

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

WOMEN 25-29

50 M. FREE		
25.42 SUMIKA KOMATSU	JPN	2006
26.07 SANDRA KAZIKOVA	CZE	2003
26.13 NADINE ROLLAND	CAN	2004
26.16 ALISON TERRY	USA	1999
26.18 SOPHIA SKOU	DEN	2002
26.34 MIHO OKUHARA	JPN	2003
26.53 SANDRA THIEME	GER	2006
26.53 BECKY BICKNELL	USA	2002
26.63 MANUELA SCHUBERT	GER	1997
26.63 HEATHER HAGEMAN	USA	1997
100 M. FREE		
56.30 SHEILA TAORMINA	USA	1996
56.96 HITOMI MATSUDA	JPN	2005
57.10 ALISON TERRY	USA	1999
57.47 BERIT PUGGAARD	DEN	1998
57.65 TARA HUTT	GBR	2004
57.72 SANDRA KAZIKOVA	CZE	2003
57.92 DYNE BURRELL	USA	1996
58.34 PAULA AGUIAR	BRA	2002
58.35 LAUREN THIES	USA	2005
58.45 TAMMIE STONE	USA	2002
200 M. FREE		
1:59.78 SHEILA TAORMINA	USA	1996
2:04.59 HITOMI MATSUDA	JPN	2005
2:05.80 REBECCA WILLIAMS	NZL	1990
2:06.08 BARBARA KEHBEIN	GER	1998
2:06.20 HEIDI HANNENIAN	USA	1997
2:06.28 TARA HUTT	GBR	2005
2:06.47 DIANE GRANER	USA	1989
2:06.98 LAUREN THIES	USA	2005
2:07.83 LYNN MARSHALL	CAN	1990
2:07.93 LISA ROBINSON	GBR	2003
400 M. FREE		
4:24.18 SHEILA TAORMINA	USA	1996
4:25.94 LYNN MARSHALL	CAN	1990
4:26.18 DIANE GRANER	USA	1989
4:26.56 CHANTAL DUCK	BEL	1993
4:27.54 REBECCA WILLIAMS	NZL	1990
4:27.87 BARBARA KEHBEIN	GER	1995
4:28.01 CINDY BERTELINK	CAN	2004
4:28.06 TARA HUTT	GBR	2005
4:29.10 S. PALMER-WHITE	AUS	1991
4:29.31 B.DURDY-EVANS	USA	1988
800 M. FREE		
8:51.18 SHEILA TAORMINA	USA	1996
8:57.39 HITOMI MATSUDA	JPN	2006
9:07.19 S. PALMER-WHITE	AUS	1991
9:08.09 MARIE ATKINSON	GBR	2001
9:12.32 LYNN MARSHALL	CAN	1991
9:17.98 M.VAN KEULEN	NED	2005
9:18.99 DIANE M. GRANER	USA	1990
9:19.05 TOBIE SMITH	USA	1999
9:19.73 ASHLEY WHITNEY	USA	2005
9:21.30 KANA OHASHI	JPN	2006
1500 M. FREE		
16:36.07 SHEILA TAORMINA	USA	1996
17:00.63 HITOMI MATSUDA	JPN	2006
17:29.81 CHANTAL DUCK	BEL	1993
17:30.18 KAREN BURTON	USA	1991
17:36.04 DIANE M. GRANER	USA	1990
17:36.61 LYNN MARSHALL	CAN	1990
17:37.48 MARIA ATKINSON	GBR	2001
17:38.57 S. PALMERWHITE	AUS	1990
17:42.32 B.DURDY-EVANS	USA	1988

17:48.54 ASHLEY WHITNEY	USA	2005
50 M. BACK		
29.20 AKIKO MIZUMOTO	JPN	2006
29.60 EMILIE JORON	FRA	2006
29.90 MICHELA VIGNOTTO	ITA	1999
30.04 KANA OHASHI	JPN	2003
30.05 CAMILLA JOHANSSON	USA	2002
30.07 M KRIEL	RSA	1999
30.11 LIA OBERSTAR	USA	2001
30.20 FABIOLA MOLINA	BRA	2002
30.22 NAHOMI ERIGUCHI	AUS	2004
30.32 GISELI PEREIRA	BRA	1998
100 M. BACK		
1:03.01 KANA OHASHI	JPN	2006
1:03.26 CAMILLA JOHANSSON	USA	2002
1:03.33 LIA OBERSTAR	USA	2001
1:03.43 EMILIE JORON	FRA	2006
1:03.50 AKIKO MIZUMOTO	JPN	2006
1:03.77 MARION ZOLLER	GER	1995
1:03.87 GISELE PEREIRA	BRA	2001
1:04.05 M KRIEL	RSA	1999
1:04.50 BERIT PUGGAARD	DEN	1997
1:04.66 DIANE GRANER	USA	1989
200 M. BACK		
2:12.84 KANA OHASHI	JPN	2005
2:14.77 LIA OBERSTAR	USA	2001
2:16.45 MARION ZOLLER	GER	1995
2:17.86 JOLANDA DE ROVER	NED	1992
2:18.65 CAMILLA JOHANSSON	USA	2002
2:19.05 PAMELA HANSON	USA	2004
2:20.12 BIRGIT DEURING	GER	1996
2:20.66 DIANE GRANER	USA	1989
2:20.67 GISELI PEREIRA	BRA	1998
2:20.71 SARAH LAMBERT	GBR	2006
50 M. BRST		
32.20 TRACEY MIRANDE	USA	1995
32.76 HITOMI MATSUDA	JPN	2006
32.80 RILEY WEST	CAN	2004
33.50 RIA WILLEMSE	NED	1989
33.70 TAMARA VAN GORKOM	NED	2004
33.70 S.SEMINATORE	ITA	1990
33.73 HENRIETTE LARSEN	DEN	2002
33.86 WENKE HANSEN	USA	1998
33.90 ANDREA PACKARD	USA	2001
34.00 ANNAICK SCHWEIZER	SUI	1994
100 M. BRST		
1:10.55 HITOMI MATSUDA	JPN	2005
1:10.71 MANUELA NACKEL	GER	1998
1:11.80 RILEY WEST	CAN	2004
1:13.26 SILVA PULFRICH	GER	2003
1:13.30 WENKE HANSEN	USA	1998
1:13.57 ANDREA PACKARD	USA	2001
1:13.60 RIA WILLEMSE	NED	1989
1:13.99 HELEN DOUTHWAITE	GBR	1998
1:14.20 CHARLOTTE MUSTARD	GBR	1995
1:14.28 KAREN JACKSON	GBR	2003
200 M. BRST		
2:31.18 HITOMI MATSUDA	JPN	2006
2:32.73 RILEY WEST	CAN	2004
2:35.66 ANDREA PACKARD	USA	2001
2:37.16 NATHALIE ELORRIET	FRA	2000
2:37.35 HELEN GORMAN	GBR	1998
2:39.03 ANDREA HILL	USA	2000
2:39.62 WENKE HANSEN	USA	1998
2:40.08 MANUELA NACKEL	GER	1999
2:40.14 KAREN JACKSON	GBR	2003
2:40.90 LOUISE KEOGH	USA	1994
50 M. FLY		

27.88 NADINE ROLLAND	CAN	2004
28.16 SOPHIA SKOU	DEN	2004
28.35 ALEXA WHITE	GBR	2004
28.42 M.VAN DEN BRAND	NED	2006
28.61 JENNIFER BROOKS	USA	2003
28.68 SHEILA TAORMINA	USA	1996
28.74 ALFONSINA IRACE	ITA	2004
28.82 MUTSUMI TASHIRO	JPN	2006
28.85 ANDREA YTTRE	USA	2006
28.91 HITOMI MATSUDA	JPN	2004
100 M. FLY		
1:01.33 SHEILA TAORMINA	USA	1996
1:01.46 HITOMI MATSUDA	JPN	2005
1:01.97 SOPHIA SKOU	DEN	2004
1:03.44 BERIT PUGGAARD	DEN	1998
1:04.10 ALEXA WHITE	GBR	2004
1:04.29 MUTSUMI TASHIRO	JPN	2006
1:04.32 M.VAN DEN BRAND	NED	2006
1:04.60 CHRISSY MILLER	USA	2002
1:04.62 JENNIFER BROOKS	USA	2003
1:04.90 HITOMI HAMANO	JPN	2005
200 M. FLY		
2:17.13 S. PALMER-WHITE	AUS	1991
2:17.19 HITOMI MATSUDA	JPN	2006
2:19.30 SANDRA TEMMERMAN	NED	2005
2:20.82 BARBARA KEHBEIN	GER	1997
2:21.46 LIA OBERSTAR	USA	2004
2:22.33 ELVIRA JONKERS	NED	2005
2:23.30 JACKIE THOMPSON	GBR	1994
2:23.60 CHRISSY MILLER	USA	2002
2:23.60 BEATE SCHOLTYSSSEK	GER	1995
2:24.19 MICHELLE BINGHAM	GBR	1998
100 M. I.M.		
1:03.67 HITOMI MATSUDA	JPN	2005
1:04.77 NADINE ROLLAND	CAN	2004
1:05.67 WENKE HANSEN	USA	1998
1:06.00 MANUELA NACKEL	GER	1999
1:06.18 KANA OHASHI	JPN	2003
1:06.24 SANDRA KAZIKOVA	CZE	2003
1:06.73 RILEY WEST	CAN	2004
1:06.76 CHRIS WIEGAND	GER	2000
1:06.84 MONIQUE RODAHL	NZL	1989
1:06.99 ALLISON WAGNER	USA	2004
200 M. I.M.		
2:17.17 HITOMI MATSUDA	JPN	2006
2:21.79 WENKE HANSEN	USA	1998
2:22.47 KANA OHASHI	JPN	2004
2:22.81 CINDY BERTELINK	CAN	2003
2:23.00 ALISON TERRY	USA	1999
2:23.17 MARION ZOLLER	GER	1995
2:23.40 KATARIN QUELENNEC	FRA	2005
2:23.47 BIRGIT DEURING	GER	1996
2:24.07 DIANE GRANER	USA	1989
2:25.04 HELEN GORMAN	GBR	1997
400 M. I.M.		
4:52.13 HITOMI MATSUDA	JPN	2006
4:55.85 KANA OHASHI	JPN	2006
4:56.98 ALESSANDRA CORTES	BRA	1999
5:01.26 HELEN SLATTER	GBR	1997
5:02.47 CINDY BERTELINK	CAN	2004
5:02.54 WENKE HANSEN	USA	1998
5:04.56 SABINE AHR	GER	1999
5:04.56 BIRGIT DEURING	GER	1996
5:07.14 S. PALMER-WHITE	AUS	1991
5:09.58 JOCELYN JAY	CAN	1999

WOMEN 30-34

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

50 M. FREE		
25.64	METTE JACOBSEN	DEN 2006
25.98	KATRINA RADKE	USA 2004
26.09	NADINE ROLLAND	CAN 2006
26.20	SANDRA KAZIKOVA	CZE 2006
26.46	ANNA PETTIS-SCOTT	USA 1993
26.50	SUSAN HILL	GBR 2003
26.53	JANET MAYVILLE	CAN 2006
26.55	SANDY NEILSON	USA 1987
26.70	LINDA HEMMLING	GER 1994
26.79	PEGGY GROSS	USA 2000
100 M. FREE		
56.41	METTE JACOBSEN	DEN 2006
56.48	PASCALE VERBAUWEN	BEL 1993
57.33	JANET MAYVILLE	CAN 2006
57.35	S.NEILSON-BELL	USA 1988
57.46	KATRINA RADKE	USA 2003
57.83	TAMARA VAN GORKOM	NED 2005
58.07	K PIPES-NEILSEN	USA 1996
58.49	ANA GRILO	POR 2003
58.58	LYNN MARSHALL	CAN 1991
58.66	MANUELA SCHUBERT	GER 2000
200 M. FREE		
2:04.64	K PIPES-NEILSEN	USA 1996
2:04.98	LYNN MARSHALL	CAN 1991
2:05.94	BARBARA KEHBEIN	GER 2000
2:06.64	KARIN SEICK	GER 1994
2:06.83	SANDY NEILSON	USA 1987
2:06.94	ANA GRILO	POR 2003
2:06.96	TAMARA VAN GORKOM	NED 2005
2:07.24	KATRINA RADKE	USA 2003
2:08.63	SUSAN HILL	GBR 2003
2:08.64	VALERIA VERGANI	ITA 2005
400 M. FREE		
4:22.70	K PIPES-NEILSEN	USA 1996
4:22.75	YWETTA HLAVACOVA	CZE 2006
4:22.77	ERIKA HANSEN	USA 2003
4:26.91	LYNN MARSHALL	CAN 1991
4:27.23	ANA GRILO	POR 2002
4:29.49	VALERIA VERGANI	ITA 2005
4:30.16	ASA NEIJ	SWE 2006
4:30.60	KIRSTEN CAMERON	NZL 2005
4:30.98	CINDY BERTELINK	CAN 2005
4:31.88	BETH KNIGHT	USA 1990
800 M. FREE		
9:06.49	ERIKA HANSEN	USA 2003
9:08.32	LYNN MARSHALL	CAN 1993
9:08.34	K.PIPES-NEILSEN	USA 1996
9:14.03	ASA NEIJ	SWE 2004
9:14.62	KIRSTEN CAMERON	NZL 2005
9:17.55	BETH KNIGHT	USA 1990
9:22.24	PENNY BOND	AUS 1996
9:22.65	JOANNE REIERSON	USA 2003
9:23.38	ANA GRILO	POR 2002
9:23.74	VALERIE CARION	FRA 2002
1500 M. FREE		
17:21.99	LYNN MARSHALL	CAN 1992
17:23.60	KAREN BURTON	USA 1994
17:33.36	KIRSTEN CAMERON	NZL 2005
17:44.19	ALISON ZAMANIAN	USA 2004
17:46.97	JACQUI ROBINSON	AUS 2005
17:51.25	LISA HAZEN	USA 1995
17:55.18	DARCY MUSSELMAN	CAN 2001
17:58.96	LAURIE HUG	USA 1999
18:03.95	DONNA JOHNSON	USA 1997
18:06.33	GRITH SIGSGAARD	NED 2006
50 M. BACK		

28.99	METTE JACOBSEN	DEN 2006
29.44	NADINE ROLLAND	CAN 2005
30.08	NAHOMI SHIRATA	JPN 2006
30.11	GISELI PEREIRA	BRA 2003
30.14	D.GRANER-GALLAS	USA 1996
30.36	ANDREA KUTZ	GER 2005
30.41	K PIPES-NEILSEN	USA 1996
30.51	SHERI HART	USA 2003
30.53	R.MARACINEANU	FRA 2005
30.94	HELEN JAMESON	GBR 1994
100 M. BACK		
1:02.88	METTE JACOBSEN	DEN 2006
1:03.36	K.PIPES-NEILSEN	USA 1996
1:04.03	J HUDGELL	NZL 1986
1:04.16	D.GRANER-GALLAS	USA 1996
1:04.30	CAMILLA JOHANSSON	SWE 2004
1:05.02	GISELI PEREIRA	BRA 2003
1:05.24	NAHOMI SHIRATA	JPN 2006
1:05.68	JOANNA CORBEN	GBR 2002
1:05.71	SHERI HART	USA 2003
1:06.41	GITTE RAAGAARD	DEN 2004
200 M. BACK		
2:13.51	K.PIPES-NEILSEN	USA 1996
2:18.19	JOANNA CORBEN	GBR 2002
2:19.60	D.GRANER-GALLAS	USA 1996
2:19.66	JO SWATTON	GBR 2000
2:24.11	K.WULFF-HOPPE	GER 2002
2:24.89	JODY SMITH	USA 2003
2:25.19	ANJA EICHHORST	GER 2001
2:25.31	KARIN SEICK	GER 1994
2:25.88	ANA GRILO	POR 2003
2:26.00	MASAMI HIGURASHI	JPN 1994
50 M. BRST		
31.12	BRITTA STEVENS	GER 2003
32.82	WENKE HANSEN	USA 2000
33.13	SUKI BROWNSDON	GBR 1995
33.74	DAGMAR HILBIG	GER 1992
34.51	A.SACCHIERO	ITA 2005
34.51	SIQBHAN HARTLEY	GBR 2000
34.57	TARA HIGGINS	CAN 2003
34.58	NADINE ROLLAND	CAN 2006
34.60	MONICA CORO	ITA 1993
34.67	AKIKO KIYONAGA	JPN 2006
100 M. BRST		
1:10.00	WENKE HANSEN	USA 2000
1:11.81	SUKI BROWNSDON	GBR 1995
1:12.80	SYLVIA GERASCH	GER 2000
1:14.31	KAREN JACKSON	GBR 2004
1:14.69	DAGMAR HILBIG	GER 1992
1:14.97	ALEGRA REICH	USA 2006
1:15.40	ERIKO KIMURA	JPN 1992
1:15.44	ANNA JENSEN	SWE 2006
1:15.52	NADINE DAY	USA 2002
1:15.54	KATJA SEEGER-BOSE	GER 2004
200 M. BRST		
2:30.65	WENKE HANSEN	USA 2000
2:39.65	SYLVIA GERASCH	GER 2000
2:40.08	SUKI BROWNSDON	GBR 1997
2:40.61	CAROLINE MATHIAS	FRA 2006
2:41.63	KAREN JACKSON	GBR 2004
2:42.39	HIDEKA KOSHIMIZU	JPN 1998
2:42.59	LOUISE MARTIN	USA 2003
2:43.58	SARAH HACKETT	NZL 2005
2:44.00	KATJA SEEGER-BOSE	GER 2005
2:44.41	JOANNA HOCKING	GBR 2004
50 M. FLY		
26.79	MARTINA MORAVCOVA	USA 2006
27.81	METTE JACOBSEN	DEN 2006

27.98	NADINE ROLLAND	CAN 2005
28.05	KATRINA RADKE	USA 2004
28.34	WENKE HANSEN	USA 2000
28.63	HELENA ABERG	SWE 2005
28.72	YUKI WAKUI	JPN 2004
28.95	LAURA BIANZANI	ITA 2006
29.13	THERESE LUNDIN	SWE 2000
29.20	D.GRANER-GALLAS	USA 1996
100 M. FLY		
59.11	MARTINA MORAVCOVA	USA 2006
1:00.11	METTE JACOBSEN	DEN 2006
1:02.39	NADINE ROLLAND	CAN 2005
1:02.65	BERIT PUGGAARD	DEN 2004
1:02.70	WENKE HANSEN	USA 2000
1:03.04	ANJA BEHA	GER 2005
1:03.21	KATRINA RADKE	USA 2003
1:03.34	LAURA BIANZANI	ITA 2006
1:03.74	FLORENCE CIOTTI	ITA 2006
1:03.80	K PIPES-NEILSEN	USA 1996
200 M. FLY		
2:19.34	LAURA BIANZANI	ITA 2004
2:19.34	KATRINA RADKE	USA 2003
2:19.64	K PIPES-NEILSEN	USA 1996
2:21.21	FLORENCE CIOTTI	ITA 2006
2:24.17	KATE VEALE	GBR 2000
2:24.52	MELISSA VARLAS	USA 2005
2:24.75	SANDIE EASTON	USA 2001
2:24.84	NICOLA LATTY	GBR 2005
2:24.84	LIDIA VAN BON	NED 2002
2:24.91	NADINE DAY	USA 2004
100 M. I.M.		
1:02.07	MARTINA MORAVCOVA	USA 2006
1:04.44	NADINE ROLLAND	CAN 2005
1:04.96	WENKE HANSEN	USA 1999
1:05.10	SYLVIA GERASCH	GER 2000
1:05.16	K.PIPES-NEILSEN	USA 1995
1:05.58	HIDEKO HIRANAKA	JPN 2004
1:06.40	SUKI BROWNSDON	GBR 1995
1:06.94	NADINE DAY	USA 2003
1:07.02	SARAH GARRETT	GBR 1996
1:07.06	R.MARACINEANU	FRA 2005
200 M. I.M.		
2:18.79	K.PIPES-NEILSEN	USA 1996
2:18.89	WENKE HANSEN	USA 2000
2:22.72	KATRINA RADKE	USA 2003
2:23.49	CINDY BERTELINK	CAN 2005
2:23.88	NADINE DAY	USA 2003
2:24.30	KATE VEALE	GBR 2000
2:24.96	DAWN HEWITT	USA 1997
2:25.31	HIDEKA KOSHIMIZU	JPN 1998
2:25.74	DEBBIE YOUNGER	CAN 2003
2:25.81	CHRISSY SULLIVAN	USA 2006
400 M. I.M.		
4:51.33	HIDEKO HIRANAKA	JPN 2004
4:53.85	K PIPES-NEILSEN	USA 1996
5:04.56	BARBARA KEHBEIN	GER 2000
5:06.05	SUKI BROWNSDON	GBR 1997
5:07.39	NADINE DAY	USA 2002
5:07.66	ANA GRILO	POR 2003
5:08.14	CORNELIA BLEUL	GER 1996
5:08.64	KATE VEALE	GBR 2000
5:09.02	CINDY BERTELINK	CAN 2005
5:09.81	KAREN BURTON	USA 1994

WOMEN 35-39

50 M. FREE

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

25.10	DARA TORRES	USA	2006	31.03	HELEN JAMESON	GBR	1998	29.26	HELENA ABERG	SWE	2006
26.13	S.NEILSON-BELL	USA	1995	31.24	MARIANNE KRIEL	RSA	2006	29.26	DEBORAH YOUNGER	JPN	2006
26.78	FALL WILLEBOORDSE	USA	2002	31.35	FALL WILLEBOORDSE	USA	2002	29.31	SILVIA PAROCCHI	ITA	2005
26.99	MARIE ARMENTERO	ITA	2003	31.47	MONICA SORO	ITA	2005	29.50	NADINE DAY	USA	2005
27.02	HELENA ABERG	SWE	2006	31.65	SANDRA MICHELINI	ITA	2006	29.51	YOKO YAMAGUCHI	JPN	2006
27.03	MARIKA JOHANSSON	SWE	2005	31.80	SILVIA PAROCCHI	ITA	2005	29.54	D GRANER GALLAS	USA	1999
27.10	YUKIKO OZAWA	JPN	2003	31.89	KARIN SEICK	GER	1997	29.69	BETH BAKER	USA	2000
27.15	COLLETTE SAPPEY	USA	2002	31.95	QUINELDA DEARDS	GBR	2004	100 M.	FLY		
27.15	TRACIE MOLL	USA	2001	31.95	HIROKO NOGUCHI	JPN	2001	1:03.07	DEBBIE YOUNGER	CAN	2005
27.17	BETH BAKER	USA	2000	100 M.	BACK			1:03.29	K PIPES-NEILSEN	USA	1997
100 M.	FREE			1:03.56	K PIPES-NEILSEN	USA	1997	1:04.33	TRACIE MOLL	USA	2001
54.95	DARA TORRES	USA	2006	1:05.93	KARIN SEICK	GER	1996	1:04.62	DEBORAH YOUNGER	JPN	2006
57.65	K PIPES-NEILSEN	USA	2000	1:05.94	D GRANER GALLAS	USA	1999	1:05.31	BETH BAKER	USA	2000
57.79	KARIN SEICK	GER	1996	1:06.02	JOANNA CORBEN	GBR	2005	1:05.49	NADINE DAY	USA	2005
58.57	MANUELA SCHUBERT	GER	2006	1:07.24	SILVIA PAROCCHI	ITA	2004	1:05.61	LAUREEN WELTING	USA	2000
58.62	S.NEILSON-BELL	USA	1995	1:07.76	ANDREA LUALLEN	USA	2002	1:05.83	JILL HERNANDEZ	USA	1999
58.66	BETH KNIGHT	USA	1994	1:07.87	HELEN JAMESON	GBR	1998	1:05.86	BARBARA GELLRICH	GER	1998
58.79	JILL HERNANDEZ	USA	1999	1:08.14	MARIKA MC CUE	USA	2001	1:05.89	KATE VEALE	GBR	2002
58.80	TRACIE MOLL	USA	2001	1:08.37	CINDY RADFORD	CAN	2006	200 M.	FLY		
59.03	HELENA ABERG	SWE	2006	1:08.54	VIBEKE SWANSON	USA	2000	2:18.41	K PIPES-NEILSEN	USA	1997
59.05	LAUREEN WELTING	USA	2000	200 M.	BACK			2:21.76	DEBBIE YOUNGER	CAN	2005
200 M.	FREE			2:14.10	K PIPES-NEILSEN	USA	1997	2:24.80	KATE VEALE	GBR	2002
2:03.56	K PIPES-NEILSEN	USA	1997	2:19.82	JOANNA CORBEN	GBR	2006	2:25.06	JILL HERNANDEZ	USA	1997
2:06.18	LAUREEN WELTING	USA	2000	2:22.82	DAPHNE FUCHS	GER	1998	2:25.52	NADINE DAY	USA	2006
2:06.86	JILL HERNANDEZ	USA	1999	2:23.86	SILVIA PAROCCHI	ITA	2002	2:25.91	LAUREEN WELTING	USA	2000
2:06.96	D GRANER GALLAS	USA	1999	2:24.71	DEBBIE YOUNGER	CAN	2005	2:26.45	ANA PAULA GRILO	POR	2006
2:06.99	VALERIA VERGANI	ITA	2006	2:25.89	ANDREA LUALLEN	USA	2001	2:26.69	BETH BAKER	USA	2000
2:07.58	S.NEILSON-BELL	USA	1995	2:26.96	MONICA OLM	ITA	2005	2:26.79	BIRGIT LOHBERG	USA	2004
2:07.69	ANA PAULA GRILO	POR	2004	2:27.11	KRISTIN GARY	USA	2002	2:27.50	DEBORAH YOUNGER	JPN	2006
2:07.74	BETH KNIGHT	USA	1994	2:28.24	N.MUIR-COCHRANE	GBR	2000	100 M.	I.M.		
2:08.12	KARIN SEICK	GER	1996	2:28.55	LYNN MARSHALL	CAN	1996	1:05.40	K PIPES-NEILSEN	USA	2000
2:09.29	CHARLOTT PETERSEN	USA	2001	50 M.	BRST			1:06.50	SILVIA PAROCCHI	ITA	2005
400 M.	FREE			33.03	CAROLINE KRATTLI	USA	2000	1:07.31	NADINE DAY	USA	2005
4:22.56	K PIPES-NEILSEN	USA	1999	33.89	DAGMAR HILBIG	GER	1993	1:07.51	DEBBIE YOUNGER	CAN	2005
4:24.56	LAUREEN WELTING	USA	2000	33.91	P.BRULHART N'DULA	SUI	2003	1:07.53	CAROLINE KRATTLI	USA	2000
4:26.57	JILL HERNANDEZ	USA	1999	34.32	STEFANIA MONTI	ITA	2005	1:07.77	MONICA SORO	ITA	2006
4:27.62	VALERIA VERGANI	ITA	2006	34.50	S.SEMINATORE	ITA	2003	1:07.99	KATE VEALE	GBR	2002
4:29.09	PENNY BOND	AUS	1999	34.63	LESLIE OSBORNE	USA	1989	1:08.15	S NEILSON-BELL	USA	1992
4:30.30	ANA PAULA GRILO	POR	2004	34.64	ANNETT REX	GER	2004	1:08.23	BETH BAKER	USA	2000
4:31.94	CHARLOTT PETERSEN	USA	2001	34.84	K PIPES-NEILSEN	USA	1999	1:08.65	KATHERINE VEALE	GBR	2003
4:31.98	LYNN MARSHALL	CAN	1997	35.05	NADINE DAY	USA	2005	200 M.	I.M.		
4:33.11	KARIN SEICK	GER	1996	35.08	C.SILBERZAHN	GER	2001	2:19.08	K PIPES-NEILSEN	USA	2000
4:33.17	BETH KNIGHT	USA	1994	100 M.	BRST			2:23.47	DEBBIE YOUNGER	CAN	2005
800 M.	FREE			1:11.97	CAROLINE KRATTLI	USA	2000	2:24.94	NADINE DAY	USA	2005
9:12.97	ALISON ZAMANIAN	USA	2006	1:14.55	ANNETT REX	GER	2004	2:25.26	KARIN SEICK	GER	1996
9:14.27	LAURIE HUG	USA	2000	1:15.50	NADINE DAY	USA	2005	2:25.39	JILL HERNANDEZ	USA	1997
9:15.40	K PIPES-NEILSEN	USA	1998	1:15.56	STEFANIA MONTI	ITA	2004	2:26.10	KATE VEALE	GBR	2001
9:17.93	PENNY BOND	AUS	1997	1:15.65	K PIPES-NEILSEN	USA	1997	2:26.89	SILVIA PAROCCHI	ITA	2005
9:21.94	LYNN MARSHALL	CAN	1996	1:16.40	DAGMAR HILBIG	GER	1995	2:27.72	LAUREEN WELTING	USA	2000
9:23.86	N.MUIR-COCHRANE	GBR	2000	1:16.62	P.BRULHART N'DULA	SUI	2003	2:27.95	ANA PAULA GRILO	POR	2006
9:24.81	BETH KNIGHT	USA	1994	1:16.70	LESLIE OSBORNE	USA	1989	2:29.17	JENNIFER RIDGE	USA	2005
9:26.31	UTE MUCKEL	GER	2002	1:16.79	MARZENA KULIS	ITA	2002	400 M.	I.M.		
9:31.79	DEBBIE YOUNGER	CAN	2005	1:17.52	NAMI OKAMOTO	JPN	2005	4:52.83	K PIPES-NEILSEN	USA	1997
9:33.68	ANA PAULA GRILO	POR	2006	200 M.	BRST			5:02.22	LAUREEN WELTING	USA	2000
1500 M.	FREE			2:36.04	CAROLINE KRATTLI	USA	2000	5:09.87	NADINE DAY	USA	2006
17:20.59	LYNN MARSHALL	CAN	1996	2:44.36	NADINE DAY	USA	2006	5:10.43	JILL HERNANDEZ	USA	1999
17:27.84	LAURIE HUG	USA	2000	2:44.81	DAGMAR HILBIG	GER	1995	5:12.42	KATE VEALE	GBR	2002
17:35.69	PENNY BOND	AUS	1997	2:46.93	KEIKO OKAMOTO	JPN	2006	5:12.75	VALERIA VERGANI	ITA	2006
17:36.24	K PIPES-NEILSEN	USA	1999	2:47.78	NAMI OKAMOTO	JPN	2006	5:12.75	ANA PAULA GRILO	POR	2004
17:43.10	BETH KNIGHT	USA	1994	2:48.35	STEFANIA MONTI	ITA	2005	5:14.35	BIRGIT LOHBERG	USA	2004
17:54.55	N.MUIR-COCHRANE	GBR	2000	2:48.65	KATJA SEEGER-BOSE	GER	2006	5:15.70	LAURIE HUG	USA	2000
18:02.22	LISA HAZEN	USA	2003	2:48.66	MARZENA KULIS	ITA	2002	5:16.07	DEBBIE YOUNGER	CAN	2005
18:02.75	CHARLOTT PETERSEN	USA	2000	2:48.66	K PIPES-NEILSEN	USA	1998	*****			
18:18.50	NADINE DAY	USA	2005	2:49.74	DORI MILLER	USA	2006	WOMEN 40-44			
18:26.27	KELLY PARKER	USA	2000	50 M.	FLY			*****			
50 M.	BACK			28.68	TRACIE MOLL	USA	2001	50 M.	FREE		
30.73	K PIPES-NEILSEN	USA	1999	29.08	K PIPES-NEILSEN	USA	2000	26.66	S.NEILSON-BELL	USA	1996
30.92	MARIKA MC CUE	USA	2002	29.09	DEBBIE YOUNGER	CAN	2005				

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26.78	MARIKA JOHANSSON	SWE	2006	31.55	LAURA VAL	USA	1993	29.45	MARIE SADLER	GBR	2000
26.95	BETH KNIGHT	USA	1999	31.61	SILVIA PAROCCHI	ITA	2006	29.51	K PIPES-NEILSEN	USA	2003
27.04	HAYLEY BETTINSON	GBR	2006	31.81	VIBEKE SWANSON	USA	2001	29.57	DANIELA DE PONTI	ITA	2006
27.18	SARAH MACDONALD	CAN	2004	31.86	CAROLINE KRATTLI	USA	2002	29.68	BETH BAKER	USA	2001
27.21	K.PIPES-NEILSEN	USA	2005	31.88	UTE ROMBERG	GER	2002	29.75	CYNTHIA PINCOTT	CAN	2003
27.46	STEFFI NIEMITZ	GER	2003	32.00	KATHERINE VEALE	GBR	2006	29.87	BARBARA GELLRICH	GER	2003
27.52	JUNKO NAKANO	JPN	2006	32.02	KARIN SEICK	GER	2001	100 M.	FLY		
27.54	JILL HERNANDEZ	USA	2000	32.15	SHIZUKO HIRAISHI	JPN	2002	1:02.37	SUSAN VD LIPPE	USA	2005
27.61	SILVIA PAROCCHI	ITA	2006	100 M.	BACK			1:03.31	K PIPES-NEILSEN	USA	2003
27.61	BETH BAKER	USA	2002	1:05.43	K PIPES-NEILSEN	USA	2002	1:04.93	SILVIA PAROCCHI	ITA	2006
100 M.	FREE			1:07.70	SILVIA PAROCCHI	ITA	2006	1:05.45	DANIELA DE PONTI	ITA	2006
57.60	K PIPES-NEILSEN	USA	2003	1:07.75	VIBEKE SWANSON	USA	2002	1:05.49	BETH BAKER	USA	2001
58.22	SUSAN VD LIPPE	USA	2005	1:07.92	BETH BAKER	USA	2001	1:05.84	JILL HERNANDEZ	USA	2000
58.81	JILL HERNANDEZ	USA	2000	1:07.96	UTE ROMBERG	GER	2001	1:05.85	BIRGIT LOHBERG	USA	2006
59.77	SARAH MACDONALD	CAN	2003	1:08.49	MARIKA MCCUE	USA	2005	1:06.45	MARIE SADLER	GBR	2000
59.83	S.NEILSON-BELL	USA	1996	1:09.24	KARIN SEICK	GER	2002	1:06.86	LAURA VAL	USA	1993
59.97	SILVIA PAROCCHI	ITA	2006	1:09.67	KATHERINE VEALE	GBR	2006	1:06.91	BARBARA GELLRICH	GER	2003
1:00.10	DANIELA DE PONTI	ITA	2006	1:10.02	MIKI NAMAI	JPN	2006	200 M.	FLY		
1:00.24	KARIN SEICK	GER	2002	1:10.04	LESLEY WILDE	GBR	2003	2:20.66	SUSAN VD LIPPE	USA	2006
1:00.47	G.BERGER TALO	FRA	1999	200 M.	BACK			2:20.71	K PIPES-NEILSEN	USA	2002
1:00.50	MARIA ANDERSON	USA	2006	2:19.09	K PIPES-NEILSEN	USA	2003	2:25.30	JUDY BROWN	GBR	2005
200 M.	FREE			2:23.22	SILVIA PAROCCHI	ITA	2006	2:26.07	BIRGIT LOHBERG	USA	2006
2:05.26	K PIPES-NEILSEN	USA	2003	2:25.78	BETH BAKER	USA	2001	2:26.15	BETH BAKER	USA	2001
2:06.81	JILL HERNANDEZ	USA	2000	2:28.01	VIBEKE SWANSON	USA	2002	2:28.50	LYNN MARSHALL	CAN	2004
2:09.51	BIRGIT LOHBERG	USA	2006	2:29.48	INGRID MOLLERUP	NOR	2001	2:29.19	LAURA VAL	USA	1993
2:09.53	BETH KNIGHT	USA	1999	2:30.26	LESLEY WILDE	GBR	2000	2:29.92	CYNTHIA PINCOTT	CAN	2003
2:11.16	SILVIA PAROCCHI	ITA	2006	2:30.38	UTE ROMBERG	GER	2002	2:31.03	JUDY HATTLE	GBR	2003
2:11.43	LYNN MARSHALL	CAN	2002	2:31.83	LYNN MARSHALL	CAN	2005	2:31.77	BARBARA GELLRICH	GER	2002
2:11.45	NORMA CAHILL	IRL	2005	2:32.25	BIRGIT LOHBERG	USA	2006	100 M.	I.M.		
2:12.76	VIBEKE SWANSON	USA	2001	2:32.50	SALLY BELL	AUS	2002	1:05.56	K PIPES-NEILSEN	USA	2003
2:13.05	SARAH MACDONALD	CAN	2003	50 M.	BRST			1:05.73	SUSAN VD LIPPE	USA	2005
2:13.27	LESLEIGH MAYES	AUS	2000	32.99	SUSAN VD LIPPE	USA	2005	1:07.20	CAROLINE KRATTLI	USA	2002
400 M.	FREE			33.67	CAROLINE KRATTLI	USA	2003	1:08.18	SILVIA PAROCCHI	ITA	2006
4:21.75	K PIPES-NEILSEN	USA	2003	34.11	MAGGIE KELLY	GBR	2000	1:08.48	MAGGIE KELLY	GBR	1998
4:24.22	JILL HERNANDEZ	USA	2000	34.34	DAGMAR HILBIG	GER	1998	1:08.82	SARAH MACDONALD	CAN	2003
4:32.89	LYNN MARSHALL	CAN	2001	34.98	K PIPES-NEILSEN	USA	2002	1:08.91	JILL HERNANDEZ	USA	2004
4:34.83	BIRGIT LOHBERG	USA	2005	35.22	E.HAKANSSON	CAN	2000	1:08.98	BETH BAKER	USA	2001
4:34.83	SUZANN HEIM-BOWEN	USA	1998	35.38	S.SEMINATORE	ITA	2006	1:08.99	DANIELA DE PONTI	ITA	2006
4:37.83	CLAUDIA KERN	GER	2006	35.40	MONICA CORO	ITA	2005	1:09.41	ANETTE PHILIPSSON	SWE	2006
4:39.24	CAROLINE KRATTLI	USA	2003	35.57	MARZENA KULIS	ITA	2006	200 M.	I.M.		
4:39.98	N.MUIR-COCHRANE	GBR	2004	35.57	MARGARET HOHMANN	GBR	1997	2:20.55	K PIPES-NEILSEN	USA	2003
4:40.16	BARBARA GELLRICH	GER	2001	100 M.	BRST			2:22.18	SUSAN VD LIPPE	USA	2006
4:41.72	C.PETERSEN	USA	2006	1:11.52	SUSAN VD LIPPE	USA	2005	2:22.51	JILL HERNANDEZ	USA	2000
800 M.	FREE			1:12.08	CAROLINE KRATTLI	USA	2003	2:25.86	BIRGIT LOHBERG	USA	2006
9:09.71	K PIPES-NEILSEN	USA	2003	1:14.79	MAGGIE KELLY	GBR	1998	2:26.51	CAROLINE KRATTLI	USA	2003
9:21.44	LYNN MARSHALL	CAN	2001	1:17.02	DAGMAR HILBIG	GER	2000	2:28.10	VIBEKE SWANSON	USA	2001
9:26.96	N.MUIR-COCHRANE	GBR	2004	1:17.04	K PIPES-NEILSEN	USA	2002	2:28.48	SILVIA PAROCCHI	ITA	2006
9:29.90	SUZANN HEIM-BOWEN	USA	1998	1:17.71	M.ODILE CHARLES	FRA	2003	2:30.34	CYNTHIA PINCOTT	CAN	2003
9:30.29	LESLEIGH MAYES	AUS	2000	1:17.74	S.SEMINATORE	ITA	2006	2:30.42	ANGELA DELISSEN	GER	2006
9:35.07	CLAUDIA KERN	GER	2006	1:17.80	MARZENA KULIS	ITA	2006	2:30.81	ANETTE PHILIPSSON	SWE	2006
9:38.14	MARGE CURRAN	USA	2005	1:18.06	KATHY RENARD	CAN	2004	400 M.	I.M.		
9:40.34	LAURIE HUG	USA	2006	1:18.29	SVETLANA SAVINO	FIN	2004	5:00.82	K PIPES-NEILSEN	USA	2002
9:41.91	ELKE HAGEDORN	GER	2005	200 M.	BRST			5:02.17	JILL HERNANDEZ	USA	2000
9:42.45	BARBARA GELLRICH	GER	2003	2:35.85	SUSAN VD LIPPE	USA	2005	5:03.49	SUSAN VD LIPPE	USA	2006
1500 M.	FREE			2:39.10	CAROLINE KRATTLI	USA	2002	5:13.39	BIRGIT LOHBERG	USA	2006
17:38.37	LYNN MARSHALL	CAN	2002	2:47.00	S.SEMINATORE	ITA	2004	5:13.86	VIBEKE SWANSON	USA	2001
17:45.50	K PIPES-NEILSEN	USA	2003	2:47.18	MARZENA KULIS	ITA	2006	5:21.60	LYNN MARSHALL	CAN	2001
17:52.93	N.MUIR-COCHRANE	GBR	2004	2:47.54	DAGMAR HILBIG	GER	1999	5:21.85	ANGELA DELISSEN	GER	2006
18:02.62	SUZANN HEIM-BOWEN	USA	1998	2:49.01	AMANDA HEATH	GBR	1998	5:22.55	CYNTHIA PINCOTT	CAN	2006
18:12.51	LAURIE HUG	USA	2006	2:50.00	KATHY RENARD	CAN	2004	5:22.59	ROBYNN MASTERS	USA	1999
18:24.38	AMY DANTZLER	USA	2006	2:50.27	K PIPES-NEILSEN	USA	2004	5:25.18	N.MUIR-COCHRANE	GBR	2004
18:29.76	ROBYNN MASTERS	USA	1999	2:50.46	CYNTHIA PINCOTT	CAN	2003	*****			
18:33.31	REBECCA KALIBAT	USA	2004	2:51.40	ANGELA DELISSEN	GER	2006	*****			
18:38.10	ANNA MARIA NUNIA	ITA	2004	50 M.	FLY			*****			
18:40.71	ELKE HAGEDORN	GER	2005	28.13	GABRIELE BLANK	GER	2006	*****			
50 M.	BACK			28.21	SUSAN VD LIPPE	USA	2005	*****			
30.97	K.PIPES-NEILSEN	USA	2005	29.06	ASTRID BENCSEK	SWE	2000	50 M.	FREE		
31.40	MARIKA MCCUE	USA	2003	29.22	SILVIA PAROCCHI	ITA	2006	27.31	SARAH MACDONALD	CAN	2005
								27.54	LISA DAHL	USA	2006

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27.77	KARIN SEICK	GER	2006	32.67	LAURA VAL	USA	1999	30.77	SARAH MACDONALD	CAN	2005
27.77	JENNY WHITELEY	AUS	2003	32.68	ANN KOURI	CAN	2006	30.88	JUDITH HATTLE	GBR	2006
28.06	JACKI HIRSTY	USA	2000	32.76	KARIN SEICK	GER	2006	30.99	LAURA VAL	USA	1998
28.41	JILL QUIRK	CAN	1999	32.82	CATHY SHEEHAN	CAN	2005	31.01	MARGARET KELLY	GBR	2004
28.42	LAURA VAL	USA	1998	32.93	SARAH MACDONALD	CAN	2005	100 M. FLY			
28.45	TANYA HANSON	USA	2006	33.06	AROMA MARTORELL	BRA	2003	1:07.07	JUDY HATTLE	GBR	2005
28.46	MARJA BLOEMZAAD	NED	2006	100 M. BACK				1:07.99	SUZANNE SIMPSON	USA	2005
28.52	LAURA GORGERINO	ITA	2003	1:09.20	VIBEKE SWANSON	USA	2006	1:08.10	LAURA VAL	USA	1999
100 M. FREE				1:09.27	VERA CAPKOVA	BEL	2006	1:09.24	JENNY WHITELEY	AUS	2003
59.58	SARAH MACDONALD	CAN	2005	1:09.90	L.PELT-DILLER	USA	2006	1:09.58	REBECCA PERROTT	NZL	2006
1:01.42	JENNY WHITELEY	AUS	2003	1:10.33	LISA DIXON-WELLS	CAN	2006	1:10.03	BARBARA GELLRICH	GER	2006
1:01.94	REBECCA PERROTT	NZL	2006	1:10.62	CATHY SHEEHAN	CAN	2005	1:10.40	MARGARET SMITH	GBR	2004
1:02.00	LAURA VAL	USA	1998	1:10.64	LESLEY WILDE	GBR	2004	1:10.47	TRACI GRANGER	USA	2004
1:02.17	ATIE PIJTAK	NED	2003	1:10.90	K ANDRUS-HUGHES	USA	2004	1:10.49	LYNN MARSHALL	CAN	2006
1:02.20	BARBARA GELLRICH	GER	2006	1:11.45	ANN KOURI	CAN	2006	1:10.91	HARUMI SUGINUMA	JPN	2005
1:02.20	LYNN MARSHALL	CAN	2006	1:11.46	UTE ROMBERG	GER	2006	200 M. FLY			
1:02.33	JILL QUIRK	CAN	1999	1:12.38	LAURA VAL	USA	1997	2:28.26	LYNN MARSHALL	CAN	2006
1:02.56	JACKI HIRSTY	USA	1997	200 M. BACK				2:29.32	SUZANNE SIMPSON	USA	2005
1:02.98	K.ANDRUS-HUGHES	USA	2006	2:31.42	LYNN MARSHALL	CAN	2006	2:32.52	LAURA VAL	USA	1999
200 M. FREE				2:32.56	VIBEKE SWANSON	USA	2006	2:34.15	JUDY HATTLE	GBR	2005
2:10.91	S HEIM-BOWEN	USA	2003	2:32.74	L.PELT-DILLER	USA	2006	2:35.17	JENNY WHITELEY	AUS	2003
2:11.00	LYNN MARSHALL	CAN	2006	2:33.10	NAOKO SHIDE	JPN	2006	2:36.13	REBECCA PERROTT	NZL	2006
2:11.09	JENNY WHITELEY	AUS	2003	2:34.50	LESLEY WILDE	GBR	2004	2:37.88	ARDETH MUELLER	USA	1987
2:15.31	LAURA VAL	USA	2000	2:36.25	KAREN EINSIDLER	USA	2001	2:38.18	MARGARET SMITH	GBR	2004
2:15.66	BARBARA GELLRICH	GER	2006	2:36.38	CATHY SHEEHAN	CAN	2005	2:38.59	BARBARA DUNBAR	USA	1994
2:16.12	VIBEKE SWANSON	USA	2006	2:36.79	CECILIA MCCLOSKEY	USA	1997	2:40.59	RENATE CHRIST	GER	2006
2:17.15	ATIE PIJTAK	NED	2002	2:36.84	C.TARANTINO	ITA	2003	100 M. I.M.			
2:18.65	JACKI HIRSTY	USA	2000	2:37.13	UTE ROMBERG	GER	2006	1:09.28	SARAH MACDONALD	CAN	2005
2:19.70	JENNY COOK	USA	2005	50 M. BRST				1:09.68	JENNY WHITELEY	AUS	2003
2:19.72	DANIELLE OGIER	USA	2000	34.36	ALISON NYE	GBR	2002	1:10.47	VIBEKE SWANSON	USA	2006
400 M. FREE				34.60	SWICZINSKY-KORDES	GER	2001	1:10.87	MAGGIE KELLY	GBR	2001
4:30.98	S HEIM-BOWEN	USA	2003	34.64	MAGGIE KELLY	GBR	2001	1:11.30	LISA DIXON-WELLS	CAN	2006
4:33.09	LYNN MARSHALL	CAN	2006	34.70	JUDY GARAY	CAN	2005	1:11.82	LAURA VAL	USA	1997
4:43.49	JENNY WHITELEY	AUS	2003	36.36	SARAH MACDONALD	CAN	2006	1:11.86	ANN KOURI	CAN	2006
4:46.20	KAREN EINSIDLER	USA	2002	36.41	JENNY WHITELEY	AUS	2003	1:11.93	VERA CAPKOVA	BEL	2006
4:48.47	TANJA ENGELS	GER	2006	36.63	MELINDA MANN	USA	2002	1:12.18	LISA DAHL	USA	2006
4:49.52	LAURA VAL	USA	1998	36.69	NAOMI HEIMBACH	JPN	2000	1:12.21	JUDITH HATTLE	GBR	2006
4:52.59	SARAH MACDONALD	CAN	2006	36.81	MARJA BLOEMZAAD	NED	2006	200 M. I.M.			
4:52.87	BARBARA GELLRICH	GER	2006	36.88	KATE SORENSEN	DEN	2006	2:31.99	VIBEKE SWANSON	USA	2006
4:53.51	SUSANNE SIMPSON	USA	2006	100 M. BRST				2:33.25	LYNN MARSHALL	CAN	2006
4:53.59	JACKI HIRSTY	USA	2000	1:17.16	MAGGIE KELLY	GBR	2001	2:34.02	JENNY WHITELEY	AUS	2003
800 M. FREE				1:18.13	JENNY WHITELEY	AUS	2003	2:35.12	ANN KOURI	CAN	2006
9:21.65	LYNN MARSHALL	CAN	2006	1:19.93	MELINDA MANN	USA	2002	2:35.67	LISA DIXON-WELLS	CAN	2006
9:27.44	SUZANN HEIM-BOWEN	USA	2004	1:20.53	JAN FOWLER	AUS	2004	2:36.24	REBECCA PERROTT	NZL	2006
9:42.24	SUSANNE SIMPSON	USA	2005	1:20.60	KATE SORENSEN	DEN	2006	2:36.31	SARAH MACDONALD	CAN	2006
9:54.21	KAREN EINSIDLER	USA	2002	1:20.63	MARJA BLOEMZAAD	NED	2006	2:36.60	DANIELLE OGIER	USA	2000
10:00.03	C.TARANTINO	ITA	2003	1:20.64	AMANDA HEATH	GBR	2003	2:36.71	COLETTE CRABBE	USA	2002
10:00.10	BARBARA GELLRICH	GER	2006	1:20.84	COLETTE CRABBE	USA	2005	2:37.59	LAURA VAL	USA	1997
10:00.58	TANJA ENGELS	GER	2006	1:21.38	ULRIKE URBANIAK	GER	2000	400 M. I.M.			
10:04.89	SARAH MACDONALD	CAN	2005	1:21.88	JUDY HATTLE	GBR	2005	5:19.13	LYNN MARSHALL	CAN	2006
10:08.72	DANIELLE OGIER	USA	1997	200 M. BRST				5:19.58	VIBEKE SWANSON	USA	2006
10:09.82	BARBARA DUNBAR	USA	1996	2:48.38	JENNY WHITELEY	AUS	2003	5:28.91	JENNY WHITELEY	AUS	2003
1500 M. FREE				2:53.23	AMANDA HEATH	GBR	2003	5:33.37	LAURA VAL	USA	1999
17:49.34	LYNN MARSHALL	CAN	2006	2:54.02	ULRIKE URBANIAK	GER	2000	5:35.49	REBECCA PERROTT	NZL	2006
17:50.64	SUZANN HEIM-BOWEN	USA	2004	2:54.05	COLETTE CRABBE	USA	2002	5:35.51	COLETTE CRABBE	USA	2002
18:55.82	LAURA VAL	USA	1998	2:54.57	KAREN MELICK	USA	2003	5:38.11	DANIELLE OGIER	USA	2000
18:58.40	C.TARANTINO	ITA	2002	2:56.54	MARJA BLOEMZAAD	NED	2006	5:39.53	JUDY HATTLE	GBR	2005
19:06.85	JENNY WHITELEY	AUS	2004	2:57.86	JAN CLARKSON	CAN	2006	5:40.40	MARJA BLOEMZAAD	NED	2006
19:14.97	BARBARA DUNBAR	USA	1996	2:58.07	JUDY HATTLE	GBR	2005	5:41.14	ATIE PIJTAK	NED	2001
19:16.38	SUSANNE SIMPSON	USA	2006	2:58.71	SARAH MACDONALD	CAN	2006	*****			
19:31.43	DANIELLE OGIER	USA	2001	2:58.72	LISA DIXON-WELLS	CAN	2006	WOMEN 50-54			
19:36.02	KATHERINE BRANCH	USA	2002	50 M. FLY				*****			
19:37.99	NANCY FISHER	USA	1996	29.97	USCHI DUMIG	GER	2005	50 M. FREE			
50 M. BACK				30.02	KARIN SEICK	GER	2006	28.43	G.TALOCHINO	FRA	2006
31.45	BARBARA OPITZ	GER	2006	30.18	LISA DAHL	USA	2006	28.54	JACKI HIRSTY	USA	2002
32.54	VIBEKE SWANSON	USA	2006	30.51	ANGELA ZINGLER	GER	2001	28.56	LAURA VAL	USA	2001
32.59	K.ANDRUS-HUGHES	USA	2006	30.60	MONIKA SENFTLEBEN	GER	1990	28.65	JOEL FELDMANN	USA	2002
32.65	L VAN PELT-DILLER	USA	2003	30.72	TRACI GRANGER	USA	2006				

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

29.11 ANGELA ZINGLER	GER	2004	34.72 G.TALOCHINO	FRA	2006	32.63 CHRISTIE CIRAULO	USA	2006
29.16 L.CRITTENDEN	USA	2006	34.81 BENEDICTE DUPREZ	FRA	2001	32.89 MARIA RHODIN	SWE	2006
29.24 HEATHER CAMPBELL	NZL	2006	34.97 CAROL FELLOWS	GBR	1998	100 M. FLY		
29.28 M.VON RICHTHOFEN	GER	2006	35.55 SATOKO TAKEUJI	JPN	1995	1:09.05 LAURA VAL	USA	2001
29.54 REGULA STEIGER	SUI	2006	100 M. BACK			1:12.66 ARDETH MUELLER	USA	1991
29.54 CONNY BOER-BUYS	NED	2001	1:12.95 LAURA VAL	USA	2001	1:13.21 MELINDA MANN	USA	2006
100 M. FREE			1:13.63 EVIE LYNCH	USA	2004	1:14.18 ANGELA ZINGLER	GER	2004
1:01.49 LAURA VAL	USA	2001	1:14.62 JANE HILL	USA	2001	1:14.90 BARBARA DUNBAR	USA	2000
1:03.21 G.TALOCHINO	FRA	2006	1:14.78 BENEDICTE DUPREZ	FRA	2001	1:15.25 CHRISTIE CIRAULO	USA	2003
1:03.29 JACKI HIRSTY	USA	2002	1:14.95 PATTY LANDERS	USA	2006	1:15.96 SUSAN SKIFF	ITA	2004
1:03.97 HEATHER CAMPBELL	NZL	2006	1:15.85 C.TARANTINO	ITA	2005	1:16.06 SUSANA BARKLEY	ESP	1997
1:05.55 L.CRITTENDEN	USA	2006	1:16.60 JOEL FELDMANN	USA	2003	1:16.24 LIZ RUTHERFORD	GBR	2003
1:05.86 JILL QUIRK	CAN	2004	1:17.26 S.RAMOGER RIGAUD	FRA	2006	1:16.27 STACEY WARMUTH	USA	2006
1:05.95 CONNY BOER-BUYS	NED	2001	1:17.45 ANNE CORK	GBR	2001	200 M. FLY		
1:06.26 CAROL FELLOWS	GBR	1996	1:17.49 NORIKO KOBAMATSU	JPN	2006	2:39.11 LAURA VAL	USA	2005
1:06.29 SUE CARSON	CAN	2005	200 M. BACK			2:44.84 BARBARA DUNBAR	USA	1999
1:06.39 ATIE PIJTAK	NED	2006	2:37.89 C.TARANTINO	ITA	2005	2:45.99 ARDETH MUELLER	USA	1991
200 M. FREE			2:41.20 LAURA VAL	USA	2003	2:49.36 M.NEUMEISTER	GER	2003
2:14.66 LAURA VAL	USA	2003	2:41.56 EVIE LYNCH	USA	2005	2:52.32 N.STEADMAN-MARTIN	USA	2006
2:20.61 DANIELLE OGIER	USA	2002	2:43.04 ANNE CORK	GBR	2001	2:53.24 SUSAN SKIFF	ITA	2004
2:22.21 JACKI HIRSTY	USA	2002	2:46.73 BENEDICTE DUPREZ	FRA	2002	2:53.45 SUSAN HAIGH	GBR	2005
2:23.36 SUSAN SKIFF	GER	2005	2:47.15 PATTY LANDERS	USA	2006	2:54.65 ELAINE FINCHAM	USA	2006
2:23.69 C.TARANTINO	ITA	2005	2:47.44 DANIELLE OGIER	USA	2003	2:55.80 CHRISTIE CIRAULO	USA	2004
2:24.41 DIANNE FOSTER	CAN	1999	2:47.99 DI COETZEE	RSA	2006	2:56.99 LESLEY MILLER	AUS	2000
2:24.55 BARBARA DUNBAR	USA	2000	2:48.88 ARDETH MUELLER	USA	1991	100 M. I.M.		
2:24.79 STACEY WARMUTH	USA	2006	2:50.79 NORIKO KOBAMATSU	JPN	2006	1:12.50 LAURA VAL	USA	2003
2:26.17 KATHI LINDSTROM	USA	2005	50 M. BRST			1:13.12 DANIELLE OGIER	USA	2002
2:26.32 KARIN MILGER	GER	2005	36.32 MAGGIE KELLY	GBR	2006	1:15.13 MELINDA MANN	USA	2006
400 M. FREE			36.69 CHRISTIANE HEEREN	GER	1999	1:15.26 ANGELA ZINGLER	GER	2004
4:45.72 LAURA VAL	USA	2003	37.10 PETRA SCHROER	GER	2004	1:15.29 L.CRITTENDEN	USA	2006
4:54.01 DANIELLE OGIER	USA	2002	37.35 L.CRITTENDEN	USA	2006	1:15.74 HEATHER CAMPBELL	NZL	2006
4:57.68 JACKI HIRSTY	USA	2002	37.94 SUSAN JONES ROY	USA	2001	1:15.75 ROBIN PARISI	USA	2005
4:59.56 BARBARA DUNBAR	USA	2000	37.99 DANIELLE OGIER	USA	2002	1:16.02 JOEL FELDMANN	USA	2002
5:00.24 C.TARANTINO	ITA	2006	38.15 MELINDA MANN	USA	2006	1:16.08 J SWAGERTY-HILL	USA	2002
5:00.34 SUSAN SKIFF	GER	2005	38.18 AVILA RHODES	CAN	2006	1:16.93 RENE STARRATT	CAN	2006
5:02.03 DIANNE FOSTER	CAN	1999	38.23 REGULA STEIGER	SUI	2002	200 M. I.M.		
5:05.60 KATHI LINDSTROM	USA	2005	38.48 DAGMAR FRESE	GER	2006	2:37.52 DANIELLE OGIER	USA	2002
5:05.80 N STEADMAN-MARTIN	USA	2004	100 M. BRST			2:37.90 LAURA VAL	USA	2002
5:07.43 LAURA VACA	MEX	2003	1:22.53 PETRA SCHROER	GER	2003	2:43.19 MELINDA MANN	USA	2006
800 M. FREE			1:22.53 SUSAN JONES ROY	USA	2001	2:43.84 ATIE PIJTAK	NED	2006
9:50.53 LAURA VAL	USA	2003	1:23.05 DANIELLE OGIER	USA	2002	2:46.27 LAURA VACA	MEX	2003
10:05.20 C.TARANTINO	ITA	2005	1:23.06 MELINDA MANN	USA	2006	2:46.44 ARDETH MUELLER	USA	1991
10:16.80 BARBARA DUNBAR	USA	2001	1:23.42 ULRIKE URBANIAK	GER	2004	2:47.14 HEATHER CAMPBELL	NZL	2005
10:21.03 LAURA VACA	MEX	2003	1:24.24 FRANCES PENWARDEN	GBR	2005	2:48.14 ANNE CORK	GBR	2001
10:23.48 DIANNE FOSTER	CAN	1999	1:24.34 L.CRITTENDEN	USA	2006	2:48.78 BRIGITTE MERTEN	GER	1997
10:25.50 SUSAN SKIFF	GER	2005	1:24.45 CHRISTIANE HEEREN	GER	1999	2:49.29 EVIE LYNCH	USA	2004
10:28.63 CHRISTIE CIRAULO	USA	2004	1:24.54 JENNIFER MERRITT	GBR	2002	400 M. I.M.		
10:30.28 N.STEADMAN-MARTIN	USA	2006	1:24.75 DAGMAR FRESE	GER	2006	5:36.28 LAURA VAL	USA	2002
10:32.24 SHERYL WALSH	USA	2006	200 M. BRST			5:44.22 DANIELLE OGIER	USA	2002
10:33.03 KATHI LINDSTROM	USA	2005	2:57.49 ULRIKE URBANIAK	GER	2003	5:51.84 LAURA VACA	MEX	2003
1500 M. FREE			2:59.48 DANIELLE OGIER	USA	2002	5:56.24 ARDETH MUELLER	USA	1991
18:59.17 LAURA VAL	USA	2002	3:00.66 FRANCES PENWARDEN	GBR	2005	5:56.98 ATIE PIJTAK	NED	2006
19:16.80 C.TARANTINO	ITA	2006	3:00.98 CHRISTIANE HEEREN	GER	1999	6:01.25 BARBARA DUNBAR	USA	1999
19:31.34 BARBARA DUNBAR	USA	2000	3:01.22 MELINDA MANN	USA	2006	6:03.68 BRIGITTE MERTEN	GER	1997
19:56.25 CHRISTIE CIRAULO	USA	2004	3:01.25 JENNIFER MERRITT	GBR	2002	6:03.76 KATHI LINDSTROM	USA	2005
20:02.75 KATHI LINDSTROM	USA	2005	3:03.26 SUSAN JONES-ROY	USA	2001	6:06.24 ELAINE FINCHAM	USA	2005
20:17.96 N.STEADMAN-MARTIN	USA	2005	3:03.67 AVILA RHODES	CAN	2006	6:07.39 N.STEADMAN-MARTIN	USA	2006
20:21.69 SUSAN SKIFF	GER	2005	3:05.81 DEB WALKER	USA	2002	*****		
20:31.44 ARDETH MUELLER	USA	1991	3:06.37 KEIKO UTSUMI	JPN	2006	WOMEN 55-59		
20:32.21 SHERYL WALSH	USA	2005	50 M. FLY			*****		
20:38.45 MIDORI NAKAYAMA	JPN	2004	30.38 ANGELA ZINGLER	GER	2005	50 M. FREE		
50 M. BACK			31.16 LAURA VAL	USA	2001	28.99 LAURA VAL	USA	2006
32.55 J SWAGERTY-HILL	USA	2002	31.39 SACHIKO SAITO	JPN	2006	29.87 CONNY BOER-BUIJS	NED	2005
32.72 LAURA VAL	USA	2005	31.97 ROBIN PARISI	USA	2005	30.37 ARDETH MUELLER	USA	1996
34.05 JOEL FELDMANN	USA	2002	31.97 JOEL FELDMANN	USA	2002	30.56 JUDY WILSON	GBR	2000
34.32 EVIE LYNCH	USA	2005	32.50 ARDETH MUELLER	USA	1991	30.59 ROSARIO VIVANCO	PER	2005
34.53 ANGELA ZINGLER	GER	2004	32.51 CONNY BOER-BUYS	NED	2000	30.63 COLNY TUCKER	USA	2006
34.65 S.RAMOGER RIGAUD	FRA	2006	32.52 MELINDA MANN	USA	2006			

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30.93	YOSHIKO KADOSAKA	JPN	2004	36.13	MICHIKO KIHARA	JPN	2003	35.06	SUSANA BARKLEY	ESP	2000
31.01	JOEL FELDMANN	USA	2006	36.16	BENEDICTE DUPREZ	FRA	2006	100 M. FLY			
31.15	ELEANOR PINFOLD	NZL	2005	100 M. BACK				1:10.93	LAURA VAL	USA	2006
31.18	SUSANA BARKLEY	ESP	2000	1:14.80	LAURA VAL	USA	2006	1:12.99	JUDY WILSON	GBR	2001
100 M. FREE				1:17.65	BENEDICTE DUPREZ	FRA	2006	1:16.31	BARBARA DUNBAR	USA	2004
1:02.55	LAURA VAL	USA	2006	1:19.20	BA BARNETT-SALLEE	USA	2001	1:18.70	SUSANA BARKLEY	ESP	2000
1:06.51	CONNY BOER-BUIJS	NED	2005	1:19.37	MARGIT OHLSSON	SWE	2003	1:18.75	ARDETH MUELLER	USA	1997
1:07.59	BARBARA DUNBAR	USA	2004	1:19.47	DEBORAH BARTON	GBR	2003	1:21.21	HARRIET BERGER	GER	2002
1:07.96	ROSARIO VIVANCO	PER	2005	1:19.61	SATOKO TAKEUJI	JPN	1997	1:21.21	BRIGITTE MERTEN	GER	2002
1:08.01	CAROL FELLOWS	GBR	2001	1:20.73	MARGARET WILDING	GBR	1997	1:22.22	YOSHIKO OSAKI	JPN	1994
1:08.70	F WILLIAMSON	USA	2003	1:20.92	SILVANA ABREU	BRA	2000	1:22.24	SHERRY PUTHOFF	USA	2003
1:09.06	BRIGITTE MERTEN	GER	2001	1:21.61	ANNE LABORWIT	USA	2005	1:22.27	BERNICE WILKINS	GBR	2002
1:09.33	SANDERINA KRUGER	RSA	2005	1:21.64	JANETTE JEFFREY	AUS	2005	200 M. FLY			
1:09.37	ANNE LABORWIT	USA	2005	200 M. BACK				2:37.51	LAURA VAL	USA	2006
1:09.40	JUDY WILSON	GBR	2001	2:43.62	LAURA VAL	USA	2006	2:47.18	BARBARA DUNBAR	USA	2004
200 M. FREE				2:47.09	BENEDICTE DUPREZ	FRA	2006	2:53.92	JUDY WILSON	GBR	2001
2:20.58	LAURA VAL	USA	2006	2:53.14	ANNE CORK	GBR	2006	2:55.05	ARDETH MUELLER	USA	1996
2:27.59	BARBARA DUNBAR	USA	2004	2:55.63	JANETTE JEFFREY	AUS	2005	2:58.57	SUSANA BARKLEY	ESP	2001
2:28.30	ARDETH MUELLER	USA	1996	2:56.19	ANNE LABORWIT	USA	2005	3:08.77	JULIE CRAYFORD	GBR	2004
2:29.54	CONNY BOER-BUIJS	NED	2005	2:56.86	MARIA BALLA	FRA	2001	3:09.43	YOSHIKO OSAKI	JPN	1995
2:30.99	CAROL FELLOWS	GBR	2001	2:57.57	VICKI SERIANNI	USA	2006	3:14.92	RITSUKO KUROSAWA	JPN	2005
2:31.52	ROSARIO VIVANCO	PER	2005	2:58.08	DEBORAH BARTON	GBR	2003	3:15.13	GINGER PIERSON	USA	2001
2:32.11	ANNE LABORWIT	USA	2005	2:58.14	JACKIE MARR	USA	2000	3:15.69	S.MORCHE-BLOCH	GER	2005
2:32.29	F WILLIAMSON	USA	2003	2:58.47	MARGARET WILDING	GBR	1997	100 M. I.M.			
2:32.63	BRIGITTE MERTEN	GER	2002	50 M. BRST				1:14.34	LAURA VAL	USA	2006
2:33.25	FRANCES HARE	USA	2005	38.32	JAN WICKS	AUS	2001	1:17.48	BRIGITTE MERTEN	GER	2002
400 M. FREE				38.63	MONIKA SENFTLEBEN	GER	1998	1:19.02	CAROLYN BOAK	USA	2001
4:50.18	LAURA VAL	USA	2006	38.73	YVONNE CATTRALL	CAN	2005	1:19.78	HARRIET BERGER	GER	2002
5:01.53	BARBARA DUNBAR	USA	2004	39.01	BONNIE PRONK	CAN	1998	1:20.00	YVONNE LEONOV	ISR	2003
5:15.91	ARDETH MUELLER	USA	1996	39.35	DALE BARNHARD	USA	2003	1:20.37	CAROL FELLOWS	GBR	2001
5:19.25	NANCY RIDOUT	USA	1999	39.64	RENATE ZSCHOCKELT	GER	1998	1:20.81	SUSANA BARKLEY	ESP	2000
5:21.44	ANNE LABORWIT	USA	2005	39.89	JENNIFER MERRITT	GBR	2006	1:21.04	JANETTE JEFFREY	AUS	2005
5:22.59	F WILLIAMSON	USA	2003	40.20	BRIGITTE KUHL	GER	2006	1:21.12	MARGARETA RAINER	SWE	2004
5:25.22	MARGARETA RAINER	SWE	2004	40.23	JUDY ALDEN	GBR	2001	1:21.14	SHERRY PUTHOFF	USA	2003
5:29.06	SUSANA BARKLEY	ESP	2000	40.27	GINGER PIERSON	USA	2003	200 M. I.M.			
5:30.11	HELLA VERSVELD	CAN	2005	40.27	CAROLYN BOAK	USA	2001	2:43.63	LAURA VAL	USA	2006
5:30.64	JEN THOMASSON	AUS	1998	100 M. BRST				2:51.08	BRIGITTE MERTEN	GER	2004
800 M. FREE				1:25.63	YVONNE CATTRALL	CAN	2005	2:52.43	ARDETH MUELLER	USA	1997
10:08.33	LAURA VAL	USA	2006	1:25.92	BONNIE PRONK	CAN	1997	2:53.85	JANETTE JEFFREY	AUS	2006
10:17.86	BARBARA DUNBAR	USA	2004	1:26.01	JENNIFER MERRITT	GBR	2006	2:56.12	BARBARA DUNBAR	USA	2004
10:56.19	ARDETH MUELLER	USA	2000	1:26.33	DALE BARNHARD	USA	2003	2:57.53	YOSHIKO OSAKI	JPN	1993
11:04.01	JEN THOMASSON	AUS	1998	1:27.95	GINGER PIERSON	USA	2003	2:58.20	SUSANA BARKLEY	ESP	2000
11:10.25	MARGARETA RAINER	SWE	2005	1:28.13	FLORA CONNOLLY	GBR	1990	2:58.27	HARRIET BERGER	GER	2002
11:12.41	ANNE LABORWIT	USA	2005	1:28.69	DEB WALKER	USA	2006	2:59.78	JACKIE MARR	USA	2000
11:14.06	HELLA VERSVELD	CAN	2005	1:28.69	MONIKA SENFTLEBEN	GER	1997	2:59.91	SILVANA NABUCO	BRA	1998
11:22.83	MEREDITH MOORE	USA	2005	1:29.04	HANNELORE ROSE	GER	1999	400 M. I.M.			
11:24.24	YOSHIKO OSAKI	JPN	1996	1:29.15	ELAINE BROMWICH	GBR	1997	5:52.11	LAURA VAL	USA	2006
11:28.93	JACKIE MARR	USA	2001	200 M. BRST				6:04.58	BARBARA DUNBAR	USA	2004
1500 M. FREE				3:06.41	JENNIFER MERRITT	GBR	2006	6:09.78	BRIGITTE MERTEN	GER	2002
19:20.76	LAURA VAL	USA	2006	3:08.87	BONNIE PRONK	CAN	1997	6:11.73	JEN THOMASSON	AUS	1998
19:24.70	BARBARA DUNBAR	USA	2004	3:10.93	HANNELORE ROSE	GER	1999	6:12.91	ARDETH MUELLER	USA	2000
20:49.11	JEN THOMASSON	AUS	1998	3:11.28	ELAINE BROMWICH	GBR	1997	6:17.37	JULIE CRAYFORD	GBR	2003
21:32.76	HELLA VERSVELD	CAN	2005	3:12.18	DALE BARNHARD	USA	2003	6:21.66	JANETTE JEFFREY	AUS	2005
21:35.84	LAVELLE STAINOFF	USA	1989	3:12.85	FLORA CONNOLLY	GBR	1990	6:22.53	JACKIE MARR	USA	2000
21:52.77	JULIE CRAYFORD	GBR	2003	3:13.70	JEN THOMASSON	AUS	1999	6:27.08	BONNIE PRONK	CAN	2001
21:53.06	JACKIE MARR	USA	2001	3:14.71	JOANN LEILICH	USA	1997	6:29.64	SUSANA BARKLEY	ESP	2001
21:56.12	MARCIA BARRY	USA	2003	3:14.76	DIANE FORD	GBR	1998				
21:57.99	LINDA SHOENBERGER	USA	2005	3:15.81	DEB WALKER	USA	2006				
22:07.35	F WILLIAMSON	USA	2003	50 M. FLY							
50 M. BACK				31.79	LAURA VAL	USA	2006				
33.24	LAURA VAL	USA	2006	31.92	JUDY WILSON	GBR	2000				
35.00	DEBORAH BARTON	GBR	2004	33.66	CONNY BOER-BUIJS	NED	2005				
35.82	SILVANA NABUCO	BRA	1998	33.66	ARDETH MUELLER	USA	1997				
35.88	SATOKO TAKEUJI	JPN	1997	33.76	YOSHIKO KADOSAKA	JPN	2004				
36.02	CAROL FELLOWS	GBR	2001	33.85	YVONNE LEONOV	ISR	2003				
36.07	BA BARNETT-SALLEE	USA	2001	33.90	JOEL FELDMANN	USA	2006				
36.10	MARGIT OHLSSON	SWE	2003	34.36	DEBORAH BARTON	GBR	2004				
36.11	HIROMI SATO	JPN	1997	34.48	BARBARA DUNBAR	USA	2004				

WOMEN 60-64

50 M. FREE			
31.39	LYNETTE STEVENSON	AUS	2006
31.84	JUDY WILSON	GBR	2004
32.04	KAYE BEER	AUS	2006
32.09	CAROLYN BOAK	USA	2006
32.15	CHRISTEL SCHULZ	GER	2003
32.55	YOSHIKO OSAKI	JPN	2002
32.75	JEN THOMASSON	AUS	2005

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32.92 JACKIE MARR	USA	2003	38.93 CAROL FELLOWS	GBR	2006	1:16.41 JUDY WILSON	GBR	2004
33.07 JAYNE BRUNER	USA	1995	100 M. BACK			1:21.22 BRIGITTE MERTEN	GER	2006
33.12 JOY WARD	USA	2002	1:20.02 MARGIT OHLSSON	SWE	2006	1:21.87 HARRIET BERGER	GER	2004
100 M. FREE			1:21.06 SATOKO TAKEUJI	JPN	2003	1:23.78 YOSHIKO OSAKI	JPN	1999
1:10.53 JUDY WILSON	GBR	2004	1:21.74 MARGARET WILDING	GBR	2002	1:27.62 CHRISTEL SCHULZ	GER	2000
1:11.03 CAROLYN BOAK	USA	2006	1:23.58 HIROMI SATO	JPN	2002	1:28.78 BONNIE PRONK	CAN	2003
1:11.41 CHRISTEL SCHULZ	GER	2001	1:24.16 BETSY JORDAN	USA	1997	1:28.81 SUSANA BARKLEY	ESP	2005
1:11.56 YOSHIKO OSAKI	JPN	2001	1:24.58 PENNY STEELE	AUS	2006	1:29.15 HEIKE HOLER	GER	1996
1:12.06 JEN THOMASSON	AUS	2004	1:24.63 LYNETTE STEVENSON	AUS	2006	1:29.70 HANNELORE ROSE	GER	2002
1:12.20 BRIGITTE MERTEN	GER	2006	1:24.63 BONNIE PRONK	CAN	2002	1:29.70 CHRISTINE PERFECT	GBR	2001
1:12.39 JACKIE MARR	USA	2003	1:25.41 SILVANA ABREU	BRA	2001	200 M. FLY		
1:13.23 CAROL FELLOWS	GBR	2006	1:27.06 JACKIE MARR	USA	2003	3:05.20 YOSHIKO OSAKI	JPN	2000
1:13.50 JAYNE BRUNER	USA	1996	200 M. BACK			3:07.04 JUDY WILSON	GBR	2004
1:14.09 LYNETTE STEVENSON	AUS	2006	2:56.06 BONNIE PRONK	CAN	2002	3:13.71 ARDETH MUELLER	USA	2004
200 M. FREE			2:57.92 MARGARET WILDING	GBR	2000	3:21.73 JUDIE OLIVER	CAN	1992
2:38.32 YOSHIKO OSAKI	JPN	1999	3:00.85 MARGIT OHLSSON	SWE	2005	3:23.67 GINGER PIERSON	USA	2006
2:38.37 JUDY WILSON	GBR	2004	3:01.86 JACKIE MARR	USA	2003	3:24.49 BONNIE PRONK	CAN	2003
2:39.92 LAVELLE STOINOFF	USA	1993	3:05.27 BETSY JORDAN	USA	1997	3:25.79 LINDA MACPHERSON	CAN	1998
2:39.96 JACKIE MARR	USA	2003	3:05.82 CHRISTEL SCHULZ	GER	2004	3:26.26 JACKIE MARR	USA	2004
2:41.02 CAROLYN BOAK	USA	2006	3:06.88 SILVANA ABREU	BRA	2001	3:27.26 SILVANA ABREU	BRA	2004
2:41.83 CAROL FELLOWS	GBR	2006	3:07.41 JEN THOMASSON	AUS	2006	3:30.11 BETSY JORDAN	USA	1998
2:42.41 ARDETH MUELLER	USA	2005	3:08.97 MARY POHLMANN	USA	2005	100 M. I.M.		
2:43.87 JEN THOMASSON	AUS	2006	3:09.16 JOY WARD	USA	2006	1:19.09 BRIGITTE MERTEN	GER	2006
2:44.11 SUZANNE DILLS	USA	2005	50 M. BRST			1:21.05 BONNIE PRONK	CAN	2002
2:45.66 CHRISTEL SCHULZ	GER	2001	38.60 MONIKA SENFTLEBEN	GER	2002	1:21.20 HARRIET BERGER	GER	2004
400 M. FREE			38.97 BONNIE PRONK	CAN	2002	1:22.57 YOSHIKO OSAKI	JPN	2000
5:27.75 JACKIE MARR	USA	2003	39.77 JAN WICKS	AUS	2006	1:22.92 LYNETTE STEVENSON	AUS	2006
5:30.24 YOSHIKO OSAKI	JPN	2000	40.98 HANNELORE ROSE	GER	2002	1:23.00 CHRISTEL SCHULZ	GER	2002
5:38.06 LAVELLE STOINOFF	USA	1993	41.27 GINGER PIERSON	USA	2006	1:23.14 MARGIT OHLSSON	SWE	2005
5:38.72 ARDETH MUELLER	USA	2004	41.35 JOANN LEILICH	USA	2000	1:24.82 SILVANA ABREU	BRA	2002
5:46.39 CAROL FELLOWS	GBR	2006	41.35 ELAINE BROMWICH	GBR	2004	1:24.91 JACKIE MARR	USA	2003
5:50.14 JUDY WILSON	GBR	2004	41.74 JAYNE BRUNER	USA	1996	1:24.97 MARGARET WILDING	GBR	2000
5:51.07 CHRISTEL SCHULZ	GER	2004	41.84 NOBUKO YASUDA	JPN	2006	200 M. I.M.		
5:52.58 SUSANA BARKLEY	ESP	2005	41.96 DIANE FORD	GBR	2003	2:54.07 CAROLE BATES	GBR	1998
5:52.69 HANNELORE ROSE	GER	2004	100 M. BRST			2:55.72 BONNIE PRONK	CAN	2002
5:53.58 PENNY WEBSTER	GBR	2003	1:26.43 HANNELORE ROSE	GER	2002	2:57.46 HARRIET BERGER	GER	2004
800 M. FREE			1:26.56 BONNIE PRONK	CAN	2002	2:59.95 YOSHIKO OSAKI	JPN	1998
11:18.60 YOSHIKO OSAKI	JPN	2000	1:29.68 MONIKA SENFTLEBEN	GER	2002	3:03.22 JACKIE MARR	USA	2003
11:24.28 ARDETH MUELLER	USA	2004	1:30.41 NOBUKO YASUDA	JPN	2006	3:03.36 MARGIT OHLSSON	SWE	2006
11:30.55 LAVELLE STOINOFF	USA	1993	1:30.58 JOANN LEILICH	USA	2000	3:04.75 SILVANA ABREU	BRA	2002
11:34.09 JACKIE MARR	USA	2004	1:30.96 DIANE FORD	GBR	2006	3:04.83 CHRISTEL SCHULZ	GER	2001
11:48.52 JEN THOMASSON	AUS	2005	1:31.01 GINGER PIERSON	USA	2006	3:07.92 NOBUKO YASUDA	JPN	2005
11:53.88 SUZANNE DILLS	USA	2005	1:32.20 ELAINE BROMWICH	GBR	2002	3:08.69 JEN THOMASSON	AUS	2006
12:01.84 BONNIE PRONK	CAN	2003	1:33.20 ROTRAUD PALMER	GBR	2001	400 M. I.M.		
12:05.86 HANNELORE ROSE	GER	2005	1:33.64 MASAYO AZUMA	JPN	1998	6:25.24 BONNIE PRONK	CAN	2002
12:07.84 SILVANA ABREU	BRA	2001	200 M. BRST			6:27.20 JACKIE MARR	USA	2003
12:09.70 SUSANA BARKLEY	ESP	2005	3:06.48 BONNIE PRONK	CAN	2002	6:27.23 HANNELORE ROSE	GER	2002
1500 M. FREE			3:07.44 HANNELORE ROSE	GER	2002	6:28.22 YOSHIKO OSAKI	JPN	1999
21:33.34 JACKIE MARR	USA	2003	3:18.15 DIANE FORD	GBR	2005	6:48.57 JUDIE OLIVER	CAN	1993
21:59.83 YOSHIKO OSAKI	JPN	1998	3:18.20 NOBUKO YASUDA	JPN	2005	6:50.30 SUZANNE DILLS	USA	2005
22:23.62 BARNI WARNHURST	CAN	1988	3:18.25 JOANN LEILICH	USA	2001	6:57.45 KATHY SLIFER	USA	2005
22:54.51 LAVELLE STOINOFF	USA	1994	3:20.65 ELAINE BROMWICH	GBR	2003	6:58.40 BETSY JORDAN	USA	1998
22:59.19 BONNIE PRONK	CAN	2003	3:20.83 MASAYO AZUMA	JPN	1998	6:58.97 CLARA WALKER	USA	1991
23:28.15 CLARA WALKER	USA	1990	3:21.22 MONIKA SENFTLEBEN	GER	2002	6:59.44 NANCY BROWN	USA	1996
23:29.00 ELAINE BLOWER	GBR	2006	3:22.80 LUISE KNOPFLE	GER	2001			
23:29.04 PENNY WEBSTER	GBR	2002	3:23.56 YOSHIE OGASAWARA	JPN	2006			
23:42.50 RITSUKO SUGIMURA	JPN	2004	50 M. FLY					
23:51.07 SARAH KOPSKY	USA	2003	33.38 JUDY WILSON	GBR	2004			
50 M. BACK			35.03 MICHIE DOI	JPN	2005			
36.27 LYNETTE STEVENSON	AUS	2006	36.00 BRIGITTE MERTEN	GER	2006			
36.38 SATOKO TAKEUJI	JPN	2002	36.00 HARRIET BERGER	GER	2004			
36.42 MARGIT OHLSSON	SWE	2005	36.04 YOSHIKO OSAKI	JPN	1999			
36.92 MARGARET WILDING	GBR	2000	36.27 JOY WARD	USA	2002			
36.99 SILVANA ABREU	BRA	2003	36.31 JAN WICKS	AUS	2006			
37.36 HIROMI SATO	JPN	2004	36.43 SILVANA ABREU	BRA	2002			
37.71 PENNY STEELE	AUS	2006	36.72 CHRISTEL SCHULZ	GER	2004			
38.74 BETSY JORDAN	USA	1997	36.72 ARDETH MUELLER	USA	2004			
38.92 BONNIE PRONK	CAN	2002	100 M. FLY					

WOMEN 65-69

50 M. FREE

31.91 HEIDE LORBERG	GER	2004
32.25 CHRISTEL SCHULZ	GER	2005
32.77 PAM HUTCHINGS	AUS	2002
33.09 YOSHIKO OSAKI	JPN	2005
34.04 OLGA KREJCI	SUI	2002
34.17 GAIL ROPER	USA	1996
34.34 JANE ASHER	GBR	1997
34.38 ODETTE LUSIEN	FRA	1993
34.44 BJORK GISNERVIK	NOR	2004

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

34.84 SALLY BOLAR	USA	2005	1:25.53 PAM HUTCHINGS	AUS	2001	1:31.92 HELGA REICH	GER	2001
100 M. FREE			1:25.61 SILVANA ABREU	BRA	2006	1:33.07 CHRISTINE PARFECT	GBR	2004
1:10.97 CHRISTEL SCHULZ	GER	2005	1:26.96 BETSY JORDAN	USA	2002	1:33.10 GAIL ROPER	USA	1995
1:13.48 YOSHIKO OSAKI	JPN	2004	1:28.80 CHRISTEL SCHULZ	GER	2006	1:33.27 JUDIE OLIVER	CAN	1997
1:16.26 GAIL ROPER	USA	1996	1:28.82 V. JOHANSSON	SWE	2001	1:34.83 HAIKE HOLER	GER	2002
1:17.02 PAM HUTCHINGS	AUS	2001	1:30.41 DORIS STEADMAN	USA	1989	1:34.93 HISAKO SATO	JPN	2001
1:17.08 JANE ASHER	GBR	1997	1:31.33 GRETHE BENDTSEN	DEN	1995	1:35.28 LYNN LUND	USA	2005
1:19.69 V. JOHANSSON	SWE	2002	1:32.03 JANET BROWN	GBR	2006	1:36.95 FLORA CONNOLLY	GBR	1999
1:19.87 HELGA REICH	GER	2002	1:32.67 SHOKO YONEZAWA	JPN	2002	200 M. FLY		
1:20.28 JAYNE BRUNER	USA	2000	1:32.80 JANE ASHER	GBR	1997	3:17.36 YOSHIKO OSAKI	JPN	2003
1:20.77 CLARA WALKER	USA	1996	200 M. BACK			3:28.93 HELGA REICH	GER	2002
1:21.05 SALLY BOLAR	USA	2005	3:08.42 CHRISTEL SCHULZ	GER	2006	3:29.98 SILVANA ABREU	BRA	2006
200 M. FREE			3:08.61 PAM HUTCHINGS	AUS	2001	3:31.98 FLORA CONNOLLY	GBR	1999
2:42.05 YOSHIKO OSAKI	JPN	2004	3:12.09 SILVANA ABREU	BRA	2006	3:32.93 JUNE KRAUSER	USA	1995
2:44.02 CHRISTEL SCHULZ	GER	2005	3:15.36 BETSY JORDAN	USA	2002	3:33.38 JUDIE OLIVER	CAN	1997
2:47.42 PAM HUTCHINGS	AUS	2002	3:15.72 DORIS STEADMAN	USA	1989	3:35.80 GAIL ROPER	USA	1995
2:50.40 JANE ASHER	GBR	1997	3:18.33 V. JOHANSSON	SWE	2002	3:42.95 LYNN LUND	USA	2005
2:53.83 SILVANA ABREU	BRA	2006	3:18.42 FLORA CONNOLLY	GBR	1999	3:43.66 HISAKO SATO	JPN	2000
2:54.15 GAIL ROPER	USA	1996	3:20.97 JANET BROWN	GBR	2006	3:46.40 BETSY JORDAN	USA	2002
2:55.27 LINDA MACPHERSON	CAN	2004	3:21.78 MARGA BRAUN	GER	2001	100 M. I.M.		
2:55.51 LAVELLE STOINOFF	USA	2002	3:22.18 YOSHIKO OSAKI	JPN	2006	1:24.95 YOSHIKO OSAKI	JPN	2005
2:56.41 HELGA REICH	GER	2001	50 M. BRST			1:25.00 CHRISTEL SCHULZ	GER	2005
2:56.46 V. JOHANSSON	SWE	2002	42.35 JOANN LEILICH	USA	2005	1:28.61 SHOKO YONEZAWA	JPN	2001
400 M. FREE			43.07 SHOKO YONEZAWA	JPN	2002	1:28.95 GAIL ROPER	USA	1996
5:46.94 YOSHIKO OSAKI	JPN	2003	43.27 ELIANE PELLIS	BEL	1998	1:29.34 SILVANA ABREU	BRA	2006
5:56.24 CHRISTEL SCHULZ	GER	2006	43.83 ROTRAUD PALMER	GBR	2006	1:30.38 KEIKO YAMADA	JPN	2003
5:59.10 LAVELLE STOINOFF	USA	2002	43.87 A. LEENE-RODAHL	NZL	1999	1:30.70 JANE ASHER	GBR	1996
6:00.99 JANE ASHER	GBR	1996	44.13 YOSHIKO OSAKI	JPN	2003	1:32.30 JOANN LEILICH	USA	2005
6:01.13 V. JOHANSSON	SWE	2001	44.55 JAYNE BRUNER	USA	2000	1:33.28 CLARA WALKER	USA	1995
6:02.93 HELGA REICH	GER	2001	44.57 LUISE KNOPFLE	GER	2004	1:34.00 ROTRAUD PALMER	GBR	2006
6:13.42 CLARA WALKER	USA	1992	44.61 EDITH BOHM	GER	1994	200 M. I.M.		
6:13.84 SARAH KOPSKY	USA	2006	44.87 FLORA CONNOLLY	GBR	1998	3:06.37 YOSHIKO OSAKI	JPN	2004
6:14.18 LINDA MACPHERSON	CAN	2003	100 M. BRST			3:15.59 FLORA CONNOLLY	GBR	2000
6:15.50 MARLENE MENDES	BRA	1999	1:32.37 JOANN LEILICH	USA	2004	3:18.77 CLARA WALKER	USA	1991
800 M. FREE			1:33.89 LUISE KNOPFLE	GER	2004	3:19.06 GAIL ROPER	USA	1996
11:49.70 YOSHIKO OSAKI	JPN	2003	1:34.50 MASAYO AZUMA	JPN	2000	3:19.87 JANE ASHER	GBR	1996
12:20.68 LAVELLE STOINOFF	USA	2002	1:36.24 SHOKO YONEZAWA	JPN	2001	3:20.86 SILVANA ABREU	BRA	2006
12:26.85 JANE ASHER	GBR	1999	1:36.45 FLORA CONNOLLY	GBR	1998	3:24.04 SHOKO YONEZAWA	JPN	2001
12:35.26 CLARA WALKER	USA	1992	1:36.52 ELIANE PELLIS	BEL	1998	3:24.26 JUDIE OLIVER	CAN	1998
12:36.40 HELGA REICH	GER	2002	1:36.57 YOSHIKO OSAKI	JPN	2003	3:25.55 HELGA REICH	GER	2003
12:44.20 SARAH KOPSKY	USA	2006	1:37.59 TAYO FUJIEDA	JPN	2003	3:26.59 BETSY JORDAN	USA	2002
12:49.22 LINDA MACPHERSON	CAN	2003	1:38.74 CHRISTINE PARFECT	GBR	2004	400 M. I.M.		
12:51.30 V. JOHANSSON	SWE	2003	1:39.16 ELEONORE OTTO	GER	2001	6:34.95 YOSHIKO OSAKI	JPN	2003
12:53.15 FLORA CONNOLLY	GBR	2000	200 M. BRST			6:57.58 FLORA CONNOLLY	GBR	2000
12:59.64 REIKO ISHIZAKI	JPN	2005	3:17.44 JOANN LEILICH	USA	2004	7:01.55 JUDIE OLIVER	CAN	1999
1500 M. FREE			3:20.83 LUISE KNOPFLE	GER	2004	7:07.28 SILVANA ABREU	BRA	2006
22:35.98 YOSHIKO OSAKI	JPN	2004	3:24.31 MASAYO AZUMA	JPN	2000	7:07.69 GAIL ROPER	USA	1996
23:38.44 CLARA WALKER	USA	1992	3:26.40 FLORA CONNOLLY	GBR	2000	7:12.40 HELGA REICH	GER	2003
23:44.34 JANE ASHER	GBR	1996	3:26.55 YOSHIKO OSAKI	JPN	2004	7:13.26 JUNE KRAUSER	USA	1995
24:11.37 SILVANA ABREU	BRA	2006	3:29.02 LOTTE MULLER	GER	1999	7:20.51 LYNN LUND	USA	2005
24:12.34 HELGA REICH	GER	2002	3:29.93 ELIANE PELLIS	BEL	1998	7:20.69 BETSY JORDAN	USA	2002
24:31.69 SUSAN MUNN	USA	2003	3:31.44 TAYO FUJIEDA	JPN	2002	7:20.76 CLARA WALKER	USA	1995
24:41.83 JUNE KRAUSER	USA	1991	3:32.00 SHOKO YONEZAWA	JPN	2000			
24:43.59 REIKO ISHIZAKI	JPN	2005	3:36.72 CHRISTINE PARFECT	GBR	2004			
25:07.47 BARBARA FENTIMAN	GBR	2003	50 M. FLY					
25:23.16 GAIL ROPER	USA	1996	36.36 CHRISTEL SCHULZ	GER	2005			
50 M. BACK			36.79 YOSHIKO OSAKI	JPN	2003			
37.47 SILVANA ABREU	BRA	2006	38.09 HISAKO SATO	JPN	2000			
38.25 PAM HUTCHINGS	AUS	2001	38.44 GAIL ROPER	USA	1995			
40.11 BETSY JORDAN	USA	2003	38.46 HAIKE HOLER	GER	2004			
40.48 DORIS STEADMAN	USA	1989	38.72 HARUMI SUGIMOTO	JPN	2003			
41.05 CHRISTEL SCHULZ	GER	2005	38.78 SARAH KOPSKY	USA	2006			
41.72 V. JOHANSSON	SWE	2001	38.91 SILVANA ABREU	BRA	2006			
41.89 SHOKO YONEZAWA	JPN	2003	39.11 JANE ASHER	GBR	1998			
42.00 GRETHE BENDTSEN	DEN	1995	39.66 HISAKO KITAYAMA	JPN	2003			
42.42 JANET BROWN	GBR	2006	100 M. FLY					
42.61 KEIKO YAMADA	JPN	2004	1:25.28 YOSHIKO OSAKI	JPN	2003			
100 M. BACK			1:29.13 CHRISTEL SCHULZ	GER	2006			

WOMEN 70-74

50 M. FREE			33.86 JANE ASHER	GBR	2004
			35.14 GERD DURRE	GER	2006
			35.37 GAIL ROPER	USA	1999
			35.86 PAM HUTCHINGS	AUS	2006
			36.34 HISAKO SATO	JPN	2006
			36.87 SHOKO YONEZAWA	JPN	2005
			36.91 LOTTIE GEURTS	NED	2006
			36.94 JOHNNIE DETRICK	USA	2005
			37.17 M. CUNNINGHAM	AUS	1996
			37.39 OLGA KREJCI	SUI	2006
100 M. FREE					

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

1:16.45 JANE ASHER	GBR 2004	1:34.24 NANCY BROWN	USA 2006	1:39.02 JUDIE OLIVER	CAN 2002
1:18.67 GAIL ROPER	USA 1999	1:34.51 GRETHE BENDTSEN	DEN 2000	1:40.05 HISAKO SATO	JPN 2006
1:22.10 V. JOHANSSON	SWE 2005	1:35.27 JANE ASHER	GBR 2001	1:40.20 JUNE KRAUSER	USA 1996
1:22.57 PAM HUTCHINGS	AUS 2006	1:35.66 DORIS STEADMAN	USA 1995	1:47.18 SYLVIA NEUHAUSER	AUT 2000
1:22.99 LOTTIE GEURTS	NED 2006	1:36.72 PAM HUTCHINGS	AUS 2006	1:48.55 ANN HIRSCH	USA 2001
1:23.35 SHOKO YONEZAWA	JPN 2006	1:37.09 JOAN PARNELL	CAN 1999	1:49.82 TRICIA LIDDY	AUS 2006
1:23.56 NANCY BROWN	USA 2006	1:38.10 EVA JAROSOVA	CZE 2006	200 M. FLY	
1:23.63 HELGA REICH	GER 2006	1:39.59 NANCY MACBETH	USA 1999	3:37.23 HELGA REICH	GER 2006
1:23.98 HISAKO SATO	JPN 2006	200 M. BACK		3:38.39 JUNE KRAUSER	USA 1996
1:24.69 BARBARA FENTIMAN	GBR 2004	3:18.61 V. JOHANSSON	SWE 2005	3:44.96 JANE ASHER	GBR 2001
200 M. FREE		3:20.96 JANE ASHER	GBR 2001	3:45.64 GAIL ROPER	USA 1999
2:49.28 JANE ASHER	GBR 2003	3:25.04 NANCY BROWN	USA 2006	3:55.59 JUDIE OLIVER	CAN 2004
2:58.06 GAIL ROPER	USA 2000	3:27.79 DORIS STEADMAN	USA 1995	3:58.01 BETTY RUSS	USA 1997
3:00.93 NANCY BROWN	USA 2006	3:29.29 JUDIE OLIVER	CAN 2002	4:03.04 SYLVIA EISELE	CAN 2000
3:01.39 HELGA REICH	GER 2006	3:31.52 PAM HUTCHINGS	AUS 2006	4:03.47 HISAKO SATO	JPN 2006
3:04.77 JEAN TROY	USA 1998	3:34.00 GRETHE BENDTSEN	DEN 2002	4:05.29 LOIS NOCHMAN	USA 1998
3:06.05 HISAKO SATO	JPN 2006	3:35.27 EVA JAROSOVA	CZE 2006	4:06.93 ANN HIRSCH	USA 2001
3:06.44 RONNIE KAMPHAUSEN	USA 2004	3:35.41 NANCY MACBETH	USA 1999	100 M. I.M.	
3:06.86 LOTTIE GEURTS	NED 2006	3:35.68 MISAO MATSUMOTO	JPN 2006	1:27.80 SHOKO YONEZAWA	JPN 2005
3:07.16 JUNE KRAUSER	USA 1996	50 M. BRST		1:32.23 GAIL ROPER	USA 2000
3:07.46 BARBARA FENTIMAN	GBR 2004	42.80 SHOKO YONEZAWA	JPN 2005	1:33.49 JANE ASHER	GBR 2003
400 M. FREE		45.08 EDITH BOEHM	GER 1999	1:34.10 JUDIE OLIVER	CAN 2002
6:00.34 JANE ASHER	GBR 2003	45.55 MASAYO AZUMA	JPN 2005	1:35.21 HELGA REICH	GER 2006
6:19.80 HELGA REICH	GER 2006	45.56 ERIKA LANGE	GER 1998	1:36.29 V. ANN JOHANSSON	SWE 2006
6:24.11 BARBARA FENTIMAN	GBR 2004	46.50 ELIANE PELLIS	BEL 2006	1:37.81 NANCY MACBETH	USA 1999
6:27.21 GAIL ROPER	USA 1999	46.99 SYLVIA EISELE	CAN 2000	1:38.73 JUNE KRAUSER	USA 1996
6:28.81 JUNE KRAUSER	USA 1996	47.29 ANN HIRSCH	USA 2001	1:38.95 NANCY BROWN	USA 2006
6:29.70 HISAKO SATO	JPN 2006	47.69 I. KEUSCH-RENNER	GER 2004	1:39.14 GRETHE BENDTSEN	DEN 2000
6:30.94 NANCY BROWN	USA 2006	47.80 ODETTE LUSIEN	FRA 1997	200 M. I.M.	
6:32.39 RONNIE KAMPHAUSEN	USA 2004	47.90 A. VAN OBBERGHEN	BEL 2002	3:21.52 JUDIE OLIVER	CAN 2002
6:41.64 DIANE STOWELL	USA 2004	100 M. BRST		3:24.64 JANE ASHER	GBR 2001
6:45.83 FLORENCE CARR	USA 1995	1:35.58 SHOKO YONEZAWA	JPN 2005	3:25.28 HELGA REICH	GER 2006
800 M. FREE		1:36.94 MASAYO AZUMA	JPN 2005	3:26.44 SHOKO YONEZAWA	JPN 2006
12:30.00 JANE ASHER	GBR 2004	1:42.61 ELIANE PELLIS	BEL 2006	3:30.92 GAIL ROPER	USA 1999
13:00.04 BARBARA FENTIMAN	GBR 2004	1:42.62 EDITH BOEHM	GER 1999	3:31.29 JUNE KRAUSER	USA 1999
13:03.64 HELGA REICH	GER 2006	1:44.50 ANN HIRSCH	USA 2001	3:32.12 V. JOHANSSON	SWE 2005
13:07.28 JUNE KRAUSER	USA 1996	1:44.73 DIANE STOWELL	USA 2004	3:33.45 NANCY BROWN	USA 2006
13:23.18 HISAKO SATO	JPN 2006	1:44.80 SYLVIA NEUHAUSER	AUT 2000	3:37.89 NANCY MACBETH	USA 1999
13:30.87 NANCY BROWN	USA 2006	1:45.56 A. VAN OBBERGHEN	BEL 2001	3:39.21 MASAYO AZUMA	JPN 2005
13:35.09 DIANE STOWELL	USA 2005	1:45.87 ERIKA LANGE	GER 1998	400 M. I.M.	
14:01.77 DENISE ROBERTSON	AUS 2006	1:46.15 TRICIA LIDDY	AUS 2006	7:09.96 JANE ASHER	GBR 2001
14:08.33 BETTY RUSS	USA 1997	200 M. BRST		7:19.12 JUDIE OLIVER	CAN 2002
14:09.09 GAIL ROPER	USA 2002	3:28.98 MASAYO AZUMA	JPN 2005	7:24.32 JUNE KRAUSER	USA 1996
1500 M. FREE		3:30.16 SHOKO YONEZAWA	JPN 2005	7:34.98 URSULA FRÖHLICH	GER 2005
23:54.74 JANE ASHER	GBR 2004	3:43.02 DIANE STOWELL	USA 2005	7:36.99 GAIL ROPER	USA 1999
24:56.47 BARBARA FENTIMAN	GBR 2004	3:44.03 JUDIE OLIVER	CAN 2002	7:47.34 NANCY BROWN	USA 2006
24:57.85 JUNE KRAUSER	USA 1996	3:44.57 ELIANE PELLIS	BEL 2004	7:48.97 NANCY MACBETH	USA 1999
25:14.99 HELGA REICH	GER 2006	3:45.66 ANN HIRSCH	USA 2001	7:52.30 SYLVIA NEUHAUSER	AUT 2000
25:40.21 GAIL ROPER	USA 1999	3:48.92 ERIKA LANGE	GER 1998	8:02.39 SYLVIA EISELE	CAN 2000
26:05.82 NANCY BROWN	USA 2006	3:49.85 GAIL ROPER	USA 1999	8:05.34 ANN HIRSCH	USA 2001
26:18.70 PETEY SMITH	USA 1994	3:49.98 JANE ASHER	GBR 2001		
26:40.45 DENISE ROBERTSON	AUS 2005	3:50.48 SYLVIA NEUHAUSER	AUT 2000		
26:44.39 ADRIENNE PIPES	USA 2005	50 M. FLY			
26:58.93 MISAO MATSUMOTO	JPN 2006	39.44 JANE ASHER	GBR 2004		
50 M. BACK		40.56 HISAKO SATO	JPN 2006		
41.23 SHOKO YONEZAWA	JPN 2005	40.58 HAIKE HOLER	GER 2006		
41.45 GERD DURRE	GER 2006	40.66 GAIL ROPER	USA 1999		
42.58 DORIS STEADMAN	USA 1995	41.16 HELGA REICH	GER 2006		
42.85 V. JOHANSSON	SWE 2005	42.47 JUDIE OLIVER	CAN 2002		
42.86 GRETHE BENDTSEN	DEN 2000	44.54 MASUMI TANI	JPN 1996		
43.15 JANE ASHER	GBR 2001	45.17 JUNE KRAUSER	USA 1996		
43.19 NANCY BROWN	USA 2006	45.44 EDITH BOEHM	GER 1999		
43.23 PAM HUTCHINGS	AUS 2006	45.61 V. JOHANSSON	SWE 2005		
43.45 JOAN PARNELL	CAN 1999	100 M. FLY			
44.50 EVA JAROSOVA	CZE 2006	1:34.70 JANE ASHER	GBR 2001		
100 M. BACK		1:34.86 HELGA REICH	GER 2006		
1:31.24 SHOKO YONEZAWA	JPN 2005	1:37.56 GAIL ROPER	USA 1999		
1:31.31 V. JOHANSSON	SWE 2005	1:38.39 HAIKE HOLER	GER 2006		

WOMEN 75-79

50 M. FREE	
35.88 JANE ASHER	GBR 2006
37.24 GAIL ROPER	USA 2004
38.85 M. CUNNINGHAM	AUS 2002
38.89 JEAN TROY	USA 2002
39.06 KERSTIN GJORES	SWE 2002
39.73 OLGA JOHNSON	NZL 1996
39.84 BETTY RUSS	USA 2004
39.92 BRITT GRILLI	SWE 2003
39.96 FLORENCE CARR	USA 2001
39.97 MITSUKO KOMURO	JPN 2006
100 M. FREE	
1:18.59 JANE ASHER	GBR 2006
1:24.31 GAIL ROPER	USA 2005



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Walt Reid – FINA Masters Recorder

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

1:42.38	RITA SIMONTON	USA	1998	2:02.50	BETTY STERN	AUS	2001	2:39.88	KAY SCHIMPF	USA	1997
1:42.96	CHIE TANI	JPN	2006	2:02.78	MARJORIE SHARPE	USA	2000	2:40.66	JAE HOWELL	USA	2004
1:44.57	MARJORIE SHARPE	USA	1997	2:03.10	IRENE ATHANS	CAN	2003	200 M. FLY			
1:46.54	SHIZUE TOYAMA	JPN	2004	2:03.10	M. WRIGHT	AUS	1989	4:31.97	LOIS KIVI NOCHMAN	USA	2005
1:47.21	BETTY STERN	AUS	2001	200 M. BACK				5:22.65	MAXINE O MERLINO	USA	1992
1:47.71	JOYCE FAUNCE	AUS	2001	4:09.07	DORIS STEADMAN	USA	2004	5:24.06	JAE HOWELL	USA	2002
200 M. FREE				4:14.53	MARGERY MEYER	USA	2003	5:27.00	JEAN DURSTON	USA	1997
3:27.57	MARGERY MEYER	USA	2002	4:21.27	SILVIA CRAVERI	ITA	2003	5:39.29	DOROTHY WESTON	GBR	1996
3:37.21	RITA SIMONTON	USA	1998	4:23.30	BUNNY CEDERLUND	USA	2003	6:04.35	JUNE REYNOLDS	USA	2003
3:43.95	M. CUNNINGHAM	AUS	2005	4:24.78	BETTY STERN	AUS	2002	6:10.87	GLADYS OLSEN	USA	2006
3:44.72	ELSA DE LEEUW	CAN	2004	4:25.09	KAZUKO TAGUCHI	JPN	2006	6:20.56	ELSA MATTILA	USA	1991
3:49.19	MARJORIE SHARPE	USA	1997	4:26.52	REGAN KENNER	USA	2004	6:32.72	NORA RONAI	BRA	2005
3:49.25	OLGA JOHNSON	NZL	2001	4:28.97	MIDORI KINJO	JPN	2005	6:46.72	DOROTHY HOPKINS	USA	1989
3:52.96	CANDIDA GANDOLPHO	BRA	2001	4:29.95	RITA EVANS	USA	2000	100 M. I.M.			
3:55.06	VIRGINIA KETELEER	BEL	2006	4:30.66	LOIS KIVI NOCHMAN	USA	2004	1:59.06	M. CUNNINGHAM	AUS	2005
3:55.82	CHIE TANI	JPN	2006	50 M. BRST				2:00.15	CHIE TANI	JPN	2006
3:56.63	HISAKO KOGA	JPN	1998	50.48	SATOKO SUZUKI	JPN	2003	2:02.01	MARGERY MEYER	USA	2003
400 M. FREE				55.81	MICHELE GUILLAIS	FRA	2001	2:02.30	DORIS MCEWAN	CAN	2004
7:22.84	MARGERY MEYER	USA	2002	56.36	SHIZUE TOYAMA	JPN	2004	2:02.67	LOIS KIVI NOCHMAN	USA	2004
7:33.69	RITA SIMONTON	USA	1998	57.11	KIMIE KANAI	JPN	2004	2:04.00	GERTRUD MEERWALD	GER	2000
7:44.00	M. CUNNINGHAM	AUS	2005	57.14	EMMI PAULI	GER	1993	2:07.52	MAXINE MERLINO	USA	1992
7:58.35	VIRGINIA KETELEER	BEL	2006	58.44	INGEBORG FRITZE	GER	2001	2:07.67	ELSA DE LEEUW	CAN	2004
7:59.87	ELSA DE LEEUW	CAN	2004	59.02	LIZ KNUTZEN	DEN	2001	2:08.07	CATHERINE KERR	CAN	2001
8:03.27	CHIE TANI	JPN	2006	59.26	GERTRUD MEERWALD	GER	2000	2:10.93	DOROTHY WESTON	GBR	1993
8:04.20	MARJORIE SHARPE	USA	1997	59.62	NICOLE SCHERLE	FRA	2006	200 M. I.M.			
8:05.44	CANDIDA GANDOLPHO	BRA	2001	1:00.32	ELSA DE LEEUW	CAN	2004	4:22.29	LOIS KIVI NOCHMAN	USA	2005
8:10.68	GERTRUD MEERWALD	GER	2000	100 M. BRST				4:22.97	CHIE TANI	JPN	2006
8:13.92	OLGA JOHNSON	NZL	2001	1:54.30	SATOKO SUZUKI	JPN	2003	4:36.03	M. CUNNINGHAM	AUS	2005
800 M. FREE				2:06.59	EMMI PAULI	GER	1993	4:38.24	MARGERY MEYER	USA	2002
15:30.51	MARGERY MEYER	USA	2005	2:08.23	GERTRUD MEERWALD	GER	2000	4:40.77	MARIA LENK	BRA	1995
15:49.21	RITA SIMONTON	USA	1998	2:09.75	DOROTHY WILLIAMS	GBR	2003	4:44.14	ELSA DE LEEUW	CAN	2004
16:04.77	VIRGINIA KETELEER	BEL	2006	2:10.31	KIMIE KANAI	JPN	2004	4:45.38	JEAN DURSTON	USA	1995
16:18.58	MARJORIE SHARPE	USA	1997	2:10.94	MICHELE GUILLAIS	FRA	2003	4:45.93	MAXINE MERLINO	USA	1992
16:51.32	CANDIDA GANDOLPHO	BRA	2001	2:13.23	YOKO KOBAYASHI	JPN	2006	4:54.25	GERTRUD MEERWALD	GER	2000
17:00.71	LOIS KIVI NOCHMAN	USA	2005	2:14.23	LOIS NOCHMAN	USA	2005	5:01.71	KAY SCHIMPF	USA	1997
17:13.96	ELSA DE LEEUW	CAN	2005	2:14.93	HILDEGARD MESSING	GER	2000	400 M. I.M.			
17:51.63	JEAN DURSTON	USA	1994	2:15.38	DOROTHY WESTON	GBR	1993	9:31.73	LOIS KIVI NOCHMAN	USA	2004
18:04.02	GRE SCHONBERGER	NED	2001	200 M. BRST				9:50.43	MAXINE MERLINO	USA	1992
18:14.52	MAXINE MERLINO	USA	1992	4:38.57	DOROTHY WILLIAMS	GBR	2003	10:09.01	JEAN DURSTON	USA	1994
1500 M. FREE				4:49.62	RITA SIMONTON	USA	1998	10:56.37	JAE HOWELL	USA	2003
29:39.08	MARGERY MEYER	USA	2002	4:53.38	MICHIO HAMURO	JPN	1999	11:05.81	KAY SCHIMPF	USA	1997
29:48.75	RITA SIMONTON	USA	1998	4:53.77	BARBARA VICKERS	AUS	2006	11:17.91	JUNE REYNOLDS	USA	2002
30:32.06	VIRGINIA KETELEER	BEL	2005	4:54.39	DOROTHY WESTON	GBR	1993	11:18.33	KALIS RASMUSSEN	CAN	2006
30:59.09	MARJORIE SHARPE	USA	1997	4:59.96	MICHELE GILLAIS	FRA	2002	11:19.93	ELSA MATTILA	USA	1991
31:45.05	LOIS KIVI NOCHMAN	USA	2004	5:00.63	MAXINE MERLINO	USA	1992	11:45.47	GLADYS OLSEN	USA	2006
33:55.61	FUMI MURATA	JPN	2004	5:02.47	LOIS KIVI NOCHMAN	USA	2005	12:11.13	DOROTHY HOPKINS	USA	1989
34:06.51	JEAN DURSTON	USA	1995	5:02.64	GERTRUD MEERWALD	GER	2001	*****			
34:09.57	GRE SCHONBERGER	NED	2001	5:02.92	INGEBORG FRITZE	GER	2001	WOMEN 85-89			
35:07.91	MAXINE MERLINO	USA	1992	50 M. FLY				*****			
36:03.77	LOUISE BOWERSOCK	USA	2003	55.65	LOIS KIVI NOCHMAN	USA	2004	50 M. FREE			
50 M. BACK				56.51	CHIE TANI	JPN	2006	46.31	OLGA JOHNSON	NZL	2006
50.03	MARGERY MEYER	USA	2002	1:01.24	GERTRUD MEERWALD	GER	2000	49.14	FUSAKO YAMANAKA	JPN	2005
51.19	ANNELIESE POKER	GER	2001	1:02.58	MARIA LENK	BRA	1995	49.48	HISAKO KOGA	JPN	2003
52.13	BETTY STERN	AUS	2001	1:02.68	UMEKO KUWAHARA	JPN	2005	49.92	RITA SIMONTON	USA	2003
52.24	DORIS STEADMAN	USA	2004	1:03.25	BONNIE SMITH	AUS	2000	51.34	BUNNY CEDERLUND	USA	2006
53.00	M. WRIGHT	AUS	1989	1:03.26	JEAN DURSTON	USA	1994	51.99	JULIA DOLCE	USA	1995
53.50	RUZENA VYMAZALOVA	CZE	2006	1:04.52	NORA RONAI	BRA	2004	52.17	JOYCE FAUNCE	AUS	2006
53.82	MITSUKO KURASHIGE	JPN	2006	1:04.92	YONE MURATA	JPN	2004	52.89	MARJORIE SHARPE	USA	2003
53.97	BUNNY CEDERLUND	USA	2003	1:05.04	MAXINE MERLINO	USA	1992	53.19	UME WADA	JPN	1996
54.02	MIDORI KINJO	JPN	2004	100 M. FLY				54.64	EDNA FARRELL	NZL	2002
54.16	KAZUKO TAGUCHI	JPN	2006	2:02.63	LOIS KIVI NOCHMAN	USA	2004	100 M. FREE			
100 M. BACK				2:22.05	GERTRUD MEERWALD	GER	2000	1:48.55	OLGA JOHNSON	NZL	2006
1:55.79	MARGERY MEYER	USA	2002	2:28.34	JEAN DURSTON	USA	1994	1:49.64	RITA SIMONTON	USA	2003
1:57.07	DORIS STEADMAN	USA	2004	2:30.84	MAXINE MERLINO	USA	1992	1:54.41	HISAKO KOGA	JPN	2002
1:57.77	BUNNY CEDERLUND	USA	2004	2:32.15	MARIA LENK	BRA	1995	1:55.38	MARJORIE SHARPE	USA	2002
1:58.72	MIDORI KINJO	JPN	2004	2:33.42	NORA RONAI	BRA	2006	1:58.86	FUSAKO YAMANAKA	JPN	2005
2:00.10	RUZENA VYMAZALOVA	CZE	2006	2:36.99	JUNE REYNOLDS	USA	2002	2:00.31	AUDREY ETIENNE	USA	2001
2:02.47	SILVIA CRAVERI	ITA	2003	2:39.06	DIANA SILVA	USA	2004				

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

2:02.93	JOYCE FAUNCE	AUS	2006	4:18.50	EDITH THEIN	ISR	2003	7:15.07	KATHERINE PELTON	USA	1990
2:04.10	TERU USHIKI	JPN	2004	4:36.48	BUNNY CEDERLUND	USA	2006	16:41.57	GERDA VOSS	CAN	2004
2:04.80	BUNNY CEDERLUND	USA	2006	4:41.34	MARIA LENK	BRA	2000	100 M. I.M.			
2:05.74	JULIA DOLCE	USA	1995	4:41.38	PERSIS RAE	AUS	2005	2:12.85	JEWEL COOKE	USA	1995
200 M. FREE				4:46.44	WILLY VAN RYSEL	GBR	2001	2:21.11	RITA SIMONTON	USA	2003
3:57.48	RITA SIMONTON	USA	2003	4:53.35	MARJORIE SHARPE	USA	2002	2:22.10	MARIA LENK	BRA	2000
4:05.82	OLGA JOHNSON	NZL	2006	4:57.09	ANNE WALKER	USA	2001	2:25.02	JEAN DURSTON	USA	1999
4:10.40	HISAKO KOGA	JPN	2002	4:58.10	OLGA JOHNSON	NZL	2006	2:26.58	MICHELE GUILLAIS	FRA	2006
4:16.84	MARJORIE SHARPE	USA	2003	5:00.12	HIDEKO HANADA	JPN	2004	2:27.70	MAXINE MERLINO	USA	1998
4:24.20	MAURINE KORNFELD	USA	2006	5:11.83	MAURINE KORNFELD	USA	2006	2:32.74	DOROTHY WESTON	GBR	1998
4:26.28	CANDIDA GANDOLPHO	BRA	2006	50 M. BRST				2:34.00	MICHIKO HAMURO	JPN	2004
4:32.73	URSULA OEHMKE	GER	2004	1:04.29	MICHELE GUILLAIS	FRA	2006	2:37.54	AUDREY ETIENNE	USA	2001
4:36.42	MARIA LENK	BRA	2000	1:07.06	LIS KNUTZEN	DEN	2006	2:37.74	UME WADA	JPN	1997
4:37.43	EDITH THEIN	ISR	2004	1:08.14	INGEBORG FRITZE	GER	2006	200 M. I.M.			
4:37.83	MAXINE MERLINO	USA	1998	1:08.15	FUSAKO TOMINARI	JPN	2004	5:09.92	MARIA LENK	BRA	2000
400 M. FREE				1:08.39	MARIA LENK	BRA	2000	5:12.01	JEAN DURSTON	USA	1999
8:17.82	RITA SIMONTON	USA	2003	1:09.22	EMMI PAULI	GER	1998	5:12.13	MAXINE MERLINO	USA	1998
8:45.92	MARJORIE SHARPE	USA	2002	1:09.70	MARTI GOGNIAT	USA	1995	5:26.90	RITA SIMONTON	USA	2004
8:59.25	OLGA JOHNSON	NZL	2006	1:10.04	GERTRUD ZINT	USA	2002	6:10.88	JEWEL COOKE	USA	1995
9:10.49	MAURINE KORNFELD	USA	2006	1:10.47	DOROTHY WESTON	GBR	1998	6:12.63	GERTRUD ZINT	USA	2002
9:27.75	MARIA LENK	BRA	2000	1:10.83	MICHIKO HAMURO	JPN	2004	6:25.11	EDITH GLUSAC	USA	2003
9:29.01	JEAN DURSTON	USA	1999	100 M. BRST				7:29.75	JEANNE TURGEON	CAN	2004
9:34.27	MAXINE MERLINO	USA	1998	2:28.12	LIS KNUTZEN	DEN	2006	9:49.36	ANNA BAUSCHER	USA	1989
9:55.19	WILLY VAN RYSEL	GBR	2001	2:29.90	MARIA LENK	BRA	2000	9:51.94	ELFIE STEVENIN	USA	2006
9:57.25	CANDIDA GANDOLPHO	BRA	2005	2:33.87	EMMI PAULI	GER	1998	400 M. I.M.			
10:19.41	JULIA DOLCE	USA	1995	2:37.44	FUSAKO TOMINARI	JPN	2002	10:55.73	JEAN DURSTON	USA	1999
800 M. FREE				2:37.57	MICHIKO HAMURO	JPN	2004	11:02.02	MAXINE MERLINO	USA	1998
16:49.43	RITA SIMONTON	USA	2003	2:38.41	INGEBORG FRITZE	GER	2006	13:24.08	JEWEL COOKE	USA	1996
19:00.42	MAURINE KORNFELD	USA	2006	2:38.48	MARTI GOGNIAT	USA	1995	13:32.12	GERTRUD ZINT	USA	2003
19:41.58	MAXINE MERLINO	USA	1998	2:38.91	DOROTHY WESTON	GBR	1998	15:34.06	KATHERINE PELTON	USA	1991
20:28.81	MARJORIE SHARPE	USA	2003	2:45.96	MAXINE MERLINO	USA	1998	21:51.74	GERDA VOSS	CAN	2004
20:31.49	WILLY VAN RYSEL	GBR	2001	2:46.38	JEAN DURSTON	USA	1999				
21:02.41	MARIA LENK	BRA	2001	200 M. BRST				*****			
21:38.16	LILLIAN WARREN	CAN	2004	5:33.41	MICHIKO HAMURO	JPN	2004	*****			
21:44.00	KAY SCHIMPF	USA	2002	5:39.33	MARIA LENK	BRA	2000	*****			
22:22.74	JULIA DOLCE	USA	1995	5:59.36	MARTI GOGNIAT	USA	1997	*****			
22:23.51	KIKU ONO	JPN	2002	6:18.17	GERTRUD ZINT	USA	2003	*****			
1500 M. FREE				6:34.55	RITA SIMONTON	USA	2004	*****			
31:44.50	RITA SIMONTON	USA	2003	6:53.42	JEWEL COOKE	USA	1996	*****			
37:28.53	MAXINE MERLINO	USA	1998	7:01.22	EDITH GLUSAC	USA	2003	*****			
39:25.76	WILLY VAN RYSEL	GBR	2001	7:02.74	JEANNE TURGEON	CAN	2004	*****			
41:11.16	KAY SCHIMPF	USA	2002	7:04.36	ANNELEISE ZOELLER	USA	2003	*****			
42:10.95	JULIA DOLCE	USA	1995	7:04.72	MARION DEVITT	CAN	2006	*****			
42:54.05	KIKU ONO	JPN	2002	50 M. FLY				*****			
48:02.60	KATH JOHNSTONE	NZL	2003	1:07.35	JEAN DURSTON	USA	1999	*****			
50 M. BACK				1:11.38	MARIA LENK	BRA	2000	*****			
57.62	BUNNY CEDERLUND	USA	2006	1:16.71	MAXINE MERLINO	USA	1998	*****			
58.02	NOEL MORROW	CAN	2004	1:24.22	JEWEL COOKE	USA	1996	*****			
58.38	MASA SHIGEMITSU	JPN	2000	1:24.51	DOROTHY WESTON	GBR	2002	*****			
59.67	WILLY VAN RYSEL	GBR	2001	1:24.53	KATHERINE PELTON	USA	1990	*****			
1:00.39	MARJORIE SHARPE	USA	2002	1:26.72	RITA SIMONTON	USA	2006	*****			
1:00.71	FUSAKO TOMINARI	JPN	2003	1:29.04	EDITH GLUSAC	USA	2003	*****			
1:01.06	MARIA LENK	BRA	2000	1:31.62	GERTRUD ZINT	USA	2002	*****			
1:01.72	ANNE WALKER	USA	2001	1:32.06	MAURINE KORNFELD	USA	2006	*****			
1:02.13	OLGA JOHNSON	NZL	2006	100 M. FLY				*****			
1:03.57	PERSIS RAE	AUS	2006	2:36.50	JEAN DURSTON	USA	1999	*****			
100 M. BACK				2:51.00	MAXINE MERLINO	USA	1998	*****			
2:10.33	BUNNY CEDERLUND	USA	2006	3:20.81	JEWEL COOKE	USA	1996	*****			
2:11.03	WILLY VAN RYSEL	GBR	2001	3:22.29	EDITH GLUSAC	USA	2003	*****			
2:11.09	PERSIS RAE	AUS	2005	3:29.58	KATHERINE PELTON	USA	1990	*****			
2:11.54	MARIA LENK	BRA	2000	4:21.96	EDIE GOLDMAN	USA	1997	*****			
2:13.95	NOEL MORROW	CAN	2004	4:35.49	KIYOMI KITAMURA	JPN	2005	*****			
2:16.59	MARJORIE SHARPE	USA	2002	6:13.75	ELFIE STEVENIN	USA	2006	*****			
2:23.95	EDITH THEIN	ISR	2004	7:29.71	GERDA VOSS	CAN	2004	*****			
2:23.98	ANNE WALKER	USA	2002	200 M. FLY				*****			
2:24.11	MAXINE MERLINO	USA	1998	5:42.80	JEAN DURSTON	USA	1999	*****			
2:25.46	HIDEKO HANADA	JPN	2004	6:01.46	MAXINE MERLINO	USA	1998	*****			
200 M. BACK				7:12.95	JEWEL COOKE	USA	1996	*****			

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400 M. FREE		6:37.73 MARIA LENK	BRA 2005	22.83 ERIK OSBORN	USA 1995
10:29.76 WILLY VAN RYSEL	GBR 2006	9:03.85 JEWEL COOKE	USA 1999	22.92 STEFAN HERBST	GER 2005
10:45.34 MAXINE MERLINO	USA 2002	10:23.13 MADELEINE MILLER	USA 2000	22.93 ALEXANDER KAHL	GER 2005
11:10.67 MARIA LENK	BRA 2005	14:53.20 HILDA BUEL	USA 2004	23.00 SVEN GUSKE	GER 2001
13:24.06 MARY LATHRAM	USA 2006	50 M. FLY		100 M. FREE	
14:06.61 MASAKO MATSUNO	JPN 2006	1:34.61 DOROTHY WESTON	GBR 2003	48.58 S.KUNZELMANN	GER 2005
14:16.35 ANNA BAUSCHER	USA 1993	1:35.56 MAXINE MERLINO	USA 2002	49.58 ANDREW MANLEY	GBR 2003
17:59.61 BERNARDA ANGULO	ESP 2004	1:48.46 MARIE KELLEHER	USA 2006	49.91 BJORN ZIKARSKY	USA 1995
800 M. FREE		1:49.08 JEWEL COOKE	USA 2000	50.13 HERMAN LOUW	USA 2000
21:16.76 WILLY VAN RYSEL	GBR 2006	4:00.74 HILDA BUEL	USA 2004	50.55 DAN WEGNER	USA 2000
22:18.84 MAXINE MERLINO	USA 2002	4:45.13 ANNA BAUSCHER	USA 1993	50.60 KLAUS HUEZ	ITA 2003
28:45.45 ANNA BAUSCHER	USA 1993	100 M. FLY		50.88 JESPER LEVANDER	SWE 2006
1500 M. FREE		3:21.00 DOROTHY WESTON	GBR 2003	50.88 MARK STEVENS	GBR 2001
41:20.62 WILLY VAN RYSEL	GBR 2006	4:06.32 JEWELL COOK	USA 1999	51.05 EDUARDO SCHIESARI	BRA 2002
44:27.18 MAXINE MERLINO	USA 2002	100 M. I.M.		51.14 STEVEN MELLOR	GBR 2001
50 M. BACK		3:06.08 DOROTHY WESTON	GBR 2003	200 M. FREE	
1:05.70 WILLY VAN RYSEL	GBR 2006	3:06.87 MAXINE MERLINO	USA 2004	1:48.81 JOHN KEPPELER	USA 1995
1:13.75 MARIA LENK	BRA 2005	3:13.87 JEWEL COOKE	USA 1999	1:49.94 ANDREW MANLEY	GBR 2003
1:15.02 M.GOTTSCHALK	GER 1999	3:31.92 MARIE KELLEHER	USA 2006	1:50.99 EDUARDO SCHIESARI	BRA 2002
1:16.60 ANNE WALKER	USA 2006	4:43.61 DOROTHY RIORDAN	USA 2004	1:51.11 HERMAN LOUW	USA 2000
1:19.85 MIEKO NAGAOKA	JPN 2006	5:08.94 BERNARDA ANGULO	ESP 2004	1:51.34 STEVEN MELLOR	GBR 2000
1:22.64 JEWEL COOKE	USA 2000	5:58.92 HILDA BUEL	USA 2005	1:51.65 FERNANDO SAEZ	BRA 2002
1:22.70 MARY LATHRAM	USA 2005	200 M. I.M.		1:51.87 AURELIEN COQ	FRA 2004
1:23.51 RINA DAVOGLIO	ITA 2002	6:25.12 MAXINE MERLINO	USA 2003	1:51.92 DAN WEGNER	USA 2000
1:25.62 EDITH HENDRY	USA 2003	6:56.70 JEWEL COOKE	USA 1999	1:52.55 JENS BUNGER	GER 1994
1:30.49 MASAKO MATSUNO	JPN 2006	11:57.44 HILDA BUEL	USA 2004	1:52.70 J HORKY	CZE 1997
100 M. BACK		400 M. I.M.		400 M. FREE	
2:26.64 WILLY VAN RYSEL	GBR 2006	14:55.37 JEWEL COOKE	USA 1999	3:56.53 A.ANGELOTTI	BRA 2001
2:43.99 MARIA LENK	BRA 2005			3:56.66 AURELIEN COQ	FRA 2004
2:45.49 M.GOTTSCHALK	GER 1999	*****		3:57.24 STEVEN MELLOR	GBR 2000
2:47.71 ANNE WALKER	USA 2006	WOMEN 95-99		3:58.23 ALEX KOSTICH	USA 1997
2:56.37 DOROTHY WESTON	GBR 2003	*****		3:59.78 GAVIN LILLEY	GBR 1993
2:59.60 RINA DAVOGLIO	ITA 2002	50 M. FREE		4:00.64 G.ORPHANIDES	GBR 2003
3:00.20 MIEKO NAGAOKA	JPN 2006	1:13.87 SHIZUE SHIMIZU	JPN 2006	4:02.17 DAN WEGNER	USA 2000
3:05.96 JEWEL COOKE	USA 1999	2:02.50 MARGE ANDERSON	CAN 1998	4:03.27 MIKAEL ROSEN	SWE 2003
3:08.02 MARY LATHRAM	USA 2006	2:08.68 ROSA SELLARES	ESP 2006	4:03.39 CRAIG PICKERING	USA 2006
3:23.84 EDITH HENDRY	USA 2003	4:05.96 ELIZABETH DZIADUS	USA 2005	4:04.26 NATE MOORE	USA 2002
200 M. BACK		100 M. FREE		800 M. FREE	
5:02.82 WILLY VAN RYSEL	GBR 2006	4:32.42 ROSA SELLARES	ESP 2006	8:07.91 A.ANGELOTTI	BRA 2001
5:56.27 ANNE WALKER	USA 2006	4:35.98 MARGE ANDERSON	CAN 1998	8:13.81 G.ORPHANIDES	GBR 2003
6:24.54 MARY LATHRAM	USA 2006	200 M. FREE		8:14.75 ALEX KOSTICH	USA 1997
6:32.92 JEWEL COOKE	USA 1999	9:32.52 ROSA SELLARES	ESP 2006	8:21.79 G.SPLITTGERBER	GER 2000
6:38.29 MIEKO NAGAOKA	JPN 2006	400 M. FREE		8:25.06 JASON NIELSON	USA 1996
7:16.44 MADELEINE MILLER	USA 2000	19:24.06 ROSA SELLARES	ESP 2006	8:26.37 CRAIG PICKERING	USA 2006
7:43.30 EDITH HENDRY	USA 2003	50 M. BACK		8:28.33 ANDREA MARCATO	ITA 2002
7:47.79 BERNARDA ANGULO	ESP 2002	1:27.92 EDITH HENDRY	USA 2006	8:28.96 M.MICHAELSEN	GER 2002
10:16.22 HILDA BUEL	USA 2005	2:00.16 SHIZUE SHIMIZU	JPN 2006	8:29.19 TONY LENNANSSON	SWE 1992
50 M. BRST		2:04.24 ROSA SELLARES	ESP 2005	8:35.16 JULIEN BAILLOD	SUI 2005
1:21.91 DOROTHY WESTON	GBR 2003	2:05.36 MARGE ANDERSON	CAN 1998	1500 M. FREE	
1:24.48 MARIA LENK	BRA 2005	3:36.30 ELIZABETH DZIADUS	USA 2005	15:29.68 G.ORPHANIDES	GBR 2003
1:25.24 M.GOTTSCHALK	GER 1999	100 M. BACK		15:41.81 ALEX KOSTICH	USA 1997
1:37.50 YOSHI KUCHIBA	JPN 1998	3:25.37 EDITH HENDRY	USA 2006	16:15.61 CRAIG PICKERING	USA 2006
1:38.63 MADELEINE MILLER	USA 2000	4:12.61 SHIZUE SHIMIZU	JPN 2006	16:16.13 JOHN CALNAN	CAN 2006
1:43.97 IRENE ADAMS	CAN 2005	4:36.75 ROSA SELLARES	ESP 2005	16:23.21 ROB J MACKLE	USA 1992
1:46.02 LUZIA CARACCILO	BRA 2004	200 M. BACK		16:26.54 TONY DAY	GBR 1991
1:49.01 DORRIE VANNING	NZL 1991	7:36.62 EDITH HENDRY	USA 2006	16:29.14 RICCARDO RUSSO	ITA 2006
1:52.69 JEWEL COOKE	USA 1999	9:37.39 ROSA SELLARES	ESP 2005	16:31.71 BERND FELDVOSS	GER 1994
2:13.35 MARGO BATES	AUS 2002	*****		16:35.98 JOHNY HEWERDINE	CAN 2005
100 M. BRST		M E N 25-29		16:36.12 FUMIO AMANO	JPN 2003
3:04.86 DOROTHY WESTON	GBR 2003	*****		50 M. BACK	
3:05.60 MARIA LENK	BRA 2005	50 M. FREE		25.05 STEV THELOKE	GER 2004
3:25.74 M.GOTTSCHALK	GER 1999	22.48 ED WAGNER	USA 1996	25.22 TERO RATY	FIN 2004
4:05.59 DORRIE VANNING	NZL 1991	22.48 ROBERT PEEL	USA 1993	25.43 MARTIN HARRIS	GBR 1994
4:06.89 JEWEL COOKE	USA 1999	22.78 ANDREW MANLEY	GBR 2003	25.62 JIRI LEPOLA	FIN 2002
4:15.28 MADELEINE MILLER	USA 2000	22.78 BJORN ZIKARSKY	USA 1995	26.00 MICHAEL KANNER	USA 1995
6:13.66 MARGOT LENIGK	USA 2001	22.80 RYAN LAURIN	CAN 2003	26.11 TAKAFUMI OISHI	JPN 2005
6:29.78 HILDA BUEL	USA 2005	22.81 SCOTT GREENWOOD	USA 2002	26.14 KENTARO NAKAMURA	JPN 2002
200 M. BRST				26.21 JOHN KEPPELER	USA 1995

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

26.22 KEITARU KONNAI	JPN 2004	100 M. FLY		23.27 ANDRE CORDEIRO	BRA 2006
26.30 PANU LONKA	FIN 1996	53.93 STEFAN HERBST	GER 2004	23.31 STEPHANE MEYER	FRA 2006
100 M. BACK		54.83 JASON EADDY	USA 2002	23.31 KEITH ANDERSON	USA 2002
55.04 STEFAN HERBST	GER 2005	54.89 JEFF DASH	USA 2006	100 M. FREE	
55.15 TERO RATY	FIN 2004	54.98 CURTIS SAWIN	USA 2000	50.51 ROWDY GAINES	JPN 1989
55.42 TAKAFUMI OISHI	JPN 2005	55.21 ARAKEN MOREIRA	BRA 2005	50.53 KLAUS HUEZ	ITA 2004
55.76 JOHN KEPPELER	USA 1995	55.50 ANDREW MANLEY	GBR 2002	50.71 MICHAEL PICOTTE	USA 2003
55.97 MARTIN HARRIS	GBR 1994	55.54 YOHEI KATO	JPN 2006	50.94 STEPHANE MEYER	FRA 2006
56.02 JIRI LEPOLA	FIN 2002	55.82 JEFF LEE	SWE 2006	50.94 JOCHEN BRUHA	GER 2001
56.48 TAKUMA YAMAOKA	JPN 2003	55.83 SHOTA YAMAGUCHI	JPN 2005	50.97 JOHN KEPPELER	USA 1999
56.51 MASAKAZU HINATA	JPN 2002	55.85 ROBERTO FIUZA	BRA 1998	51.05 ED WAGNER	USA 2002
56.60 KENTARO NAKAMURA	JPN 2002	200 M. FLY		51.37 AUSTYN SHORTMAN	GBR 2003
56.76 JONATHAN AUDIS	GBR 2006	2:01.74 LOIC LEROY	FRA 2006	51.51 OZZIE QUEVEDO	USA 2006
200 M. BACK		2:02.05 KIMITAKA MINOBE	JPN 2003	51.61 A.LUDERITZ	GER 2003
1:56.22 STEFAN HERBST	GER 2006	2:03.59 JASON EADDY	USA 2002	200 M. FREE	
2:01.14 DEAN KENT	NZL 2005	2:04.83 SHOTA YAMAGUCHI	JPN 2005	1:49.00 CHRISTOPH HILMER	GER 2006
2:01.78 MARTIN HARRIS	GBR 1994	2:05.26 STEVEN MELLOR	GBR 2000	1:50.91 ROWDY GAINES	JPN 1989
2:02.63 JOHN KEPPELER	USA 1995	2:05.92 J.LIPAVSKY	CZE 2002	1:52.04 JOHN KEPPELER	USA 1999
2:03.69 SHINYA HAYASHI	JPN 2006	2:05.97 GAVIN LILLEY	GBR 1993	1:52.42 JOCHEN BRUHA	GER 2001
2:04.07 DARRYL FOLLOWS	NZL 1993	2:06.13 JEFF DASH	USA 2006	1:52.83 BRUCE HAYES	USA 1994
2:05.18 C.SHEPPARD	USA 2006	2:06.27 FABRICE BEAUNOIR	FRA 2001	1:53.66 DAN STEPHENSON	USA 1989
2:05.18 ALEXANDER KAHL	GER 2005	2:06.63 A.ANGELOTTI	BRA 2001	1:53.69 BERNIE ZERUHN	USA 2005
2:05.64 TAKUMA YAMAOKA	JPN 2003	100 M. I.M.		1:53.81 NORBERT AGH	USA 2001
2:05.95 J PAPILLON	FRA 1998	55.20 STEFAN HERBST	GER 2004	1:53.87 TADAO INEYAMA	JPN 2003
50 M. BRST		56.65 JEFF COMMINGS	USA 2003	1:54.18 DAN WEGNER	USA 2001
27.69 RUSS PATRICK	CAN 2003	56.76 ATTILA CZENE	USA 2001	400 M. FREE	
27.76 EDUARDO FISCHER	BRA 2005	57.33 TERO RATY	FIN 2004	3:58.40 ALEX KOSTICH	USA 2000
28.11 NAOKI NAGURA	JPN 2006	57.39 DEAN KENT	NZL 2005	3:59.83 BRUCE HAYES	USA 1994
28.26 MATTHIAS RUMPF	GER 2005	57.40 ANDREW MANLEY	GBR 2003	4:00.26 SEBASTIAN WIESE	GER 2004
28.28 NICOLAS CANIVET	FRA 2004	57.57 JESPER LEVANDER	SWE 2006	4:02.66 ROWDY GAINES	JPN 1989
28.60 JEFF COMMINGS	USA 2003	57.58 MARTIN HARRIS	GBR 1994	4:03.85 GLAUCO RANGEL	BRA 2002
28.69 HIDEAKI TOGO	JPN 1999	57.70 GUY FARROW	AUS 1990	4:05.17 ROLAND LEE	GBR 1996
28.81 GUY FARROW	AUS 1990	57.87 DENNIS OTZEN	DEN 2004	4:05.71 JEFF UTSCH	USA 1997
28.86 JEREMY LINN	USA 2001	200 M. I.M.		4:06.26 FABIEN CZACHOR	FRA 2006
28.94 FABIANO BORGES	BRA 2002	2:00.56 STEFAN HERBST	GER 2006	4:06.33 TONY LENNARTSSON	SWE 1995
100 M. BRST		2:01.58 DEAN KENT	NZL 2005	4:06.64 CYRIL CAVAGNA	FRA 2003
1:00.28 EDUARDO FISCHER	BRA 2005	2:03.28 AURELIEN COQ	FRA 2004	800 M. FREE	
1:02.31 MATTHIAS RUMPF	GER 2005	2:05.66 ANDREW MANLEY	GBR 2004	8:17.06 ALEX KOSTICH	USA 2000
1:02.49 SIMON LEIGHFIELD	AUS 2002	2:05.93 JOHN KEPPELER	USA 1995	8:19.13 SEBASTIAN WIESE	GER 2004
1:02.51 NICOLAS CANIVET	FRA 2004	2:05.98 KAZUYA KUROSU	JPN 2003	8:19.44 BRUCE HAYES	USA 1994
1:02.61 RUSS PATRICK	CAN 2003	2:06.84 J HORKY	CZE 1997	8:32.66 ANDREA MARCATO	ITA 2006
1:02.83 JEFF COMMINGS	USA 2003	2:06.96 EDUARDO SCHIESARI	BRA 2004	8:34.26 DAN STEPHENSON	USA 1989
1:02.87 HIDEAKI TOGO	JPN 1999	2:07.07 JEFF COMMINGS	USA 2003	8:34.46 ANTONIO D'ARAI	ITA 2005
1:03.29 NICK POLKINGHORNE	GBR 1999	2:07.47 MARC RINZLER	USA 1998	8:34.69 FABIO AFFRICANO	ITA 2005
1:03.62 CHRISTOPHER JONES	GBR 2006	400 M. I.M.		8:35.17 TONY LENNARTSSON	SWE 1995
1:03.77 JENS BUNGER	GER 1994	4:20.94 DEAN KENT	NZL 2005	8:38.44 FABIEN CZACHOR	FRA 2006
200 M. BRST		4:26.79 JOHN KEPPELER	USA 1995	8:38.75 DAN GOERKE	USA 1989
2:15.42 SIMON LEIGHFIELD	AUS 2002	4:26.97 ALEX KOSTICH	USA 1997	1500 M. FREE	
2:18.04 CHRISTOPHER JONES	GBR 2006	4:30.99 MARCEL RINZLER	USA 2000	15:51.07 ALEX KOSTICH	USA 2000
2:18.21 FABIO SILVA	BRA 2006	4:33.17 JEROME FRENTSOS	USA 1995	16:11.71 ANDREA MARCATO	ITA 2004
2:19.40 S.YOSHIKURA	JPN 2006	4:34.06 G.ORPHANIDES	GBR 2003	16:15.49 MIKE SHAFFER	USA 1995
2:19.76 OLIVER VINENZETTI	GER 2005	4:34.11 A.ANGELOTTI	BRA 2001	16:20.43 FABIEN CZACHOR	FRA 2006
2:20.30 AUDY OKTAVIAN	USA 2003	4:36.12 CRAIG PICKERING	USA 2006	16:21.25 BRUCE HAYES	USA 1994
2:20.38 C.BRUNSON	USA 2006	4:37.03 MATHIAS HAAK	GER 1999	16:26.83 JEFF UTSCH	USA 1997
2:20.40 STUART NOTMAN	GBR 2004	4:38.48 MATTHEW DRISCOLL	GBR 1997	16:36.40 FABIO AFFRICANO	ITA 2005
2:20.43 ABRAHAM SOLANO	USA 1996	*****		16:36.85 COLIN OVINGTON	GBR 2001
2:21.23 SCOTT CAMPEA	USA 2000	*****		16:39.54 FUMIO AMANO	JPN 2004
50 M. FLY		M E N 30-34		16:47.64 EDWIN NORDEN	NED 1995
24.24 D. BURGESS LAIRD	USA 1989	*****		50 M. BACK	
24.29 STEFAN HERBST	GER 2004	50 M. FREE		25.54 MARTIN ZUBERO	USA 2001
24.80 ARAKEN MOREIRA	BRA 2005	22.68 AUSTYN SHORTMAN	GBR 2003	25.67 HAJIME ITOI	JPN 2001
24.84 LEONARDO FRANCA	BRA 2005	22.76 ED WAGNER	USA 2002	25.95 DEREK ROBINSON	USA 2000
24.89 JOAKIM DAHL	SWE 2002	22.82 ROWDY GAINES	JPN 1989	26.03 MARTIN HARRIS	GBR 2000
24.91 FRANCIS NASSAR	BRA 2002	22.99 MICHAEL PICOTTE	USA 2003	26.13 STEFFEN SCHMOLKE	GER 2001
24.98 OSWALDO QUEVEDO	USA 2005	23.08 BRIAN JACOBSON	USA 2006	26.20 TAKAFUMI OISHI	JPN 2006
25.01 JASON EADDY	USA 2002	23.15 LARS-OVE JANSSON	SWE 1999	26.27 JON WINTER	NZL 2002
25.02 FERNANDO SCHERER	BRA 2003	23.21 M.GIALDI	ITA 2002	26.58 JAY YARID	USA 1994
25.05 G DIAZ DE LEON	USA 2003	23.24 CHRISTOPH BUHLER	SUI 2004	26.65 KENTARO NAKAMURA	JPN 2005

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26.69	EDILSON SILVA JR.	BRA	2000	25.41	JONATHAN SADLER	GBR	2003	23.80	BRUCE STAHL	USA	1994
26.69	TOSHIKI MIURA	JPN	2003	100 M. FLY				23.83	MICHAEL FELL	USA	2000
100 M. BACK				54.82	HIROSHI MIURA	JPN	1996	23.87	BERND HOFFMEISTER	GER	1999
55.19	MARTIN ZUBERO	USA	2003	54.85	BRIAN ALDERMAN	USA	1999	100 M. FREE			
55.78	MARTIN HARRIS	GBR	2000	55.78	OZZIE QUEVEDO	USA	2006	49.53	JOHN MIRANDA	SWE	2000
56.14	TAKAFUMI OISHI	JPN	2006	55.82	STEPHANE MEYER	FRA	2006	51.01	RON KARNAUGH	USA	2003
56.25	JOHN KEPPELER	USA	1999	56.08	CURTIS SAWIN	USA	2001	51.31	MICHAEL ROSS	USA	2004
56.83	JAY YARID	USA	1993	56.35	PETER EGAN	USA	1995	51.43	JOCHEN BRUHA	GER	2004
57.11	KENTARO NAKAMURA	JPN	2005	56.38	ALEXANDER KAHL	GER	2006	51.44	JIM HARVEY	USA	2001
57.48	MARK VOGEL	DEN	2001	56.43	MICHAEL BOTTOM	USA	1989	51.79	M.GIALDI	ITA	2005
57.49	NICOLAS GRANGER	FRA	2001	56.53	PHILIPPE MEYER	SUI	2004	51.98	ERIK HOCHSTEIN	USA	2003
57.57	PETER OBERGLOCK	GER	1999	56.57	JOHN KEPPELER	USA	1999	52.23	EDWIN VAN NORDEN	NED	1999
57.63	JEFF WELECHUK	CAN	2003	200 M. FLY				52.64	MARK MORGAN	AUS	1994
200 M. BACK				2:00.21	HIROSHI MIURA	JPN	2000	52.80	MICHAEL FELL	USA	2000
2:00.43	MARTIN ZUBERO	USA	2001	2:04.59	MIKE SHAFFER	USA	1995	52.80	F.SILVESTRI	ITA	2002
2:02.91	JOHN KEPPELER	USA	1999	2:05.68	ERIK HOCHSTEIN	USA	2002	200 M. FREE			
2:04.63	JAY YARID	USA	1993	2:05.93	IAN BECK	GBR	1995	1:51.31	ERIK HOCHSTEIN	USA	2003
2:04.92	Y.NAKAHARA	JPN	2000	2:06.03	PETER EGAN	USA	1995	1:51.47	JOCHEN BRUHA	GER	2004
2:05.06	JARED SCHEFFEL	CAN	2000	2:06.86	SHIGEO SHIRAISHI	JPN	2006	1:51.54	MICHAEL ROSS	USA	2004
2:05.57	CHRIS JONES	GBR	2002	2:08.25	JEROME FRENTSOS	USA	1999	1:52.90	RON KARNAUGH	USA	2002
2:05.82	JEFF WELECHUK	CAN	2003	2:09.03	BERNIE ZERUHN	USA	2005	1:53.66	EDWIN VAN NORDEN	NED	1998
2:06.10	DARRYL FOLLOWS	NZL	1999	2:09.38	JIMMY CHO	CAN	2006	1:54.51	MIKE SHAFFER	USA	2000
2:06.42	JOHANN PAPILLON	FRA	2005	2:09.41	SYLVAIN GALANGO	FRA	2006	1:55.07	F.SILVESTRI	ITA	2002
2:08.38	JON WINTER	NZL	2002	100 M. I.M.				1:55.28	NICOLAS GRANGER	FRA	2006
50 M. BRST				56.36	ATTILA CZENE	SWE	2004	1:55.50	STUART CROMARTY	USA	2002
28.30	JEFF COMMINGS	USA	2006	56.66	MARTIN ZUBERO	USA	2003	1:55.56	JUAN C VALLEJO	ESP	2000
28.31	HIDEAKI TOGO	JPN	2003	57.57	JEFF COMMINGS	USA	2006	400 M. FREE			
28.89	ALAN PESSOTTI	BRA	2006	57.84	HIROSHI MIURA	JPN	1996	3:57.77	ERIK HOCHSTEIN	USA	2003
29.00	NICK POLKINGHORNE	GBR	2004	58.09	MARTIN HARRIS	GBR	2000	3:58.50	F.SILVESTRI	ITA	2002
29.04	RAFFAELE NOTTE	ITA	2005	58.38	BRIAN JACOBSON	USA	2005	4:01.78	RON KARNAUGH	USA	2003
29.10	TOMASZ DUSZYNSKI	POL	2006	58.54	JONATHAN CHURINS	USA	2005	4:02.52	MIKE SHAFFER	USA	2000
29.14	S. BROWN	AUS	1990	58.62	CURTIS SAWIN	USA	2001	4:03.90	NICOLAS GRANGER	FRA	2002
29.21	DEAN PUTTERMAN	USA	1996	58.64	LORENZO BENUCCI	USA	1999	4:06.72	TONY LENNARTSSON	SWE	2002
29.26	MARTIN JURCO	GBR	2006	58.69	TODD DREITZLER	USA	2000	4:07.22	EDWIN VAN NORDEN	NED	1998
29.31	SEBASTIEN MUFF	FRA	2006	200 M. I.M.				4:07.99	STUART CROMARTY	USA	2002
100 M. BRST				2:04.01	ATTILA CZENE	SWE	2004	4:08.45	DANIEL SERRA	ESP	2004
1:01.62	JEFF COMMINGS	USA	2006	2:05.59	HIROSHI MIURA	JPN	2000	4:08.56	JUAN C VALLEJO	ESP	2000
1:02.85	NICK POLKINGHORNE	GBR	2004	2:06.15	NICOLAS GRANGER	FRA	2001	800 M. FREE			
1:03.47	ALAN PESSOTTI	BRA	2006	2:06.32	ROQUE SANTOS	USA	1999	8:23.06	ERIK HOCHSTEIN	USA	2003
1:03.64	ROQUE SANTOS	USA	1999	2:07.28	JEFF COMMINGS	USA	2006	8:26.43	MIKE SHAFFER	USA	2000
1:03.66	TOMASZ DUSZYNSKI	POL	2006	2:08.41	EDWIN VAN NORDEN	NED	1996	8:29.31	BOBBY PATTEN	USA	1999
1:04.00	NICK GILLINGHAM	GBR	2001	2:08.42	JEROME FRENTSOS	USA	1999	8:32.29	JUAN C VALLEJO	ESP	2000
1:04.02	HIDEAKI TOGO	JPN	2006	2:08.43	LORENZO BENUCCI	USA	1999	8:33.92	DAVID CASTRO	BRA	2000
1:04.23	FRANK VIJVER	NED	1994	2:09.16	FRANK VIJVER	NED	1993	8:38.57	NICOLAS GRANGER	FRA	2006
1:04.33	DAVID GUTHRIE	USA	1993	2:09.46	NORBERT AGH	USA	2001	8:39.00	COLIN OVINGTON	GBR	2004
1:04.65	RAFFAELE NOTTE	ITA	2005	400 M. I.M.				8:39.50	F.SILVESTRI	ITA	2001
200 M. BRST				4:26.74	ROQUE SANTOS	USA	1999	8:40.84	RANDY EICKHOFF	USA	2000
2:16.60	NICK GILLINGHAM	GBR	2001	4:29.07	ALEX KOSTICH	USA	2000	8:42.58	ALEXIS TODOSKOFF	FRA	2005
2:17.56	ROQUE SANTOS	USA	1999	4:32.23	JEROME FRENTSOS	USA	1999	1500 M. FREE			
2:20.17	TOMASZ DUSZYNSKI	POL	2006	4:35.97	BRUCE HAYES	USA	1994	15:57.93	ANDREW GRISTWOOD	GBR	1999
2:20.53	ABRAHAM SOLANO	USA	1999	4:38.26	SHIGEO SHIRAISHI	JPN	2006	15:58.20	BOBBY PATTEN	USA	1999
2:21.42	JONATHAN BANVILLE	SUI	2003	4:40.29	DIEDERIK ROUFFAER	NED	2002	16:03.47	MIKE SHAFFER	USA	2000
2:22.56	SIMONE BATTISTON	ITA	2006	4:40.91	JOHN MUNRO	GBR	2006	16:12.88	ERIK HOCHSTEIN	USA	2003
2:23.34	RAFFAELE NOTTE	ITA	2005	4:41.44	LORENZO BENUCCI	USA	1999	16:20.54	NICOLAS GRANGER	FRA	2006
2:24.40	STEPHAN JOE	USA	2006	4:41.52	CRAIG HUMMER	USA	1995	16:36.00	COLIN OVINGTON	GBR	2004
2:24.41	HAJIME MORIMOTO	JPN	2000	4:41.99	CYRIL CAVAGNA	FRA	2005	16:42.96	RANDY EICKHOFF	USA	2000
2:24.48	PETER HEELEIN	GER	1995					16:44.80	JIMMY FURRER	SUI	1996
50 M. FLY				*****				16:46.20	ANTONIO D'ARIA	ITA	2006
24.36	HAJIME ITOI	JPN	2003	M E N 35-39				16:50.44	MICHAEL KLEIBER	GER	2001
24.64	BRIAN ALDERMAN	USA	1999	*****				50 M. BACK			
24.75	JON WINTER	NZL	2002	50 M. FREE				25.86	MICHAEL ROSS	USA	2004
24.86	MICHAEL PICOTTE	USA	2003	22.47	JOHN MIRANDA	SWE	2000	26.84	CLAY BRITT	USA	1996
24.88	OZZIE QUEVEDO	USA	2006	23.04	M.GIALDI	ITA	2004	26.87	RON KARNAUGH	USA	2002
25.06	MICHAEL BOTTOM	USA	1989	23.12	JAN KARLSSON	SWE	2003	27.02	MARTIN HARRIS	NZL	2005
25.20	MASATERU IKEDA	JPN	2006	23.44	MICHAEL ROSS	USA	2004	27.13	TAKURO KOJIMA	JPN	2003
25.36	HIDEYUKI CHIGIRA	JPN	2005	23.64	JANNE VIRTANEN	FIN	2000	27.14	DEREK ROBINSON	USA	2004
25.38	MAKIO ENDO	JPN	2004	23.70	PAULO TRINDADE	POR	2003	27.14	JIM HARVEY	USA	2001
25.41	STEPHANE MEYER	FRA	2006	23.75	DAN WEGNER	USA	2006	27.17	KLAUS ECKHOF	AUS	1995

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27.18	GIUSEPPE TIANO	ITA	2006	100 M. FLY		24.18	ROBERTO TARRICONE	ITA	2003		
27.30	MARCO ORSINI	ITA	2005	55.85	JIM HARVEY	USA	2001	24.26	JEAN MICHEL	FRA	2006
100 M.	BACK			56.32	MICHAEL ROSS	USA	2004	100 M.	FREE		
55.95	MICHAEL ROSS	USA	2004	56.59	TAIHEI SAKA	JPN	2003	52.07	KAI DITZEL	GER	2004
56.93	RON KARNAUGH	USA	2002	56.62	HIROYUKI NAKAMURA	JPN	2006	52.07	CYRO DELGADO	BRA	2002
57.69	CHRIS JONES	GBR	2006	56.73	MIKE SHAFFER	USA	2000	52.39	JOAKIM SJOHOLM	SWE	2004
58.20	JIM HARVEY	USA	2001	56.86	JOCHEN BRUHA	GER	2004	52.44	PAUL SMITH	USA	2001
58.25	CLAY BRITT	USA	1996	57.02	WILLIAM SPECHT	USA	1993	52.85	MARK REYNOLDS	GBR	2005
58.30	MATTHEW O'CONNOR	ESP	2006	57.12	CHARLIE JOHNSON	USA	2001	53.04	MARCEL EKKELBOOM	GER	2005
58.50	NICOLAS GRANGER	FRA	2002	57.15	RON KARNAUGH	USA	2003	53.20	METELLO SAVINO	ITA	2005
58.63	JEFF WELECHUK	CAN	2005	57.22	MARCEL EKKELBOOM	GER	2002	53.20	JACK GROSELLE	USA	1998
58.69	MARTIN HARRIS	NZL	2005	200 M.	FLY			53.25	RICK ABBOTT	USA	1995
58.78	GIUSEPPE TIANO	ITA	2006	2:04.50	BOBBY PATTEN	USA	1999	53.39	PETER MCKINNON	CAN	2005
200 M.	BACK			2:05.84	MIKE SHAFFER	USA	2000	53.39	RICARDO SANTOS	BRA	2003
2:00.34	RON KARNAUGH	USA	2002	2:06.23	ERIK HOCHSTEIN	USA	2003	200 M.	FREE		
2:04.21	CHRIS JONES	GBR	2006	2:06.48	WILLIAM SPECHT	USA	1994	1:53.03	KAI DITZEL	GER	2004
2:06.95	YOSHIHITO NAKAHAR	JPN	2005	2:06.87	TAIHEI SAKA	JPN	2003	1:55.11	F.SILVESTRI	ITA	2003
2:07.12	JEROME FRENTSOS	USA	2000	2:07.20	CHARLIE JOHNSON	USA	1999	1:56.06	CYRO DELGADO	BRA	2005
2:07.80	MARK VOGEL	DEN	2006	2:08.16	HIROYUKI NAKAMURA	JPN	2005	1:56.44	PAUL SMITH	USA	2001
2:08.54	MARCEL RINZLER	USA	2006	2:08.75	JEROME FRENTSOS	USA	2000	1:57.76	BRADLEY HOWE	USA	2004
2:08.57	JOHN KEPPELER	USA	2003	2:08.86	DENNIS BAKER	USA	2000	1:57.83	HESS YNTEMA	USA	1995
2:08.97	DARRYL FOLLOWS	NZL	2002	2:09.45	MARK MAGEE	USA	2006	1:57.91	MARK REYNOLDS	GBR	2005
2:09.04	JEFF WELECHUK	CAN	2005	100 M.	I.M.			1:57.92	MICHAEL PRUFERT	GER	2005
2:09.45	GIUSEPPE TIANO	ITA	2006	56.94	RON KARNAUGH	USA	2003	1:58.07	DAVID BOATWRIGHT	USA	2003
50 M.	BRST			58.36	MICHAEL ROSS	USA	2006	1:58.17	EDWIN VAN NORDEN	NED	2003
28.75	RON KARNAUGH	USA	2002	58.36	JIM HARVEY	USA	2001	400 M.	FREE		
28.77	WALLY DICKS	USA	1998	58.97	NICOLAS GRANGER	FRA	2002	4:00.67	KAI DITZEL	GER	2004
28.87	GERALD MORKEN	GER	1997	59.05	PETER BERMEL	GER	2002	4:05.30	F.SILVESTRI	ITA	2003
28.95	RON DEKKER	NED	2003	59.11	JEROME FRENTSOS	USA	2000	4:08.39	MIKE SHAFFER	USA	2005
29.05	ANDREA AGOSTINONE	ITA	2006	59.28	CLAY BRITT	USA	1998	4:09.10	WILLIAM SPECHT	USA	1999
29.37	NICK GILLINGHAM	GBR	2004	59.29	EDWIN VAN NORDEN	NED	1999	4:09.31	HESS YNTEMA	USA	1995
29.59	JOHANN HOHL	AUT	2006	59.43	HASSE NILSSON	SWE	2004	4:09.81	MICHAEL KLEIBER	GER	2003
29.70	EITA TSUMURA	JPN	2006	59.59	KAZUHIKO YAMAKAWA	JPN	2006	4:10.07	MICHAEL PRUFERT	GER	2005
29.89	HAJIME MORIMOTO	JPN	2004	200 M.	I.M.			4:11.94	GRAHAM WELBOURN	CAN	2003
29.90	FABIO CAVALLI	ITA	2005	2:03.29	RON KARNAUGH	USA	2002	4:13.17	RICARDO VALDIVIA	USA	2006
100 M.	BRST			2:07.21	JIM HARVEY	USA	2001	4:13.84	GEOFF GLASER	USA	2004
1:02.57	RON KARNAUGH	USA	2002	2:07.31	NICOLAS GRANGER	FRA	2004	800 M.	FREE		
1:02.62	NICK GILLINGHAM	GBR	2004	2:07.60	PETER BERMEL	GER	2002	8:31.69	KAI DITZEL	GER	2005
1:02.79	WALLY DICKS	USA	2000	2:08.21	EDWIN VAN NORDEN	NED	1999	8:33.16	F.SILVESTRI	ITA	2003
1:04.02	GERALD MORKEN	GER	1997	2:08.34	JEROME FRENTSOS	USA	2000	8:33.19	MICHAEL KLEIBER	GER	2003
1:04.37	RON DEKKER	NED	2003	2:08.79	CHRIS JONES	GBR	2006	8:38.31	MICHAEL PRUFERT	GER	2004
1:04.38	HAJIME MORIMOTO	JPN	2004	2:09.92	LORENZO BENUCCI	USA	2005	8:41.16	MIKE SHAFFER	USA	2006
1:04.68	ALBERTO MONTINI	ITA	2003	2:10.48	MARCEL RINZLER	USA	2006	8:41.68	RICARDO VALDIVIA	USA	2006
1:04.89	EITA TSUMURA	JPN	2006	2:10.84	ROBIN BREW	GBR	1997	8:46.43	GRAHAM WELBOURN	CAN	2003
1:05.52	ANDREA AGOSTINONE	ITA	2006	400 M.	I.M.			8:46.71	DENNIS BAKER	USA	2004
1:06.42	LORENZO BENUCCI	USA	2005	4:24.36	RON KARNAUGH	USA	2003	8:46.89	BRETT PHILLIPS	USA	2001
200 M.	BRST			4:34.06	JEROME FRENTSOS	USA	2000	8:49.83	HESS YNTEMA	USA	1995
2:16.49	NICK GILLINGHAM	GBR	2004	4:37.47	MARCEL RINZLER	USA	2006	1500 M.	FREE		
2:17.96	RON KARNAUGH	USA	2002	4:39.42	EDWIN VAN NORDEN	NED	1999	16:23.95	F.SILVESTRI	ITA	2003
2:20.26	WALLY DICKS	USA	2000	4:39.97	DARIUSZ WOLNY	POL	1999	16:28.84	MIKE SHAFFER	USA	2005
2:20.49	HAJIME MORIMOTO	JPN	2003	4:40.30	F.SILVESTRI	ITA	2002	16:37.00	KAI DITZEL	GER	2005
2:20.99	ALBERTO MONTINI	ITA	2005	4:40.84	ROBIN BREW	GBR	1997	16:37.00	MICHAEL KLEIBER	GER	2003
2:22.64	SERGE SCORE	CAN	1996	4:41.25	A.TIBERTI	ITA	2001	16:42.00	GEORGE TIDMARSH	USA	2003
2:24.48	JONATHAN BANVILLE	USA	2005	4:41.94	ROQUE SANTOS	USA	2006	16:51.71	HESS YNTEMA	USA	1995
2:24.58	ROQUE SANTOS	USA	2005	4:43.45	LORENZO BENUCCI	USA	2005	16:52.71	BOBBY PATTEN	USA	2003
2:25.66	PETER BERMEL	GER	2002	*****				17:04.30	A.LAVEGLIA	ITA	2006
2:25.83	NIGEL MASTERS	GBR	2006	*****				17:05.50	STEFANO SEGUITI	ITA	2002
50 M.	FLY			*****				17:05.75	LEN GUSHE	CAN	2005
24.48	JAN KARLSSON	SWE	2003	*****				50 M.	BACK		
25.23	BRIAN ALDERMAN	USA	2005	50 M.	FREE			27.28	ERIC ERICSON	USA	2002
25.29	MICHAEL ROSS	USA	2004	23.68	R.ALVES SANTOS	BRA	2003	27.44	J CLAY BRITT	USA	2001
25.30	HIDEYUKI CHIGIRA	JPN	2006	23.75	JOAKIM SJOHOLM	SWE	2003	27.46	FRITZ LEHMAN	USA	2002
25.32	WADE KING	USA	2002	23.83	METELLO SAVINO	ITA	2006	27.49	CRAIG NORREY	SUI	2005
25.41	RON KARNAUGH	USA	2002	23.87	CYRO DELGADO	BRA	2005	27.78	HIROYOSHI MAETOGE	JPN	2005
25.44	JIM HARVEY	USA	2001	23.90	JANNE VIRTANEN	FIN	2004	27.80	ANDREA TOJA	ITA	2006
25.55	KAZUHIKO YAMAKAWA	JPN	2004	24.00	PAUL SMITH	USA	2001	27.84	WILLIAM SPECHT	USA	1998
25.60	TAIHEI SAKA	JPN	2001	24.09	BRENT BARNES	JPN	1999	28.08	PETER MCKINNON	CAN	2005
25.66	HARTMUT BERNER	GER	2004	24.18	CHUCK PONTHER	USA	2005	28.33	JAY YARID	USA	2006

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

28.34 STEVE WOOD	USA	2004	56.18 WILLIAM SPECHT	USA	1998	24.80 LARRY FORSYTH	AUS	2005
100 M. BACK			56.62 HARTMUT BERNER	GER	2005	100 M. FREE		
57.66 ERIC ERICSON	USA	2002	56.82 TAIHEI SAKA	JPN	2004	53.04 MARCO COLOMBO	ITA	2005
58.28 J CLAY BRITT	USA	2003	57.53 ROBERTO TARRICONE	ITA	2003	53.61 BRENT BARNES	JPN	2005
59.26 WILLIAM SPECHT	USA	1998	57.56 MARCEL EKKELBOOM	GER	2005	53.76 DAVID BOATWRIGHT	USA	2006
59.91 HIROYOSHI MAETOGE	JPN	2005	57.65 ANDREA TOJA	ITA	2006	54.13 V.GALAVTINE	RUS	1998
59.94 EDWIN VAN NORDEN	NED	2003	57.77 PAUL CARTER	USA	2001	54.34 JACK GROSELLE	USA	2003
1:00.39 JAY YARID	USA	2006	58.05 MIKE SHAFFER	USA	2006	54.47 CYRO DELGADO	BRA	2006
1:00.46 PETER MCKINNON	CAN	2005	58.05 ROBERTO CLAUSI JR	BRA	2004	54.47 LARRY FORSYTH	AUS	2005
1:00.78 CHRIS STEVENSON	USA	2006	58.16 CYRO DELGADO	BRA	2002	54.50 PAUL SMITH	USA	2006
1:01.07 ANDREA TOJA	ITA	2006	200 M. FLY			54.62 G.GIGLIETTI	ITA	2006
1:01.11 DARIUSZ WOLNY	POL	2000	2:02.97 WILLIAM SPECHT	USA	1998	54.74 JOE REINHARDT	USA	2006
200 M. BACK			2:06.48 DENNIS BAKER	USA	2005	200 M. FREE		
2:08.26 ERIC ERICSON	USA	2002	2:07.64 MIKE SHAFFER	USA	2006	1:56.74 MARCUS MATTIOLI	BRA	2006
2:09.61 WILLIAM SPECHT	USA	1998	2:08.46 JAMES BELARDI	USA	1997	1:57.74 MARCO COLOMBO	ITA	2005
2:10.51 EDWIN VAN NORDEN	NED	2004	2:09.09 HESS YNTEMA	USA	1995	1:57.99 PAUL SMITH	USA	2004
2:10.73 LEN GUSHE	CAN	2005	2:11.38 A.LAVEGLIA	ITA	2006	2:00.13 TIM BRODERICK	USA	1996
2:11.17 FRITZ LEHMAN	USA	2002	2:12.65 A.TIBERTI	ITA	2004	2:00.16 DAVID BOATWRIGHT	USA	2006
2:11.38 CHRIS STEVENSON	USA	2006	2:13.12 OLIVIER GALLET	FRA	2006	2:01.47 BOB BUGG	USA	2004
2:13.44 DAVE TOWN	CAN	2002	2:13.20 MARC CHALANSONNET	FRA	2006	2:01.89 BRENT BARNES	JPN	2003
2:13.48 N.LECHEVALIER	FRA	2005	2:13.43 BOBBY PATTEN	USA	2003	2:01.98 LEE MENCH	USA	1997
2:13.93 PETER MCKINNON	CAN	2005	100 M. I.M.			2:02.33 FRANK CHRISTIAN	AUS	2005
2:15.37 WOJTECH BLECHAR	GER	2005	59.57 ROBERTO TARRICONE	ITA	2003	2:02.45 B.BORDONALI	ITA	2006
50 M. BRST			1:00.43 JOAKIM SJOHOLM	SWE	2004	400 M. FREE		
29.49 WOLFGANG JARMER	GER	2006	1:00.44 EDWIN VAN NORDEN	NED	2003	4:08.93 MARCUS MATTIOLI	BRA	2005
29.50 GERHARD AMMER	GER	1999	1:00.54 J CLAY BRITT	USA	2001	4:14.73 JIM MCCONICA	USA	1999
29.90 PLAMEN ALEXANDROV	USA	2001	1:00.80 MARCEL EKKELBOOM	GER	2005	4:18.03 JIMMY FURRER	SUI	2004
30.14 MARCO BOBBIO	ITA	2004	1:00.90 HARTMUT BERNER	GER	2005	4:18.13 B.BORDONALI	ITA	2006
30.15 ROBERTO TARRICONE	ITA	2004	1:01.14 ROBERTO CLAUSI JR	BRA	2004	4:18.44 TIM BRODERICK	USA	1996
30.16 PEDRO HERNANDEZ	PUR	2005	1:01.48 PAUL SMITH	USA	2001	4:20.25 STEVE SUSSEX	USA	2000
30.18 CHRIS WEISSMAN	USA	2003	1:01.63 DAVID ZUBERO	USA	2001	4:20.85 MARK DRENNEN	USA	2005
30.29 SEAN FRAMPTON	USA	2006	1:01.69 DAVE TOWN	CAN	2003	4:21.20 WILLIAM SPECHT	USA	2003
30.31 WALLY DICKS	USA	2003	200 M. I.M.			4:21.52 BRETT PHILLIPS	USA	2003
30.31 DON SMITH	USA	2001	2:12.25 JIM SORENSEN	USA	1998	4:22.18 FRANK CHRISTIAN	AUS	2005
100 M. BRST			2:12.86 EDWIN VAN NORDEN	NED	2006	800 M. FREE		
1:05.79 PLAMEN ALEXANDROV	USA	2002	2:13.04 DARIUSZ WOLNY	POL	2000	8:55.41 B.BORDONALI	ITA	2006
1:05.84 WALLY DICKS	USA	2006	2:13.33 DAVE TOWN	CAN	2003	8:56.08 TIM BRODERICK	USA	1996
1:06.21 CHRIS WEISSMAN	USA	2003	2:13.92 STEPHEN SMITH	USA	2006	8:59.81 MARK DRENNEN	USA	2005
1:06.50 RON SCHAFER	USA	1997	2:15.01 ANDERS RASMUSSEN	USA	2004	9:01.57 JIMMY FURRER	SUI	2004
1:06.51 PEDRO HERNANDEZ	PUR	2005	2:15.07 SPENCER ELDRED	USA	1996	9:07.63 STEVE SUSSEX	USA	2000
1:06.56 SEAN FRAMPTON	USA	2006	2:15.28 HESS YNTEMA	USA	1995	9:07.81 PASCAL MURCURI	FRA	2006
1:07.78 THOMAS LIGL	GER	2005	2:15.67 EDMUND GENDREAU	USA	2002	9:07.88 FRANK CHRISTIAN	AUS	2005
1:07.81 MARCO BOBBIO	ITA	2004	2:15.75 LEN GUSHE	CAN	2005	9:08.02 MATTHEW BAILEY	USA	2006
1:07.98 C.D. MILTENBERGER	USA	1993	400 M. I.M.			9:08.20 SIMON VEALE	GBR	2004
1:08.25 GREGORY OXLEY	USA	2001	4:37.02 DARIUSZ WOLNY	POL	2000	9:13.63 JIM MC CONICA	USA	1998
200 M. BRST			4:43.28 HESS YNTEMA	USA	1995	1500 M. FREE		
2:25.58 RON SCHAFER	USA	1997	4:44.38 DENNIS BAKER	USA	2005	16:43.02 MARCUS MATTIOLI	BRA	2006
2:26.59 WALLY DICKS	USA	2006	4:47.16 MIKE SHAFFER	USA	2005	16:51.21 JIM MCCONICA	USA	1999
2:26.93 PLAMEN ALEXANDROV	USA	2002	4:47.23 LEN GUSHE	CAN	2005	16:53.92 B.BORDONALI	ITA	2006
2:27.09 EDWIN VAN NORDEN	NED	2003	4:47.32 F.SILVESTRI	ITA	2003	16:56.31 MARK DRENNEN	USA	2004
2:28.17 CHRIS WEISSMAN	USA	2003	4:48.90 WOJTECH BLECHAR	GER	2005	17:00.23 JIMMY FURRER	SUI	2004
2:29.12 SEAN FRAMPTON	USA	2006	4:49.57 LINCOLN DJANG	USA	2003	17:13.48 DJAN MADRUGA	BRA	2006
2:29.51 ERIC WALDBAUER	USA	2001	4:50.21 DAVE TOWN	CAN	2004	17:19.87 TIM BRODERICK	USA	1996
2:29.54 J.MELLADO	FRA	2006	4:50.62 A.TIBERTI	ITA	2004	17:25.27 FRANK CHRISTIAN	AUS	2005
2:29.86 A.O DRISCOLL	GBR	2000	*****			17:32.60 STEFANO SEGUITI	ITA	2004
2:30.67 SPENCER ELDRED	USA	1996	M E N 45-49			17:34.40 SIMON VEALE	GBR	2005
50 M. FLY			*****			50 M. BACK		
25.13 HARTMUT BERNER	GER	2005	50 M. FREE			27.24 CLAY BRITT	USA	2006
25.43 ROBERTO TARRICONE	ITA	2004	24.02 BRENT BARNES	JPN	2006	27.58 CRAIG NORREY	SUI	2006
25.88 TAIHEI SAKA	JPN	2004	24.09 V.GALAVTINE	RUS	1998	27.99 STEVE WOOD	USA	2005
25.89 WILLIAM SPECHT	USA	1998	24.23 DMITRI KHODKO	RUS	2006	28.40 FRITZ LEHMAN	USA	2003
25.90 CHUCK PONTIER	USA	2005	24.42 JOE REINHARDT	USA	2006	28.73 HIROSHI SHIBUYA	JPN	2005
25.96 STEVE HILTABIDDLE	USA	2006	24.44 PAUL SMITH	USA	2004	28.80 MARCO COLOMBO	ITA	2006
26.01 PAUL SMITH	USA	2001	24.68 CYRO DELGADO	BRA	2006	28.80 V.GALAVTINE	FRA	2001
26.02 GABRIELE MAINI	ITA	2005	24.70 JAN KOEN ANTHONI	NED	1995	28.81 CASEY CLAFLIN	USA	1999
26.08 HIROSHI MIURA	JPN	2006	24.73 BILL SHERMAN	USA	2003	28.94 WILLIAM SPECHT	USA	2004
26.16 JOAKIM SJOHOLM	SWE	2004	24.75 G.GIGLIETTI	ITA	2006	29.12 WIESLAW MUSIAL	CAN	2006
100 M. FLY						100 M. BACK		

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58.48 CLAY BRITT	USA	2006	58.35 DENNIS BAKER	USA	2006	54.61 PAUL TREVISAN	USA	2003
1:00.09 FRITZ LEHMAN	USA	2003	59.14 PAUL SMITH	USA	2006	55.37 LEE MENCH	USA	2003
1:01.60 CRAIG NORREY	SUI	2006	59.63 PAUL MORRIS	GBR	2004	55.42 JACK GROSELLE	USA	2006
1:01.60 MARCO COLOMBO	ITA	2005	1:00.01 JAMES BALLARD	USA	2003	55.51 LARRY KRAUSER	USA	2003
1:01.81 WIESLAW MUSIAL	CAN	2003	1:00.09 JOHN VAN BUUREN	CAN	2003	55.71 BRUCE ROBERTSON	CAN	2003
1:02.16 PETER WIESE	GER	2006	1:00.71 V.GALAVTINE	RUS	1998	55.81 JIM MC CONICA	USA	2001
1:02.31 V.GALAVTINE	FRA	2000	1:01.13 TOM PERRIN	USA	1996	55.81 TERRY DOWNES	RSA	1999
1:02.63 PHILIPP DJANG	USA	2000	1:01.15 KEVIN MCCORMACK	USA	2000	55.83 PHILIPPE MORELLE	BEL	2006
1:03.19 CASEY CLAFLIN	USA	2000	200 M. FLY			55.95 JOHN VAN BUUREN	CAN	2005
1:03.26 WILLIAM SPECHT	USA	2003	2:06.40 DENNIS BAKER	USA	2006	55.95 ALEXANDER MILLS	GBR	2005
200 M. BACK			2:09.06 WILLIAM SPECHT	USA	2003	200 M. FREE		
2:12.10 WIESLAW MUSIAL	CAN	2003	2:09.58 MARCUS MATTIOLI	BRA	2006	1:58.37 JIM MCCONICA	USA	2000
2:13.36 FRITZ LEHMAN	USA	2003	2:15.14 HUGO BREGMAN	NED	2006	2:03.10 LARRY KRAUSER	USA	2003
2:13.42 DJAN MADRUGA	BRA	2005	2:16.86 JOHN CRAIG	USA	2000	2:03.80 LEE MENCH	USA	2003
2:16.30 PETER WIESE	GER	2006	2:17.30 PAUL MORRIS	GBR	2004	2:03.94 MARK DRENNEN	USA	2006
2:16.39 WILLIAM SPECHT	USA	2004	2:18.31 DAVID VANDAM	USA	2000	2:04.46 BRUCE ROBERTSON	CAN	2003
2:16.48 JAMES BALLARD	USA	2003	2:18.88 FRANK CHRISTIAN	AUS	2005	2:04.73 BRADFORD GANDEE	USA	2006
2:17.11 DARIUSZ WOLNY	POL	2005	2:19.28 KAZUKI YUZAWA	JPN	2005	2:05.27 SIMON VEALE	GBR	2006
2:18.86 SHAWN O'GORMAN	USA	2005	2:19.73 BOO GRANER GALLAS	USA	1996	2:05.49 GREG SHAW	USA	2004
2:19.12 PETER O'KEEFFE	USA	1998	100 M. I.M.			2:05.82 SPENCER ELDRED	USA	2006
2:19.21 ALAN GODFREY	USA	2003	1:00.29 MARCO COLOMBO	ITA	2006	2:05.91 JESUS DOMINGUEZ	ESP	2006
50 M. BRST			1:00.66 CLAY BRITT	USA	2006	400 M. FREE		
28.07 GREG PRICE	RSA	2005	1:02.20 GREGORY OXLEY	USA	2003	4:07.99 JIM MCCONICA	USA	2000
30.13 GLEN CHRISTIANSEN	SWE	2002	1:02.47 FRITZ LEHMAN	USA	2005	4:18.96 MARK DRENNEN	USA	2006
30.48 FALTMAN MAGNUS	SWE	2004	1:02.92 CYRO DELGADO	BRA	2006	4:26.37 LARRY KRAUSER	USA	2003
30.83 GREGORY OXLEY	USA	2003	1:02.99 TOM REUDY	USA	1999	4:27.55 JIM CLEMMONS	USA	2002
30.85 MASAOKI OTSUKI	JPN	2006	1:03.01 JOE REINHARDT	USA	2006	4:28.64 LEE MENCH	USA	2003
31.13 RONNY OLTNER	SWE	2005	1:03.09 ROBERT GOLDBLOOM	USA	2004	4:28.84 R TOD SPIEKER	USA	1999
31.24 LEE RIDER	USA	2001	1:03.22 DAVE TOWN	CAN	2006	4:29.87 SIMON VEALE	GBR	2006
31.32 GERHARD AMMER	GER	2003	1:03.22 V.GALAVTINE	FRA	2000	4:30.71 TIM ERICKSON	USA	2006
31.33 OLIVIER BORIOS	FRA	2004	200 M. I.M.			4:32.57 J.CLAUDE CHATARD	FRA	2005
31.67 DAVID GUTHRIE	USA	2005	2:15.40 MARCO COLOMBO	ITA	2006	4:32.79 WILSON MILLS	GBR	2003
100 M. BRST			2:16.53 DAVE TOWN	CAN	2006	800 M. FREE		
1:06.48 GLEN CHRISTIANSEN	SWE	2004	2:16.56 PAUL SMITH	USA	2004	8:44.51 JIM MCCONICA	USA	2000
1:07.77 GREGORY OXLEY	USA	2003	2:16.68 PETER WIESE	GER	2006	8:53.48 MARK DRENNEN	USA	2006
1:08.09 LEE RIDER	USA	2001	2:16.97 TOM REUDY	USA	1999	9:11.92 JIM CLEMMONS	USA	2002
1:08.40 JON BLANK	USA	2005	2:18.40 MARCUS MATTIOLI	BRA	2005	9:12.81 R TOD SPIEKER	USA	1998
1:08.54 THOMAS LIGL	GER	2006	2:18.75 GREGORY OXLEY	USA	2003	9:17.45 SIMON VEALE	GBR	2006
1:08.80 A.O'DRISCOLL	GBR	2005	2:18.76 KLAUS SPRANZ	GER	2005	9:24.76 LARRY KRAUSER	USA	2003
1:08.90 DAVID GUTHRIE	USA	2005	2:19.18 GREG DOZER	USA	2002	9:29.60 J.CLAUDE CHATARD	FRA	2005
1:09.21 DOUG MALCOLM	USA	2005	2:19.26 SIMON VEALE	GBR	2004	9:30.09 EDDIE RIACH	GBR	2004
1:09.23 MAGNUS FALTMAN	SWE	2004	400 M. I.M.			9:30.75 SVEN HOLST	GBR	2001
1:09.44 ROBERT STRAND	USA	1995	4:48.97 LINCOLN DJANG	USA	2004	9:31.18 SCOTT LAUTMAN	USA	2003
200 M. BRST			4:54.89 SIMON VEALE	GBR	2004	1500 M. FREE		
2:30.33 DAVID GUTHRIE	USA	2005	4:56.40 PAUL CARTER	USA	2004	16:33.02 JIM MCCONICA	USA	2000
2:31.41 GREGORY OXLEY	USA	2003	4:57.31 GREG DOZER	USA	2002	17:32.20 JIM CLEMMONS	USA	2001
2:31.73 GLEN CHRISTIANSEN	SWE	2002	4:57.34 TOM REUDY	USA	1999	17:36.51 R TOD SPIEKER	USA	1999
2:32.29 JON BLANK	USA	2005	4:57.94 LORENZO MARUGO	ITA	1998	17:37.83 SIMON VEALE	GBR	2006
2:33.37 SPENCER ELDRED	USA	2003	4:59.97 MARK DRENNEN	USA	2005	17:48.71 LARRY KRAUSER	USA	2003
2:33.67 A.O'DRISCOLL	GBR	2004	5:00.60 B.BORDONALI	ITA	2006	17:58.01 LARRY WOOD	USA	2004
2:33.83 PAT ALLENDER	USA	2003	5:02.51 WILLIAM SPECHT	USA	2004	18:04.37 STEVEN PRESCOTT	NZL	2004
2:34.24 RICK COLELLA	USA	2000	5:02.52 RICK COLELLA	USA	2000	18:07.49 MIKE SHERRILL	USA	2001
2:34.32 BARRY O'BRIEN	GBR	2003	*****			18:15.20 RICK WALKER	USA	2000
2:34.41 ROBERT STRAND	USA	1995	M E N 50-54			18:15.81 SVEN HOLST	GBR	2001
50 M. FLY			*****			50 M. BACK		
25.84 PAUL CARTER	USA	2003	50 M. FREE			28.96 V.GALAVTINE	FRA	2004
26.20 PAUL SMITH	USA	2006	24.26 PAUL TREVISAN	USA	2003	29.20 MIKE MCINTYRE	CAN	2004
26.52 MARCO COLOMBO	ITA	2006	24.74 V.GALAVTINE	FRA	2003	29.23 JOHN VAN BUUREN	CAN	2004
26.55 RAMON VOLCAN	VEN	2006	24.86 PHILIPPE MORELLE	BEL	2006	29.30 TOM WOLF	USA	2004
26.82 BRENT BARNES	JPN	2003	25.00 LARRY KRAUSER	USA	2003	29.50 HUGH WILDER	USA	1997
26.84 MARIO LLORET	ESP	2004	25.09 EMIL PLESNIK	GER	1993	29.84 MARK PUGLIESE	USA	2003
26.84 RICK ABBOTT	USA	2003	25.14 BARRY ROTH	USA	2005	30.05 ANDRE STEYNBERG	RSA	2006
26.87 WILLIAM SPECHT	USA	2003	25.21 JOHN FERRIS	USA	2000	30.14 ROBERT SMITH	USA	1994
27.00 ROBERT GOLDBLOOM	USA	2004	25.27 JACK GROSELLE	USA	2005	30.16 PHILIPP DJANG	USA	2005
27.00 PAUL MORRIS	GBR	2004	25.29 ROGER HAWKINS	USA	2000	30.21 TIM BIRNIE	USA	1997
100 M. FLY			25.42 MIKE MCINTYRE	CAN	2004	100 M. BACK		
57.17 PAUL CARTER	USA	2003	100 M. FREE			1:01.48 TOM WOLF	USA	2004
58.10 WILLIAM SPECHT	USA	2004				1:02.39 V.GALAVTINE	FRA	2004

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

1:03.77 PHILIPP DJANG	USA 2006	1:01.40 ROBERT HANSEN	USA 2004	56.51 RICH ABRAHAMS	USA 2001
1:04.17 HUGH WILDER	USA 1997	1:01.64 SCOTT LAUTMAN	USA 2005	56.74 STEVE BOROWSKI	USA 2002
1:04.52 JOHN VAN BUUREN	CAN 2005	1:02.21 FRED SCHLICHER	USA 2001	57.30 S.D'ALESSANDRO	ITA 1995
1:05.05 TIM BIRNIE	USA 1997	1:02.28 LEONARD BIELICZ	SWE 2003	57.85 MICHAEL AHERN	USA 2000
1:05.06 JOHN MARCH	CAN 2003	1:02.46 V.GALAVTINE	FRA 2004	58.25 TOM GEIMAN	USA 2004
1:05.14 MIKE MCINTYRE	CAN 2004	1:02.49 DAVE DICKSON	CAN 2003	58.51 J.CHATARD	FRA 2006
1:05.16 MARK PUGLIESE	USA 2003	1:02.54 BOO GRANER GALLAS	USA 1997	58.64 LEONARD BIELICZ	SWE 2006
1:05.56 SIMON VEALE	GBR 2006	200 M. FLY		58.66 TIM BIRNIE	USA 2000
200 M. BACK		2:18.02 SCOTT LAUTMAN	USA 2004	58.90 DAVID OATES	USA 2005
2:14.03 TOM WOLF	USA 2004	2:18.88 JOHN CRAIG	USA 2004	200 M. FREE	
2:20.01 PHILIPP DJANG	USA 2005	2:20.26 GREG SHAW	USA 2003	2:03.40 S.D'ALESSANDRO	ITA 1995
2:20.42 R TOD SPIEKER	USA 1999	2:20.86 JIM OCONNOR	USA 2003	2:03.64 JAMES MCCONICA	USA 2005
2:20.86 JIM MC CONICA	USA 2002	2:21.58 BOO GRANER GALLAS	USA 1997	2:06.20 TOD SPIEKER	USA 2003
2:22.12 MIKE MCINTYRE	CAN 2004	2:21.70 BART MCDERMOTT	USA 2006	2:06.94 TIM BIRNIE	USA 2000
2:22.59 V.GALAVTINE	FRA 2004	2:22.20 JIM O'CONNOR	USA 2006	2:08.28 J.CHATARD	FRA 2006
2:22.81 JOHN MARCH	CAN 2003	2:22.36 FRED SCHLICHER	USA 2002	2:09.76 DUNCAN MCCREADIE	GBR 2002
2:23.80 TIM BIRNIE	USA 1998	2:24.21 TIM ERICKSON	USA 2006	2:11.64 RON ARMSTRONG	CAN 2006
2:24.54 EDDIE RIACH	GBR 2004	2:25.28 TAKEO HIRAMOTO	JPN 2003	2:11.86 JIM CLEMMONS	USA 2005
2:25.53 MARK PUGLIESE	USA 2003	100 M. I.M.		2:12.88 HOMER LANE	USA 2004
2:25.53 ROB WEYHENKE	NED 2003	1:03.54 TIMOTHY SHEAD	RSA 2002	2:13.20 JACK GEOGHEGAN	USA 1997
50 M. BRST		1:03.57 TOM WOLF	USA 2004	400 M. FREE	
31.24 DON MC KENZIE	USA 1997	1:03.61 JOHN VAN BUUREN	CAN 2005	4:24.92 JIM MCCONICA	USA 2006
31.64 RONNY OLTNER	SWE 2006	1:03.65 TOM REUDY	USA 2006	4:28.73 TOD SPIEKER	USA 2003
31.72 TIMOTHY SHEAD	RSA 2002	1:03.75 GREG SHAW	USA 2003	4:28.97 J.CHATARD	FRA 2006
31.76 EDWARD PINHEIRO	BRA 2001	1:04.45 RONNY OLTNER	SWE 2006	4:32.83 TIM BIRNIE	USA 2000
31.95 ROBERT STRAND	USA 1998	1:04.63 ROBERT WEYHENKE	NED 2005	4:36.89 JOHN CALVERT	USA 2001
32.20 SPENCER ELDRED	USA 2006	1:04.86 SIMON VEALE	GBR 2006	4:37.93 JIM CLEMMONS	USA 2005
32.23 PAUL HENNE	USA 1997	1:04.97 ROBERT STRAND	USA 1996	4:39.95 DUNCAN MCCREADIE	GBR 2001
32.24 ALEXANDER MILLS	GBR 2005	1:05.05 DONALD GRAHAM	USA 2004	4:41.64 RON ARMSTRONG	CAN 2006
32.32 HENRIQUE JOCHIMS	BRA 2001	200 M. I.M.		4:42.99 D.UIJTENBOGAART	NED 2002
32.75 THOMAS PAEHR	GER 2005	2:18.68 SIMON VEALE	GBR 2006	4:43.83 RICK WALKER	USA 2006
100 M. BRST		2:19.27 TOM WOLF	USA 2004	800 M. FREE	
1:09.38 RONNY OLTNER	SWE 2006	2:19.63 TOM REUDY	USA 2006	9:03.00 JIM MCCONICA	USA 2006
1:09.88 TIMOTHY SHEAD	RSA 2002	2:20.35 GREG SHAW	USA 2003	9:13.15 TOD SPIEKER	USA 2003
1:09.96 ROBERT STRAND	USA 1996	2:20.68 JOHN FERRIS	USA 2000	9:32.94 D.UIJTENBOGAART	NED 2002
1:10.23 DON MC KENZIE	USA 1997	2:21.49 ROBERT WEYHENKE	NED 2005	9:33.29 JIM CLEMMONS	USA 2005
1:11.25 SPENCER ELDRED	USA 2006	2:22.04 JIM MC CONICA	USA 2002	9:34.94 JOHN CALVERT	USA 2001
1:12.75 THOMAS PAEHR	GER 2005	2:22.23 TIMOTHY SHEAD	RSA 2002	9:36.86 J.CHATARD	FRA 2006
1:13.01 ROB WEYHENKE	NED 2003	2:24.02 RONNY OLTNER	SWE 2006	9:42.09 RICK WALKER	USA 2005
1:13.26 UWE KUSSATZ	GER 2005	2:24.27 SPENCER ELDRED	USA 2006	9:47.45 SANDY GALLETLY	GBR 1997
1:13.33 NEVILLE BARTON	GBR 2006	400 M. I.M.		9:49.27 ANDY WILSON	GBR 2001
1:13.57 MAURO BORDOVSKY	USA 2006	4:57.52 LORENZO MARUGO	ITA 2004	9:55.48 DUNCAN MCCREADIE	GBR 2001
200 M. BRST		4:58.93 JIM MC CONICA	USA 2001	1500 M. FREE	
2:33.71 LORENZO MARUGO	ITA 2004	4:59.39 MARK DRENNEN	USA 2006	17:14.15 JAMES MCCONICA	USA 2005
2:34.71 ROBERT STRAND	USA 1996	5:03.99 TOM REUDY	USA 2006	17:35.21 TOD SPIEKER	USA 2003
2:35.88 TOM REUDY	USA 2006	5:04.49 SIMON VEALE	GBR 2006	17:56.15 J.CHATARD	FRA 2006
2:36.57 TIMOTHY SHEAD	RSA 2002	5:05.09 GREG SHAW	USA 2003	18:02.40 JIM CLEMMONS	USA 2005
2:37.80 SPENCER ELDRED	USA 2006	5:06.89 JIM CLEMMONS	USA 2003	18:27.16 D.UIJTENBOGAART	NED 2002
2:40.66 TAKEO HIRAMOTO	JPN 2003	5:11.33 ROB WEYHENKE	NED 2003	18:43.40 JACK MARTIN	USA 2006
2:40.78 ROBERT WEYHENKE	NED 2005	5:12.31 R TOD SPIEKER	USA 1999	18:51.69 JAMES MCCLEERY	USA 2003
2:41.11 MARK DRENNEN	USA 2006	5:13.01 TIMOTHY SHEAD	RSA 2002	18:51.83 SANDY GALLETLY	GBR 1998
2:42.14 THOMAS PAEHR	GER 2005	*****		19:11.21 ANDY WILSON	GBR 2001
2:43.04 ROBERT BROWN	USA 2005	M E N 55-59		19:15.97 DAVID GRAY	USA 2003
50 M. FLY		*****		50 M. BACK	
26.79 GREG SHAW	USA 2003	50 M. FREE		30.25 HUGH WILDER	USA 2003
27.04 DONALD GRAHAM	USA 2006	24.70 PAUL TREVISAN	USA 2006	30.35 ROBERT SMITH	USA 1999
27.30 JOHN VAN BUUREN	CAN 2004	25.00 RICH ABRAHAMS	USA 2001	30.40 TIM BIRNIE	USA 2000
27.49 FREDERICK EHMKE	USA 2004	25.55 STEVE BOROWSKI	USA 2002	30.56 HEINZ BOKNECHT	GER 1995
27.52 RICK ABBOTT	USA 2005	25.73 ALEXANDER MILLS	GBR 2006	30.96 JIM ADAMS	NED 2006
27.54 PHILIPPE MORELLE	BEL 2006	25.87 TOM GEIMAN	USA 2004	30.96 TAKEO HIRAMOTO	JPN 2005
27.55 STEVE BOROWSKI	USA 1998	26.02 LEONARD BIELICZ	SWE 2006	31.57 J.CLAUDE LESTIDEA	FRA 2004
27.62 MARK PUGLIESE	USA 2003	26.27 DANIEL ROGACKI	USA 2002	31.67 RICHARD ALEXANDER	USA 2000
27.63 ROBERT HANSEN	USA 2004	26.39 MIKE AHERN	USA 2000	31.74 RICHARD BURNS	USA 1998
27.63 V.GALAVTINE	FRA 2003	26.45 J.CHATARD	FRA 2006	31.80 PETER O'BRIEN	CAN 2006
100 M. FLY		26.59 TERENCE DOWNES	RSA 2004	100 M. BACK	
1:00.08 JOHN MCCALL	USA 2003	100 M. FREE		1:04.89 TIM BIRNIE	USA 2000
1:00.32 GREG SHAW	USA 2005	55.12 PAUL TREVISAN	USA 2006	1:05.56 HUGH WILDER	USA 2002
1:00.82 JOHN VAN BUUREN	CAN 2005			1:06.62 JIM ADAMS	NED 2006

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1:08.34 RICHARD BURNS	USA 1998	1:04.37 ERIC HENDERSON	GBR 2005	1:01.05 DUNCAN MCCREADIE	GBR 2005
1:08.48 R TOD SPIEKER	USA 2003	1:04.55 C.STARZEC	FRA 2005	1:01.15 ALAN BROWN	AUS 2006
1:08.53 JOHN CALVERT	USA 2000	1:04.64 JOEL BURNS	USA 2001	1:01.50 TONY STRAHAN	AUS 2003
1:09.48 PETER O'BRIEN	CAN 2006	1:05.31 ROBERT POILETMAN	USA 2002	1:01.51 PETER BERGENGREN	SWE 2000
1:09.64 TAKEO HIRAMOTO	JPN 2005	1:05.53 TAKEO HIRAMOTO	JPN 2006	1:01.72 TOM LANDIS	USA 2002
1:10.04 DANIEL ROGACKI	USA 2002	200 M. FLY		1:01.97 KUNIHIO IWASAKI	JPN 2004
1:10.26 FOLKERT MEEUW	GER 2002	2:22.13 JAMES MCCONICA	USA 2005	1:02.05 IAN SMITH	CAN 2003
200 M. BACK		2:22.73 FRED SCHLICHER	USA 2003	200 M. FREE	
2:20.59 JAMES MCCONICA	USA 2005	2:23.07 GREG SHAW	USA 2006	2:11.78 DUNCAN MCCREADIE	GBR 2006
2:21.80 TOD SPIEKER	USA 2003	2:28.52 ROBERT POILETMAN	USA 2001	2:12.18 JOHN CALVERT	USA 2005
2:22.25 JIM ADAMS	NED 2006	2:31.04 TAKEO HIRAMOTO	JPN 2006	2:14.22 RICH ABRAHAMS	USA 2006
2:24.72 TIM BIRNIE	USA 2000	2:33.27 DOUGLAS MILLER	USA 2005	2:15.84 TOM LANDIS	USA 2002
2:26.64 JOHN CALVERT	USA 2000	2:33.74 JIM CLEMMONS	USA 2005	2:17.36 DRURY GALLAGHER	USA 1998
2:29.64 HUGH WILDER	USA 2004	2:35.30 JOEL BURNS	USA 2001	2:18.44 TONY CHERRINGTON	GBR 2002
2:32.73 RICHARD BURNS	USA 1998	2:36.70 KOJI IWAMOTO	JPN 2000	2:18.58 JEFF FARRELL	USA 2001
2:33.21 BARRY YOUNG	NZL 1994	2:37.43 CLAUS KOCH	CAN 2001	2:18.84 RICHARD BURNS	USA 2004
2:33.86 IVAN MYALL	GBR 2004	100 M. I.M.		2:19.03 DAVID QUIGGIN	USA 2006
2:34.21 PETER O'BRIEN	CAN 2006	1:03.81 GREG SHAW	USA 2006	2:19.27 VITTORIO ERMIRIO	ITA 2005
50 M. BRST		1:06.13 ALEXANDER MILLS	GBR 2006	400 M. FREE	
32.18 ROBERT STRAND	USA 2001	1:06.45 DANIEL ROGACKI	USA 2002	4:40.45 DUNCAN MCCREADIE	GBR 2006
32.44 ALEXANDER MILLS	GBR 2006	1:07.15 ROBERT STRAND	USA 2001	4:43.69 JOHN CALVERT	USA 2005
33.03 C.STARZEC	FRA 2005	1:07.42 LEONARD BIELICZ	SWE 2006	4:47.93 SANDY GALLETTY	GBR 2002
33.17 HIROSHI KOTEGAWA	JPN 1993	1:07.54 C.STARZEC	FRA 2005	4:51.98 VITTORIO ERMIRIO	ITA 2003
33.54 PETER ANDERSEN	USA 1999	1:07.62 GEORGE SCHMIDT	USA 2005	4:54.94 DRURY GALLAGHER	USA 1998
33.77 TOSHIHARU FUJII	JPN 2005	1:07.90 JAMES MCCONICA	USA 2005	4:56.07 DON DAVIS	USA 2005
33.77 MANUEL SANGUILY	USA 1989	1:08.00 MICHAEL AHERN	USA 2000	4:56.47 EDWARD CAZALET	USA 2003
33.97 ALLEN STARK	USA 2004	1:08.17 RON ARMSTRONG	CAN 2006	4:56.69 GRAHAM JOHNSTON	USA 1995
34.01 JIM DRAGON	USA 1999	200 M. I.M.		4:56.83 TOM LANDIS	USA 2002
34.03 JOHN LIRON	GBR 2004	2:21.05 GREG SHAW	USA 2006	5:00.55 JAMES MCCLEERY	USA 2006
100 M. BRST		2:26.70 JAMES MCCONICA	USA 2005	800 M. FREE	
1:11.53 ROBERT STRAND	USA 2001	2:27.19 JOHN CALVERT	USA 2000	9:43.83 DUNCAN MCCREADIE	GBR 2005
1:13.54 C.STARZEC	FRA 2005	2:27.94 FRED SCHLICHER	USA 2003	9:51.72 SANDY GALLETTY	GBR 2002
1:14.53 DANIEL ROGACKI	USA 2002	2:29.17 DANIEL ROGACKI	USA 2002	9:58.02 VITTORIO ERMIRIO	ITA 2005
1:15.25 TOSHIHARU FUJII	JPN 2005	2:30.83 TAKEO HIRAMOTO	JPN 2005	9:58.99 JAMES MCCLEERY	USA 2006
1:15.69 ALLEN STARK	USA 2004	2:31.33 C.STARZEC	FRA 2006	10:10.78 DRURY GALLAGHER	USA 1998
1:15.80 JOHN DERR	USA 2004	2:31.79 JIM CLEMMONS	USA 2006	10:17.45 EDWARD CAZALET	USA 2003
1:15.87 TAKEO HIRAMOTO	JPN 2005	2:32.42 STEVE HECK	USA 2004	10:22.45 JOACHIM HINTZE	GER 2003
1:16.28 HUBIE KERNS	USA 2006	2:32.50 ROBERT STRAND	USA 2002	10:27.62 GRAHAM JOHNSTON	USA 1995
1:16.32 MANUEL SANGUILY	USA 1988	400 M. I.M.		10:28.10 TOM LANDIS	USA 2002
1:17.05 RICK WALKER	USA 2005	5:08.15 JAMES MCCONICA	USA 2005	10:28.70 JEAN CLAUDE FAURE	FRA 2005
200 M. BRST		5:13.29 R TOD SPIEKER	USA 2003	1500 M. FREE	
2:38.76 ROBERT STRAND	USA 2001	5:14.10 JIM CLEMMONS	USA 2005	18:54.83 DUNCAN MCCREADIE	GBR 2005
2:45.16 JOHN GORDON	GBR 2001	5:23.15 RON ARMSTRONG	CAN 2006	19:01.87 SANDY GALLETTY	GBR 2002
2:46.29 TAKEO HIRAMOTO	JPN 2005	5:26.62 MIKE MORROW	CAN 2005	19:03.57 VITTORIO ERMIRIO	ITA 2003
2:46.29 JIM CLEMMONS	USA 2005	5:28.51 D.UIJTENBOGAART	NED 2002	19:15.89 EDWARD CAZALET	USA 2003
2:46.68 C.STARZEC	FRA 2006	5:29.09 SANDY GALLETTY	GBR 1997	19:22.76 JAMES MCCLEERY	USA 2006
2:47.66 GERSHON SHEFA	ISR 2001	5:30.62 DRURY GALLAGHER	USA 1995	19:48.44 GRAHAM JOHNSTON	USA 1995
2:47.88 ALLEN STARK	USA 2004	5:31.03 DANIEL ROGACKI	USA 2002	20:08.21 TOM LANDIS	USA 2006
2:48.28 JOHN DERR	USA 2004	5:32.08 STEVE HECK	USA 2004	20:10.04 GRAHAM SHORT	GBR 2006
2:48.73 MIKE MORROW	CAN 2005	*****		20:11.11 LARRY RAFFAELLI	USA 2004
2:49.21 TEGZE HARASZTI	USA 1998	*****		20:12.99 RICHARD SMITH	USA 2005
50 M. FLY		M E N 60-64		50 M. BACK	
27.21 STEVE BOROWSKI	USA 2002	*****		31.31 ROBERT SMITH	USA 2004
27.25 GREG SHAW	USA 2006	50 M. FREE		31.65 RICHARD BURNS	USA 2003
27.74 RICH ABRAHAMS	USA 2001	24.90 RICH ABRAHAMS	USA 2006	32.23 J.LESTIDEAU	FRA 2006
28.19 LEONARD BIELICZ	SWE 2006	26.31 JEFF FARRELL	USA 2000	32.56 VINUS VAN BAALEN	CAN 2002
28.31 TOM GEIMAN	USA 2004	26.52 ROBERT SMITH	USA 2003	33.07 RICHARD ALEXANDER	USA 2004
28.37 JOEL BURNS	USA 2001	27.03 VINUS VANBAALEN	USA 2003	33.09 JOSEF CSIKANY	HUN 2005
28.57 JIM DRAGON	USA 1999	27.04 IAN SMITH	CAN 2005	33.12 LUCIEN GAUCHE	FRA 2002
28.78 C.STARZEC	FRA 2006	27.06 KATSUKI ISHIHARA	JPN 2000	33.14 LUIZ FIGUEIREDO	BRA 2004
28.89 DON MEHL	USA 2006	27.27 ALAN BROWN	AUS 2006	33.33 NEIL JACKSON	GBR 2006
28.92 JOSEP CLARET	ESP 1999	27.42 PETER BERGENGREN	SWE 1999	33.36 GARY CHASE	USA 2002
100 M. FLY		27.42 CAV CAVANAUGH	USA 1998	100 M. BACK	
1:00.35 GREG SHAW	USA 2006	27.50 JOSE FERRAZ	BRA 2005	1:08.85 RICHARD BURNS	USA 2003
1:02.74 STEVE BOROWSKI	USA 2002	100 M. FREE		1:09.20 ROBERT SMITH	USA 2004
1:03.51 LEONARD BIELICZ	SWE 2006	57.22 RICH ABRAHAMS	USA 2006	1:12.06 GARY CHASE	USA 2002
1:03.72 SHIGEO ASANO	JPN 2004	59.90 DAVID QUIGGIN	USA 2004	1:12.56 J.LESTIDEAU	FRA 2006
1:03.78 RICH ABRAHAMS	USA 2001	1:00.24 JEFF FARRELL	USA 2000	1:13.49 KURT FREI	SUI 2006

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1:13.55 JACK BEATTIE	USA 1994	1:09.50 CHITOSHI KONISHI	JPN 2001	1:02.84 IAN SMITH	CAN 2006
1:13.66 BARRY YOUNG	NZL 2001	1:10.83 DOUG MILLER	USA 2006	1:04.30 RONALD JOHNSON	USA 1998
1:13.91 LUCIEN GAUCHE	FRA 2003	1:11.04 TOMOYASU IIDA	JPN 2005	1:04.76 MASATO YOSHINO	JPN 2004
1:14.33 JOHN SMITH	USA 2001	200 M. FLY		1:04.87 BOB BAILIE	USA 2001
1:14.72 LUIZ FIGUEIREDO	BRA 2002	2:34.65 ROBERT POILETMAN	USA 2003	1:04.98 IAN MCLEAN	GBR 2006
200 M. BACK		2:37.79 DEREK PARR	GBR 2005	200 M. FREE	
2:30.96 JOHN CALVERT	USA 2005	2:37.97 KOJI IWAMOTO	JPN 2002	2:18.71 JEFF FARRELL	USA 2002
2:34.17 RICHARD BURNS	USA 2003	2:40.08 DOUG MILLER	USA 2006	2:22.07 GRAHAM JOHNSTON	USA 1997
2:36.88 EDWARD CAZALET	USA 2003	2:43.27 J.LESTIDEAU	FRA 2006	2:22.13 ROBERTO ALBERICHE	ESP 1996
2:37.11 DON MCINTOSH	USA 2003	2:46.18 GUNTER SCHOPKE	GER 2000	2:24.45 KAZUYA NISHINO	JPN 2002
2:37.23 JOSEF CSIKANY	HUN 2005	2:47.52 HUGH RODDIN	USA 2002	2:25.34 CAV CAVANAUGH	USA 2002
2:37.63 BARRY YOUNG	NZL 2001	2:47.61 RICHARD KITCHELL	USA 2004	2:26.70 DAVID HARRISON	USA 2002
2:40.75 JACK BEATTIE	USA 1994	2:49.56 DRURY GALLAGHER	USA 1998	2:27.03 RAYMOND STOKES	GBR 2006
2:42.44 MICHAEL MCCOLLY	USA 2006	2:51.76 BARRY YOUNG	NZL 2003	2:27.12 FABRIZIO MOMONI	ITA 2003
2:42.89 DUNCAN MCCREADIE	GBR 2005	100 M. I.M.		2:27.72 MASATO YOSHINO	JPN 2005
2:43.48 GARY CHASE	USA 2000	1:08.70 ROBERT STRAND	USA 2006	2:27.86 IAN MCLEAN	GBR 2005
50 M. BRST		1:09.39 ROBERT SMITH	USA 2003	400 M. FREE	
33.54 ROBERT STRAND	USA 2006	1:09.72 RICH ABRAHAMS	USA 2006	5:06.60 FABRIZIO MOMONI	ITA 2003
33.64 YOSHIHIKO OSAKI	JPN 2000	1:09.93 JACK KELSO	CAN 1999	5:09.09 GRAHAM JOHNSTON	USA 1996
33.71 PETER ANDERSEN	USA 2003	1:09.95 DRURY GALLAGHER	USA 1998	5:09.96 RAYMOND STOKES	GBR 2004
34.24 GERSHON SHEFA	ISR 2003	1:10.34 BRUCE MOHL	USA 2006	5:11.98 DAVID HARRISON	USA 2002
34.41 HIROSHI KOTEGAWA	JPN 1996	1:11.10 KOJI IWAMOTO	JPN 2002	5:12.62 DICK STEWART	USA 2006
34.54 AKIO SUGIYAMA	JPN 1995	1:11.21 GERSHON SHEFA	ISR 2003	5:16.00 RAFAEL PEREZ	ESP 2004
34.68 DIETER HOFEL	GER 2006	1:11.25 RICHARD BURNS	USA 2003	5:17.17 NIC GEERS	NED 2003
34.76 OSAMU MAEDA	JPN 2006	1:11.69 J.LESTIDEAU	FRA 2006	5:21.67 GAYLORD HOPKINS	USA 2006
34.87 JOZEF KLUKOWSKI	POL 2006	200 M. I.M.		5:22.35 IAN MCLEAN	GBR 2005
34.88 EGON HENNINGER	GER 2000	2:30.48 JOHN CALVERT	USA 2005	5:22.68 CAV CAVANAUGH	USA 2003
100 M. BRST		2:35.04 JACK KELSO	CAN 1999	800 M. FREE	
1:14.47 ROBERT STRAND	USA 2006	2:35.12 DUNCAN MCCREADIE	GBR 2005	10:35.13 GRAHAM JOHNSTON	USA 1996
1:15.92 ALBERT KOSTITSIN	FIN 2002	2:35.95 EDWARD CAZALET	USA 2003	10:44.95 DAVID HARRISON	USA 2002
1:16.56 PETER ANDERSEN	USA 2003	2:37.14 GERSHON SHEFA	ISR 2003	10:45.50 DICK STEWART	USA 2006
1:16.89 DAVID GILDEA	USA 2003	2:37.31 ROBERT STRAND	USA 2006	10:50.08 RAYMOND STOKES	GBR 2004
1:17.85 JACK KELSO	CAN 1999	2:40.02 KOJI IWAMOTO	JPN 2002	10:56.30 FABRIZIO MOMONI	ITA 2003
1:17.97 GERSHON SHEFA	ISR 2003	2:40.14 DRURY GALLAGHER	USA 1998	11:06.67 BURWELL JONES	USA 2002
1:18.08 DRURY GALLAGHER	USA 1998	2:40.32 DOUG MILLER	USA 2006	11:14.72 RAFAEL PEREZ	ESP 2003
1:18.35 KENNETH FROST JR	USA 2005	2:41.70 BRUCE MOHL	USA 2006	11:15.41 KARL DONOGHUE	CAN 2005
1:18.77 JOHN KORTHEUER	USA 1991	400 M. I.M.		11:15.54 ERNIE LESKOVITZ	USA 2003
1:19.44 DIETER HOFEL	GER 2005	5:25.65 NICK LECLERCQ	USA 2006	11:20.66 DAVID RADCLIFF	USA 1999
200 M. BRST		5:34.43 EDWARD CAZALET	USA 2003	1500 M. FREE	
2:44.90 ROBERT STRAND	USA 2006	5:35.46 J.LESTIDEAU	FRA 2006	19:53.18 GRAHAM JOHNSTON	USA 1996
2:53.05 DRURY GALLAGHER	USA 1998	5:38.91 SANDY GALLETLY	GBR 2002	20:36.17 DICK STEWART	USA 2006
2:53.21 DAVID GILDEA	USA 2003	5:39.12 DRURY GALLAGHER	USA 1999	20:49.25 ERNIE LESKOVITZ	USA 2003
2:53.45 KENNETH FROST	USA 2004	5:40.51 DOUG MILLER	USA 2006	20:54.80 BURWELL JONES	USA 2002
2:53.65 PETER ANDERSEN	USA 2003	5:42.86 DUNCAN MCCREADIE	GBR 2005	20:56.70 FABRIZIO MOMONI	ITA 2003
2:55.92 PAUL WYATT	AUS 2006	5:46.43 PAUL WYATT	AUS 2006	20:58.60 DAVID HARRISON	USA 2002
2:56.18 MICHAEL MOLONEY	AUS 1999	5:46.89 GIAMPIERO FOSSATI	ITA 2004	21:26.23 RAYMOND STOKES	GBR 2006
2:56.90 RAINER OPITZ	GER 2002	5:49.45 JACK KELSO	CAN 1999	21:29.45 JOHN CRISP	AUS 2004
2:56.97 TEGZE HARASZTI	USA 2001	*****		21:41.05 FRANK WILLIAMS	USA 2005
2:57.08 THOMAS WALKER	GBR 1995	M E N 65-69		21:50.02 DAVID RADCLIFF	USA 2003
50 M. FLY		*****		50 M. BACK	
28.31 RICH ABRAHAMS	USA 2006	50 M. FREE		32.35 LUIZ FIGUEIREDO	BRA 2006
29.13 JOSEP CLARET	ESP 2004	27.05 JEFF FARRELL	USA 2002	33.38 YOSHI OYAKAWA	USA 1999
29.33 JIM DRAGON	USA 2005	27.36 IAN SMITH	CAN 2006	33.90 GARY CHASE	USA 2005
29.48 ALBERT BACKES	GER 1995	27.68 CAV CAVANAUGH	USA 2000	34.43 FRANS VAN ENST	NED 2005
29.68 KOJI IWAMOTO	JPN 2002	27.80 PETER BERGENGREN	SWE 2003	34.71 KARL DONOGHUE	CAN 2005
29.81 CHITOSHI KONISHI	JPN 2000	28.02 RONALD JOHNSON	USA 1998	34.75 S.SEKIKAWA	JPN 1998
29.88 DAVID QUIGGIN	USA 2004	28.04 KATSUKI ISHIHARA	JPN 2004	34.93 MASAO KIJIMA	JPN 2006
30.20 J.LESTIDEAU	FRA 2006	28.24 BOB BAILIE	USA 2001	35.06 RON JOHNSON	USA 1996
30.25 PETER BERGENGREN	SWE 2000	28.25 GEORGES KOESSLER	FRA 2006	35.10 BURWELL JONES	USA 2002
30.30 ROBERT SMITH	USA 2003	28.32 NEIL MACKINNON	GBR 2006	35.11 PETER BERGENGREN	SWE 2004
100 M. FLY		28.45 TOSHIHIRO HAYASHI	JPN 2002	100 M. BACK	
1:03.76 RICH ABRAHAMS	USA 2006	100 M. FREE		1:14.04 BARRY YOUNG	NZL 2004
1:06.70 J.LESTIDEAU	FRA 2006	1:01.36 JEFF FARRELL	USA 2002	1:14.66 YOSHI OYAKAWA	USA 1998
1:06.74 ROBERT POILETMAN	USA 2003	1:02.24 PETER BERGENGREN	SWE 2003	1:14.69 LUIZ FIGUEIREDO	BRA 2006
1:06.89 KOJI IWAMOTO	JPN 2002	1:02.41 CAV CAVANAUGH	USA 2000	1:16.12 S.SEKIKAWA	JPN 1998
1:07.00 JOSEP CLARET	ESP 2004	1:02.65 LUIZ FIGUEIREDO	BRA 2006	1:16.77 BURWELL JONES	USA 2002
1:08.33 DON MCINTOSH	USA 2003	1:02.77 ROBERTO ALBERICHE	ESP 1996	1:17.75 PEKKA LUNDBERG	FIN 2001
1:09.41 DEREK PARR	GBR 2005			1:18.03 KARL DONOGHUE	CAN 2005

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

1:18.28	RON JOHNSON	USA	1997	1:16.63	WILLIAM LETCH	GBR	2005	1:08.36	SHINGO YAMAMOTO	JPN	2001
1:18.41	FRANS VAN ENST	NED	2006	1:16.63	DAVID CUMMING	GBR	2003	1:08.95	BOB BAILIE	USA	2006
1:18.73	PAUL HUTINGER	USA	1992	200 M. FLY				1:09.00	FRANK PIEMME	USA	1995
200 M. BACK				2:48.78	RICHARD KITCHELL	USA	2005	1:09.02	H.TAKAHASHI	JPN	2006
2:44.62	LUIZ FIGUEIREDO	BRA	2006	2:57.23	TAISUKE MIYAZAKI	JPN	2004	200 M. FREE			
2:45.56	GARY CHASE	USA	2005	2:59.62	DAVID CUMMING	GBR	2004	2:24.31	GRAHAM JOHNSTON	USA	2001
2:47.59	S.SEKIKAWA	JPN	1998	3:00.83	D MCLACHLAN	RSA	2002	2:28.41	CAV CAVANAUGH	USA	2005
2:50.75	BOB BARRY	AUS	1996	3:01.54	LUIS R. SIMI	BRA	2002	2:30.27	BURWELL JONES	USA	2004
2:52.11	KARL DONOGHUE	CAN	2005	3:05.26	WILLIAM LETCH	GBR	2005	2:30.60	DAVID RADCLIFF	USA	2004
2:52.12	ALAN JACKSON	GBR	2004	3:06.32	WERNER MULLER	GER	1999	2:33.22	NELIO VILLASBOAS	BRA	2002
2:52.77	ROGER FRANKS	USA	1994	3:06.43	RON JOHNSON	USA	1996	2:33.66	THEO ENDERES	GER	1999
2:53.17	MIKLOS KOVATS	HUN	2005	3:07.91	CHARLES MOSS	USA	1993	2:34.46	JOHN CRISP	AUS	2005
2:54.25	PAUL HUTINGER	USA	1990	3:09.60	FRANK WILLIAMS	USA	2006	2:34.64	WILLIAM PHILLIPS	USA	1998
2:54.40	GRAHAM JOHNSTON	USA	1997	100 M. I.M.				2:36.63	N.MIYAMOTO	JPN	2006
50 M. BRST				1:12.51	JEFF FARRELL	USA	2002	2:36.88	BOB BARRY	AUS	2002
35.46	HIROSHI KOTEGAWA	JPN	2001	1:14.99	MIKE FRESHLEY	USA	2006	400 M. FREE			
36.07	MANUEL SANGUILY	USA	1998	1:15.44	PETER BERGENGREN	SWE	2003	5:09.75	GRAHAM JOHNSTON	USA	2002
36.32	EGON HENNINGER	GER	2005	1:15.61	RON JOHNSON	USA	1996	5:15.88	BURWELL JONES	USA	2003
36.33	NICK TEMPLEMAN	CAN	1996	1:15.82	BURWELL JONES	USA	2002	5:20.65	DAVID RADCLIFF	USA	2006
36.38	AKIO SUGIYAMA	JPN	1999	1:15.87	NEIL MACKINNON	GBR	2006	5:29.16	JOHN CRISP	AUS	2005
36.90	FRANTISEK POKORNY	CZE	2006	1:16.56	CAV CAVANAUGH	USA	2000	5:30.42	CAV CAVANAUGH	USA	2005
36.92	BERND WUNSCH	GER	2003	1:16.79	ROBERTO ALBERICHE	ESP	1996	5:35.49	FRANK PIEMME	USA	1995
37.17	JOHN KORTHEUER	USA	2000	1:16.91	MASAO KIJIMA	JPN	2006	5:37.26	WILLIAM PHILLIPS	USA	1998
37.35	STANLEY CLARKE	GBR	2004	1:17.24	STANLEY CLARKE	GBR	2003	5:43.31	N.MIYAMOTO	JPN	2006
37.41	WERNER GOTTSCHALK	GER	2002	200 M. I.M.				5:48.46	DON BLAND	GBR	2001
100 M. BRST				2:43.49	MIKE FRESHLEY	USA	2006	5:48.73	HIROSHI YOSHIMURA	JPN	2000
1:21.34	NICK TEMPLEMAN	CAN	1996	2:46.35	JEFF FARRELL	USA	2002	800 M. FREE			
1:21.55	BERND WUNSCH	GER	2003	2:49.10	ROBERTO ALBERICHE	ESP	1996	10:52.68	GRAHAM JOHNSTON	USA	2001
1:22.10	HANS REICHEL	GER	2004	2:50.95	BURWELL JONES	USA	2002	11:07.97	DAVID RADCLIFF	USA	2006
1:22.23	YOSHIKI AOKI	JPN	2005	2:51.68	GRAHAM JOHNSTON	USA	1997	11:23.10	ERNIE LESKOVITZ	USA	2006
1:22.34	MANUEL SANGUILY	USA	1998	2:51.72	RON JOHNSON	USA	1997	11:25.65	JOHN CRISP	AUS	2005
1:22.44	MIKE FRESHLEY	USA	2006	2:52.71	HITOSHI KATO	JPN	1996	11:38.41	FRANK PIEMME	USA	1995
1:22.83	TONY GOODWIN	AUS	2002	2:54.35	KIHEI YOSHIMURA	JPN	2006	11:55.21	WILLIAM PHILLIPS	USA	1998
1:23.48	PETER BELL	CAN	2001	2:54.59	TADASHI IWAMOTO	JPN	2005	12:00.70	DON BLAND	GBR	2001
1:23.85	GUNTER SCHMAH	GER	2003	2:54.77	WALLY DOBLER	USA	1999	12:05.80	JESUS DOMINGUEZ	ESP	1996
1:23.94	TETSUO NAKAMARU	JPN	2003	400 M. I.M.				12:14.93	ROGER FRANKS	USA	1999
200 M. BRST				5:58.93	MIKE FRESHLEY	USA	2006	12:15.49	RAYMOND TAFT	USA	1989
2:59.55	YOSHIKI AOKI	JPN	2005	6:04.40	GRAHAM JOHNSTON	USA	1996	1500 M. FREE			
3:00.13	MIKE FRESHLEY	USA	2006	6:07.00	ROBERTO ALBERICHE	ESP	1996	20:54.56	GRAHAM JOHNSTON	USA	2001
3:00.27	MICHAEL MOLONEY	AUS	2004	6:14.32	MASAO KIJIMA	JPN	2006	21:17.81	JOHN CRISP	AUS	2005
3:02.15	HANS REICHEL	GER	2004	6:14.67	DICK STEWART	USA	2005	21:25.90	DAVID RADCLIFF	USA	2004
3:03.31	TOM WALKER	GBR	2000	6:21.88	TADASHI IWAMOTO	JPN	2005	22:30.87	WILLIAM PHILLIPS	USA	1998
3:05.19	TONY GOODWIN	AUS	2002	6:23.63	GUNTER BEILSTEIN	GER	2001	22:44.45	FRANK PIEMME	USA	1995
3:05.24	PETER BELL	CAN	2000	6:28.87	CHARLES MOSS	USA	1993	22:45.32	DON BLAND	GBR	2001
3:06.13	NICK TEMPLEMAN	CAN	1996	6:30.08	RICHARD KITCHELL	USA	2005	23:11.67	ROGER FRANKS	USA	1999
3:07.25	BERND WUNSCH	GER	2003	6:33.84	P.WERMELSKIRCHEN	GER	2004	23:21.30	KIYOJI AMANO	JPN	2001
3:08.63	GUNTER SCHMAH	GER	2003	*****				23:23.27	LARRY GOOD	USA	2004
50 M. FLY				*****				23:30.40	EROS STELLA	ITA	2002
30.62	TOMOYASU IIDA	JPN	2006	M E N 70-74				50 M. BACK			
30.70	BOB BAILIE	USA	2001	*****				33.90	YOSHI OYAKAWA	USA	2003
30.71	BERT PETERSEN	USA	2003	50 M. FREE				35.44	S.SEKIKAWA	JPN	2003
31.17	GEORGES KOESSLER	FRA	2006	28.55	RON JOHNSON	USA	2003	35.71	PAUL HUTINGER	USA	1994
31.27	PETER BERGENGREN	SWE	2003	28.76	CAV CAVANAUGH	USA	2005	35.75	BURWELL JONES	USA	2004
31.28	MIKE FRESHLEY	USA	2006	29.00	WOLFRAM GOTTFRIED	GER	2003	37.00	RON JOHNSON	USA	2003
31.37	IAN SMITH	CAN	2006	29.77	CHARLES BALDWIN	USA	2000	37.06	MAMPEI SEINO	JPN	2003
31.39	CHITOSHI KONISHI	JPN	2005	29.77	DAVID RADCLIFF	USA	2004	37.53	KEIJIRO NAKAMURA	JPN	1995
31.50	FRANTISEK POKORNY	CZE	2006	29.80	BOB BAILIE	USA	2006	37.86	E.NODENSCHNEIDER	FRA	2006
31.54	HIROSHI MATSUMOTO	JPN	2002	29.87	H.TAKAHASHI	JPN	2006	38.03	CHARLES BALDWIN	USA	2000
100 M. FLY				30.01	SHINGO YAMAMOTO	JPN	2001	38.05	CLARKE MITCHELL	USA	2003
1:11.96	TOMOYASU IIDA	JPN	2006	30.04	ROBERT GROBLER	GBR	2000	100 M. BACK			
1:12.41	CHITOSHI KONISHI	JPN	2005	30.21	TAKAHIKO NOMA	JPN	1998	1:15.85	YOSHI OYAKAWA	USA	2003
1:13.32	BERT PETERSEN	USA	2003	100 M. FREE				1:16.73	BURWELL JONES	USA	2003
1:13.93	YOICHI AOKI	JPN	2006	1:04.58	CAV CAVANAUGH	USA	2005	1:18.73	S.SEKIKAWA	JPN	2003
1:14.44	BARRY YOUNG	NZL	2004	1:06.26	GRAHAM JOHNSTON	USA	2001	1:20.94	MAMPEI SEINO	JPN	2003
1:14.91	TAISUKE MIYAZAKI	JPN	2005	1:06.50	DAVID RADCLIFF	USA	2004	1:21.50	ROGER FRANKS	USA	1997
1:15.52	LUIS R. SIMI	BRA	2002	1:06.70	CHARLES BALDWIN	USA	2000	1:21.74	PAUL HUTINGER	USA	1994
1:16.42	GUNTER SCHOPKE	GER	2006	1:07.47	RONALD JOHNSON	USA	2001	1:22.33	CLARKE MITCHELL	USA	2002
1:16.56	JOAQUIN CANALES	ESP	2006	1:07.84	WOLFRAM GOTTFRIED	GER	2001	1:22.77	RON JOHNSON	USA	2002

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1:23.61 KEIJIRO NAKAMURA JPN 1996	200 M. FLY	1:14.82 KIYOJI AMANO JPN 2006
1:23.97 BOB BARRY AUS 2002	3:08.60 TAKASHI HAYASHI JPN 2003	1:15.26 DONALD BAKER USA 2006
200 M. BACK	3:13.57 JESUS DOMINGUEZ ESP 2000	200 M. FREE
2:51.24 BURWELL JONES USA 2003	3:15.19 RON JOHNSON USA 2002	2:37.71 GRAHAM JOHNSTON USA 2006
2:53.22 S.SEKIKAWA JPN 2003	3:18.59 ROBERT PFERSDORFF GER 1995	2:42.21 SHINGO YAMAMOTO JPN 2006
2:53.59 YOSHI OYAKAWA USA 2003	3:18.87 KARL-HEINZ KNOPS GER 1995	2:46.17 ARAM BOGHOSSIAN BRA 2004
2:55.73 ROGER FRANKS USA 1998	3:20.14 CLAUDIO NEGRI ITA 2006	2:47.41 HIROSHI YOSHIMURA JPN 2004
2:58.91 MAMPEI SEINO JPN 2003	3:22.72 SEYMOUR BANNING GBR 2003	2:47.43 FRANK PIEMME USA 2000
2:59.92 PAUL HUTINGER USA 1994	3:24.27 HEINZ KRAUSS GER 2002	2:47.65 KIYOJI AMANO JPN 2006
3:02.37 E.NODENSCHNEIDER FRA 2006	3:25.51 MARIAN RACZYNSKI POL 2006	2:48.67 RAYMOND TAFT USA 1994
3:05.12 BOB BARRY AUS 2002	3:26.07 JOSEPH KURTZMAN USA 1996	2:49.10 ROGER FRANKS USA 2002
3:07.35 LARRY GOOD USA 2005	100 M. I.M.	2:49.36 FUMIO EGAMI JPN 2005
3:07.57 RAY TAFT USA 1989	1:15.92 RONALD JOHNSON USA 2001	2:49.98 BOB BARRY AUS 2006
50 M. BRST	1:17.22 BURWELL JONES USA 2003	400 M. FREE
37.47 NICK TEMPLEMAN CAN 2001	1:18.44 WOLFRAM GOTTFRIED GER 2001	5:40.14 GRAHAM JOHNSTON USA 2006
37.66 HANS REICHEL트 GER 2006	1:19.43 CHARLES BALDWIN USA 2000	5:45.47 HIROSHI YOSHIMURA JPN 2004
37.68 AKIO SUGIYAMA JPN 2005	1:20.35 JOHN KORTHEUER USA 2001	6:01.32 FRANK PIEMME USA 2000
37.71 MANUEL SANGUILY USA 2004	1:20.99 FRANK PIEMME USA 1995	6:02.95 RAYMOND TAFT USA 1995
38.15 JOHN KORTHEUER USA 2001	1:21.51 GRAHAM JOHNSTON USA 2002	6:04.20 KARL HAUTER GER 2000
38.41 TETSUO NAKAMARU JPN 2005	1:21.70 MASAYASU KAMIYA JPN 2002	6:07.86 ARAM BOGHOSSIAN BRA 2004
38.60 TOSHIO TAJIMA JPN 1996	1:21.87 RAY TAFT USA 1989	6:09.54 KIYOJI AMANO JPN 2006
38.65 PETER BELL CAN 2005	1:22.09 DAVID RADCLIFF USA 2004	6:20.11 ALDO DA ROSA USA 1993
38.70 CHUCK BALDWIN USA 2000	200 M. I.M.	6:20.12 ROGER FRANKS USA 2002
38.84 BELA SANDOR USA 2005	2:51.73 BURWELL JONES USA 2003	6:23.81 DEXTER WOODFORD USA 1989
100 M. BRST	2:55.51 RON JOHNSON USA 2002	800 M. FREE
1:24.13 TETSUO NAKAMARU JPN 2005	2:55.58 GRAHAM JOHNSTON USA 2002	12:00.94 GRAHAM JOHNSTON USA 2006
1:24.95 HANS REICHEL트 GER 2006	3:00.88 JESUS DOMINGUEZ ESP 1996	12:02.87 HIROSHI YOSHIMURA JPN 2004
1:25.11 RON JOHNSON USA 2003	3:03.20 JOHN CRISP AUS 2005	12:13.28 FRANK PIEMME USA 2000
1:25.87 PETER BELL CAN 2005	3:04.85 CHARLES BALDWIN USA 2000	12:45.40 RAYMOND TAFT USA 1994
1:27.10 JOHN KORTHEUER USA 2001	3:05.96 FRANK PIEMME USA 1995	13:05.48 ED KERSWILL USA 2001
1:27.25 BOB PATTEN USA 2004	3:08.13 RAY TAFT USA 1989	13:14.50 C.BRUNELLESCHI ITA 1998
1:27.38 NICK TEMPLEMAN CAN 2001	3:08.78 LARRY GOOD USA 2004	13:15.02 ALDO DA ROSA USA 1993
1:27.42 THOMAS WALKER GBR 2005	3:08.80 DAVID RADCLIFF USA 2005	13:16.92 MAURICE LUSIEN FRA 2001
1:27.58 SHUNSAKU TAKAHIRA JPN 2003	400 M. I.M.	13:17.26 DEXTER WOODFORD USA 1989
1:27.67 CLAUDIO NEGRI ITA 2006	6:21.46 BURWELL JONES USA 2003	13:25.16 KEVIN VICKERY AUS 1998
200 M. BRST	6:23.43 GRAHAM JOHNSTON USA 2002	1500 M. FREE
3:08.60 HANS REICHEL트 GER 2006	6:38.98 FRANK PIEMME USA 1995	22:27.75 GRAHAM JOHNSTON USA 2006
3:09.86 PETER BELL CAN 2005	6:39.24 JOHN CRISP AUS 2005	22:52.00 HIROSHI YOSHIMURA JPN 2003
3:12.98 RON JOHNSON USA 2003	6:44.53 E.NODENSCHNEIDER FRA 2006	24:22.70 FRANK PIEMME USA 2000
3:13.39 THOMAS WALKER GBR 2005	6:46.14 LARRY GOOD USA 2004	24:46.19 ALDO DA ROSA USA 1993
3:14.52 CLAUDIO NEGRI ITA 2006	6:47.09 JESUS DOMINGUEZ ESP 2000	24:47.25 THOMAS TAYLOR USA 2006
3:14.66 TSUTOMU KAJIHARA JPN 2003	6:48.33 KARL HAUTER GER 1999	25:23.92 RAYMOND TAFT USA 1994
3:14.83 BOB PATTEN USA 2004	6:49.75 ROGER FRANKS USA 1997	25:24.81 KARL HAUTER GER 2001
3:15.42 HARTMUT LEMCKE GER 2005	6:50.22 RON JOHNSON USA 2002	25:25.53 JURGEN SCHMIDT USA 1998
3:16.44 KARL HAUTER GER 1995	*****	25:26.79 ROGER FRANKS USA 2002
3:17.39 H.MULLER GER 2005	M E N 75-79	25:36.04 MINORU NAGASHIMA JPN 2001
50 M. FLY	*****	50 M. BACK
32.41 HIROSHI MATSUMOTO JPN 2006	50 M. FREE	37.47 KEIJIRO NAKAMURA JPN 1998
32.57 RONALD JOHNSON USA 2001	31.06 FRANK PIEMME USA 2001	38.38 PAUL HUTINGER USA 1999
33.61 BOB BAILIE USA 2006	31.33 SHINGO YAMAMOTO JPN 2006	38.83 JACK HALE GBR 1997
34.36 GENICHI IGARASHI JPN 2006	31.64 ALDO EMINENTE FRA 2006	39.14 GORO TANIGUCHI JPN 1997
34.40 MASAYASU KAMIYA JPN 2002	32.09 KEIJIRO NAKAMURA JPN 1999	39.83 RAYMOND TAFT USA 1994
34.54 WOLFRAM GOTTFRIED GER 2004	32.20 TAKAHIKO NOMA JPN 2003	40.40 SHOUICHI SAKAMOTO JPN 1994
34.58 MASARU IGARASHI JPN 2005	32.42 RON JOHNSON USA 2006	40.93 HORACE KNOWLTON USA 2004
34.60 CHUCK BALDWIN USA 2000	32.48 JACK HALE GBR 1997	41.01 DUANE DRAVES USA 2001
34.77 FRANK PIEMME USA 1995	32.62 ARAM BOGHOSSIAN BRA 2004	41.12 YOZO TAENAKA JPN 1997
34.96 JOHN JACEY GBR 2004	32.65 SHOICHI SHIDA JPN 2002	41.31 SHOICHI SHIDA JPN 2005
100 M. FLY	32.79 MAX VAN GELDER AUS 2006	100 M. BACK
1:19.51 RONALD JOHNSON USA 2001	100 M. FREE	1:24.21 KEIJIRO NAKAMURA JPN 1998
1:20.31 HIROSHI MATSUMOTO JPN 2006	1:10.71 SHINGO YAMAMOTO JPN 2006	1:25.13 PAUL HUTINGER USA 2000
1:21.60 WOLFRAM GOTTFRIED GER 2001	1:11.55 FRANK PIEMME USA 2000	1:25.22 ROGER FRANKS USA 2002
1:22.37 TAKASHI HAYASHI JPN 2005	1:13.35 JACK HALE GBR 1997	1:26.40 JACK HALE GBR 1997
1:23.14 MASAYASU KAMIYA JPN 2002	1:13.47 RAYMOND TAFT USA 1995	1:27.41 RAYMOND TAFT USA 1994
1:24.63 WALLY DOBLER USA 2004	1:13.69 ARAM BOGHOSSIAN BRA 2004	1:28.03 HORACE KNOWLTON USA 2004
1:25.24 SEYMOUR BANNING GBR 2003	1:13.70 GRAHAM JOHNSTON USA 2006	1:30.57 H.MIYAZAKI JPN 1995
1:25.54 MASARU IGARASHI JPN 2005	1:14.06 SHOICHI SHIDA JPN 2001	1:31.83 ROGER BURRELL GBR 2006
1:26.07 JOHN CRISP AUS 2005	1:14.29 FUMIO EGAMI JPN 2005	1:32.00 KARL HAUTER GER 2001
1:26.98 JOSEPH KURTZMAN USA 1996		1:32.07 DUANE DRAVES USA 2001

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200 M. BACK		3:26.72	ROBERT PFERSDORFF	GER 1999	1:21.63	JIRO KOBAYASHI	JPN 2005	
2:58.21	ROGER FRANKS	USA 2002	3:27.58	KARL HAUTER	GER 2001	200 M. FREE		
3:09.22	KEIJIRO NAKAMURA	JPN 1999	3:31.23	MAURICE LUSIEN	FRA 2001	3:00.21	KARL HAUTER	GER 2005
3:10.22	RAYMOND TAFT	USA 1994	3:39.51	THOMAS MAINE	USA 2002	3:00.63	RAYMOND TAFT	USA 1999
3:12.53	PAUL HUTINGER	USA 2000	3:42.68	TOSHIMASA MINAMI	JPN 2005	3:00.86	FRANK PIEMME	USA 2005
3:13.86	BOB BARRY	AUS 2006	3:42.99	MINORU NAGASHIMA	JPN 2001	3:01.42	HIKOJI UEKI	JPN 1995
3:14.41	HORACE KNOWLTON	USA 2004	3:47.05	JAN ZIEGLER	CZE 2000	3:07.37	JIRO KOBAYASHI	JPN 2005
3:17.07	ROGER BURRELL	GBR 2006	3:48.09	LEN GOLDSTONE	USA 2004	3:08.98	JAN ZIEGLER	CZE 2006
3:17.47	KARL HAUTER	GER 2002	3:49.00	PAUL KRUP	USA 1992	3:09.57	KEVIN VICKERY	AUS 2003
3:17.78	JACK HALE	GBR 1997	3:51.90	SILVANO DANIELI	ITA 2003	3:10.03	HIDEAKI KATO	JPN 2001
3:23.02	H.MIYAZAKI	JPN 1995	100 M. I.M.			3:10.15	ALDO DA ROSA	USA 1998
50 M. BRST		1:24.42	FRANK PIEMME	USA 2000	3:10.90	JIM EUBANK	USA 1999	
39.97	TOSHIO TAJIMA	JPN 2000	1:25.36	KARL HAUTER	GER 2000	400 M. FREE		
40.17	ROBERT PFERSDORFF	GER 1999	1:27.43	RAYMOND TAFT	USA 1994	6:27.60	RAY TAFT	USA 1999
40.62	JOHN KORTHEUER	USA 2006	1:28.97	BIRCH DAVIDSON	USA 1994	6:30.21	KARL HAUTER	GER 2006
42.13	ZENJI NAKAHARI	JPN 2003	1:29.03	SHOICHI SHIDA	JPN 2001	6:38.17	JAN ZIEGLER	CZE 2005
42.14	CHARLES URSTADT	USA 2004	1:29.21	CHARLES BALDWIN	USA 2005	6:38.23	FRANK PIEMME	USA 2005
42.30	WALTER MINNICH	GER 1994	1:29.43	ZENJI NAKAHARI	JPN 2003	6:47.71	JURGEN SCHMIDT	USA 2005
42.30	AUGUSTO ROMANO	ITA 1993	1:29.47	DUANE DRAVES	USA 2001	6:54.21	RYUJI FUJIKAWA	JPN 1998
42.33	GERHARD GIERA	GER 2003	1:29.79	ASHLEY JONES	USA 2006	6:55.19	ALDO DA ROSA	USA 1998
42.75	ERICH NEUMANN	GER 2005	1:30.62	GRAHAM JOHNSTON	USA 2006	7:00.11	KEVIN VICKERY	AUS 2003
42.76	HORST FRITZSCHE	GER 2003	200 M. I.M.			7:03.26	ROBERT JOHNSTON	USA 1997
100 M. BRST		3:10.06	KARL HAUTER	GER 2000	7:04.15	NILS KLING	SWE 2002	
1:28.61	ROBERT PFERSDORFF	GER 1999	3:16.44	FRANK PIEMME	USA 2000	800 M. FREE		
1:32.85	ERICH NEUMANN	GER 2005	3:20.29	GRAHAM JOHNSTON	USA 2006	13:29.27	RAYMOND TAFT	USA 1999
1:33.20	ZENJI NAKAHARI	JPN 2006	3:20.35	RAYMOND TAFT	USA 1994	13:41.19	FRANK PIEMME	USA 2005
1:34.60	KARL HAUTER	GER 2000	3:22.14	ALDO V DA ROSA	USA 1992	14:05.05	JURGEN SCHMIDT	USA 2003
1:35.73	TOSHIO TAJIMA	JPN 2002	3:22.71	HORACE KNOWLTON	USA 2004	14:35.51	NILS KLING	SWE 2004
1:35.87	ROBERT MACDONALD	USA 2003	3:26.29	DUANE DRAVES	USA 2001	14:36.00	KEVIN VICKERY	AUS 2003
1:36.39	CHARLES BALDWIN	USA 2005	3:26.45	FRANK TANNER	USA 2006	14:37.33	HIROSHI IMAIZUMI	JPN 2005
1:36.42	CURT ZEISS	GER 2006	3:28.01	ASHLEY JONES	USA 2006	14:46.09	NORBERT ARTUS	CAN 1997
1:36.60	AUGUSTO ROMANO	ITA 1994	3:30.35	JURGEN SCHMIDT	USA 1999	14:49.24	ROBERT JOHNSTON	USA 1997
1:36.66	FRANK PIEMME	USA 2000	400 M. I.M.			14:50.91	WILLARD LAMB	USA 2006
200 M. BRST		6:52.62	KARL HAUTER	GER 2001	14:55.36	LEE ARTH	USA 2005	
3:21.50	KARL HAUTER	GER 2000	6:59.68	FRANK PIEMME	USA 2000	1500 M. FREE		
3:24.84	ROBERT PFERSDORFF	GER 1999	7:07.64	GRAHAM JOHNSTON	USA 2006	25:35.01	RAY TAFT	USA 1999
3:28.02	ESKO SALONEN	FIN 2001	7:08.53	RAYMOND TAFT	USA 1994	26:41.69	ALDO DA ROSA	USA 1998
3:29.54	AL CRAIG	USA 2003	7:20.86	ALDO V DA ROSA	USA 1992	27:03.64	JURGEN SCHMIDT	USA 2005
3:30.52	FRANK PIEMME	USA 2000	7:27.62	FRANK TANNER	USA 2006	27:33.01	ROBERT JOHNSTON	USA 1997
3:32.66	ERICH NEUMANN	GER 2005	7:31.50	JAN ZIEGLER	CZE 2001	27:33.43	HIROSHI IMAIZUMI	JPN 2005
3:34.29	ALDO DA ROSA	USA 1993	7:32.85	DUANE DRAVES	USA 2002	27:56.50	LEE ARTH	USA 2005
3:34.40	AUGUSTO ROMANO	ITA 1994	7:35.36	LEN GOLDSTONE	USA 2004	28:07.58	RYUJI FUJIKAWA	JPN 1999
3:34.55	ZENJI NAKAHARI	JPN 2005	7:36.00	BIRCH DAVIDSON	USA 1994	28:21.48	NORBERT ARTUS	CAN 1997
3:34.95	ROBERT MCDONALD	USA 2005	*****			28:43.31	DEXTER WOODFORD	USA 1994
50 M. FLY		*****				29:05.37	WILLARD LAMB	USA 2006
33.27	ARAM BOGHOSSIAN	BRA 2004	M E N 80-84			50 M. BACK		
34.83	FRANK PIEMME	USA 2000	*****			38.26	KEIJIRO NAKAMURA	JPN 2003
36.88	TAMON YOSHIDA	JPN 2001	50 M. FREE			41.31	SHOICHI SHIDA	JPN 2006
37.18	ROBERT PFERSDORFF	GER 1999	32.61	KEIJIRO NAKAMURA	JPN 2004	41.58	PAUL HUTINGER	USA 2004
37.32	ASHLEY JONES	USA 2006	32.80	FRANK PIEMME	USA 2005	42.11	DALE WEBSTER	USA 2006
37.66	YOSHIO ISHIGURO	JPN 2006	33.23	B.SCHLURIKE	GER 2001	42.16	SHOICHI SAKAMOTO	JPN 1998
38.00	JACK HALE	GBR 1997	34.74	SHOICHI SHIDA	JPN 2006	42.96	RAY TAFT	USA 1999
38.28	RON JOHNSON	USA 2006	35.09	TOSHIMI INATOMI	JPN 2006	43.66	WILLIAM ROWE	USA 1997
38.70	FUMIO EGAMI	JPN 2005	35.11	SHOICHI SAKAMOTO	JPN 2001	43.71	OTTO CLAUS	GER 1995
38.70	CHARLES BALDWIN	USA 2005	35.16	WOODROW BOWERSOCK	USA 1993	43.92	EDWARD SHEA	USA 1994
38.70	RAYMOND TAFT	USA 1995	35.31	TOSHIO TAJIMA	JPN 2005	44.04	GORO KOBAYASHI	JPN 1998
100 M. FLY		35.52	DALE WEBSTER	USA 2006	100 M. BACK			
1:32.07	ROBERT PFERSDORFF	GER 2000	35.70	C.BRUNELLESCHI	ITA 2003	1:25.77	KEIJIRO NAKAMURA	JPN 2003
1:32.31	RON JOHNSON	USA 2006	100 M. FREE			1:33.27	PAUL HUTINGER	USA 2004
1:32.41	KARL HAUTER	GER 2001	1:16.09	KEIJIRO NAKAMURA	JPN 2003	1:33.58	RAY TAFT	USA 1999
1:35.41	FRANK PIEMME	USA 2000	1:16.30	SHOICHI SHIDA	JPN 2006	1:35.25	JAN ZIEGLER	CZE 2005
1:36.80	PAUL KRUP	USA 1992	1:17.02	FRANK PIEMME	USA 2005	1:36.13	KARL HAUTER	GER 2006
1:37.68	TOSHIMASA MINAMI	JPN 2005	1:18.67	B.SCHLURIKE	GER 2002	1:36.41	ALDO DA ROSA	USA 1998
1:38.40	MAX VAN GELDER	NED 2000	1:18.80	HIKOJI UEKI	JPN 1995	1:37.17	EDWARD SHEA	USA 1994
1:38.87	MINORU NAGASHIMA	JPN 2002	1:20.65	WOODROW BOWERSOCK	USA 1993	1:38.01	DALE WEBSTER	USA 2006
1:39.04	JAN ZIEGLER	CZE 2000	1:20.97	KARL HAUTER	GER 2005	1:38.04	TOSHIIJI SATO	JPN 1996
1:40.40	THOMAS MAINE	USA 2000	1:21.28	HIDEAKI KATO	JPN 2001	1:40.16	GORO KOBAYASHI	JPN 1998
200 M. FLY		1:21.52	RAYMOND TAFT	USA 1999	200 M. BACK			

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

3:10.06 KEIJIRO NAKAMURA JPN 2003	4:17.29 MINORU NAGASHIMA JPN 2006	3:13.45 JIM EUBANK USA 2000
3:23.73 RAY TAFT USA 1999	4:18.70 HIRONARI UEDA JPN 2002	3:15.87 HIKOJI UEKI JPN 2000
3:32.87 KARL HAUTER GER 2005	4:25.99 WALTER PFEIFFER USA 1994	3:29.01 TOKUSHI KOMEDA JPN 2000
3:33.60 JAN ZIEGLER CZE 2006	4:37.61 PAUL HUTINGER USA 2005	3:39.35 SABURO IWASAKI JPN 2001
3:33.91 EDWARD SHEA USA 1994	4:44.45 LEE ARTH USA 2005	3:42.64 STEVE CARLSON USA 2006
3:39.12 PAUL HUTINGER USA 2004	4:50.00 JACQUES AMYOT CAN 2004	3:43.53 RYUJI FUJIKAWA JPN 2003
3:40.75 C.SCHERER GER 1995	4:52.61 DON LEADER GBR 2004	3:43.55 KISABURO WADA JPN 2002
3:40.95 G.SHIMOMOTO JPN 2006	4:57.45 RICHARD SMITH USA 2001	3:44.09 R.REINSTADTLER GER 1997
3:41.92 GENNOSUKE SHIMOMO JPN 2005	100 M. I.M.	3:45.82 ARTHUR THOMAS AUS 2002
3:43.98 JOHN MERRILL USA 1998	1:31.77 SHOICHI SHIDA JPN 2006	3:47.84 WOODY BOWERSOCK USA 1998
50 M. BRST	1:32.25 KARL HAUTER GER 2005	400 M. FREE
41.42 TOSHIO TAJIMA JPN 2005	1:32.65 FRANK PIEMME USA 2005	7:19.94 JIM EUBANK USA 2000
43.99 Y.KAWABATA JPN 2006	1:33.50 JAN ZIEGLER CZE 2006	7:27.29 TOKUSHI KOMEDA JPN 1999
44.56 Y.MIYAMOTO JPN 1997	1:35.31 RAY TAFT USA 1999	7:47.75 ALDO DA ROSA USA 2002
45.13 HORST FRITSCH GER 2006	1:35.60 MAX VAN GELDER NED 2004	7:49.70 RYUJI FUJIKAWA JPN 2002
45.40 MAX VON ISSER USA 1999	1:38.31 ALDO DA ROSA USA 1998	7:54.24 GUS LANGNER USA 1988
45.52 WATARU ASAOKA JPN 2005	1:38.56 ANDREW HOLDEN USA 1999	7:58.36 NILS FERM SWE 2002
45.52 KARL WITTENBERG GER 1990	1:40.43 SADAYUKI WAKAI JPN 2003	8:04.16 HIROSHI SAIGO JPN 2001
45.63 BARTON GREENBERG USA 2004	1:42.52 HIROSHI IMAIZUMI JPN 2005	8:10.74 ARTHUR THOMAS AUS 2004
45.78 FRANK PIEMME USA 2005	200 M. I.M.	8:13.18 STEVE CARLSON USA 2004
45.82 MAX VAN GELDER NED 2004	3:26.48 KARL HAUTER GER 2006	8:19.50 HAROLD DODD GBR 2004
100 M. BRST	3:37.04 RAYMOND TAFT USA 1999	800 M. FREE
1:36.91 KARL HAUTER GER 2005	3:39.84 ALDO DA ROSA USA 1998	15:15.68 JIM EUBANK USA 2000
1:39.85 TOSHIO TAJIMA JPN 2005	3:44.29 THOMAS MAINE USA 2005	16:19.95 TOKUSHI KOMEDA JPN 1999
1:42.05 FRANK PIEMME USA 2005	3:46.96 ANTON CERER USA 1997	16:28.13 HAROLD DODD GBR 2001
1:43.54 MAX VON ISSER USA 1999	3:50.06 HIROSHI IMAIZUMI JPN 2005	16:35.66 DICK GUIDO USA 2002
1:43.70 JAN ZIEGLER CZE 2006	3:50.55 WOODROW BOWERSOCK USA 1994	16:38.41 NILS FERM SWE 2003
1:43.91 Y.MIYAMOTO JPN 1997	3:59.52 WALT PFEIFFER USA 1994	16:53.90 GUS LANGNER USA 1988
1:45.09 ALDO DA ROSA USA 1998	3:59.82 JACQUES AMYOT CAN 2004	16:53.91 RYUJI FUJIKAWA JPN 2002
1:45.51 BARTON GREENBERG USA 2004	3:59.95 ISAO FUNAMOTO JPN 2002	17:32.11 ARTHUR THOMAS AUS 2004
1:45.93 WATARU ASAOKA JPN 2005	400 M. I.M.	17:47.94 AUSTIN NEWMAN USA 2003
1:46.48 HIROMU YOSHIMOTO JPN 1995	7:26.06 KARL HAUTER GER 2005	18:06.72 RICHARD SMITH USA 2005
200 M. BRST	7:37.58 RAY TAFT USA 1999	1500 M. FREE
3:40.73 KARL HAUTER GER 2005	7:49.23 FRANK PIEMME USA 2005	29:55.69 JIM EUBANK USA 2000
3:47.50 JAN ZIEGLER CZE 2006	7:53.88 ALDO DA ROSA USA 1998	30:31.85 TOKUSHI KOMEDA JPN 1999
3:47.87 FRANK PIEMME USA 2005	7:56.34 THOMAS MAINE USA 2005	31:05.09 RYUJI FUJIKAWA JPN 2002
3:50.86 MAX VAN GELDER NED 2004	8:00.81 ANTON CERER USA 1997	32:11.96 HAROLD DODD GBR 2004
3:56.33 ISAO FUNAMOTO JPN 2002	8:33.86 JURGEN SCHMIDT USA 2003	32:20.20 GUS LANGNER USA 1988
3:57.72 FERNANDO NAJERA MEX 2003	8:34.45 WALTER PFEIFFER USA 1994	32:43.03 NILS FERM SWE 2003
3:58.96 ALDO DA ROSA USA 1998	8:36.45 TED ROACH CAN 2005	33:50.15 ARTHUR THOMAS AUS 2002
4:00.80 WATARU ASAOKA JPN 2005	8:38.45 JACQUES AMYOT CAN 2004	34:02.37 RICHARD SMITH USA 2005
4:02.12 HANS MORSCHER AUT 1996	*****	35:02.69 AUSTIN NEWMAN USA 2004
4:02.90 JACQUES AMYOT CAN 2004	M E N 85-89	35:27.51 OLE LARSON USA 2006
50 M. FLY	*****	50 M. BACK
40.24 FRANK PIEMME USA 2005	50 M. FREE	43.80 GORO KOBAYASHI JPN 2001
40.25 TOSHIO TAJIMA JPN 2005	36.61 JIM EUBANK USA 2000	46.08 TOSHIJI SATO JPN 2000
40.66 TAMON YOSHIDA JPN 2006	37.08 SHOICHI SAKAMOTO JPN 2003	46.35 SHOICHI SAKAMOTO JPN 2003
41.87 ANDREW HOLDEN USA 1999	37.16 WOODROW BOWERSOCK USA 1998	47.17 R.REINSTADTLER GER 1997
42.14 MAX VON ISSER USA 1999	37.85 ANDREW HOLDEN USA 2004	47.34 ALDO DA ROSA USA 2002
42.50 JAN ZIEGLER CZE 2005	37.96 WILLIAM JOHNSTON USA 2003	48.79 EDWARD SHEA USA 1999
44.75 Y.MIYAMOTO JPN 1997	38.52 GORO KOBAYASHI JPN 2002	49.24 ANDREW HOLDEN USA 2004
45.44 KAKUICHI YANAGAWA JPN 2001	38.82 R.REINSTADTLER GER 1997	49.75 C.SCHERER GER 1999
45.55 PAUL KRUP USA 1998	39.19 ISAMU TAMURA JPN 2004	49.86 NILS FERM SWE 2003
45.56 ROGERS HOLMES USA 2001	39.79 ARTHUR THOMAS AUS 2002	50.33 TOKUSHI KOMEDA JPN 2000
100 M. FLY	40.83 MASAO UEDA JPN 1997	100 M. BACK
1:36.53 KARL HAUTER GER 2005	100 M. FREE	1:39.08 GORO KOBAYASHI JPN 2002
1:41.82 JAN ZIEGLER CZE 2005	1:23.20 JIM EUBANK USA 2000	1:40.25 TOSHIJI SATO JPN 2000
1:43.20 MAX VAN GELDER NED 2004	1:27.00 HIKOJI UEKI JPN 2000	1:48.79 ALDO DA ROSA USA 2002
1:47.17 FRANK PIEMME USA 2005	1:29.62 WOODY BOWERSOCK USA 1998	1:48.95 EDWARD SHEA USA 1999
1:48.41 MINORU NAGASHIMA JPN 2006	1:29.92 GORO KOBAYASHI JPN 2003	1:50.96 R.REINSTADTLER GER 2000
1:49.51 THOMAS MAINE USA 2005	1:34.08 TOKUSHI KOMEDA JPN 2000	1:52.69 H.REITEMEYER GER 2006
1:50.39 ANTON CERER USA 1997	1:34.55 ARTHUR THOMAS AUS 2002	1:54.18 HIROMICHI MIYAZAK JPN 2005
1:52.51 WALT PFEIFFER USA 1994	1:35.00 ISAMU TAMURA JPN 2005	1:54.47 RYUJI FUJIKAWA JPN 2002
1:53.80 RAYMOND TAFT USA 1999	1:35.43 ALDO DA ROSA USA 2002	1:55.25 JOHN MERRILL USA 2006
1:54.15 PAUL KRUP USA 1997	1:35.66 SHIGEMASA OKAJIMA JPN 2006	1:55.35 TOKUSHI KOMEDA JPN 2000
200 M. FLY	1:36.03 HIROSHI SAIGO JPN 2001	200 M. BACK
4:00.64 ANTON CERER USA 1997	200 M. FREE	3:37.45 GORO KOBAYASHI JPN 2002
4:17.12 PAUL KRUP USA 1997		4:00.80 ALDO DA ROSA USA 2002

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

4:02.65 RYUJI FUJIKAWA	JPN 2002	8:26.16 ROY BODINE	USA 1997	400 M. FREE	
4:05.07 JOHN MERRILL	USA 2005	100 M. I.M.		8:50.65 GUS LANGNER	USA 1993
4:05.25 C.SCHERER	GER 1999	1:32.47 HEINZ SIEGEL	GER 2003	9:23.13 AUSTIN NEWMAN	USA 2005
4:06.86 EDWARD SHEA	USA 2000	1:48.23 ANDREW HOLDEN	USA 2004	9:34.51 TOKUSHI KOMEDA	JPN 2006
4:09.25 NILS FERM	SWE 2003	1:55.20 LUDWIG GEBURZI	GER 2006	9:37.35 WOODY BOWERSOCK	USA 2003
4:09.66 R.REINSTADTLER	GER 1999	1:55.35 MAX VON ISSER	USA 2004	9:41.12 R.REINSTADTLER	GER 2003
4:16.04 HIROMICHI MIYAZAK	JPN 2005	1:56.26 R.REINSTADTLER	GER 1997	9:47.46 JIM TRIOLO	USA 2004
4:17.43 JOHN HARRISON	GBR 1999	1:59.34 ISAMU TAMURA	JPN 2004	10:02.86 JOHN HARRISON	GBR 2004
50 M. BRST		2:01.14 TOKUSHI KOMEDA	JPN 2001	10:07.77 L GENE CROSSET	USA 2003
47.70 Y.MIYAMOTO	JPN 2002	2:06.07 M.FUKUSHIMA	JPN 2001	10:53.93 NOBUO USHIMI	JPN 2004
48.82 HIROMU YOSHIMOTO	JPN 2000	2:06.37 FRANK GRIFFITHS	AUS 1994	11:09.76 PAUL E. SPANGLER	USA 1989
50.04 SEIJI TAKAHASHI	JPN 2000	2:10.21 PAUL KRUP	USA 2004	800 M. FREE	
50.25 R.REINSTADTLER	GER 2000	200 M. I.M.		18:49.01 AUSTIN NEWMAN	USA 2005
50.44 WALTER MINNICH	GER 2004	4:07.59 ALDO DA ROSA	USA 2002	19:31.83 WOODY BOWERSOCK	USA 2003
50.69 H.REITEMEYER	GER 2006	4:19.20 ANDREW HOLDEN	USA 2004	20:48.59 JOHN HARRISON	GBR 2004
50.99 PAUL KRUP	USA 2002	4:24.58 WALT PFEIFFER	USA 1998	23:32.20 GUS LANGNER	USA 1998
51.17 KARL WITTENBERG	GER 1995	4:42.38 TOKUSHI KOMEDA	JPN 1999	25:36.41 EUGENE LEHMAN	CAN 2004
51.54 MAX VON ISSER	USA 2004	4:51.91 WILLIAM JOHNSTON	USA 2003	26:55.55 ROMAN JEZEK	CAN 2004
52.09 LUDWIG GEBURZI	GER 2006	4:56.70 HIRONARI UEDA	JPN 2006	1500 M. FREE	
100 M. BRST		5:02.31 HERB EISENSCHMIDT	USA 1991	35:20.36 AUSTIN NEWMAN	USA 2005
1:50.32 HIROMU YOSHIMOTO	JPN 2000	5:08.19 ALDO CAPUTI	ITA 2003	39:33.78 WOODY BOWERSOCK	USA 2004
1:56.21 ALDO DA ROSA	USA 2002	5:23.70 LUIGI DAVOGLIO	ITA 1995	40:43.49 JOHN HARRISON	GBR 2004
1:59.82 Y.MIYAMOTO	JPN 2002	5:54.83 GUS LANGNER	USA 1990	44:48.99 GUS LANGNER	USA 1996
2:00.02 H.REITEMEYER	GER 2006	400 M. I.M.		47:19.71 EUGENE LEHMAN	CAN 2004
2:01.87 LUDWIG GEBURZI	GER 2006	9:32.65 WALT PFEIFFER	USA 1998	51:43.20 PAUL E. SPANGLER	USA 1990
2:03.83 MAX VON ISSER	USA 2004	9:36.09 ANDREW HOLDEN	USA 2004	50 M. BACK	
2:04.45 PAUL KRUP	USA 2002	10:26.11 HIRONARI UEDA	JPN 2006	53.24 R.REINSTADTLER	GER 2002
2:04.71 SEIJI TAKAHASHI	JPN 2000	10:47.13 HERB EISENSCHMIDT	USA 1991	53.32 TOSHIJI SATO	JPN 2005
2:06.89 GIORDANO RAGGI	ITA 1999	11:07.74 WILLIAM JOHNSTON	USA 2003	55.47 KAZUNAGA AKUTSU	JPN 2003
2:07.15 ALFRED SCHULHOF	CAN 2004	12:53.77 DON MCCULLOUGH	USA 2001	56.15 MASAHISA KANEKO	JPN 2003
200 M. BRST		13:01.15 ROY BODINE	USA 1996	57.09 WOODY BOWERSOCK	USA 2003
4:16.20 ALDO DA ROSA	USA 2002	*****		57.73 SHOGORO AZUMA	JPN 2002
4:20.43 HIROMU YOSHIMOTO	JPN 2001	M E N 90-94		59.55 JOHN HARRISON	GBR 2004
4:28.38 Y.MIYAMOTO	JPN 2002	*****		59.92 TOKUSHI KOMEDA	JPN 2006
4:36.88 PAUL KRUP	USA 2002	50 M. FREE		1:00.09 HEINZ JAHR	GER 1997
4:44.32 WALT PFEIFFER	USA 1998	41.07 WOODY BOWERSOCK	USA 2003	1:00.86 NORI YAMAMOTO	JPN 2001
4:45.69 GIORDANO RAGGI	ITA 1999	42.60 GORO KOBAYASHI	JPN 2006	100 M. BACK	
4:49.45 ALFRED SCHULHOF	CAN 2004	42.93 TOKUSHI KOMEDA	JPN 2004	1:47.66 GORO KOBAYASHI	JPN 2006
4:58.98 FRANK GRIFFITHS	AUS 1994	43.89 KAZUNAGA AKUTSU	JPN 2002	1:58.27 TOSHIJI SATO	JPN 2005
5:00.00 BUD JACKSON	USA 2004	45.03 R.REINSTADTLER	GER 2002	2:00.25 R.REINSTADTLER	GER 2002
5:04.17 BRUD CLEVELAND	USA 2002	45.92 MASAHISA KANEKO	JPN 2002	2:06.00 WOODY BOWERSOCK	USA 2003
50 M. FLY		46.23 MASAO UEDA	JPN 2002	2:09.05 MASAHISA KANEKO	JPN 2003
43.35 MAX VON ISSER	USA 2004	46.94 GASTAO FIGUEIREDO	BRA 2000	2:10.00 JOHN HARRISON	GBR 2006
47.89 ANDREW HOLDEN	USA 2004	49.37 HEINZ SIEGEL	GER 2004	2:24.48 JOHN WHITE	USA 2006
50.51 Y.MIYAMOTO	JPN 2002	50.09 GUS LANGNER	USA 1993	2:29.06 NORI YAMAMOTO	JPN 1999
52.74 WALT PFEIFFER	USA 1998	100 M. FREE		2:31.93 JIM TRIOLO	USA 2004
53.00 PAUL KRUP	USA 2004	1:39.26 WOODY BOWERSOCK	USA 2003	2:40.75 JOE KAUFMAN	USA 1995
53.41 LUDWIG GEBURZI	GER 2006	1:41.47 TOKUSHI KOMEDA	JPN 2004	200 M. BACK	
54.74 ALDO DA ROSA	USA 2002	1:47.51 MASAHISA KANEKO	JPN 2002	4:20.68 R.REINSTADTLER	GER 2002
56.72 KAKUICHI YANAGAWA	JPN 2006	1:51.96 HEINZ SIEGEL	GER 2004	4:47.45 WOODY BOWERSOCK	USA 2003
57.12 WILLIAM JOHNSTON	USA 2003	1:54.87 R.REINSTADTLER	GER 2002	4:56.91 GASTAO FIGUEIREDO	BRA 2000
57.69 MIRIO VISENTIN	ARG 2006	1:56.88 GASTAO FIGUEIREDO	BRA 2000	5:00.38 JOHN HARRISON	GBR 2004
100 M. FLY		1:57.38 KAZUNAGA AKUTSU	JPN 2004	5:16.23 JEAN LEEMPUT	FRA 2005
2:01.65 ANDREW HOLDEN	USA 2004	1:58.42 GUS LANGNER	USA 1993	5:18.95 JIM TRIOLO	USA 2004
2:04.50 WALT PFEIFFER	USA 1998	2:01.29 JARING TIMMERMAN	CAN 1999	5:25.49 JOHN WHITE	USA 2006
2:13.39 ALDO DA ROSA	USA 2002	2:06.10 ALFREDO CHERCHI	AUS 1997	5:44.64 JOE KAUFMAN	USA 1996
2:15.74 PAUL KRUP	USA 2003	200 M. FREE		5:52.14 NORI YAMAMOTO	JPN 1999
2:23.30 R.REINSTADTLER	GER 1997	3:39.65 TOKUSHI KOMEDA	JPN 2004	5:54.40 ALFREDO CHERCHI	AUS 1997
2:25.92 ALDO CAPUTI	ITA 2003	3:59.28 WOODY BOWERSOCK	USA 2003	50 M. BRST	
2:26.79 HIRONARI UEDA	JPN 2006	4:20.43 GASTAO FIGUEIREDO	BRA 2000	53.23 HEINZ JAHR	GER 1997
2:28.43 KAKUICHI YANAGAWA	JPN 2006	4:23.15 MASAHISA KANEKO	JPN 2003	55.68 HIROMU YOSHIMOTO	JPN 2005
2:37.89 WILLIAM JOHNSTON	USA 2003	4:27.70 GUS LANGNER	USA 1993	1:00.00 JOHN HARRISON	GBR 2006
2:40.10 LUIGI DAVOGLIO	ITA 1994	4:41.18 L GENE CROSSET	USA 2003	1:02.37 ALDO CAPUTI	ITA 2005
200 M. FLY		4:43.45 AUSTIN NEWMAN	USA 2005	1:03.85 R.REINSTADTLER	GER 2002
4:49.10 WALT PFEIFFER	USA 1998	4:44.76 R.REINSTADTLER	GER 2003	1:04.67 HEINZ SIEGEL	GER 2004
5:01.50 PAUL KRUP	USA 2002	4:45.38 ALFREDO CHERCHI	AUS 1997	1:05.61 HANS PAUL	GER 1998
5:33.83 HIRONARI UEDA	JPN 2006	4:48.21 JARING TIMMERMAN	CAN 1999	1:05.91 MASAHISA KANEKO	JPN 2002
6:10.72 WILLIAM JOHNSTON	USA 2003			1:06.20 KAZUNAGA AKUTSU	JPN 2002

FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2006)

1:07.22 JIM PENFIELD	USA 1998	57.57 GUS LANGNER	USA 1998
100 M. BRST		1:01.65 GERSON SOBEL	USA 2005
2:15.14 HIROMU YOSHIMOTO	JPN 2005	1:06.95 JARING TIMMERMAN	CAN 2004
2:32.87 MASAHISA KANEKO	JPN 2002	1:10.32 ALFREDO CHERCHI	AUS 2002
2:45.20 JIM PENFIELD	USA 1998	1:38.62 ETSURO YASUI	JPN 2006
2:46.31 WALT PFEIFFER	USA 2003	1:43.00 HANS HAHN	GER 2004
2:49.83 ROMAN JEZEK	CAN 2004	2:07.50 BILL REEDER	USA 2006
2:49.96 JIM PANTON	CAN 2004	100 M. FREE	
2:54.08 DERRICK DAVEY	GBR 2004	2:19.51 GUS LANGNER	USA 1998
3:00.04 JOHN HARRISON	GBR 2004	2:31.62 JARING TIMMERMAN	CAN 2004
3:01.95 GUS LANGNER	USA 1993	200 M. FREE	
3:20.84 YONEO TOBASE	JPN 2000	5:13.46 GUS LANGNER	USA 1998
200 M. BRST		5:42.47 ALFREDO CHERCHI	AUS 2002
4:59.71 HIROMU YOSHIMOTO	JPN 2005	400 M. FREE	
5:35.74 MASAHISA KANEKO	JPN 2003	10:51.93 GUS LANGNER	USA 1998
5:58.17 WALT PFEIFFER	USA 2003	800 M. FREE	
6:06.92 ROMAN JEZEK	CAN 2004	22:05.55 GUS LANGNER	USA 1998
6:11.93 ALDO CAPUTI	ITA 2005	1500 M. FREE	
6:22.73 JIM PANTON	CAN 2004	41:29.87 GUS LANGNER	USA 1998
6:41.56 GUS LANGNER	USA 1994	50 M. BACK	
7:20.98 ARTHUR EVANS	AUS 2004	1:10.42 NORI YAMAMOTO	JPN 2004
7:24.29 YONEO TOBASE	JPN 2000	1:25.49 JARING TIMMERMAN	CAN 2004
8:50.40 EUGENE LEHMAN	CAN 2003	1:27.67 GUS LANGNER	USA 1998
50 M. FLY		1:33.27 ALFREDO CHERCHI	AUS 2002
56.09 WALT PFEIFFER	USA 2003	1:45.41 HANS HAHN	GER 2003
1:00.50 HEINZ JAHR	GER 1997	1:58.81 BILL REEDER	USA 2005
1:07.00 ALDO CAPUTI	ITA 2005	100 M. BACK	
1:08.25 R.REINSTADTLER	GER 2002	3:05.23 NORI YAMAMOTO	JPN 2005
1:09.41 HEINZ SIEGEL	GER 2004	3:38.07 GUS LANGNER	USA 1998
1:22.46 NORI YAMAMOTO	JPN 1999	3:59.38 ALFREDO CHERCHI	AUS 2002
1:25.02 JOHN HARRISON	GBR 2004	4:00.58 HANS HAHN	GER 2004
1:29.42 JIM PENFIELD	USA 1998	4:27.89 BILL REEDER	USA 2005
1:38.44 ROMAN JEZEK	CAN 2004	200 M. BACK	
1:40.91 EUGENE LEHMAN	CAN 2004	7:01.87 ALFREDO CHERCHI	AUS 2002
100 M. FLY		8:32.34 GUS LANGNER	USA 1998
2:21.82 WALT PFEIFFER	USA 2003	9:31.21 BILL REEDER	USA 2005
2:41.14 ALDO CAPUTI	ITA 2005	50 M. BRST	
4:25.80 EUGENE LEHMAN	CAN 2003	1:31.60 GUS LANGNER	USA 1998
4:50.20 BILL REEDER	USA 2001	3:07.96 BILL REEDER	USA 2005
200 M. FLY		100 M. BRST	
5:37.23 WALT PFEIFFER	USA 2003	3:35.33 GUS LANGNER	USA 1998
9:14.77 EUGENE LEHMAN	CAN 2003	200 M. BRST	
100 M. I.M.		7:29.31 GUS LANGNER	USA 1998
2:08.86 TOKUSHI KOMEDA	JPN 2004	100 M. I.M.	
2:14.23 WALT PFEIFFER	USA 2003	3:33.98 GUS LANGNER	USA 1998
2:16.67 R.REINSTADTLER	GER 2002	5:45.94 BILL REEDER	USA 2005
2:18.93 ALDO CAPUTI	ITA 2005		
2:24.64 HEINZ SIEGEL	GER 2004	*****	
2:28.50 WOODY BOWERSOCK	USA 2003	M E N 100-104	
2:32.79 NORI YAMAMOTO	JPN 2000	*****	
2:49.39 JOHN HARRISON	GBR 2004	50 M. FREE	
3:00.53 GUS LANGNER	USA 1994	2:06.66 TOM LANE	USA 1995
3:04.52 ROMAN JEZEK	CAN 2004	100 M. FREE	
200 M. I.M.		4:32.29 TOM LANE	USA 1995
5:13.24 WALT PFEIFFER	USA 2003	50 M. BACK	
6:10.00 JOHN HARRISON	GBR 2004	2:02.52 TOM LANE	USA 1995
7:18.74 ROMAN JEZEK	CAN 2004		
7:32.22 EUGENE LEHMAN	CAN 2004		
8:43.21 BILL REEDER	USA 2001		
400 M. I.M.			
11:15.65 WALT PFEIFFER	USA 2003		
15:45.53 EUGENE LEHMAN	CAN 2003		
17:59.19 BILL REEDER	USA 2000		

M E N 95-99

50 M. FREE