	JPN	2003	23.00	S.KUNZELMANN	GER	2016	56.56	MARCO MACCIANTI	ITA	2016
24.37	MILORAD CAVIC	USA	2015	100 M. FREE				56.93	RON KARNAUGH	USA	2002
24.40	TAKUYA HASEGAWA	JPN	2016	49.53	JOHN MIRANDA	SWE	2000	57.14	DEREK GUFFEY	USA	2009
24.40	SERGEY MUKHIN	RUS	2015	50.54	STEPHANE MEYER	FRA	2009	57.19	JEFF COMMINGS	USA	2009
100 M. FLY				50.71	RICARDO SALCEDO	ESP	2016	57.20	BEN HARKIN	GBR	2016
52.44	DARIAN TOWNSEND	USA	2016	50.72	MICHAEL PICOTTE	USA	2009	57.24	M.EROLI	ITA	2013
52.63	STEFAN HERBST	GER	2011	50.82	EIJI NOMURA	JPN	2010	57.25	TAKUMA YAMAOKA	JPN	2013
52.67	GLAUBER SILVA	BRA	2016	50.85	GLENN COUNTS	USA	2012	200 M. BACK			
53.14	YOSHIHIRO ASO	JPN	2015	50.91	OLIVER PLANES	ESP	2013	2:00.34	RON KARNAUGH	USA	2002
54.04	SIMON BURNETT	USA	2016	51.01	RON KARNAUGH	USA	2003	2:01.55	STEFAN HERBST	GER	2013
54.10	TAMAS KEREKJARTO	USA	2009	51.03	TAMAS KEREKJARTO	USA	2015	2:03.20	DEREK GUFFEY	USA	2009
54.20	TAKAHIRO MORI	JPN	2011	51.07	ALEXEY MANZHULA	RUS	2016	2:03.75	MAURIZIO TERSAR	ITA	2015
54.28	SATOSHI WAKIMORI	JPN	2016	200 M. FREE				2:04.21	CHRIS JONES	GBR	2006
54.28	S.KUNZELMANN	GER	2008	1:51.31	ERIK HOCHSTEIN	USA	2003	2:04.96	JEFF WELECHUK	CAN	2009
54.50	MARCELO TOMAZINI	BRA	2009	1:51.47	JOCHEN BRUHA	GER	2004	2:05.01	TAKAYUKI MIYASAKA	JPN	2012
200 M. FLY				1:51.54	MICHAEL ROSS	USA	2004	2:06.26	ROMAIN MARTY	FRA	2009
1:57.41	DARIAN TOWNSEND	USA	2016	1:52.90	RON KARNAUGH	USA	2002	2:06.45	TAKUMA YAMAOKA	JPN	2013
1:59.51	MARCELO TOMAZINI	BRA	2009	1:53.37	TYLER BLESSING	USA	2009	2:06.64	ANTONINO TRIPPEDO	ITA	2015
2:00.21	HIROSHI MIURA	JPN	2000	1:53.54	M.EROLI	ITA	2012	50 M. BRST			
2:00.50	TAMAS KEREKJARTO	USA	2009	1:53.66	EDWIN VAN NORDEN	NED	1998	27.32	SERGEY GEYBEL	RUS	2016
2:02.22	LOIC LEROY	FRA	2012	1:53.69	CLAUS IVERSEN	DEN	2015	27.79	JEFF COMMINGS	USA	2009
2:03.33	P.KORZENIOWSKI	POL	2016	1:54.14	ISAMU TSUZUKI	JPN	2012	28.30	STEVE WEST	USA	2009
2:04.03	JOCHEN HANZ	GER	2009	1:54.16	JACOB CARSTENSEN	DEN	2013	28.39	RYOSUKE IMAI	JPN	2016
2:04.49	PAUL WILKES	GBR	2014	400 M. FREE				28.63	PER SVANBERG	SWE	2009
2:04.59	MIKE SHAFFER	USA	1995	3:57.77	ERIK HOCHSTEIN	USA	2003	28.75	RON KARNAUGH	USA	2002
2:05.00	C.SORRENTINO	ITA	2008	3:58.50	F.SILVESTRI	ITA	2002	28.76	BEN HARKIN	GBR	2016
100 M. I.M.				3:59.71	JACOB CARSTENSEN	DEN	2013	28.77	WALLY DICKS	USA	1998
53.28	DARIAN TOWNSEND	USA	2016	4:00.98	NICOLA NISATO	ITA	2016	28.86	RODRIGO BARDI	BRA	2015
54.61	ADAM RITTER	USA	2015	4:01.78	RON KARNAUGH	USA	2003	28.87	GERALD MORKEN	GER	1997
55.00	STEFAN HERBST	GER	2008	4:02.35	SEBASTIAN WIESE	GER	2007	100 M. BRST			
55.10	SIMON BURNETT	USA	2016	4:02.52	MIKE SHAFFER	USA	2000	1:00.61	SERGEY GEYBEL	RUS	2016
55.39	YUTA SHOJI	JPN	2015	4:03.90	NICOLAS GRANGER	FRA	2002	1:01.18	RYOSUKE IMAI	JPN	2013
55.77	NICHOLAS BRUNELLI	USA	2011	4:04.81	SAMUELE PAMPANA	ITA	2015	1:01.47	JEFF COMMINGS	USA	2009
55.80	DAISUKE HOSOKAWA	JPN	2014	4:05.07	GARRY MEIKLEJOHN	JPN	2009	1:01.63	STEVE WEST	USA	2009
55.89	P.KORZENIOWSKI	POL	2016	800 M. FREE				1:02.57	RON KARNAUGH	USA	2002
56.29	ALEXEY ZATSEPIN	RUS	2014	8:16.19	ALEX KOSTICH	USA	2009	1:02.62	NICK GILLINGHAM	GBR	2004
56.34	FERNANDO ALAEZ	ESP	2009	8:20.40	NICOLA NISATO	ITA	2016	1:02.67	STEPHAN PERROT	FRA	2015
200 M. I.M.				8:23.06	ERIK HOCHSTEIN	USA	2003	1:02.79	WALLY DICKS	USA	2000
1:56.96	DARIAN TOWNSEND	USA	2016	8:26.43	MIKE SHAFFER	USA	2000	1:02.95	CHRISTOPHER JONES	GBR	2016
1:57.68	TAMAS KEREKJARTO	USA	2009	8:27.96	IGOR PIOVESAN	ITA	2009	1:03.00	A.VYSOTSKIY	RUS	2012
1:58.13	STEFAN HERBST	GER	2008	8:28.37	RICHARD STANNARD	GBR	2009	200 M. BRST			
2:02.20	HIROYUKI KOSAKA	JPN	2010	8:29.31	BOBBY PATTEN	USA	1999	2:15.42	KAZUYA KOIKE	JPN	2014
2:03.04	KEITH BEAVERS	CAN	2014	8:30.84	OLIVIER VAHE	FRA	2009	2:15.64	STEVE WEST	USA	2011
2:03.54	DIOGO YABE	BRA	2011	8:30.95	SAMUELE PAMPANA	ITA	2015	2:16.49	NICK GILLINGHAM	GBR	2004
2:03.74	TIMOTHY CARLSON	USA	2009	8:31.55	GARRY MEIKLEJOHN	JPN	2009	2:16.72	STEPHAN PERROT	FRA	2015
2:03.76	ALEXEY ZATSEPIN	RUS	2014	1500 M. FREE				2:17.46	CHRISTOPHER JONES	GBR	2016
2:04.01	ATTILA CZEENE	SWE	2004	15:56.57	ALEX KOSTICH	USA	2009	2:17.47	BLAKE HOLDEN	USA	2014
2:04.16	JOCHEN HANZ	GER	2008	15:58.20	BOBBY PATTEN	USA	1999	2:17.79	SERGEY GOGOL	RUS	2016
400 M. I.M.				16:03.47	MIKE SHAFFER	USA	2000	2:17.96	RON KARNAUGH	USA	2002
4:13.68	DARIAN TOWNSEND	USA	2015					2:18.62	HIROYUKI KOSAKA	JPN	2011



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2:18.68	V.KIRJANOV	LAT	2009	22.75	HIDEAKI HARA	JPN	2016	26.80	ALEXANDR SHILIN	RUS	2016
50 M. FLY				23.05	O.PLANES OSORIO	ESP	2016	26.80	SHUJI AZUMA	JPN	2009
22.97	LIONEL BRAHIM	FRA	2010	23.06	M.GIALDI	ITA	2010	26.91	MAURIZIO TERSAR	ITA	2016
23.64	ADAM PINE	AUS	2011	23.13	BRIAN JACOBSON	USA	2013	27.05	JEFF WELECHUK	CAN	2014
23.72	LARS FROLANDER	SWE	2011	23.18	VLADIMIR PREDKIN	RUS	2013	100 M. BACK			
24.03	EIJI NOMURA	JPN	2010	23.25	ERIK HOCHSTEIN	USA	2008	54.85	MICHAEL ROSS	USA	2008
24.40	TAKASHI NISHIYAMA	JPN	2016	23.31	PAUL CLEMENCE	GBR	2014	55.90	CHRIS STEVENSON	USA	2008
24.48	JAN KARLSSON	SWE	2003	23.36	ISAMU TSUZUKI	JPN	2015	57.36	DANIEL LONNBERG	SWE	2015
24.87	GLENN COUNTS	USA	2012	23.45	MICHAEL ROSS	USA	2009	57.66	ERIC ERICSON	USA	2002
24.88	S.KUNZELMANN	GER	2016	23.62	JUAN BENAVIDES	ESP	2015	57.72	JEFF COMMINGS	USA	2015
24.89	MAKIO ENDO	JPN	2010	100 M. FREE				57.73	GIUSEPPE TIANO	ITA	2009
25.05	BEN HARKIN	GBR	2016	49.81	HIDEAKI HARA	JPN	2016	57.80	TAKAYUKI MIYASAKA	JPN	2015
100 M. FLY				50.43	MICHAEL ROSS	USA	2008	57.80	JEFF WELECHUK	CAN	2011
52.24	ADAM PINE	AUS	2011	50.45	ERIK HOCHSTEIN	USA	2009	57.89	ISAMU TSUZUKI	JPN	2015
54.27	IGOR MARCHENKO	USA	2011	50.58	LARS FROLANDER	SWE	2015	58.13	HONZA VITAZKA	SWE	2016
54.56	EIJI NOMURA	JPN	2010	50.90	O.PLANES OSORIO	ESP	2016	200 M. BACK			
54.70	M.EROLI	ITA	2012	51.57	MIKE VAROZZA	USA	2009	2:03.84	MICHAEL ROSS	USA	2008
54.99	GLENN COUNTS	USA	2014	51.76	EIJI NOMURA	JPN	2012	2:04.29	MAURIZIO TERSAR	ITA	2016
55.20	STEFAN HERBST	GER	2013	51.96	M.GIALDI	ITA	2010	2:04.96	CHRIS STEVENSON	USA	2008
55.22	MASATERU IKEDA	JPN	2010	51.98	ISAMU TSUZUKI	JPN	2015	2:06.66	MARK VOGEL	DEN	2010
55.24	STEPHANE MEYER	FRA	2009	52.03	VLADIMIR PREDKIN	RUS	2013	2:06.77	ANTONINO TRIPPODO	ITA	2016
55.45	BRENT CREAGER	USA	2014	200 M. FREE				2:06.78	TAKAYUKI MIYASAKA	JPN	2015
55.68	ISAMU TSUZUKI	JPN	2012	1:50.08	MICHAEL ROSS	USA	2008	2:07.16	NICOLAS GRANGER	FRA	2010
200 M. FLY				1:51.95	ERIK HOCHSTEIN	USA	2009	2:07.31	HONZA VITAZKA	SWE	2016
2:02.98	BRENT CREAGER	USA	2014	1:53.03	KAI DITZEL	GER	2004	2:07.78	JEFF WELECHUK	CAN	2011
2:03.05	M.EROLI	ITA	2012	1:54.62	ALBERTO MONTINI	ITA	2010	2:07.92	A.PONTALTI	ITA	2016
2:03.31	EIJI NOMURA	JPN	2009	1:55.11	F.SILVESTRI	ITA	2003	50 M. BRST			
2:03.76	FERNANDO ALAEZ	ESP	2011	1:55.42	PATRICK BRUNDAGE	USA	2009	28.22	JEFF COMMINGS	USA	2016
2:04.06	ISAMU TSUZUKI	JPN	2012	1:55.57	SAMUELE PAMPANA	ITA	2016	28.52	STEVE WEST	USA	2014
2:04.50	BOBBY PATTEN	USA	1999	1:55.65	ISAMU TSUZUKI	JPN	2013	28.76	ALBERTO MONTINI	ITA	2010
2:05.84	MIKE SHAFFER	USA	2000	1:55.87	DAVID WARREN	GBR	2014	28.89	YOZO FUJII	JPN	2009
2:06.12	LOIC LEROY	FRA	2015	1:55.88	DANIEL SERRA	ESP	2010	28.90	VLADIMIR BRAGIN	RUS	2011
2:06.23	ERIK HOCHSTEIN	USA	2003	400 M. FREE				28.98	HIDEAKI TOGO	JPN	2013
2:06.24	CLAUS IVERSEN	DEN	2016	4:00.67	KAI DITZEL	GER	2004	29.02	ANDREA AGOSTINONE	ITA	2010
100 M. I.M.				4:00.80	ALBERTO MONTINI	ITA	2009	29.07	VAL BAGRI	USA	2015
56.36	GLENN COUNTS	USA	2012	4:01.32	ERIK HOCHSTEIN	USA	2009	29.08	HAROLD MATLA	NED	2009
56.37	C.SORRENTINO	ITA	2010	4:01.36	SAMUELE PAMPANA	ITA	2016	29.16	ALAN PESSOTTI	BRA	2014
56.63	BEN HARKIN	GBR	2016	4:04.16	GUSTAVO HELENO	BRA	2016	100 M. BRST			
56.80	STEFAN HERBST	GER	2013	4:04.20	ERIC CHRISTENSEN	USA	2014	1:01.42	STEVE WEST	USA	2014
56.94	RON KARNAUGH	USA	2003	4:04.69	NICOLAS GRANGER	FRA	2010	1:02.28	JEFF COMMINGS	USA	2014
56.98	JEFF COMMINGS	USA	2009	4:05.30	F.SILVESTRI	ITA	2003	1:02.42	ALBERTO MONTINI	ITA	2009
57.04	TAKAHIRO MORI	JPN	2015	4:05.34	FABIO CALMASINI	ITA	2012	1:03.08	VLADISLAV BRAGIN	RUS	2011
57.69	ISAMU TSUZUKI	JPN	2011	4:06.30	PATRICK BRUNDAGE	USA	2009	1:03.11	VAL BAGRI	USA	2015
58.00	M.EROLI	ITA	2013	800 M. FREE				1:03.33	ROQUE SANTOS	USA	2009
58.03	BRIAN JACOBSON	USA	2008	8:18.18	SAMUELE PAMPANA	ITA	2016	1:03.36	YOZO FUJII	JPN	2010
200 M. I.M.				8:21.78	ALEX KOSTICH	USA	2011	1:03.38	IVAN AGIRRE	ESP	2016
2:03.29	RON KARNAUGH	USA	2002	8:24.88	R SEAN JUSTICE	USA	2016	1:03.89	DAISUKE MIYASAKA	JPN	2015
2:04.89	DEREK GUFFEY	USA	2009	8:25.08	ERIK HOCHSTEIN	USA	2009	1:04.35	O.PLANES OSORIO	ESP	2016
2:05.28	M.EROLI	ITA	2013	8:27.03	ERIC CHRISTENSEN	USA	2014	200 M. BRST			
2:06.39	HIROYUKI KOSAKA	JPN	2011	8:28.16	ALEJANDRO MORENO	MEX	2009	2:13.72	STEVE WEST	USA	2014
2:06.88	BEN HARKIN	GBR	2014	8:28.23	DANIEL SERRA	ESP	2009	2:15.95	ALBERTO MONTINI	ITA	2009
2:07.06	JEFF COMMINGS	USA	2009	8:28.93	GUSTAVO HELENO	BRA	2016	2:16.03	ROQUE SANTOS	USA	2009
2:07.21	JIM HARVEY	USA	2001	8:31.69	KAI DITZEL	GER	2005	2:20.19	HAJIME MORIMOTO	JPN	2010
2:07.31	UWE VOLK	GER	2009	8:31.86	MIKE SHAFFER	USA	2008	2:20.63	VAL BAGRI	USA	2015
2:07.31	NICOLAS GRANGER	FRA	2004	1500 M. FREE				2:21.12	VLADISLAV BRAGIN	RUS	2011
2:07.60	PETER BERMEL	GER	2002	15:51.60	SAMUELE PAMPANA	ITA	2016	2:21.76	DAISUKE MIYASAKA	JPN	2015
400 M. I.M.				16:07.46	DANIEL SERRA	ESP	2009	2:22.89	ANDRE WRASSE	GER	2012
4:24.36	RON KARNAUGH	USA	2003	16:09.32	MIKE SHAFFER	USA	2009	2:24.17	YAMATO TAKAHASHI	JPN	2010
4:30.09	CLAUS IVERSEN	DEN	2015	16:19.00	ERIC CHRISTENSEN	USA	2014	2:24.57	UWE VOLK	GER	2010
4:30.77	JULIEN BAILLOD	SUI	2016	16:19.16	R SEAN JUSTICE	USA	2016	50 M. FLY			
4:30.81	DEREK GUFFEY	USA	2009	16:22.21	DINO SCHORN	ITA	2009	24.14	LARS FROLANDER	SWE	2014
4:32.97	UWE VOLK	GER	2009	16:23.60	IGOR PIOVESAN	ITA	2014	24.72	EIJI NOMURA	JPN	2013
4:34.06	JEROME FRENTSOS	USA	2000	16:23.95	F.SILVESTRI	ITA	2003	24.91	MICHAEL ROSS	USA	2008
4:35.47	ANTONINO TRIPPODO	ITA	2015	16:33.41	MARK THOMPSON	AUS	2011	24.99	MASATERU IKEDA	JPN	2012
4:36.73	ASUKA KOIZUMI	JPN	2016	16:34.84	ALEX KOSTICH	USA	2010	25.03	ISAMU TSUZUKI	JPN	2015
4:37.47	MARCEL RINZLER	USA	2006	50 M. BACK				25.13	HARTMUT BERNER	GER	2005
4:37.73	ROMAIN MARTY	FRA	2009	25.53	MICHAEL ROSS	USA	2009	25.29	JAN KARLSSON	SWE	2009
				25.94	EDILSON JUNIOR	BRA	2012	25.32	TAKEFUMI KOGA	JPN	2016
*****				26.33	DANIEL LONNBERG	SWE	2015	25.35	MASATO SAKAI	JPN	2015
M E N 40-44				26.56	CHRIS STEVENSON	USA	2008	25.41	MIKE VAROZZA	USA	2009
*****				26.59	TAKAYUKI MIYASAKA	JPN	2015	100 M. FLY			
50 M. FREE				26.59	GIUSEPPE TIANO	ITA	2009	53.81	LARS FROLANDER	SWE	2014



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54.98	EIJI NOMURA	JPN	2014	52.55	VLADIMIR PREDKIN	RUS	2014	59.75	JEFF WELECHUK	CAN	2016
55.82	MICHAEL ROSS	USA	2008	52.65	SIPHIWE BALEKA	USA	2016	200 M. BACK			
55.97	ISAMU TSUZUKI	JPN	2013	52.81	PAUL CLEMENCE	GBR	2016	2:05.54	CHRIS STEVENSON	USA	2009
56.18	WILLIAM SPECHT	USA	1998	52.90	MARK REYNOLDS	GBR	2009	2:06.66	NICOLAS GRANGER	FRA	2012
56.31	MASATERU IKEDA	JPN	2016	52.92	KAI DITZEL	GER	2008	2:10.28	Y.NAKAHARA	JPN	2015
56.50	JIM HARVEY	USA	2007	52.93	DAVID SIMS	USA	2011	2:10.43	JAY YARID	USA	2008
56.57	M.EROLI	ITA	2016	53.04	MARCO COLOMBO	ITA	2005	2:10.84	JEFF WELECHUK	CAN	2016
56.62	MIKE VAROZZA	USA	2009	200 M. FREE				2:11.22	TAIHEI SAKA	JPN	2009
56.62	HARTMUT BERNER	GER	2005	1:52.87	NICOLAS GRANGER	FRA	2012	2:12.10	WIESLAW MUSIAL	CAN	2003
200 M. FLY				1:54.73	KAI DITZEL	GER	2008	2:12.47	ROSS DAVIS	USA	2011
2:02.97	WILLIAM SPECHT	USA	1998	1:55.88	FABIO CALMASINI	ITA	2013	2:12.54	LUCA VIGNERI	ITA	2016
2:04.42	FERNANDO ALAEZ	ESP	2016	1:55.91	MARK THOMPSON	AUS	2015	2:12.87	EDWIN VAN NORDEN	NED	2008
2:04.42	EIJI NOMURA	JPN	2012	1:56.00	PAUL SMITH	USA	2007	50 M. BRST			
2:05.72	TOSHIYUKI IBE	JPN	2010	1:56.26	MARCUS MATTIOLI	BRA	2009	28.87	RICO ROLLI	ITA	2010
2:05.96	ISAMU TSUZUKI	JPN	2014	1:56.62	KEITH SWITZER	USA	2009	28.88	TODD TORRES	USA	2013
2:06.06	UWE VOLK	GER	2010	1:56.93	MARCO COLOMBO	ITA	2008	29.11	NICOLAS GRANGER	FRA	2015
2:06.48	DENNIS BAKER	USA	2005	1:57.28	ALBERTO MONTINI	ITA	2013	29.18	YOZO FUJII	JPN	2014
2:06.54	M.EROLI	ITA	2016	1:57.64	MARK REYNOLDS	GBR	2009	29.22	YOAKIM HOLMQUIST	SWE	2016
2:06.68	DAVID WARREN	GBR	2014	400 M. FREE				29.61	VLADISLAV BRAGIN	RUS	2016
2:07.03	MIKE SHAFFER	USA	2008	4:03.10	FABIO CALMASINI	ITA	2015	29.83	CRAIG CRAWFORD	USA	2015
100 M. I.M.				4:03.81	NICOLAS GRANGER	FRA	2015	29.85	FABIO SPINADIN	ITA	2016
57.07	HIDEAKI HARA	JPN	2016	4:05.90	KAI DITZEL	GER	2008	29.85	CHRIS WEISSMAN	USA	2009
57.19	JEFF COMMINGS	USA	2014	4:08.87	MARK THOMPSON	AUS	2015	29.99	MICHAEL HODGSON	GBR	2015
57.39	ALBERTO MONTINI	ITA	2010	4:08.93	MARCUS MATTIOLI	BRA	2005	100 M. BRST			
57.71	MICHAEL ROSS	USA	2008	4:09.19	KEITH SWITZER	USA	2009	1:03.23	NICOLAS GRANGER	FRA	2015
58.26	PETR GREGOR	CZE	2015	4:11.02	MARCO COLOMBO	ITA	2007	1:04.39	TODD TORRES	USA	2013
58.30	ISAMU TSUZUKI	JPN	2013	4:11.35	GREG STREPPPEL	CAN	2015	1:04.41	VLADISLAV BRAGIN	RUS	2016
58.94	ROQUE SANTOS	USA	2008	4:12.75	ALBERTO MONTINI	ITA	2014	1:04.62	RICO ROLLI	ITA	2011
58.98	ERIK HOCHSTEIN	USA	2008	4:13.42	LUDEK BURIAN	CZE	2009	1:04.69	CHRIS WEISSMAN	USA	2009
59.07	BRIAN JACOBSON	USA	2013	800 M. FREE				1:04.76	HAJIME MORIMOTO	JPN	2014
59.23	FERNANDO ALAEZ	ESP	2016	8:28.53	FABIO CALMASINI	ITA	2016	1:04.80	YOZO FUJII	JPN	2013
200 M. I.M.				8:35.48	MARK THOMPSON	AUS	2015	1:05.09	MAKOTO ONODERA	JPN	2013
2:05.46	ROQUE SANTOS	USA	2009	8:38.56	GREG STREPPPEL	CAN	2015	1:05.48	DAVID GUTHRIE	USA	2009
2:06.71	JEFF COMMINGS	USA	2016	8:39.84	MICHAEL PRUFERT	GER	2009	1:05.74	GLENN MILLS	USA	2008
2:06.97	NICOLAS GRANGER	FRA	2010	8:41.60	RICARDO VALDIVIA	USA	2013	200 M. BRST			
2:07.71	ERIK HOCHSTEIN	USA	2008	8:42.76	KAI DITZEL	GER	2008	2:18.91	NICOLAS GRANGER	FRA	2015
2:07.88	UWE VOLK	GER	2010	8:42.85	KEITH SWITZER	USA	2010	2:20.41	ALBERTO MONTINI	ITA	2013
2:07.96	PETER BERMEL	GER	2007	8:43.10	DINO SCHORN	ITA	2015	2:21.92	HAJIME MORIMOTO	JPN	2013
2:08.13	ALBERTO MONTINI	ITA	2009	8:45.09	NICOLAS GRANGER	FRA	2015	2:22.68	GLENN MILLS	USA	2008
2:08.37	ERIC CHRISTENSEN	USA	2014	8:46.79	MICHAEL KLEIBER	GER	2008	2:23.30	VLADISLAV BRAGIN	RUS	2016
2:09.26	ANTONINO TRIPPEDO	ITA	2016	1500 M. FREE				2:23.74	DAVID GUTHRIE	USA	2009
2:09.46	LORENZO BENUCCI	USA	2008	16:13.34	FABIO CALMASINI	ITA	2015	2:25.62	RICO ROLLI	ITA	2011
400 M. I.M.				16:28.63	MICHAEL KLEIBER	GER	2008	2:25.80	SHUJI AZUMA	JPN	2012
4:30.68	ERIC CHRISTENSEN	USA	2014	16:37.25	KEITH SWITZER	USA	2011	2:26.24	MAKOTO ONODERA	JPN	2012
4:31.92	UWE VOLK	GER	2011	16:38.92	NICOLAS GRANGER	FRA	2015	2:27.64	ABRAHAM SOLANO	USA	2015
4:32.05	ROQUE SANTOS	USA	2008	16:43.02	MARCUS MATTIOLI	BRA	2006	50 M. FLY			
4:33.90	ALBERTO MONTINI	ITA	2009	16:51.21	JIM MCCONICA	USA	1999	25.58	JAN KARLSSON	SWE	2013
4:35.15	ERIK HOCHSTEIN	USA	2008	16:52.13	B.BORDONALI	ITA	2007	25.74	FRITZ BEDFORD	USA	2009
4:35.52	HONZA VITAZKA	SWE	2016	16:52.24	MIKE SHAFFER	USA	2010	25.78	CHRIS STEVENSON	USA	2009
4:35.57	NICOLAS GRANGER	FRA	2007	16:54.69	GERRY RODRIGUES	USA	2008	25.80	MATTHEW BIONDI	USA	2012
4:36.91	ANTONINO TRIPPEDO	ITA	2016	16:56.31	MARK DRENNEN	USA	2004	25.82	PAUL SMITH	USA	2007
4:37.02	DARIUSZ WOLNY	POL	2000	50 M. BACK				25.84	PAUL CARTER	USA	2003
4:38.53	SAMUELE PAMPANA	ITA	2016	26.62	EDILSON JUNIOR	BRA	2015	25.86	VLADIMIR PREDKIN	RUS	2014
*****				27.02	CHRIS STEVENSON	USA	2009	25.95	EDILSON JUNIOR	BRA	2016
M E N 45-49				27.03	MICHAEL ROSS	USA	2014	25.96	STEVE HILTABIDDLE	USA	2011
*****				27.08	NICOLAS GRANGER	FRA	2016	25.99	BARRY SARETSKY	CAN	2015
50 M. FREE				27.08	HIROYOSHI MAETOGE	JPN	2010	25.99	ANDERS RASMUSSEN	USA	2008
23.29	JOAKIM HOLMQUIST	SWE	2016	27.20	ANDERS RASMUSSEN	USA	2008	100 M. FLY			
23.54	VLADIMIR PREDKIN	RUS	2014	27.24	J CLAY BRITT	USA	2006	56.37	NICOLAS GRANGER	FRA	2016
23.58	SIPHIWE BALEKA	USA	2016	27.35	FRITZ BEDFORD	USA	2009	56.78	DEKE BOTSFORD	CAN	2012
23.65	MATTHEW BIONDI	USA	2012	27.45	CRAIG NORREY	GBR	2009	57.17	PAUL CARTER	USA	2003
23.69	M.GIALDI	ITA	2014	27.62	Y.NAKAHARA	JPN	2015	57.37	CHRIS STEVENSON	USA	2010
23.70	PAUL CLEMENCE	GBR	2016	100 M. BACK				58.02	PAUL SMITH	USA	2007
23.80	FRITZ BEDFORD	USA	2009	57.00	CHRIS STEVENSON	USA	2009	58.03	ANDERS RASMUSSEN	USA	2009
23.84	DAMIEN CUCUMEL	FRA	2015	58.20	HIROYOSHI MAETOGE	JPN	2010	58.10	WILLIAM SPECHT	USA	2004
23.87	HARALD MAISCH	GER	2016	58.45	NICOLAS GRANGER	FRA	2013	58.29	MARCEL EKKELBOOM	GER	2009
23.88	METELLO SAVINO	ITA	2009	58.48	J CLAY BRITT	USA	2006	58.30	HIROSHI MIURA	JPN	2012
100 M. FREE				58.75	FELIPE BARRETO	MEX	2009	58.35	DENNIS BAKER	USA	2006
51.30	NICOLAS GRANGER	FRA	2012	58.89	ANDERS RASMUSSEN	USA	2008	200 M. FLY			
52.53	MARK THOMPSON	AUS	2015	59.17	EDWIN VAN NORDEN	NED	2009	2:06.40	DENNIS BAKER	USA	2006
52.54	PAUL SMITH	USA	2007	59.48	HARALD MAISCH	GER	2016	2:08.17	NICOLAS GRANGER	FRA	2016
				59.68	MICHAEL ROSS	USA	2014	2:09.06	WILLIAM SPECHT	USA	2003



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

2:09.58	MARCUS MATTIOLI	BRA	2006	2:00.31	PAUL SMITH	USA	2009	50	M. BRST		
2:09.65	CHRIS STEVENSON	USA	2009	2:00.87	MARCUS MATTIOLI	BRA	2014	29.84	DAVID GUTHRIE	USA	2013
2:09.92	ALBERTO MONTINI	ITA	2013	2:01.56	EDGARS OZOLINSH	LAT	2012	30.10	SCOTT HEBER	USA	2016
2:09.98	TOSHIYUKI IBE	JPN	2015	2:01.73	GIANLUCA SONDALI	ITA	2016	30.33	TOMAS VAVERKA	CZE	2016
2:10.12	MIKE SHAFFER	USA	2012	2:01.77	PETER MCKINNON	CAN	2015	30.56	RICO ROLLI	ITA	2016
2:10.72	DEKE BOTSFORD	CAN	2012	2:02.21	MIKE SHAFFER	USA	2016	30.59	THOMAS BOHM	AUT	2015
2:10.95	TAIHEI SAKA	JPN	2011	400	M. FREE			30.69	STUART MOFFATT	AUS	2013
100	M. I.M.			4:07.99	JIM MCCONICA	USA	2000	30.76	JENS LUTSCHIN	GER	2014
57.68	NICOLAS GRANGER	FRA	2012	4:12.12	BOB BUGG	USA	2009	30.81	BERNHARD AUNER	AUT	2016
59.71	VLADIMIR PREDKIN	RUS	2014	4:13.01	MARCUS MATTIOLI	BRA	2011	30.91	GLEN CHRISTIANSEN	SWE	2009
1:00.07	HARALD MAISCH	GER	2016	4:17.25	ANDREW BRAY	USA	2011	31.05	CARLO TRAVAINI	ITA	2016
1:00.09	SIPHIWE BALEKA	USA	2016	4:18.96	MARK DRENNEN	USA	2006	100	M. BRST		
1:00.13	EDWIN VAN NORDEN	NED	2009	4:19.68	MIKE SHAFFER	USA	2016	1:04.54	DAVID GUTHRIE	USA	2013
1:00.14	ANDERS RASMUSSEN	USA	2009	4:19.98	RICARDO VALDIVIA	USA	2015	1:08.14	C.COENEY	USA	2016
1:00.21	ALBERTO MONTINI	ITA	2013	4:20.48	MICHAEL PRUFERT	GER	2014	1:08.27	BENN DOYLE	USA	2008
1:00.29	MARCO COLOMBO	ITA	2006	4:20.68	GIANLUCA SONDALI	ITA	2016	1:08.54	RICO ROLLI	ITA	2016
1:00.44	JEROME FRENTSOS	USA	2010	4:21.00	MICHAEL KLEIBER	GER	2013	1:08.56	GLEN CHRISTIANSEN	SWE	2009
1:00.46	KAZUHIKO YAMAKAWA	JPN	2014	800	M. FREE			1:08.79	SHINJI NATORI	JPN	2016
1:00.46	ALEX BAUMANN	CAN	2009	8:44.51	JIM MCCONICA	USA	2000	1:08.93	TAIHEI SAKA	JPN	2015
200	M. I.M.			8:49.96	ANDREW BRAY	USA	2011	1:08.95	GARY PATTERSON	USA	2009
2:04.64	NICOLAS GRANGER	FRA	2012	8:53.48	MARK DRENNEN	USA	2006	1:08.97	RONNY OLTNER	SWE	2007
2:09.71	JEROME FRENTSOS	USA	2010	8:57.67	MICHAEL KLEIBER	GER	2013	1:09.26	S.TAKAHASHI	JPN	2015
2:10.49	TAIHEI SAKA	JPN	2009	8:58.29	MIKE SHAFFER	USA	2015	200	M. BRST		
2:11.28	ANDERS RASMUSSEN	USA	2009	9:03.08	ARNALDO PEREZ	PUR	2015	2:21.65	DAVID GUTHRIE	USA	2013
2:11.84	ALBERTO MONTINI	ITA	2013	9:04.68	FRANCIS CHRISTIAN	AUS	2008	2:31.22	TAIHEI SAKA	JPN	2015
2:11.92	EDWIN VAN NORDEN	NED	2009	9:08.38	MICHAEL PRUFERT	GER	2014	2:31.78	J.MELLADO	FRA	2016
2:12.01	ALEX BAUMANN	CAN	2009	9:08.43	LEN GUSHE	CAN	2013	2:32.04	C.COENEY	USA	2013
2:13.42	GLENN MILLS	USA	2008	9:09.53	A.BELOSLUDTSEV	RUS	2016	2:32.06	LINCOLN DJANG	USA	2009
2:13.67	FABIO CALMASINI	ITA	2013	1500	M. FREE			2:32.08	CARLO TRAVAINI	ITA	2016
2:13.91	JASCHA HASSON	FRA	2016	16:33.02	JIM MCCONICA	USA	2000	2:32.78	BENN DOYLE	USA	2008
400	M. I.M.			16:52.78	ANDREW BRAY	USA	2011	2:33.13	SHUJI YAMAZAKI	JPN	2016
4:31.36	NICOLAS GRANGER	FRA	2012	16:53.04	JEFF ERWIN	USA	2016	2:33.38	G.HOFFMANN	USA	2009
4:39.19	ALBERTO MONTINI	ITA	2013	16:57.60	MICHAEL KLEIBER	GER	2013	2:33.71	LORENZO MARUGO	ITA	2004
4:42.15	TAIHEI SAKA	JPN	2009	17:03.45	MARCUS MATTIOLI	BRA	2011	50	M. FLY		
4:43.36	GREG STREPPPEL	CAN	2015	17:13.75	MIKE SHAFFER	USA	2016	25.49	DAN THOMPSON	CAN	2009
4:43.58	FABIO CALMASINI	ITA	2013	17:14.75	MARK DRENNEN	USA	2007	25.98	STEVE HILTABIDDLE	USA	2016
4:43.64	JEROME FRENTSOS	USA	2010	17:21.77	ARNALDO PEREZ	PUR	2015	26.00	SCOTT HEBER	USA	2016
4:44.28	MARCUS MATTIOLI	BRA	2009	17:28.53	J.CARLOS FREITAS	POR	2015	26.04	FRITZ BEDFORD	USA	2014
4:46.48	PATRICK BRUNDAGE	USA	2013	17:32.20	JIM CLEMMONS	USA	2001	26.12	PAUL CARTER	USA	2007
4:46.48	MARCO TENDERINI	ITA	2012	50	M. BACK			26.20	PAUL SMITH	USA	2009
4:46.68	CHRIS STEVENSON	USA	2009	26.69	FRITZ BEDFORD	USA	2015	26.45	WILLIAM SPECHT	USA	2009
*****				27.66	CRAIG NORREY	SUI	2011	26.70	ANDREA TOJA	ITA	2016
M E N 50-54				27.71	STEVE WOOD	USA	2011	26.78	FRITZ HOMANS	USA	2008
*****				27.73	HIROYOSHI MAETOGE	JPN	2015	26.79	GREG SHAW	USA	2003
50	M. FREE			28.37	JAMIE FOWLER	USA	2009	100	M. FLY		
23.38	ROWDY GAINES	USA	2009	28.40	MARCO COLOMBO	ITA	2010	57.29	PAUL CARTER	USA	2007
23.96	BRENT BARNES	JPN	2010	28.67	HIROSHI SHIBUYA	JPN	2010	58.30	DAVID SIMS	USA	2012
24.26	PAUL TREVISAN	USA	2003	28.69	GIANNI BERTOLI	ITA	2010	58.76	MARIO LLORET	ESP	2009
24.40	CALVIN MAUGHAN	RSA	2016	28.75	CLAY BRITT	USA	2011	58.86	JAN BIDRMAN	CAN	2016
24.64	FRITZ BEDFORD	USA	2015	28.81	WOLFGANG RABER	AUT	2016	59.25	WILLIAM SPECHT	USA	2009
24.65	RICO ROLLI	ITA	2016	100	M. BACK			59.26	ANDREA TOJA	ITA	2016
24.74	DMITRI KHODKO	SWE	2009	58.47	FRITZ BEDFORD	USA	2015	59.39	DAN THOMPSON	CAN	2009
24.74	V.GALAVTINE	FRA	2003	59.79	HIROYOSHI MAETOGE	JPN	2015	59.52	MIKE SHAFFER	USA	2016
24.77	PAUL SMITH	USA	2009	59.92	STEVE WOOD	USA	2011	59.71	FRITZ BEDFORD	USA	2014
24.80	DAN THOMPSON	CAN	2009	1:00.38	JAMIE FOWLER	USA	2009	59.91	HUGO BREGMAN	NED	2008
100	M. FREE			1:01.47	EDWIN VAN NORDEN	NED	2014	200	M. FLY		
51.61	ROWDY GAINES	USA	2009	1:01.48	TOM WOLF	USA	2004	2:10.52	MIKE SHAFFER	USA	2016
53.87	BOB BUGG	USA	2009	1:01.86	WIESLAW MUSIAL	CAN	2009	2:11.15	MARCUS MATTIOLI	BRA	2014
54.29	BRENT BARNES	JPN	2009	1:01.89	MARIO LLORET	ESP	2009	2:11.70	DAVID SIMS	USA	2012
54.40	RICHARD KAMMERER	USA	2009	1:01.90	CRAIG NORREY	SUI	2011	2:12.41	DENNIS BAKER	USA	2011
54.55	FRITZ BEDFORD	USA	2014	1:01.92	GIANNI BERTOLI	ITA	2009	2:12.54	WILLIAM SPECHT	USA	2009
54.61	PAUL TREVISAN	USA	2003	200	M. BACK			2:12.90	HUGO BREGMAN	NED	2010
54.65	PIERRE BLANC	FRA	2015	2:11.84	JAMIE FOWLER	USA	2009	2:13.06	MAURO CAPPELLETTI	ITA	2015
54.73	DMITRI KHODKO	SWE	2009	2:13.05	WIESLAW MUSIAL	CAN	2009	2:17.82	ANDREA TOJA	ITA	2016
54.74	MICHAEL GREEN	USA	2014	2:14.03	TOM WOLF	USA	2004	2:17.99	A.LAVEGLIA	ITA	2016
54.92	LAURENT NEUVILLE	FRA	2015	2:14.34	LEN GUSHE	CAN	2013	2:18.02	SCOTT LAUTMAN	USA	2004
200	M. FREE			2:15.10	SCOTT SHAKE	USA	2008	100	M. I.M.		
1:54.61	ROWDY GAINES	USA	2011	2:15.14	JEROME FRENTSOS	USA	2015	1:00.57	SCOTT HEBER	USA	2016
1:56.75	BOB BUGG	USA	2009	2:15.53	HIROYOSHI MAETOGE	JPN	2015	1:00.96	DAVID SIMS	USA	2012
1:57.37	DAVID SIMS	USA	2014	2:15.66	MATTHEW NANCE	USA	2016	1:01.21	JEROME FRENTSOS	USA	2015
1:58.37	JIM MCCONICA	USA	2000	2:15.71	G.FRANCESCHI	ITA	2016	1:01.21	EDWIN VAN NORDEN	NED	2014
				2:15.75	RAFAEL SEGARRA	PUR	2014	1:01.29	JAMIE FOWLER	USA	2009



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1:01.54 PAUL SMITH USA 2009	4:32.83 TIM BIRNIE USA 2000	1:08.13 WALTER KUSCH GER 2009
1:01.58 FRITZ BEDFORD USA 2015	4:32.85 LARRY WOOD USA 2009	1:09.93 TIMOTHY SHEAD USA 2009
1:01.65 JAN BIDRMAN CAN 2016	4:33.06 DAN STEPHENSON USA 2012	1:10.17 ANDREY KOMISSAROV USA 2015
1:01.68 ANDERS RASMUSSEN USA 2013	800 M. FREE	1:10.45 DAVE TOWN CAN 2016
1:02.25 DAVID GUTHRIE USA 2013	8:51.34 MICHAEL MANN USA 2009	1:10.56 G.HOFFMANN USA 2011
200 M. I.M.	9:03.00 JIM MCCONICA USA 2006	1:11.26 OLIVIER BORIOS FRA 2014
2:12.85 JEROME FRENTSOS USA 2015	9:07.40 G.SCARAMEL ITA 2008	1:11.39 SERGEY MOLODIN RUS 2015
2:13.40 JAMIE FOWLER USA 2009	9:13.15 TOD SPIEKER USA 2003	1:11.53 ROBERT STRAND USA 2001
2:13.50 DAVID SIMS USA 2014	9:23.27 MARTEN DE GROOT NED 2014	1:11.67 TIMUR PODMARYOV RUS 2012
2:14.50 SCOTT HEBER USA 2016	9:25.93 JIM CLEMMONS USA 2008	200 M. BRST
2:14.53 KEN SHILLING USA 2008	9:26.04 R SCOTT TOWNSEND USA 2009	2:27.00 DAVID GUTHRIE USA 2015
2:15.16 TAIHEI SAKA JPN 2014	9:26.87 GLENN CARLSEN CAN 2012	2:33.79 TIMOTHY SHEAD USA 2009
2:16.09 DAVE TOWN CAN 2012	9:27.18 SERGE GUERIN FRA 2011	2:35.30 DAVE TOWN CAN 2016
2:16.73 MARCUS MATTIOLI BRA 2011	9:28.44 BRUCE THOMAS USA 2016	2:35.73 G.HOFFMANN USA 2012
2:17.09 EDWIN VAN NORDEN NED 2015	1500 M. FREE	2:36.10 TIMUR PODMARYOV RUS 2012
2:17.48 PAUL CARTER USA 2007	17:14.15 JAMES MCCONICA USA 2005	2:36.49 ANDREY KOMISSAROV USA 2015
400 M. I.M.	17:35.21 TOD SPIEKER USA 2003	2:36.90 RALPH SCHALLON SUI 2009
4:45.15 JEROME FRENTSOS USA 2015	17:56.15 J.CHATARD FRA 2006	2:37.93 PATRICK ALLENDER USA 2013
4:48.02 MARCUS MATTIOLI BRA 2011	17:58.95 STEVEN PRESCOTT NZL 2009	2:38.76 ROBERT STRAND USA 2001
4:49.34 TAIHEI SAKA JPN 2014	18:02.40 JIM CLEMMONS USA 2005	2:39.45 BENN DOYLE USA 2013
4:49.49 DAVID SIMS USA 2014	18:04.07 MARC JOUANDON FRA 2012	50 M. FLY
4:51.57 JAMIE FOWLER USA 2009	18:05.03 BRUCE THOMAS USA 2016	26.45 DAN THOMPSON CAN 2013
4:51.98 RICARDO VALDIVIA USA 2015	18:10.34 GLENN CARLSEN CAN 2012	26.67 STEVE WOOD USA 2015
4:53.73 RAFAEL SEGARRA PUR 2014	18:12.52 MARTEN DE GROOT NED 2014	26.80 BRUCE KONE USA 2015
4:54.69 LEN GUSHE CAN 2013	18:13.36 LARRY WOOD USA 2009	26.93 GREG SHAW USA 2009
4:55.39 DENNIS BAKER USA 2012	50 M. BACK	27.16 PAUL CARTER USA 2014
4:55.50 LINCOLN DJANG USA 2009	27.62 STEVE WOOD USA 2015	27.21 STEVE BOROWSKI USA 2002
*****	27.96 CRAIG NORREY GBR 2016	27.35 HUGO BREGMAN NED 2013
M E N 55-59	29.01 TOM BARTON USA 2012	27.58 KEVIN MCCORMACK USA 2008
*****	29.02 HIROSHI SHIBUYA JPN 2015	27.74 RICH ABRAHAMS USA 2001
50 M. FREE	29.07 PHILIPP DJANG USA 2009	27.75 CRAIG NORREY GBR 2016
24.51 BRENT BARNES JPN 2015	29.09 JAMIE FOWLER USA 2014	100 M. FLY
24.66 STEVE WOOD USA 2015	29.33 MARCO COLOMBO ITA 2015	59.80 DAN THOMPSON CAN 2013
24.70 PAUL TREVISAN USA 2006	29.35 UDO CHRISTIANSEN GER 2016	1:00.35 GREG SHAW USA 2006
24.91 JACK GROSELLE USA 2009	29.41 ALISTAIR COCKBURN USA 2008	1:00.58 HUGO BREGMAN NED 2013
25.00 RICH ABRAHAMS USA 2001	29.56 BRUCE KONE USA 2016	1:00.86 STEVE WOOD USA 2015
25.25 MARCO COLOMBO ITA 2016	100 M. BACK	1:00.98 PAUL CARTER USA 2014
25.25 DAN THOMPSON CAN 2013	1:00.84 STEVE WOOD USA 2015	1:01.96 MARCUS MATTIOLI BRA 2016
25.38 MIKE TENNANT USA 2009	1:02.26 MARCO COLOMBO ITA 2015	1:02.13 STEVEN WALL GBR 2009
25.42 BARRY ROTH USA 2009	1:02.38 JAMIE FOWLER USA 2014	1:02.60 MIKE LAMONICA USA 2016
25.43 BRUCE KONE USA 2014	1:02.63 HIROSHI SHIBUYA JPN 2016	1:02.64 JIM SAUER USA 2012
100 M. FREE	1:03.29 TOM BARTON USA 2011	1:02.74 KEVIN MCCORMACK USA 2009
54.50 JACK GROSELLE USA 2009	1:03.75 PHILIPP DJANG USA 2009	1:02.74 STEVE BOROWSKI USA 2002
55.12 PAUL TREVISAN USA 2006	1:03.88 CRAIG NORREY GBR 2016	200 M. FLY
56.05 STEVE WOOD USA 2015	1:04.74 A.BONANNI ITA 2016	2:15.97 HUGO BREGMAN NED 2013
56.18 BRENT BARNES JPN 2014	1:04.76 UDO CHRISTIANSEN GER 2016	2:19.72 JOHN CRAIG USA 2009
56.29 CHARLES LEMAISTRE USA 2009	1:04.89 TIM BIRNIE USA 2000	2:21.90 GREG SHAW USA 2007
56.51 RICH ABRAHAMS USA 2001	200 M. BACK	2:22.13 JAMES MCCONICA USA 2005
56.53 CRAIG NORREY GBR 2016	2:15.79 JAMIE FOWLER USA 2014	2:22.73 FRED SCHLICHER USA 2003
56.62 EDGARS OZOLINS LAT 2015	2:17.04 TOM BARTON USA 2011	2:23.09 JIM SAUER USA 2013
56.74 STEVE BOROWSKI USA 2002	2:19.42 PHILIPP DJANG USA 2009	2:24.30 MIKE LAMONICA USA 2015
56.75 LARRY FORSYTH AUS 2015	2:19.63 STEVE WOOD USA 2015	2:25.34 SEIICHI YARITA JPN 2012
200 M. FREE	2:20.59 JAMES MCCONICA USA 2005	2:25.95 SCOTT LAUTMAN USA 2008
1:59.08 MICHAEL MANN USA 2009	2:21.80 TOD SPIEKER USA 2003	2:26.26 DAVID VANDAM USA 2010
2:03.40 S.D'ALESSANDRO ITA 1995	2:22.01 WIESLAW MUSIAL CAN 2013	100 M. I.M.
2:03.56 JACK GROSELLE USA 2009	2:22.25 JIM ADAMS NED 2006	1:01.76 STEVE WOOD USA 2015
2:03.64 JAMES MCCONICA USA 2005	2:22.36 DAVE TOWN CAN 2016	1:03.13 MARCO COLOMBO ITA 2015
2:04.97 JAMES RITTER USA 2013	2:23.24 UDO CHRISTIANSEN GER 2016	1:03.14 JAMIE FOWLER USA 2014
2:05.07 MARTEN DE GROOT NED 2014	50 M. BRST	1:03.48 TIMOTHY SHEAD USA 2009
2:05.44 ANDERS HAGLUND SWE 2016	30.37 DAVID GUTHRIE USA 2016	1:03.58 DAVE TOWN CAN 2016
2:05.83 MARCUS MATTIOLI BRA 2016	30.50 WALTER KUSCH GER 2009	1:03.69 GREG SHAW USA 2008
2:05.91 MARCO COLOMBO ITA 2015	31.60 MASAOKI OTSUKI JPN 2016	1:04.31 BRUCE KONE USA 2014
2:06.14 EDGARS OZOLINS LAT 2015	31.65 OLIVIER BORIOS FRA 2014	1:04.34 ROBERT WEYHENKE NED 2007
400 M. FREE	31.82 TIMOTHY SHEAD USA 2009	1:04.53 DAVID GUTHRIE USA 2016
4:16.03 MICHAEL MANN USA 2009	31.84 PATRICIO GOMEZ ESP 2013	1:04.74 ANDREY KOMISSAROV USA 2016
4:24.92 JIM MCCONICA USA 2006	31.94 BRUCE KONE USA 2016	200 M. I.M.
4:28.73 TOD SPIEKER USA 2003	32.06 G.HOFFMANN USA 2011	2:16.44 MICHAEL MANN USA 2009
4:28.97 J.CHATARD FRA 2006	32.17 STUART ELLICOTT AUS 2009	2:16.98 DAVE TOWN CAN 2016
4:30.73 MARTEN DE GROOT NED 2014	32.18 SERGEY PAKHOMOV RUS 2016	2:18.69 JAMIE FOWLER USA 2014
4:31.62 PAUL BLACKBEARD AUS 2014	32.18 ROBERT STRAND USA 2001	2:20.58 ANDREY KOMISSAROV USA 2015
4:31.95 STEVEN PRESCOTT NZL 2009	100 M. BRST	2:21.00 JIM SAUER USA 2012
	1:06.80 DAVID GUTHRIE USA 2016	2:21.05 GREG SHAW USA 2006



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2:23.49	HUGO BREGMAN	NED 2015	9:56.38	RICK WALKER	USA 2010	2:43.53	LORENZO MARUGO	ITA 2012
2:23.49	ROBERT WEYHENKE	NED 2007	9:58.02	VITTORIO ERMIRIO	ITA 2005	2:45.93	PETER KAUCH	GER 2016
2:23.60	PHILIPP DJANG	USA 2009	1500 M. FREE			2:46.21	G.HOFFMANN	USA 2016
2:24.59	JACK GROSELLE	USA 2012	18:24.21	JIM MC CONICA	USA 2010	2:46.21	TOSHIHARU FUJII	JPN 2010
400 M. I.M.			18:28.64	JIM CLEMMONS	USA 2010	2:47.32	JIM CLEMMONS	USA 2010
4:51.97	MICHAEL MANN	USA 2009	18:44.64	MARCO BRAVI	ITA 2016	2:48.65	C.STARZEC	FRA 2012
5:00.54	JIM SAUER	USA 2012	18:50.59	JAMES MCCLEERY	USA 2007	2:48.67	ALLEN STARK	USA 2011
5:05.40	LORENZO MARUGO	ITA 2007	18:54.07	JACK GROSELLE	USA 2015	50 M. FLY		
5:07.68	DAVE TOWN	CAN 2016	18:54.83	DUNCAN MCCREADIE	GBR 2005	26.96	DAN THOMPSON	CAN 2016
5:07.99	HUGO BREGMAN	NED 2013	18:55.42	ALAN BELL	USA 2010	27.53	DONALD GRAHAM	USA 2014
5:08.15	JAMES MCCONICA	USA 2005	18:59.27	RICK WALKER	USA 2010	27.87	RICHARD ABRAHAMS	USA 2008
5:11.49	GREG SHAW	USA 2007	19:00.25	GEORGE WENDT	USA 2009	28.22	DOUG MARTIN	USA 2013
5:13.29	R TOD SPIEKER	USA 2003	19:01.56	JOEL KRIGER	BRA 2013	28.26	MARC MIDDLETON	USA 2013
5:13.35	JIM CLEMMONS	USA 2008	50 M. BACK			28.30	TAKEO HIRAMOTO	JPN 2010
5:14.85	JACK GROSELLE	USA 2012	29.64	PHILIPP DJANG	USA 2014	28.52	LEONARD BIELICZ	SWE 2013
*****			29.86	TOM BARTON	USA 2016	28.59	GREG SHAW	USA 2011
M E N 60-64			30.42	MARTTI LAAJUS	ESP 2014	28.80	KENJI NAKAMATSU	JPN 2009
*****			30.50	TAKEO HIRAMOTO	JPN 2010	28.85	JACK GROSELLE	USA 2015
50 M. FREE			30.80	HUGH WILDER	USA 2009	100 M. FLY		
24.90	RICH ABRAHAMS	USA 2006	31.03	MARC MIDDLETON	USA 2011	1:00.20	DAN THOMPSON	CAN 2016
25.40	PAUL TREVISAN	USA 2012	31.04	DONALD GRAHAM	USA 2015	1:03.67	TAKEO HIRAMOTO	JPN 2010
25.58	DOUG MARTIN	USA 2013	31.24	SIMON VEALE	GBR 2016	1:03.76	RICH ABRAHAMS	USA 2006
25.59	JACK GROSELLE	USA 2014	31.25	BRUCE WILLIAMS	USA 2014	1:04.05	JACK GROSELLE	USA 2014
25.74	DAN THOMPSON	CAN 2016	31.31	ROBERT SMITH	USA 2004	1:04.27	DONALD GRAHAM	USA 2015
25.87	MARC MIDDLETON	USA 2012	100 M. BACK			1:04.47	GREG SHAW	USA 2011
26.18	BRUCE WILLIAMS	USA 2014	1:04.13	TOM BARTON	USA 2016	1:04.99	BRIAN PATNO	USA 2016
26.18	RAGNAR JENSEN	NOR 2008	1:05.62	PHILIPP DJANG	USA 2014	1:05.57	FRED SCHLICHER	USA 2008
26.25	DAVID CHANEY	GBR 2013	1:06.27	TIMOTHY SHEAD	USA 2012	1:05.67	KEVIN MCCORMACK	USA 2012
26.31	JEFF FARRELL	USA 2000	1:06.85	BRUCE WILLIAMS	USA 2014	1:05.81	JOHN CRAIG	USA 2014
100 M. FREE			1:06.99	WES EDWARDS	USA 2013	200 M. FLY		
55.87	JACK GROSELLE	USA 2014	1:07.31	HUGH WILDER	USA 2009	2:23.29	RICK COLELLA	USA 2015
56.63	RICH ABRAHAMS	USA 2008	1:08.25	J.DELAPORTE	FRA 2016	2:29.40	SCOTT LAUTMAN	USA 2012
56.90	JAMES RITTER	USA 2016	1:08.49	FRED FERROGGIARO	USA 2013	2:30.18	FRED SCHLICHER	USA 2008
57.61	PAUL TREVISAN	USA 2012	1:08.85	RICHARD BURNS	USA 2003	2:31.52	JOHN CRAIG	USA 2014
57.77	BRUCE WILLIAMS	USA 2014	1:08.98	SIMON VEALE	GBR 2016	2:32.76	JEAN LESTIDEAU	FRA 2007
57.85	DAN THOMPSON	CAN 2016	200 M. BACK			2:33.20	JACK GROSELLE	USA 2015
58.43	MICHAEL BLATT	USA 2015	2:20.38	TOM BARTON	USA 2016	2:33.96	TAKEO HIRAMOTO	JPN 2014
58.87	BRYAN BATEMAN	USA 2008	2:26.30	PHILIPP DJANG	USA 2014	2:34.50	DAVID VANDAM	USA 2015
58.97	LARRY KRAUSER	USA 2013	2:27.99	TIMOTHY SHEAD	USA 2012	2:34.65	ROBERT POILETMAN	USA 2003
59.28	MICHAEL PATRICK	CAN 2016	2:28.90	WES EDWARDS	USA 2013	2:35.28	GREG SHAW	USA 2011
200 M. FREE			2:29.60	JIM MC CONICA	USA 2010	100 M. I.M.		
2:01.65	RICK COLELLA	USA 2015	2:30.96	JOHN CALVERT	USA 2005	1:04.23	RICK COLELLA	USA 2015
2:05.07	JACK GROSELLE	USA 2014	2:31.42	ROBERT WEYHENKE	NED 2013	1:05.53	TIMOTHY SHEAD	USA 2012
2:07.22	JAMES RITTER	USA 2016	2:32.37	FRED FERROGGIARO	USA 2013	1:06.10	JACK GROSELLE	USA 2014
2:07.96	LARRY KRAUSER	USA 2013	2:33.06	L.ETTORE	ITA 2014	1:06.53	TAKEO HIRAMOTO	JPN 2010
2:09.50	JIM MC CONICA	USA 2010	2:33.89	J.DELAPORTE	FRA 2016	1:07.56	DONALD GRAHAM	USA 2015
2:10.04	FRED SCHLICHER	USA 2008	50 M. BRST			1:07.77	ROBERT WEYHENKE	NED 2012
2:11.78	DUNCAN MCCREADIE	FRA 2006	31.51	RICK COLELLA	USA 2015	1:07.80	GEORGE SCHMIDT	USA 2010
2:12.02	SERGE GUBRIN	FRA 2016	32.16	STUART ELLICOTT	AUS 2012	1:07.88	BRYAN BATEMAN	USA 2008
2:12.18	JOHN CALVERT	USA 2005	32.31	ROBERT STRAND	USA 2009	1:07.98	ROBERT STRAND	USA 2009
2:12.59	JAMES THORNTON	USA 2012	32.45	TIMOTHY SHEAD	USA 2012	1:08.08	RICH ABRAHAMS	USA 2009
400 M. FREE			32.74	WALTER KUSCH	GER 2015	200 M. I.M.		
4:34.24	JAMES RITTER	USA 2016	33.25	RANDY PARKER	USA 2014	2:19.96	RICK COLELLA	USA 2015
4:35.15	JACK GROSELLE	USA 2014	33.50	C.STARZEC	FRA 2012	2:24.75	JACK GROSELLE	USA 2014
4:35.39	JIM MC CONICA	USA 2012	33.57	G.HOFFMANN	USA 2016	2:25.98	TIMOTHY SHEAD	USA 2012
4:39.07	MARCO BRAVI	ITA 2016	33.64	YOSHIHIKO OSAKI	JPN 2000	2:28.47	TIM BRODERICK	USA 2011
4:39.58	ANDY KNOWLES	BAH 2015	33.67	STUART WATERBURY	USA 2014	2:29.11	GREG SHAW	USA 2011
4:40.45	DUNCAN MCCREADIE	GBR 2006	100 M. BRST			2:30.48	JOHN CALVERT	USA 2005
4:42.39	JIM CLEMMONS	USA 2010	1:09.92	RICK COLELLA	USA 2015	2:30.56	FRED SCHLICHER	USA 2008
4:42.44	SERGE GUERIN	FRA 2016	1:11.08	TIMOTHY SHEAD	USA 2012	2:30.64	STEVE HECK	USA 2009
4:43.69	JOHN CALVERT	USA 2005	1:12.09	ROBERT STRAND	USA 2009	2:31.02	JIM CLEMMONS	USA 2010
4:45.97	LARRY KRAUSER	USA 2013	1:12.38	JACK GROSELLE	USA 2014	2:31.11	ROBERT WEYHENKE	NED 2012
800 M. FREE			1:13.55	TOSHIHARU FUJII	JPN 2010	400 M. I.M.		
9:28.32	JIM MC CONICA	USA 2012	1:13.87	WALTER KUSCH	GER 2015	5:04.54	RICK COLELLA	USA 2011
9:36.37	MARCO BRAVI	ITA 2016	1:14.31	RANDY PARKER	USA 2014	5:17.31	JACK GROSELLE	USA 2014
9:37.50	JAMES RITTER	USA 2016	1:14.62	STUART WATERBURY	USA 2014	5:20.60	LORENZO MARUGO	ITA 2012
9:43.24	JIM CLEMMONS	USA 2010	1:14.67	STUART ELLICOTT	AUS 2015	5:22.86	JIM CLEMMONS	USA 2010
9:43.83	DUNCAN MCCREADIE	GBR 2005	1:14.91	C.STARZEC	FRA 2012	5:25.65	NICK LECLERCQ	USA 2006
9:49.73	LARRY KRAUSER	USA 2013	200 M. BRST			5:25.97	JAMES RITTER	USA 2016
9:51.72	SANDY GALLETLY	GBR 2002	2:37.61	RICK COLELLA	USA 2011	5:26.90	JIM MC CONICA	USA 2010
9:53.30	GEORGE WENDT	USA 2009	2:37.87	TIMOTHY SHEAD	USA 2012	5:28.87	AKIRA IIDA	JPN 2014
			2:40.76	ROBERT STRAND	USA 2009	5:29.09	LAWRENCE DAY	USA 2011



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5:30.74	JEAN LESTIDEAU	FRA	2009	30.34	HUGH WILDER	USA	2012	29.78	DAVID QUIGGIN	USA	2009
				31.64	RICHARD BURNS	USA	2008	29.79	KEEFE LODWIG	USA	2008
				31.77	TAKEO HIRAMOTO	JPN	2016	30.10	TAKEO HIRAMOTO	JPN	2016

M E N 65-69											

50	M. FREE			32.32	VINUS VAN BAALEN	USA	2008	30.18	KENJI NAKAMATSU	JPN	2013
				32.35	LUIZ FIGUEIREDO	BRA	2006	100	M. FLY		
25.62	RICHARD ABRAHAMS	USA	2012	32.43	JIMMY ROGERS	GBR	2014	1:05.37	LAWRENCE DAY	USA	2016
26.41	MARC MIDDLETON	USA	2016	32.76	ROBERT SMITH	USA	2008	1:05.90	JOSEP CLARET	ESP	2009
26.67	LEONARD BIELICZ	SWE	2016	32.89	JOSE LORO	BRA	2016	1:06.60	RICHARD ABRAHAMS	USA	2010
26.68	PAUL TREVISAN	USA	2016	32.93	MARC MIDDLETON	USA	2016	1:07.79	LEONARD BIELICZ	SWE	2016
26.68	KEEFE LODWIG	USA	2008	32.94	RICHARD ABRAHAMS	USA	2010	1:07.83	TAKEO HIRAMOTO	JPN	2015
26.73	VINUS VAN BAALEN	CAN	2007	100	M. BACK			1:08.36	DAVID QUIGGIN	USA	2009
26.85	TATE HOLT	USA	2016	1:07.69	HUGH WILDER	USA	2012	1:09.10	ROBERT POILETMAN	USA	2009
26.87	DAVID QUIGGIN	USA	2009	1:10.16	RICHARD BURNS	USA	2009	1:09.66	DEREK PARR	GBR	2009
26.88	IAN SMITH	CAN	2009	1:12.20	BERND HORSTMANN	GER	2009	1:10.01	HUBIE KERNS	USA	2014
26.90	BAUDOUIN FAUCK	FRA	2016	1:12.36	JIMMY ROGERS	GBR	2014	1:10.25	RICHARD BURNS	USA	2008
100	M. FREE			1:12.51	ROBERT WILSON	USA	2016	200	M. FLY		
58.19	RICK COLELLA	USA	2016	1:13.11	ROBERT SMITH	USA	2008	2:27.35	LAWRENCE DAY	USA	2016
58.58	RICHARD ABRAHAMS	USA	2012	1:13.29	JOSE LORO	BRA	2014	2:33.77	TAKEO HIRAMOTO	JPN	2015
59.40	DAVID QUIGGIN	USA	2009	1:13.39	PETER O'BRIEN	CAN	2015	2:38.71	ROBERT POILETMAN	USA	2008
59.60	KEEFE LODWIG	USA	2008	1:13.63	GEOFFREY MEYER	USA	2016	2:41.64	DEREK PARR	GBR	2009
1:00.10	PAUL TREVISAN	USA	2016	1:13.70	DAN KIRKLAND	USA	2014	2:45.27	J.LESTIDEAU	FRA	2011
1:00.37	LEONARD BIELICZ	SWE	2016	200	M. BACK			2:46.70	HUBIE KERNS	USA	2014
1:01.00	GLENN GRUBER	USA	2014	2:34.93	ALEK SHESTAKOV	USA	2014	2:47.38	HORST LEHMANN	GER	2012
1:01.11	GERHARD SCHILLER	GER	2014	2:34.97	RICHARD BURNS	USA	2009	2:48.60	KOJI IWAMOTO	JPN	2009
1:01.13	RICHARD BURNS	USA	2008	2:35.04	JIM MC CONICA	USA	2015	2:48.78	RICHARD KITCHELL	USA	2005
1:01.16	LEE CHILDS	USA	2013	2:36.26	HUGH WILDER	USA	2012	2:49.43	FRED BAIRD	USA	2013
200	M. FREE			2:37.65	BERND HORSTMANN	GER	2008	100	M. I.M.		
2:07.56	RICK COLELLA	USA	2016	2:39.00	DAN KIRKLAND	USA	2015	1:05.43	RICK COLELLA	USA	2016
2:14.82	TIM BRODERICK	USA	2016	2:42.04	HUBIE KERNS	USA	2014	1:09.90	HUBIE KERNS	USA	2014
2:15.39	DAVID QUIGGIN	USA	2009	2:42.11	JOSE LORO	BRA	2015	1:10.26	ROBERT STRAND	USA	2012
2:16.03	GLENN GRUBER	USA	2014	2:43.59	STEVEN HECK	USA	2014	1:10.42	RICHARD ABRAHAMS	USA	2010
2:16.27	KEEFE LODWIG	USA	2008	2:43.82	MICHAEL MCCOLLY	USA	2010	1:10.56	TAKEO HIRAMOTO	JPN	2015
2:16.28	J.CHATARD	FRA	2016	50	M. BRST			1:10.67	RICHARD BURNS	USA	2008
2:16.68	CARL WATERER	CAN	2016	32.50	RICK COLELLA	USA	2016	1:10.99	BAUDOUIN FAUCK	FRA	2016
2:17.04	RICHARD ABRAHAMS	USA	2012	33.86	OSAMU MAEDA	JPN	2010	1:11.62	GEORGE SCHMIDT	USA	2016
2:17.15	TOM LANDIS	USA	2008	33.97	C.STARZEC	FRA	2015	1:11.84	ROBERT WILSON	USA	2016
2:18.21	JIM MC CONICA	USA	2015	34.19	ROBERT STRAND	USA	2012	1:12.04	KOJI IWAMOTO	JPN	2009
400	M. FREE			34.26	YOSHITADA MAEDA	JPN	2011	200	M. I.M.		
4:45.88	JIM MC CONICA	USA	2015	34.55	LOUIS KRONFELD	USA	2008	2:22.60	RICK COLELLA	USA	2016
4:52.89	RICK WALKER	USA	2015	34.72	JOHN LIRON	GBR	2013	2:30.96	LAWRENCE DAY	USA	2016
4:53.03	DAN KIRKLAND	USA	2015	34.79	ALLEN STARK	USA	2014	2:34.15	HUBIE KERNS	USA	2014
4:54.45	GLENN GRUBER	USA	2014	34.88	JIM DRAGON	USA	2009	2:34.64	ALEK SHESTAKOV	USA	2014
4:54.84	J.CHATARD	FRA	2016	34.89	DIETER HOFEL	GER	2013	2:38.42	RICHARD BURNS	USA	2009
4:55.56	TOM LANDIS	USA	2007	100	M. BRST			2:38.96	ROBERT STRAND	USA	2012
4:55.97	DAVID QUIGGIN	USA	2009	1:13.16	RICK COLELLA	USA	2016	2:39.40	RON ARMSTRONG	CAN	2016
4:59.03	VITTORIO ERMIRIO	ITA	2007	1:15.84	ROBERT STRAND	USA	2012	2:39.62	J.LESTIDEAU	FRA	2011
4:59.42	JIM CLEMMONS	USA	2015	1:16.34	C.STARZEC	FRA	2015	2:40.07	LEE CHILDS	USA	2013
5:00.26	DON DAVIS	USA	2009	1:16.64	OSAMU MAEDA	JPN	2010	2:40.19	JIM CLEMMONS	USA	2015
800	M. FREE			1:17.01	DAVID GILDEA	USA	2008	400	M. I.M.		
9:53.06	JIM MC CONICA	USA	2015	1:17.39	ALLEN STARK	USA	2014	5:34.78	HUBIE KERNS	USA	2014
10:05.03	DAN KIRKLAND	USA	2014	1:18.07	TOSHIHARU FUJII	JPN	2015	5:34.91	ALEK SHESTAKOV	USA	2014
10:06.58	RICK WALKER	USA	2015	1:18.35	HUBIE KERNS	USA	2014	5:37.22	J.LESTIDEAU	FRA	2011
10:09.84	J.CHATARD	FRA	2016	1:18.66	RICHARD TODD	USA	2008	5:42.13	JIM CLEMMONS	USA	2015
10:16.06	VITTORIO ERMIRIO	ITA	2007	1:19.12	KENNETH FROST JR	USA	2009	5:48.22	RON ARMSTRONG	CAN	2016
10:20.63	JIM CLEMMONS	USA	2015	200	M. BRST			5:50.91	RICHARD BURNS	USA	2009
10:21.01	HUBIE KERNS	USA	2014	2:49.05	ROBERT STRAND	USA	2012	5:53.40	GEORGE WENDT	USA	2012
10:21.09	TOM LANDIS	USA	2008	2:53.44	ALLEN STARK	USA	2014	5:54.86	FRANK MCELROY	USA	2013
10:25.32	FRANK MCELROY	USA	2013	2:53.55	C.STARZEC	FRA	2016	5:56.19	LEE CHILDS	USA	2013
10:30.40	GLENN GRUBER	USA	2014	2:54.15	JIM CLEMMONS	USA	2015	5:57.90	BOB COUCH	USA	2012
1500	M. FREE			2:54.56	GERSHON SHEFA	ISR	2008	*****			
18:53.75	JIM MC CONICA	USA	2015	2:55.41	HUBIE KERNS	USA	2014	M E N 70-74			
19:23.83	RICK WALKER	USA	2015	2:55.69	RICK WALKER	USA	2016	*****			
19:31.11	JIM CLEMMONS	USA	2015	2:55.70	TOSHIHARU FUJII	JPN	2015	50	M. FREE		
19:32.78	TOM LANDIS	USA	2007	2:56.37	KENNETH FROST	USA	2009	26.88	RICHARD ABRAHAMS	USA	2015
19:39.12	DAN KIRKLAND	USA	2016	2:56.84	DAVID GILDEA	USA	2008	27.70	JEFF FARRELL	USA	2008
19:41.85	VITTORIO ERMIRIO	ITA	2007	50	M. FLY			28.23	VINUS VAN BAALEN	CAN	2012
19:47.48	JAMES MCCLEERY	USA	2011	28.57	IAN WILKES	GBR	2012	28.28	PETER BERGENGREN	SWE	2008
19:47.71	J.CHATARD	FRA	2016	28.91	JOSEP CLARET	ESP	2009	28.31	IAN SMITH	CAN	2011
19:53.18	GRAHAM JOHNSTON	USA	1996	28.99	RICHARD ABRAHAMS	USA	2010	28.55	RON JOHNSON	USA	2003
20:04.76	FRANK MCELROY	USA	2013	29.05	MARC MIDDLETON	USA	2016	28.59	KATSUTAKA IZUMI	JPN	2015
50	M. BACK			29.18	JIM DRAGON	USA	2009	28.76	CAV CAVANAUGH	USA	2008
				29.52	LEONARD BIELICZ	SWE	2016				



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28.78	DAVID QUIGGIN	USA	2014	1:15.08	BERND HORSTMANN	GER	2012	1:16.91	BARRY YOUNG	NZL	2009
28.89	RUDOLF SMERDA	CZE	2013	1:15.85	YOSHI OYAKAWA	USA	2003	200 M. FLY			
100 M. FREE				1:16.22	JOZSEF CSIKANY	HUN	2015	2:51.32	BARRY YOUNG	NZL	2009
1:01.70	RICHARD ABRAHAMS	USA	2015	1:16.73	BURWELL JONES	USA	2003	2:52.80	DOUGLAS SPRINGER	USA	2016
1:02.87	DAVID QUIGGIN	USA	2014	1:18.00	LUCIEN GAUCHE	FRA	2012	2:55.66	ROBERT POILETMAN	USA	2013
1:03.33	JEFF FARRELL	USA	2007	1:18.09	JIM MALLEY	USA	2016	2:58.89	KOJI IWAMOTO	JPN	2013
1:04.57	RICHARD BURNS	USA	2013	1:18.48	GERHARD WIELAND	AUT	2015	3:00.00	PAUL WYATT	AUS	2016
1:04.58	CAV CAVANAUGH	USA	2005	200 M. BACK				3:01.11	YASUTAKA KOIKE	JPN	2013
1:04.66	PETER BERGEGREN	SWE	2008	2:38.01	RICHARD BURNS	USA	2013	3:02.09	J.LESTIDEAU	FRA	2016
1:05.08	AKIRA FUJIMAKI	JPN	2013	2:40.17	BARRY YOUNG	NZL	2009	3:02.81	RUDOLF SMERDA	CZE	2016
1:05.11	HIROSHI MARUYAMA	JPN	2012	2:48.91	JOZSEF CSIKANY	HUN	2013	3:04.03	DOUGLAS MILLER	USA	2016
1:05.41	RUDOLF SMERDA	CZE	2013	2:51.24	BURWELL JONES	USA	2003	3:05.05	DEREK PARR	GBR	2015
1:05.41	IAN SMITH	CAN	2011	2:51.82	LUCIEN GAUCHE	FRA	2012	100 M. I.M.			
200 M. FREE				2:52.12	JIM MALLEY	USA	2016	1:13.09	RICHARD ABRAHAMS	USA	2015
2:22.60	DAVID QUIGGIN	USA	2014	2:53.22	S.SEKIKAWA	JPN	2003	1:14.40	RICHARD BURNS	USA	2013
2:23.30	RICHARD ABRAHAMS	USA	2015	2:53.59	YOSHI OYAKAWA	USA	2003	1:14.73	JACK KELSO	CAN	2009
2:24.31	GRAHAM JOHNSTON	USA	2001	2:54.36	MARTY MENNEN	USA	2007	1:15.54	BARRY YOUNG	NZL	2009
2:25.01	RICHARD BURNS	USA	2013	2:55.04	RICHARD TODD	USA	2012	1:15.60	KOJI IWAMOTO	JPN	2013
2:26.61	TOM LANDIS	USA	2013	50 M. BRST				1:15.92	RONALD JOHNSON	USA	2001
2:27.01	J-C LESTIDEAU	ESP	2016	35.53	DIETER HOFEL	GER	2016	1:16.05	JEFF FARRELL	USA	2007
2:28.30	KEEFE LODWIG	USA	2015	35.85	YOSHIHIKO OSAKI	JPN	2009	1:16.25	J-C LESTIDEAU	ESP	2016
2:28.41	CAV CAVANAUGH	USA	2005	35.97	ROBERT STRAND	USA	2016	1:16.79	DOUGLAS SPRINGER	USA	2016
2:28.80	AKIRA FUJIMAKI	JPN	2013	36.15	DOUGLAS SPRINGER	USA	2016	1:17.19	DAVE COSTILL	USA	2008
2:29.28	MASATO YOSHINO	JPN	2009	36.16	DAVID GILDEA	USA	2013	200 M. I.M.			
400 M. FREE				37.03	ANTONIO ORSELLI	BRA	2014	2:42.44	BARRY YOUNG	NZL	2009
5:05.47	DAVID QUIGGIN	USA	2014	37.26	JEFF FARRELL	USA	2007	2:44.81	RICHARD BURNS	USA	2013
5:09.75	GRAHAM JOHNSTON	USA	2002	37.39	OSAMU MAEDA	JPN	2014	2:46.61	DOUGLAS SPRINGER	USA	2016
5:12.57	TOM LANDIS	USA	2012	37.43	KENNETH FROST	USA	2015	2:46.98	J.LESTIDEAU	FRA	2016
5:14.70	J-C LESTIDEAU	ESP	2016	37.44	HANS REICHELT	GER	2007	2:49.43	JACK KELSO	CAN	2009
5:15.88	BURWELL JONES	USA	2003	100 M. BRST				2:51.73	BURWELL JONES	USA	2003
5:18.28	DAVID RADCLIFF	USA	2007	1:19.04	DOUGLAS SPRINGER	USA	2016	2:52.12	PAUL WYATT	AUS	2016
5:22.81	DUNCAN MC CREADIE	GBR	2015	1:20.76	ROBERT STRAND	USA	2016	2:52.63	KOJI IWAMOTO	JPN	2012
5:23.49	RUDOLF SMERDA	CZE	2013	1:21.41	DAVID GILDEA	USA	2013	2:53.12	NORIAKI TSUJI	JPN	2016
5:24.38	TADANOBU YAMADA	JPN	2013	1:22.45	DIETER HOFEL	GER	2015	2:54.26	MIKE FRESHLEY	USA	2011
5:26.04	YASUSHI YAMAGUCHI	JPN	2009	1:23.07	SEIKO OKAZAKI	JPN	2016	400 M. I.M.			
800 M. FREE				1:23.34	NORIAKI TSUJI	JPN	2016	5:48.67	BARRY YOUNG	NZL	2009
10:52.68	GRAHAM JOHNSTON	USA	2001	1:23.63	BARRY YOUNG	NZL	2009	5:57.68	J.LESTIDEAU	FRA	2016
11:01.38	DAVID RADCLIFF	USA	2007	1:23.70	HANS REICHELT	GER	2007	6:04.55	DOUGLAS SPRINGER	USA	2016
11:04.40	DAVID QUIGGIN	USA	2014	1:24.13	TONY GOODWIN	AUS	2007	6:07.39	PAUL WYATT	AUS	2016
11:16.51	YASUSHI YAMAGUCHI	JPN	2009	1:24.13	TETSUO NAKAMARU	JPN	2005	6:16.26	DOUGLAS MILLER	USA	2016
11:17.52	TOM LANDIS	USA	2012	200 M. BRST				6:17.67	TOM LANDIS	USA	2013
11:19.87	J-C LESTIDEAU	ESP	2016	2:55.87	ROBERT STRAND	USA	2016	6:20.98	RUDOLF SMERDA	CZE	2014
11:23.10	ERNIE LESKOVITZ	USA	2006	2:59.41	DOUGLAS SPRINGER	USA	2016	6:21.46	BURWELL JONES	USA	2003
11:25.65	JOHN CRISP	AUS	2005	3:01.22	BARRY YOUNG	NZL	2009	6:21.47	JACK KELSO	CAN	2009
11:26.47	GEOFF STOKES	GBR	2009	3:01.92	NORIAKI TSUJI	JPN	2016	6:22.65	MASAO KIJIMA	JPN	2011
11:27.55	TONY RALPHS	USA	2015	3:04.51	DAVID GILDEA	USA	2013	*****			
1500 M. FREE				3:05.27	HANS REICHELT	GER	2007	M E N 75-79			
20:54.56	GRAHAM JOHNSTON	USA	2001	3:05.42	MICHAEL MOLONEY	AUS	2009	*****			
21:07.23	TOM LANDIS	USA	2012	3:05.93	PAUL WYATT	AUS	2016	50 M. FREE			
21:07.65	DAVID QUIGGIN	USA	2015	3:06.16	TONY GOODWIN	AUS	2007	29.90	MIKE FRESHLEY	USA	2016
21:17.81	JOHN CRISP	AUS	2005	3:07.68	YOSHIKI AOKI	JPN	2009	30.13	IAN SMITH	CAN	2016
21:24.18	DAVID RADCLIFF	USA	2007	50 M. FLY				30.15	DAVID RADCLIFF	USA	2009
21:57.49	ART STARK	USA	2016	29.52	RICHARD ABRAHAMS	USA	2015	30.29	NEIL MACKINNON	GBR	2016
22:02.11	YASUSHI YAMAGUCHI	JPN	2009	30.96	JIM DRAGON	USA	2014	30.77	DAVID PAINTER	USA	2015
22:04.97	GRAHAM SHORT	GBR	2016	31.55	BERT PETERSEN	USA	2008	31.06	FRANK PIEMME	USA	2001
22:05.01	TONY RALPHS	USA	2015	31.56	JOSEP CLARET	ESP	2014	31.08	BURWELL JONES	USA	2009
22:05.60	RICHARD BURNS	USA	2013	31.71	HIROSHI MATSUMOTO	JPN	2009	31.10	HIROSHI MATSUMOTO	JPN	2011
50 M. BACK				31.79	RUDOLF SMERDA	CZE	2013	31.15	JACK KELSO	CAN	2014
33.51	RICHARD BURNS	USA	2013	31.81	J-C LESTIDEAU	ESP	2016	31.18	TSUTOMU EBIHARA	JPN	2015
33.53	J-C LESTIDEAU	ESP	2016	31.83	RICHARD BURNS	USA	2013	100 M. FREE			
33.90	YOSHI OYAKAWA	USA	2003	31.96	DAVID QUIGGIN	USA	2014	1:05.13	DAVID RADCLIFF	USA	2009
34.15	VINUS VAN BAALEN	CAN	2012	32.36	BERND SCHRODER	GER	2013	1:07.34	MIKE FRESHLEY	USA	2016
34.66	BERND HORSTMANN	GER	2012	100 M. FLY				1:08.90	BURWELL JONES	USA	2009
35.39	KATSUTAKA IZUMI	JPN	2015	1:07.56	RICHARD ABRAHAMS	USA	2015	1:09.15	JACK KELSO	CAN	2014
35.40	ROBERT SMITH	USA	2013	1:12.02	JOSEP CLARET	ESP	2014	1:09.83	HIROSHI MATSUMOTO	JPN	2011
35.44	GERHARD WIELAND	AUT	2016	1:12.64	J.LESTIDEAU	FRA	2016	1:09.89	IAN SMITH	CAN	2016
35.44	S.SEKIKAWA	JPN	2003	1:12.64	ROBERT POILETMAN	USA	2014	1:09.91	WILL GOSNOLD	USA	2016
35.49	JOZSEF CSIKANY	HUN	2016	1:13.68	KOJI IWAMOTO	JPN	2013	1:10.71	SHINGO YAMAMOTO	JPN	2006
100 M. BACK				1:15.96	T.TAKESHITA	JPN	2012	1:11.15	HELMUT RICHTER	GER	2014
1:12.09	RICHARD BURNS	USA	2013	1:16.18	DEREK PARR	GBR	2014	1:11.47	JOAQUIN CANALES	ESP	2015
1:13.32	J-C LESTIDEAU	ESP	2016	1:16.42	RICHARD BURNS	USA	2013	200 M. FREE			
1:14.31	BARRY YOUNG	NZL	2009	1:16.42	RUDOLF SMERDA	CZE	2013				



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

2:27.53	DAVID RADCLIFF	USA	2009	3:09.16	DAVID COSTILL	USA	2014	1:17.55	MIKE FRESHLEY	USA	2016
2:35.60	MIKE FRESHLEY	USA	2016	3:09.22	KEIJIRO NAKAMURA	JPN	1999	1:18.80	BURWELL JONES	USA	2009
2:37.71	GRAHAM JOHNSTON	USA	2006	3:10.00	MAMPEI SEINO	JPN	2008	1:20.43	JACK KELSO	CAN	2015
2:38.07	IKURO SHIMONO	JPN	2013	3:10.22	RAYMOND TAFT	USA	1994	1:21.42	DAVID COSTILL	USA	2011
2:38.97	WERNER SCHNABEL	GER	2012	50 M. BRST				1:22.11	JOAQUIN CANALES	ESP	2015
2:40.22	JOHN CRISP	AUS	2010	38.35	MIKE FRESHLEY	USA	2016	1:22.82	IKURO SHIMONO	JPN	2012
2:42.21	SHINGO YAMAMOTO	JPN	2006	39.04	TETSUO NAKAMARU	JPN	2010	1:23.00	NEIL MACKINNON	GBR	2016
2:42.33	WILL GOSNOLD	USA	2016	39.20	HANS REICHELT	GER	2011	1:23.53	HANS REICHELT	GER	2011
2:43.07	JOAQUIN CANALES	ESP	2015	39.35	TATSUO ASAI	JPN	2016	1:23.97	S.HASEGAWA	JPN	2016
2:43.22	MASATO YOSHINO	JPN	2015	39.36	TONY GOODWIN	AUS	2012	1:24.42	FRANK PIEMME	USA	2000
400 M. FREE				39.84	JACK KELSO	CAN	2015	200 M. I.M.			
5:15.10	DAVID RADCLIFF	USA	2009	39.85	YOSHIKAKI AOKI	JPN	2014	2:55.45	MIKE FRESHLEY	USA	2016
5:30.95	GERHARD HOLE	GER	2012	39.97	TOSHIO TAJIMA	JPN	2000	2:59.26	BURWELL JONES	USA	2009
5:36.32	IKURO SHIMONO	JPN	2012	40.06	BELA FABIAN	HUN	2013	3:03.21	JACK KELSO	CAN	2015
5:40.14	GRAHAM JOHNSTON	USA	2006	40.07	TSUYOSHI HIGUCHI	JPN	2016	3:04.87	IKURO SHIMONO	JPN	2013
5:40.66	MIKE FRESHLEY	USA	2016	40.07	MANUEL SANGUILY	USA	2008	3:07.80	JOAQUIN CANALES	ESP	2015
5:44.36	JOAQUIN CANALES	ESP	2016	100 M. BRST				3:10.06	KARL HAUTER	GER	2000
5:45.47	HIROSHI YOSHIMURA	JPN	2004	1:25.38	MIKE FRESHLEY	USA	2016	3:10.43	MASARU SHINKAI	JPN	2015
5:50.39	BURWELL JONES	USA	2008	1:26.76	HANS REICHELT	GER	2011	3:10.46	JAMES ZURCHER	USA	2009
5:50.91	JOHN CRISP	AUS	2010	1:26.84	TONY GOODWIN	AUS	2012	3:12.11	JOHN CRISP	AUS	2011
5:51.31	GEOFF STOKES	GBR	2014	1:26.87	MASARU SHINKAI	JPN	2016	3:13.66	MASAO KIJIMA	JPN	2016
800 M. FREE				1:27.76	TETSUO NAKAMARU	JPN	2010	400 M. I.M.			
10:59.10	DAVID RADCLIFF	USA	2009	1:28.40	BELA FABIAN	HUN	2013	6:29.29	MIKE FRESHLEY	USA	2016
11:07.83	GERHARD HOLE	GER	2012	1:28.61	ROBERT PFERSDORFF	GER	1999	6:33.87	BURWELL JONES	USA	2009
11:38.56	BURWELL JONES	USA	2008	1:28.72	SHUNSAKU TAKAHIRA	JPN	2007	6:52.62	KARL HAUTER	GER	2001
11:47.67	YASUSHI YAMAGUCHI	JPN	2014	1:29.31	YOSHIKAKI AOKI	JPN	2014	6:54.30	MASARU SHINKAI	JPN	2016
12:00.94	GRAHAM JOHNSTON	USA	2006	1:29.66	JACK KELSO	CAN	2014	6:54.31	JOAQUIN CANALES	ESP	2015
12:02.87	HIROSHI YOSHIMURA	JPN	2004	200 M. BRST				6:56.28	ARTIE WOLFE	USA	2015
12:11.86	WERNER SCHNABEL	GER	2012	3:06.82	MIKE FRESHLEY	USA	2016	6:58.18	ISAO TAKEBAYASHI	JPN	2016
12:13.28	FRANK PIEMME	USA	2000	3:09.09	TONY GOODWIN	AUS	2012	6:59.38	IKURO SHIMONO	JPN	2015
12:17.38	MIKE FRESHLEY	USA	2016	3:12.80	MASARU SHINKAI	JPN	2015	6:59.68	FRANK PIEMME	USA	2000
12:18.32	JOAQUIN CANALES	ESP	2015	3:15.57	HANS REICHELT	GER	2011	7:01.83	ALFRED SEEGER	GER	2015
1500 M. FREE				3:19.96	YOSHIKAKI AOKI	JPN	2014	*****			
20:39.50	DAVID RADCLIFF	USA	2009	3:20.93	TSUTOMU KAJIHARA	JPN	2008	M E N 80-84			
22:27.75	GRAHAM JOHNSTON	USA	2006	3:21.50	KARL HAUTER	GER	2000	*****			
22:28.06	BURWELL JONES	USA	2008	3:24.84	ROBERT PFERSDORFF	GER	1999	50 M. FREE			
22:52.00	HIROSHI YOSHIMURA	JPN	2003	3:25.59	CHRISTIAN THIESS	AUS	2013	31.74	HIROSHI MATSUMOTO	JPN	2016
23:18.51	JOAQUIN CANALES	ESP	2015	3:26.24	MORIAKI SUGIURA	JPN	2014	32.14	ROBERTO ALBERICHE	ESP	2013
23:22.66	TOSABURO HOSOKAWA	JPN	2010	50 M. FLY				32.61	KEIJIRO NAKAMURA	JPN	2004
23:32.45	MIKE FRESHLEY	USA	2016	32.41	MIKE FRESHLEY	USA	2016	32.80	FRANK PIEMME	USA	2005
23:32.47	FRANK WILLIAMS	USA	2015	32.93	HIROSHI MATSUMOTO	JPN	2012	32.90	CAV CAVANAUGH	USA	2015
23:35.18	MICK MARSHALL	GBR	2014	33.18	Y.FUNAHASHI	JPN	2015	33.23	B.SCHLURIKE	GER	2001
23:50.64	GERHARD HOLE	GER	2012	33.27	ARAM BOGHOSIAN	BRA	2004	33.26	DAVID COSTILL	USA	2016
50 M. BACK				34.00	TSUTOMU EBIHARA	JPN	2015	33.26	DAVID RADCLIFF	USA	2015
35.51	YOSHI OYAKAWA	USA	2008	34.34	NEIL MACKINNON	GBR	2016	33.57	H.TAKAHASHI	JPN	2016
35.93	BURWELL JONES	USA	2009	34.53	JEAN LE DALL	FRA	2008	33.60	ILO FONSECA	BRA	2010
36.58	S.SEKIKAWA	JPN	2008	34.57	HELMUT RICHTER	GER	2014	100 M. FREE			
36.68	CLARKE MITCHELL	USA	2007	34.58	RYUJI TAKAMINE	JPN	2016	1:11.26	DAVID RADCLIFF	USA	2014
36.94	JOAQUIN CANALES	ESP	2015	34.64	TAISUKE MIYAZAKI	JPN	2016	1:12.84	ROBERTO ALBERICHE	ESP	2012
37.26	MIKE FRESHLEY	USA	2016	100 M. FLY				1:13.32	HIROSHI MATSUMOTO	JPN	2016
37.47	KEIJIRO NAKAMURA	JPN	1998	1:21.12	TAISUKE MIYAZAKI	JPN	2014	1:15.16	CAV CAVANAUGH	USA	2015
37.79	MIKLOS KOVATS	HUN	2015	1:23.68	JOAQUIN CANALES	ESP	2016	1:16.09	KEIJIRO NAKAMURA	JPN	2003
37.80	JOHN SMITH	USA	2013	1:24.03	CHITOSHI KONISHI	JPN	2015	1:16.30	SHOICHI SHIDA	JPN	2006
37.84	TOM VERTH	CAN	2013	1:24.38	TAKASHI HAYASHI	JPN	2009	1:16.84	WERNER SCHNABEL	GER	2016
100 M. BACK				1:25.07	GUNTER SCHOPKE	GER	2015	1:17.02	FRANK PIEMME	USA	2005
1:18.47	BURWELL JONES	USA	2009	1:26.05	MIKE FRESHLEY	USA	2016	1:17.27	SHINGO YAMAMOTO	JPN	2011
1:20.16	YOSHI OYAKAWA	USA	2008	1:26.45	YOICHI AOKI	JPN	2016	1:17.30	H.TAKAHASHI	JPN	2016
1:20.66	S.SEKIKAWA	JPN	2009	1:26.67	GENICHI IGARASHI	JPN	2011	200 M. FREE			
1:22.02	JOAQUIN CANALES	ESP	2016	1:26.86	HIROSHI MATSUMOTO	JPN	2011	2:38.25	DAVID RADCLIFF	USA	2014
1:23.39	HELMUT RICHTER	GER	2014	1:27.25	GIULIO DIVANO	ITA	2009	2:45.24	ROBERTO ALBERICHE	ESP	2012
1:23.51	MIKE FRESHLEY	USA	2016	200 M. FLY				2:46.61	WERNER SCHNABEL	GER	2016
1:23.55	T.HASHIMOTO	JPN	2015	3:16.99	TAKASHI HAYASHI	JPN	2009	2:49.39	HIROSHI MATSUMOTO	JPN	2016
1:23.73	TOM VERTH	CAN	2013	3:25.16	ALFRED SEEGER	GER	2015	2:52.14	CAV CAVANAUGH	USA	2015
1:23.81	CLARKE MITCHELL	USA	2007	3:26.72	ROBERT PFERSDORFF	GER	1999	2:52.72	GERHARD HOLE	GER	2015
1:24.10	MIKLOS KOVATS	HUN	2016	3:27.58	KARL HAUTER	GER	2001	2:55.46	SHINGO YAMAMOTO	JPN	2011
200 M. BACK				3:28.32	OLEG TKACHENKO	RUS	2016	2:56.89	BURWELL JONES	USA	2013
2:49.20	BURWELL JONES	USA	2009	3:29.00	ERIVALDO LIMA	BRA	2008	2:57.47	GRAHAM JOHNSTON	USA	2011
2:58.21	ROGER FRANKS	USA	2002	3:29.28	CHRISTIAN THIESS	AUS	2013	2:57.97	TOSABURO HOSOKAWA	JPN	2016
3:00.49	T.HASHIMOTO	JPN	2016	3:31.15	MIKE FRESHLEY	USA	2016	400 M. FREE			
3:00.92	S.SEKIKAWA	JPN	2008	3:31.23	MAURICE LUSIEN	FRA	2001	5:39.27	DAVID RADCLIFF	USA	2014
3:03.13	FRANS VAN ENST	NED	2015	3:31.93	ISAO TAKEBAYASHI	JPN	2016	5:56.77	ROBERTO ALBERICHE	ESP	2012
3:04.84	KARL DONOGHUE	CAN	2015	100 M. I.M.							

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15:05.68	HIROSHI IMAIZUMI	JPN	2010	4:05.91	FRANK PIEMME	USA	2010	10:13.47	DON LEADER	GBR	2009
15:15.07	FRANK PIEMME	USA	2010	4:13.03	THOMAS MAINE	USA	2010	10:26.11	HIRONARI UEDA	JPN	2006
15:15.68	JIM EUBANK	USA	2000	4:15.02	KARL HAUTER	GER	2014	10:47.13	HERB EISENSCHMIDT	USA	1991
16:00.39	ROBERT BEACH	USA	2015	4:16.20	ALDO DA ROSA	USA	2002	11:07.74	WILLIAM JOHNSTON	USA	2003
16:03.63	D.CASOLINO	ITA	2012	4:20.43	HIROMU YOSHIMOTO	JPN	2001	*****			
1500 M. FREE				4:28.38	Y.MIYAMOTO	JPN	2002	M E N 90-94			
27:28.24	KATSURA SUZUKI	JPN	2016	4:30.08	S.KROKOSZYNSKI	POL	2015	*****			
28:07.95	GRAHAM JOHNSTON	USA	2016	4:30.32	JOHN MONNE	CAN	2015	50 M. FREE			
28:17.36	WILLARD LAMB	USA	2008	4:30.74	AKIRA MATSUMOTO	JPN	2016	40.93	TOSHIMI INATOMI	JPN	2016
29:16.62	JURGEN SCHMIDT	USA	2008	4:32.52	ROBERT MACDONALD	USA	2013	41.07	WOODY BOWERSOCK	USA	2003
29:55.69	JIM EUBANK	USA	2000	50 M. FLY				42.60	GORO KOBAYASHI	JPN	2006
30:17.44	ROBERT BEACH	USA	2015	41.08	ROBERTO ALBERICHE	ESP	2016	42.69	WILLARD LAMB	USA	2013
30:31.85	TOKUSHI KOMEDA	JPN	1999	43.35	MAX VON ISSER	USA	2004	42.76	GEORGE CORONES	AUS	2009
31:05.09	RYUJI FUJIKAWA	JPN	2002	44.10	TOSHIO TAJIMA	JPN	2010	42.93	TOKUSHI KOMEDA	JPN	2004
32:11.96	HAROLD DODD	GBR	2004	44.69	TAMON YOSHIDA	JPN	2011	43.18	KARL HAUTER	GER	2015
32:18.01	GABRIEL GUIHO	FRA	2016	45.50	FRANK PIEMME	USA	2010	43.89	KAZUNAGA AKUTSU	JPN	2002
50 M. BACK				47.01	CURT ZEISS	GER	2016	43.91	ISAMU TAMURA	JPN	2009
40.59	KEIJIRO NAKAMURA	JPN	2009	47.89	ANDREW HOLDEN	USA	2004	45.03	R.REINSTADTLER	GER	2002
43.80	GORO KOBAYASHI	JPN	2001	48.13	YOSHIO ISHIGURO	JPN	2016	100 M. FREE			
43.83	ROBERTO ALBERICHE	ESP	2016	50.51	Y.MIYAMOTO	JPN	2002	1:35.17	KARL HAUTER	GER	2015
45.53	SHOICHI SHIDA	JPN	2012	51.28	THOMAS MAINE	USA	2010	1:39.26	WOODY BOWERSOCK	USA	2003
46.08	TOSHIJI SATO	JPN	2000	100 M. FLY				1:39.27	WILLARD LAMB	USA	2014
46.35	SHOICHI SAKAMOTO	JPN	2003	1:53.78	THOMAS MAINE	USA	2010	1:41.47	TOKUSHI KOMEDA	JPN	2004
47.17	R.REINSTADTLER	GER	1997	1:54.07	FRANK PIEMME	USA	2010	1:45.28	GORO KOBAYASHI	JPN	2007
47.34	ALDO DA ROSA	USA	2002	2:01.65	ANDREW HOLDEN	USA	2004	1:45.44	GEORGE CORONES	AUS	2009
47.75	ROD BAKER	AUS	2014	2:04.50	WALT PFEIFFER	USA	1998	1:47.51	MASAHISA KANEKO	JPN	2002
48.07	HELMUT KUNZEL	GER	2013	2:06.70	FRANK TANNER	USA	2016	1:47.70	STEVE CARLSON	USA	2009
100 M. BACK				2:11.49	KARL HAUTER	GER	2012	1:48.20	TOSHIMI INATOMI	JPN	2016
1:28.98	KEIJIRO NAKAMURA	JPN	2008	2:13.39	ALDO DA ROSA	USA	2002	1:48.31	JURGEN SCHMIDT	USA	2013
1:39.08	GORO KOBAYASHI	JPN	2002	2:15.51	LUDWIG GEBURZI	GER	2007	200 M. FREE			
1:40.25	TOSHIJI SATO	JPN	2000	2:15.74	PAUL KRUP	USA	2003	3:27.14	KARL HAUTER	GER	2016
1:41.93	ROBERTO ALBERICHE	ESP	2016	2:15.82	GUILHERME SILVA	BRA	2014	3:39.65	TOKUSHI KOMEDA	JPN	2004
1:42.84	KARL HAUTER	GER	2010	200 M. FLY				3:46.17	WILLARD LAMB	USA	2014
1:44.91	ROGER BURRELL	GBR	2016	4:12.21	THOMAS MAINE	USA	2010	3:48.53	GORO KOBAYASHI	JPN	2007
1:47.93	WILLARD LAMB	USA	2009	4:49.10	WALT PFEIFFER	USA	1998	3:59.28	WOODY BOWERSOCK	USA	2003
1:48.79	ALDO DA ROSA	USA	2002	5:01.50	PAUL KRUP	USA	2002	4:01.58	JURGEN SCHMIDT	USA	2013
1:48.95	EDWARD SHEA	USA	1999	5:05.95	FRANK TANNER	USA	2016	4:03.31	STEVE CARLSON	USA	2009
1:50.96	R.REINSTEDTLER	GER	2000	5:15.25	PAUL HUTINGER	USA	2009	4:13.88	JAMES TAR	BRA	2014
200 M. BACK				5:29.72	DON LEADER	GBR	2009	4:20.43	GASTAO FIGUEIREDO	BRA	2000
3:18.29	KEIJIRO NAKAMURA	JPN	2008	5:33.83	HIRONARI UEDA	JPN	2006	4:23.15	MASAHISA KANEKO	JPN	2003
3:37.45	GORO KOBAYASHI	JPN	2002	6:10.72	WILLIAM JOHNSTON	USA	2003	400 M. FREE			
3:55.12	WILLARD LAMB	USA	2008	6:33.38	BOB DOUD	USA	2009	7:44.83	WILLARD LAMB	USA	2014
4:00.80	ALDO DA ROSA	USA	2002	6:34.58	TOSHIKAZU TATEDA	JPN	2016	8:32.09	JURGEN SCHMIDT	USA	2013
4:02.65	RYUJI FUJIKAWA	JPN	2002	100 M. I.M.				8:50.65	GUS LANGNER	USA	1993
4:05.07	JOHN MERRILL	USA	2005	1:32.47	HEINZ SIEGEL	GER	2003	8:52.99	STEVE CARLSON	USA	2009
4:05.25	C.SCHERER	GER	1999	1:34.39	ROBERTO ALBERICHE	ESP	2016	9:05.71	JOHN MERRILL	USA	2007
4:05.31	ROGER BURRELL	GBR	2016	1:40.78	KARL HAUTER	GER	2010	9:05.85	JAMES DETAR	BRA	2014
4:06.86	EDWARD SHEA	USA	2000	1:42.41	FRANK PIEMME	USA	2010	9:16.99	NILS FERM	SWE	2007
4:09.25	NILS FERM	SWE	2003	1:47.12	HIROSHI IMAIZUMI	JPN	2010	9:23.13	AUSTIN NEWMAN	USA	2005
50 M. BRST				1:48.23	ANDREW HOLDEN	USA	2004	9:34.51	TOKUSHI KOMEDA	JPN	2006
44.47	TOSHIO TAJIMA	JPN	2010	1:48.52	THOMAS MAINE	USA	2010	9:37.35	WOODY BOWERSOCK	USA	2003
47.24	FRANK PIEMME	USA	2010	1:49.69	FRANK TANNER	USA	2016	800 M. FREE			
47.53	KARL HAUTER	GER	2012	1:51.13	ROLF STELLRECHT	GER	2013	16:04.18	WILLARD LAMB	USA	2014
47.66	Y.KAWABATA	JPN	2010	1:51.67	SHOICHI SHIDA	JPN	2012	18:13.98	JURGEN SCHMIDT	USA	2013
47.70	Y.MIYAMOTO	JPN	2002	200 M. I.M.				18:36.25	NILS FERM	SWE	2008
48.51	JOHN KORTHEUER	USA	2016	3:48.34	KARL HAUTER	GER	2010	18:49.01	AUSTIN NEWMAN	USA	2005
48.82	HIROMU YOSHIMOTO	JPN	2000	3:50.46	FRANK PIEMME	USA	2010	19:19.87	JAMES TAR	BRA	2014
49.58	TAKAO TSUCHIYA	JPN	2016	3:54.61	THOMAS MAINE	USA	2010	19:29.43	IZUMI MATSUDA	JPN	2015
49.76	ROLF WALTHER	GER	2014	4:02.22	HIROSHI IMAIZUMI	JPN	2010	19:31.83	WOODY BOWERSOCK	USA	2003
50.04	SEIJI TAKAHASHI	JPN	2000	4:05.18	FRANK TANNER	USA	2016	20:33.27	HUGH MCGREGOR	CAN	2009
100 M. BRST				4:07.59	ALDO DA ROSA	USA	2002	20:42.60	KARL BAYERLEIN	GER	2011
1:43.72	KARL HAUTER	GER	2010	4:19.20	ANDREW HOLDEN	USA	2004	20:48.59	JOHN HARRISON	GBR	2004
1:47.97	TOSHIO TAJIMA	JPN	2010	4:20.08	JAN ZIEGLER	CZE	2013	1500 M. FREE			
1:50.32	HIROMU YOSHIMOTO	JPN	2000	4:20.52	S.KROKOSZYNSKI	POL	2015	30:41.82	WILLARD LAMB	USA	2014
1:53.02	FRANK PIEMME	USA	2010	4:24.58	WALT PFEIFFER	USA	1998	35:20.36	AUSTIN NEWMAN	USA	2005
1:53.13	TAKAO TSUCHIYA	JPN	2016	400 M. I.M.				35:45.97	JURGEN SCHMIDT	USA	2014
1:55.50	ROLF STELLRECHT	GER	2013	8:12.94	THOMAS MAINE	USA	2010	38:17.40	NILS FERM	SWE	2007
1:56.21	ALDO DA ROSA	USA	2002	8:32.50	FRANK PIEMME	USA	2010	38:53.33	HUGH MCGREGOR	CAN	2009
1:58.13	CURT ZEISS	GER	2016	9:01.55	FRANK TANNER	USA	2016	39:27.89	JAMES TAR	BRA	2014
1:59.53	ROBERT MACDONALD	USA	2013	9:32.65	WALT PFEIFFER	USA	1998	39:33.78	WOODY BOWERSOCK	USA	2004
1:59.82	Y.MIYAMOTO	JPN	2002	9:36.09	ANDREW HOLDEN	USA	2004	39:52.69	CALVIN BARNES	USA	2014
200 M. BRST				9:48.58	JURGEN SCHMIDT	USA	2008				



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40:43.49	JOHN HARRISON	GBR	2004	1:00.40	JAN ZIEGLER	CZE	2015	3:06.54	R.REINSTADTLER	GER	2007
42:51.20	JOHN BRICE	AUS	2009	1:00.50	HEINZ JAHR	GER	1997	3:06.66	F.GIANNETTA	ITA	2012
50	M. BACK			1:04.99	THOMAS MAINE	USA	2015	200	M. FREE		
52.49	GORO KOBAYASHI	JPN	2008	1:07.00	ALDO CAPUTI	ITA	2005	5:13.46	GUS LANGNER	USA	1998
53.24	R.REINSTADTLER	GER	2002	1:07.88	GORO UEDA	JPN	2016	5:29.49	ALFRED SCHULHOF	CAN	2014
53.32	TOSHIJI SATO	JPN	2005	1:08.25	R.REINSTADTLER	GER	2002	5:42.47	ALFREDO CHERCHI	AUS	2002
53.85	KAIZO WATANABE	JPN	2013	1:08.28	MAKOTO KAMIJO	JPN	2015	5:46.73	HUGH MCGREGOR	CAN	2014
54.81	ANTON BIEDERMANN	BRA	2014	100	M. FLY			5:55.45	JOHN HARRISON	GBR	2009
55.25	JOHN MERRILL	USA	2007	2:21.82	WALT PFEIFFER	USA	2003	6:25.40	JEAN LEEMPUT	FRA	2010
55.30	JAN ZIEGLER	CZE	2015	2:23.21	KARL HAUTER	GER	2015	7:18.36	F.GIANNETTA	ITA	2012
55.47	KAZUNAGA AKUTSU	JPN	2003	2:24.00	THOMAS MAINE	USA	2015	7:25.66	YOSHIO AKIMOTO	JPN	2016
55.87	KARL HAUTER	GER	2015	2:41.14	ALDO CAPUTI	ITA	2005	8:00.06	ROMAN JEZEK	CAN	2009
56.02	NILS FERM	SWE	2007	3:40.42	ROBERT DOUD	USA	2013	8:12.83	EUGENE LEHMAN	CAN	2008
100	M. BACK			4:25.80	EUGENE LEHMAN	CAN	2003	400	M. FREE		
1:47.66	GORO KOBAYASHI	JPN	2006	4:50.20	BILL REEDER	USA	2001	10:51.93	GUS LANGNER	USA	1998
1:58.27	TOSHIJI SATO	JPN	2005	200	M. FLY			12:08.80	HUGH MCGREGOR	CAN	2014
1:58.74	KARL HAUTER	GER	2015	5:24.08	THOMAS MAINE	USA	2015	12:24.23	JOHN HARRISON	GBR	2009
1:59.76	WILLARD LAMB	USA	2013	5:37.23	WALT PFEIFFER	USA	2003	16:31.48	EUGENE LEHMAN	CAN	2008
2:00.03	JOHN MERRILL	USA	2007	8:21.40	ROBERT DOUD	USA	2013	800	M. FREE		
2:00.25	R.REINSTADTLER	GER	2002	9:14.77	EUGENE LEHMAN	CAN	2003	22:05.55	GUS LANGNER	USA	1998
2:05.53	KAIZO WATANABE	JPN	2014	100	M. I.M.			32:46.93	EUGENE LEHMAN	CAN	2008
2:05.76	NILS FERM	SWE	2009	1:53.75	KARL HAUTER	GER	2015	1500	M. FREE		
2:06.00	WOODY BOWERSOCK	USA	2003	2:01.30	JAN ZIEGLER	CZE	2015	41:29.87	GUS LANGNER	USA	1998
2:09.05	MASAHISA KANEKO	JPN	2003	2:08.35	THOMAS MAINE	USA	2015	50	M. BACK		
200	M. BACK			2:08.86	TOKUSHI KOMEDA	JPN	2004	1:01.25	KAZUNAGA AKUTSU	JPN	2007
3:59.25	GORO KOBAYASHI	JPN	2007	2:14.23	WALT PFEIFFER	USA	2003	1:03.77	HORVATH BANKI	HUN	2015
4:17.86	WILLARD LAMB	USA	2014	2:15.51	JURGEN SCHMIDT	USA	2013	1:05.82	ALFRED SCHULHOF	CAN	2014
4:20.68	R.REINSTADTLER	GER	2002	2:16.67	R.REINSTADTLER	GER	2002	1:06.23	GORO KOBAYASHI	JPN	2011
4:25.14	JOHN MERRILL	USA	2007	2:18.93	ALDO CAPUTI	ITA	2005	1:09.22	TOSHIJI SATO	JPN	2012
4:29.54	NILS FERM	SWE	2007	2:24.64	HEINZ SIEGEL	GER	2004	1:10.42	NORI YAMAMOTO	JPN	2004
4:40.34	THOMAS MAINE	USA	2015	2:28.50	WOODY BOWERSOCK	USA	2003	1:12.83	JEAN LEEMPUT	FRA	2010
4:45.91	ROGERS HOLMES	USA	2011	200	M. I.M.			1:13.45	JOHN HARRISON	GBR	2009
4:47.45	WOODY BOWERSOCK	USA	2003	4:17.75	KARL HAUTER	GER	2016	1:21.47	R.REINSTADTLER	GER	2007
4:47.65	KAIZO WATANABE	JPN	2013	4:36.45	THOMAS MAINE	USA	2016	1:21.53	RUSS WITTE	USA	2011
4:48.61	ANTON BIEDERMANN	BRA	2016	4:42.02	JAN ZIEGLER	CZE	2015	100	M. BACK		
50	M. BRST			5:13.24	WALT PFEIFFER	USA	2003	2:21.73	TOSHIJI SATO	JPN	2010
49.58	TOSHIO TAJIMA	JPN	2015	5:21.93	JURGEN SCHMIDT	USA	2013	2:23.12	KAZUNAGA AKUTSU	JPN	2007
51.67	Y.KAWABATA	JPN	2015	6:10.00	JOHN HARRISON	GBR	2004	2:25.92	GORO KOBAYASHI	JPN	2012
51.68	KARL HAUTER	GER	2015	7:18.74	ROMAN JEZEK	CAN	2004	2:29.49	HORVATH BANKI	HUN	2015
53.23	HEINZ JAHR	GER	1997	7:32.22	EUGENE LEHMAN	CAN	2004	2:33.97	ALFRED SCHULHOF	CAN	2014
55.68	HIROMU YOSHIMOTO	JPN	2005	7:45.88	ROBERT DOUD	USA	2013	2:43.41	JEAN LEEMPUT	FRA	2010
58.39	TAKESHI YASUKAWA	JPN	2013	8:43.21	BILL REEDER	USA	2001	2:46.68	JOHN HARRISON	GBR	2009
58.72	ISAMU TAMURA	JPN	2009	400	M. I.M.			2:56.67	RUSS WITTE	USA	2011
58.80	JAN ZIEGLER	CZE	2015	9:39.56	THOMAS MAINE	USA	2015	3:05.23	NORI YAMAMOTO	JPN	2005
1:00.00	JOHN HARRISON	GBR	2006	11:15.65	WALT PFEIFFER	USA	2003	3:21.49	ROMAN JEZEK	CAN	2009
1:01.52	FRED SCHULHOF	CAN	2009	15:21.15	ROBERT DOUD	USA	2013	200	M. BACK		
100	M. BRST			15:45.53	EUGENE LEHMAN	CAN	2003	5:29.49	ALFRED SCHULHOF	CAN	2014
1:56.64	KARL HAUTER	GER	2015	17:59.19	BILL REEDER	USA	2000	6:18.51	JOHN HARRISON	GBR	2009
2:15.14	HIROMU YOSHIMOTO	JPN	2005	*****							
2:23.92	RUSS WITTE	USA	2008	M E N 95-99							
2:32.59	SEITA INAYOSHI	JPN	2013	*****							
2:32.87	MASAHISA KANEKO	JPN	2002	50	M. FREE			9:31.21	BILL REEDER	USA	2005
2:33.12	GEORGE CORONES	AUS	2008	47.16	GEORGE CORONES	AUS	2013	50	M. BRST		
2:33.34	DENZO WAKAYAMA	JPN	2016	55.08	KAZUNAGA AKUTSU	JPN	2007	1:07.12	HIROMU YOSHIMOTO	JPN	2010
2:33.67	ALFRED SCHULHOF	CAN	2010	57.57	GUS LANGNER	USA	1998	1:09.34	GEORGE CORONES	AUS	2013
2:36.06	THOMAS MAINE	USA	2015	1:00.40	R.REINSTADTLER	GER	2007	1:11.36	ALFRED SCHULHOF	CAN	2014
2:37.51	M.GIAMPIETRO	ITA	2013	1:01.65	GERSON SOBEL	USA	2005	1:13.72	RUSS WITTE	USA	2011
200	M. BRST			1:02.43	MASAO UEDA	JPN	2007	1:22.80	KAZUNAGA AKUTSU	JPN	2007
4:21.52	KARL HAUTER	GER	2016	1:05.82	ALFRED SCHULHOF	CAN	2014	1:28.78	HORVATH BANKI	HUN	2015
4:59.71	HIROMU YOSHIMOTO	JPN	2005	1:06.95	JARING TIMMERMAN	CAN	2004	1:31.50	ROMAN JEZEK	CAN	2009
5:19.20	THOMAS MAINE	USA	2015	1:08.48	HUGH MCGREGOR	CAN	2014	1:31.60	GUS LANGNER	USA	1998
5:32.15	DENZO WAKAYAMA	JPN	2015	1:10.32	ALFREDO CHERCHI	AUS	2002	1:34.02	ALDO CAPUTI	ITA	2010
5:32.73	GEORGE CORONES	AUS	2009	100	M. FREE			1:47.18	MARTIN SCHMIDT	GER	2007
5:35.74	MASAHISA KANEKO	JPN	2003	1:54.60	GEORGE CORONES	AUS	2013	100	M. BRST		
5:37.31	JURGEN SCHMIDT	USA	2013	2:09.32	KAZUNAGA AKUTSU	JPN	2007	2:31.77	HIROMU YOSHIMOTO	JPN	2010
5:44.96	RUSS WITTE	USA	2008	2:19.51	GUS LANGNER	USA	1998	2:43.30	GEORGE CORONES	AUS	2013
5:46.96	E OLE LARSON	USA	2011	2:31.62	JARING TIMMERMAN	CAN	2004	3:01.83	ALFRED SCHULHOF	CAN	2014
5:47.17	SEITA INAYOSHI	JPN	2013	2:31.83	HUGH MCGREGOR	CAN	2014	3:03.57	RUSS WITTE	USA	2011
50	M. FLY			2:33.97	ALFRED SCHULHOF	CAN	2014	3:24.92	ROMAN JEZEK	CAN	2009
54.38	TOSHIO TAJIMA	JPN	2015	2:43.76	JOHN HARRISON	GBR	2009	3:35.33	GUS LANGNER	USA	1998
56.09	WALT PFEIFFER	USA	2003	2:49.91	JEAN LEEMPUT	FRA	2010	3:37.75	B.BANKI-HORVATH	HUN	2016
1:00.39	KARL HAUTER	GER	2015	*****							
								4:07.54	JACK MATHESON	AUS	2013
								200	M. BRST		



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5:45.70 HIROMU YOSHIMOTO JPN 2010
6:05.88 GEORGE CORONES AUS 2013
6:14.84 RUSS WITTE USA 2011
7:29.31 GUS LANGNER USA 1998
8:00.06 ROMAN JEZEK CAN 2009
8:27.21 B.BANKI-HORVATH HUN 2016
50 M. FLY
1:35.76 ALDO CAPUTI ITA 2010
3:02.06 EUGENE LEHMAN CAN 2008
100 M. FLY
6:04.41 WALTER PFEIFFER USA 2008
100 M. I.M.
3:33.98 GUS LANGNER USA 1998
5:45.94 BILL REEDER USA 2005
200 M. I.M.
9:50.55 WALTER PFEIFFER USA 2008
400 M. I.M.
21:03.17 WALTER PFEIFFER USA 2008

M E N 100-104

50 M. FREE
1:16.92 JARING TIMMERMAN CAN 2009
1:27.67 JOHN HARRISON GBR 2014
1:32.43 JEAN LEEMPUT FRA 2014
2:06.66 TOM LANE USA 1995
2:07.41 HANS HAHN GER 2008
100 M. FREE
3:02.22 JARING TIMMERMAN CAN 2009
3:27.79 JOHN HARRISON GBR 2014
4:32.29 TOM LANE USA 1995
50 M. BACK
1:26.68 JEAN LEEMPUT FRA 2014
1:45.59 JARING TIMMERMAN CAN 2009
2:02.52 TOM LANE USA 1995
2:09.37 HANS HAHN GER 2008
4:17.99 NOBUO OTSUKI JPN 2007
100 M. BACK
3:26.09 JEAN LEEMPUT FRA 2014
3:39.53 JOHN HARRISON GBR 2014
3:51.54 JARING TIMMERMAN CAN 2009
5:01.82 HANS HAHN GER 2008