



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

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
26.19 LISA ANDERSSON SWE 2007
26.25 CELINE BAILLOD SUI 2007
26.34 MIHO OKUHARA JPN 2003
26.50 LINDA LUND DEN 2009
26.52 ANNE BORINSKI GER 2009
100 M. FREE
55.28 HANNA SHCHERBA FRA 2010
56.30 SHEILA TAORMINA USA 1996
56.91 A.CISNEROS USA 2008
56.96 HITOMI MATSUDA JPN 2005
56.98 AIMEE RAMM GBR 2007
57.09 CELINE BAILLOD SUI 2007
57.10 ALISON TERRY USA 1999
57.47 BERIT PUGGAARD DEN 1998
57.65 TARA HUTT GBR 2004
57.70 KATARIN QUELENNEC FRA 2008
200 M. FREE
1:59.78 SHEILA TAORMINA USA 1996
2:02.50 TATIANA BARBOSA BRA 2007
2:04.59 HITOMI MATSUDA JPN 2005
2:05.67 CELINE BAILLOD SUI 2007
2:05.72 SAMUELA MAGNELLI ITA 2009
2:05.80 REBECCA WILLIAMS NZL 1990
2:06.08 BARBARA KEHBEIN GER 1998
2:06.20 HEIDI HANNENIAN USA 1997
2:06.28 KATIE HENDERSON GBR 2009
2:06.28 TARA HUTT GBR 2005
400 M. FREE
4:17.77 FLAVIA RIGAMONTI USA 2007
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
4:27.07 KELLY HIGGINS AUS 2010
4:27.54 REBECCA WILLIAMS NZL 1990
4:27.78 SUSANNE KELLER SUI 2009
4:27.78 LOUISE STEVENSON AUS 2009
4:27.87 BARBARA KEHBEIN GER 1995
800 M. FREE
8:51.18 SHEILA TAORMINA USA 1996
8:57.39 HITOMI MATSUDA JPN 2006
8:57.67 SUSANNE KELLER SUI 2009
9:00.84 PAULA WOOD GBR 2007
9:07.19 S. PALMER-WHITE AUS 1991
9:08.09 MARIE ATKINSON GBR 2001
9:12.32 LYNN MARSHALL CAN 1991
9:16.98 KELLY HIGGINS AUS 2010
9:17.98 M.VAN KEULEN NED 2005
9:18.99 DIANE M. GRANER USA 1990
1500 M. FREE
16:36.07 SHEILA TAORMINA USA 1996
16:47.66 SUSANNE KELLER SUI 2009
17:00.63 HITOMI MATSUDA JPN 2006
17:24.96 PAULA WOOD GBR 2007
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
17:37.89 ANN LONNBERG DEN 2010
50 M. BACK
29.20 AKIKO MIZUMOTO JPN 2006
29.25 AYA SHIMODA JPN 2010
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
100 M. BACK
1:02.32 AKIKO MIZUMOTO JPN 2007
1:02.48 KANA OHASHI JPN 2007
1:03.26 CAMILLA JOHANSSON USA 2002
1:03.33 LIA OBERSTAR USA 2001
1:03.43 EMILIE JORON FRA 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
1:04.61 KELLY HARRIGAN USA 2010
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
2:18.22 KELLY HARRIGAN USA 2010
2:18.65 CAMILLA JOHANSSON USA 2002
2:19.05 PAMELA HANSON USA 2004
2:20.10 CARLA BORGES BRA 2008
2:20.12 BIRGIT DEURING GER 1996
2:20.60 EMILIE JORON FRA 2008
50 M. BRST
31.87 MEGAN JENDRICK USA 2010
31.97 NICOLE HEIDEMANN GER 2009
32.20 TRACEY MIRANDE USA 1995
32.25 CELINE BAILLOD SUI 2007
32.76 HITOMI MATSUDA JPN 2006
32.80 RILEY WEST CAN 2004
32.85 LINDA LUND DEN 2009
33.18 KATIE HENDERSON GBR 2009
33.50 RIA WILLEMSE NED 1989
33.55 RYOKO MARYAMA JPN 2009
100 M. BRST
1:09.80 LINDA LUND DEN 2009
1:10.17 KATIE HENDERSON GBR 2009
1:10.55 HITOMI MATSUDA JPN 2005
1:10.68 JULIA VENDEVILLE FRA 2009
1:10.71 MANUELA NACKEL GER 1998
1:11.00 CELINE BAILLOD SUI 2007
1:11.53 NICOLE HEIDEMANN GER 2010
1:11.80 RILEY WEST CAN 2004
1:12.98 SUSANNE HOCK GER 2010
1:13.26 SILVA PULFRICH GER 2003
200 M. BRST
2:30.29 KATIE HENDERSON GBR 2009
2:31.18 HITOMI MATSUDA JPN 2006
2:32.73 RILEY WEST CAN 2004
2:35.45 NICOLE HEIDEMANN GER 2010
2:35.66 ANDREA PACKARD USA 2001
2:36.82 KATJA BRASCHLOSS GER 2007
2:36.93 LINDA LUND DEN 2009
2:37.16 NATHALIE ELORRIET FRA 2000
2:37.35 HELEN GORMAN GBR 1998

2:38.79 CLAIRE DESDOIT FRA 2009
50 M. FLY
27.29 YUKO NAKANISHI JPN 2010
27.88 NADINE ROLLAND CAN 2004
27.89 A.CISNEROS USA 2008
27.94 C. MARGRISON AUS 2010
27.98 MABI TSUKIOKA JPN 2008
28.11 AIMEE RAMM GBR 2007
28.16 SOPHIA SKOU DEN 2004
28.17 SARAH HEALEY GBR 2008
28.24 LINDA LUND DEN 2009
28.35 ALEXA WHITE GBR 2004
100 M. FLY
1:00.18 YUKO NAKANISHI JPN 2010
1:01.33 SHEILA TAORMINA USA 1996
1:01.37 A.CISNEROS USA 2008
1:01.46 HITOMI MATSUDA JPN 2005
1:01.70 LINDA LUND DEN 2009
1:01.97 SOPHIA SKOU DEN 2004
1:02.18 SARAH HEALEY GBR 2008
1:03.18 MABI TSUKIOKA JPN 2008
1:03.36 AIMEE RAMM GBR 2007
1:03.44 BERIT PUGGAARD DEN 1998
200 M. FLY
2:09.64 YUKO NAKANISHI JPN 2010
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
2:23.46 SAMUELA MAGNELLI ITA 2009
2:23.53 EDITH BELANGER CAN 2008
100 M. I.M.
1:03.67 HITOMI MATSUDA JPN 2005
1:04.36 LINDA LUND TIETZE DEN 2010
1:04.77 NADINE ROLLAND CAN 2004
1:04.97 CELINE BAILLOD SUI 2008
1:05.13 YUKO NAKANISHI JPN 2010
1:05.42 NICOLE HEIDEMANN GER 2009
1:05.67 WENKE HANSEN USA 1998
1:06.00 MANUELA NACKEL GER 1999
1:06.06 NANAMI URATA JPN 2009
1:06.18 KANA OHASHI JPN 2003
200 M. I.M.
2:17.17 HITOMI MATSUDA JPN 2006
2:17.35 ERIKO KATO JPN 2009
2:19.48 CELINE BAILLOD SUI 2007
2:21.79 WENKE HANSEN USA 1998
2:22.00 KANA OHASHI JPN 2007
2:22.53 NATALIE EFFEMEY GBR 2010
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
400 M. I.M.
4:52.13 HITOMI MATSUDA JPN 2006
4:52.81 ERIKO KATO JPN 2009
4:55.85 KANA OHASHI JPN 2006
4:56.01 CELINE BAILLOD SUI 2008
4:56.98 ALESSANDRA CORTES BRA 1999
4:58.92 LOUISE STEVENSON AUS 2009
5:01.26 HELEN SLATTER GBR 1997
5:01.69 KATIE HENDERSON GBR 2009
5:02.47 CINDY BERTELINK CAN 2004
5:02.54 WENKE HANSEN USA 1998



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

*****			17:51.25	LISA HAZEN	USA 1995	2:41.23	SATSUKI HIRUKAWA	JPN 2010
*****			17:55.18	DARCY MUSSELMAN	CAN 2001	2:41.63	KAREN JACKSON	GBR 2004
*****			17:58.96	LAURIE HUG	USA 1999	50 M. FLY		
*****			50 M. BACK			26.79	MARTINA MORAVCOVA	USA 2006
*****			27.43	MAI NAKAMURA	JPN 2009	27.81	METTE JACOBSEN	DEN 2006
*****			27.61	NORIKO INADA	USA 2009	27.97	NADINE ROLLAND	CAN 2008
*****			28.99	METTE JACOBSEN	DEN 2006	28.05	KATRINA RADKE	USA 2004
*****			29.44	NADINE ROLLAND	CAN 2005	28.16	HITOMI MATSUDA	JPN 2010
*****			29.58	KANA OHASHI	JPN 2009	28.34	WENKE HANSEN	USA 2000
*****			30.08	NAHOMI SHIRATA	JPN 2006	28.48	ALFONSINA IRACE	ITA 2010
*****			30.11	GISELI PEREIRA	BRA 2003	28.56	YAYOI SAKAMOTO	JPN 2009
*****			30.14	D.GRANER-GALLAS	USA 1996	28.63	HELENA ABERG	SWE 2005
*****			30.18	MERITXELL GONFAUS	ESP 2009	28.72	ANNA LOHAMANN	SWE 2009
*****			30.36	ANDREA KUTZ	GER 2005	28.72	YUKI WAKUI	JPN 2004
*****			100 M. BACK			100 M. FLY		
*****			59.53	NORIKO INADA	USA 2009	59.11	MARTINA MORAVCOVA	USA 2006
*****			1:00.90	KANA YAMAGUCHI	JPN 2010	1:00.11	METTE JACOBSEN	DEN 2006
*****			1:01.39	KANA OHASHI	JPN 2009	1:00.35	HITOMI MATSUDA	JPN 2008
*****			1:02.88	METTE JACOBSEN	DEN 2006	1:02.39	NADINE ROLLAND	CAN 2005
*****			1:03.36	K.PIPES-NEILSEN	USA 1996	1:02.65	BERIT PUGGAARD	DEN 2004
*****			1:04.03	J HUDGELL	NZL 1986	1:02.70	WENKE HANSEN	USA 2000
*****			1:04.16	D.GRANER-GALLAS	USA 1996	1:03.04	ANJA BEHA	GER 2005
*****			1:04.30	CAMILLA JOHANSSON	SWE 2004	1:03.21	KATRINA RADKE	USA 2003
*****			1:04.99	NADINE ROLLAND	CAN 2008	1:03.34	LAURA BIANZANI	ITA 2006
*****			1:05.02	GISELI PEREIRA	BRA 2003	1:03.74	FLORENCE CIOTTI	ITA 2006
*****			200 M. BACK			200 M. FLY		
*****			2:12.40	KANA OHASHI	JPN 2009	2:13.09	HITOMI MATSUDA	JPN 2008
*****			2:12.47	L.OBERSTAR-BROWN	USA 2008	2:19.34	LAURA BIANZANI	ITA 2004
*****			2:13.51	K.PIPES-NEILSEN	USA 1996	2:19.34	KATRINA RADKE	USA 2003
*****			2:14.77	KANA YAMAGUCHI	JPN 2010	2:19.64	K PIPES-NEILSEN	USA 1996
*****			2:18.19	JOANNA CORBEN	GBR 2002	2:21.15	L. CARVALHO	AUS 2010
*****			2:19.60	D.GRANER-GALLAS	USA 1996	2:21.21	FLORENCE CIOTTI	ITA 2006
*****			2:19.66	JO SWATTON	GBR 2000	2:23.00	ANTJE AUHL	GER 2009
*****			2:21.41	VALERIE HADD	CAN 2009	2:24.17	KATE VEALE	GBR 2000
*****			2:21.80	YOSHIMI HAMADA	JPN 2010	2:24.52	MELISSA VARLAS	USA 2005
*****			2:24.11	K.WULFF-HOPPE	GER 2002	2:24.75	SANDIE EASTON	USA 2001
*****			50 M. BRST			100 M. I.M.		
*****			31.12	BRITTA STEVENS	GER 2003	1:02.07	MARTINA MORAVCOVA	USA 2006
*****			31.71	HITOMI MATSUDA	JPN 2010	1:02.55	HITOMI MATSUDA	JPN 2010
*****			32.72	YUKO SAKAGUCHI	JPN 2010	1:04.44	NADINE ROLLAND	CAN 2005
*****			32.82	WENKE HANSEN	USA 2000	1:04.96	WENKE HANSEN	USA 1999
*****			32.95	MARIONA COSTA	ESP 2010	1:05.10	SYLVIA GERASCH	GER 2000
*****			33.13	SUKI BROWNSDON	GBR 1995	1:05.16	K.PIPES-NEILSEN	USA 1995
*****			33.65	NADINE ROLLAND	CAN 2008	1:05.58	HIDEKO HIRANAKA	JPN 2004
*****			33.74	DAGMAR HILBIG	GER 1992	1:05.68	MARIONA COSTA	ESP 2010
*****			33.90	ISABEL FIGUERIA	POR 2010	1:06.25	KANA OHASHI	JPN 2008
*****			33.99	A.BEAL CLEUZIQU	FRA 2009	1:06.29	NORIKO INADA	USA 2008
*****			100 M. BRST			200 M. I.M.		
*****			1:06.98	HITOMI MATSUDA	JPN 2010	2:13.41	HITOMI MATSUDA	JPN 2009
*****			1:10.00	WENKE HANSEN	USA 2000	2:18.79	K.PIPES-NEILSEN	USA 1996
*****			1:11.49	MARIONA COSTA	ESP 2010	2:18.89	WENKE HANSEN	USA 2000
*****			1:11.74	YUKO SAKAGUCHI	JPN 2010	2:19.07	KANA YAMAGUCHI	JPN 2010
*****			1:11.81	SUKI BROWNSDON	GBR 1995	2:22.66	CYNTHIA LEWIS	USA 2009
*****			1:12.05	CYNTHIA LEWIS	USA 2009	2:22.68	LAUREN THIES	USA 2010
*****			1:12.80	SYLVIA GERASCH	GER 2000	2:22.72	KATRINA RADKE	USA 2003
*****			1:12.86	SATSUKI HIRUKAWA	JPN 2010	2:22.73	KANA OHASHI	JPN 2009
*****			1:12.93	CYNTHIA LEWIN	USA 2008	2:23.04	A.JANITZKI	GER 2010
*****			1:13.31	ISABEL FIGUERIA	POR 2010	2:23.49	CINDY BERTELINK	CAN 2005
*****			200 M. BRST			400 M. I.M.		
*****			2:26.96	HITOMI MATSUDA	JPN 2009	4:45.07	HITOMI MATSUDA	JPN 2010
*****			2:30.65	WENKE HANSEN	USA 2000	4:51.33	HIDEKO HIRANAKA	JPN 2004
*****			2:37.34	A.JANITZKI	GER 2010	4:53.85	K PIPES-NEILSEN	USA 1996
*****			2:37.60	MARIONA COSTA	ESP 2010	4:55.62	KANA YAMAGUCHI	JPN 2010
*****			2:37.84	CYNTHIA LEWIS	USA 2008	4:58.16	KANA OHASHI	JPN 2009
*****			2:39.65	SYLVIA GERASCH	GER 2000	5:04.56	BARBARA KEHBEIN	GER 2000
*****			2:40.08	SUKI BROWNSDON	GBR 1997	5:06.05	SUKI BROWNSDON	GBR 1997
*****			2:40.61	CAROLINE MATHIAS	FRA 2006	5:07.17	CYNTHIA LEWIS	USA 2009
*****			1500 M. FREE					
*****			17:01.56	KIRSTEN CAMERON	NZL 2007			
*****			17:13.38	HITOMI MATSUDA	JPN 2007			
*****			17:21.99	LYNN MARSHALL	CAN 1992			
*****			17:23.60	KAREN BURTON	USA 1994			
*****			17:44.19	ALISON ZAMANIAN	USA 2004			
*****			17:46.97	JACQUI ROBINSON	AUS 2005			
*****			17:48.12	CYNTHIA LEWIS	USA 2009			



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

5:07.39 NADINE DAY	USA 2002	17:36.58 KRISTINA ULVELING	USA 2008	2:44.36 NADINE DAY	USA 2006
5:07.66 ANA GRILO	POR 2003	17:42.37 ASA NEIJ	SWE 2010	2:44.49 KELLY LEGASPI	USA 2009

WOMEN 35-39					

50 M. FREE		50 M. BACK		50 M. FLY	
25.10 DARA TORRES	USA 2006	28.68 SHERI HART	USA 2009	28.37 GISELI PEREIRA	BRA 2009
26.13 S.NEILSON-BELL	USA 1995	29.00 GISELI PEREIRA	BRA 2009	28.58 SHERI HART	USA 2009
26.33 ZOE CRAY	GBR 2010	29.34 ZOE CRAY	GBR 2009	28.60 YOKO YAMAGUCHI	JPN 2009
26.63 HELENA ABERG	SWE 2007	29.91 CINDY MABEE	CAN 2008	28.65 ZOE CRAY	GBR 2009
26.70 SHERI HART	USA 2008	30.73 BERIT PUGGAARD	DEN 2009	28.68 TRACIE MOLL	USA 2001
26.78 FALL WILLEBOORDSE	USA 2002	30.73 K PIPES-NEILSEN	USA 1999	28.86 HELENA ABERG	SWE 2007
26.99 MARIE ARMENTERO	ITA 2003	30.92 MARIKA MC CUE	USA 2002	29.08 K PIPES-NEILSEN	USA 2000
27.03 MARIKA JOHANSSON	SWE 2005	31.03 HELEN JAMESON	GBR 1998	29.09 DEBBIE YOUNGER	CAN 2005
27.10 YUKIKO OZAWA	JPN 2003	31.15 CAMILLA JOHANSSON	SWE 2009	29.24 ANNA LOHAMANN	SWE 2010
27.15 COLLETTE SAPPEY	USA 2002	31.24 MARIANNE KRIEL	RSA 2006	29.31 SILVIA PAROCCHI	ITA 2005
27.15 TRACIE MOLL	USA 2001	100 M. BACK		100 M. FLY	
100 M. FREE		1:02.36 SHERI HART	USA 2009	1:03.07 DEBBIE YOUNGER	CAN 2005
54.95 DARA TORRES	USA 2006	1:03.11 GISELI PEREIRA	BRA 2009	1:03.29 K PIPES-NEILSEN	USA 1997
57.48 ZOE CRAY	GBR 2010	1:03.38 ZOE CRAY	GBR 2009	1:04.01 KYOKO YAMADA	JPN 2009
57.65 K PIPES-NEILSEN	USA 2000	1:03.56 K PIPES-NEILSEN	USA 1997	1:04.09 MELANIA BUSSIÈRE	CAN 2008
57.79 KARIN SEICK	GER 1996	1:04.61 CINDY MABEE	CAN 2008	1:04.33 TRACIE MOLL	USA 2001
58.09 SHERI HART	USA 2008	1:05.61 C.J-SPONCELLER	SWE 2010	1:04.37 YOKO YAMAGUCHI	JPN 2009
58.57 MANUELA SCHUBERT	GER 2006	1:05.93 KARIN SEICK	GER 1996	1:04.64 LYNNE HAYES	AUS 2007
58.62 S.NEILSON-BELL	USA 1995	1:05.94 D GRANER GALLAS	USA 1999	1:05.31 BETH BAKER	USA 2000
58.66 BETH KNIGHT	USA 1994	1:06.02 JOANNA CORBEN	GBR 2005	1:05.36 GISELI PEREIRA	BRA 2009
58.73 MELANIA BUSSIÈRE	CAN 2008	1:06.47 MELANIA BUSSIÈRE	CAN 2008	1:05.49 NADINE DAY	USA 2005
58.79 JILL HERNANDEZ	USA 1999	200 M. BACK		200 M. FLY	
200 M. FREE		2:14.10 K PIPES-NEILSEN	USA 1997	2:18.41 K PIPES-NEILSEN	USA 1997
2:03.56 K PIPES-NEILSEN	USA 1997	2:14.49 GISELI PEREIRA	BRA 2009	2:21.18 KYOKO YAMADA	JPN 2010
2:05.70 KIRSTEN CAMERON	NZL 2010	2:19.22 C.J-SPONCELLER	SWE 2010	2:21.76 DEBBIE YOUNGER	CAN 2005
2:06.18 LAUREEN WELTING	USA 2000	2:19.82 JOANNA CORBEN	GBR 2006	2:24.80 KATE VEALE	GBR 2002
2:06.86 JILL HERNANDEZ	USA 1999	2:22.08 CINDY MABEE	CAN 2008	2:25.06 JILL HERNANDEZ	USA 1997
2:06.96 D GRANER GALLAS	USA 1999	2:22.82 DAPHNE FUCHS	GER 1998	2:25.52 NADINE DAY	USA 2006
2:06.99 VALERIA VERGANI	ITA 2006	2:23.23 ASA NEIJ	SWE 2010	2:25.81 ALISON ZAMANIAN	USA 2009
2:07.36 MELANIA BUSSIÈRE	CAN 2008	2:23.86 SILVIA PAROCCHI	ITA 2002	2:25.91 LAUREEN WELTING	USA 2000
2:07.58 S.NEILSON-BELL	USA 1995	2:24.71 DEBBIE YOUNGER	CAN 2005	2:25.96 KRISTINA ULVELING	USA 2008
2:07.69 ANA PAULA GRILO	POR 2004	2:25.89 ANDREA LUALLEN	USA 2001	2:25.96 NICOLA LATTY	GBR 2007
2:07.74 BETH KNIGHT	USA 1994	50 M. BRST		100 M. I.M.	
400 M. FREE		32.13 LINLEY FRAME	AUS 2010	1:04.61 SHERI HART	USA 2009
4:22.56 K PIPES-NEILSEN	USA 1999	33.03 CAROLINE KRATTLI	USA 2000	1:05.40 K PIPES-NEILSEN	USA 2000
4:24.56 LAUREEN WELTING	USA 2000	33.14 KELLY LEGASPI	USA 2009	1:05.53 ZOE CRAY	GBR 2009
4:26.57 JILL HERNANDEZ	USA 1999	33.89 DAGMAR HILBIG	GER 1993	1:06.50 SILVIA PAROCCHI	ITA 2005
4:27.62 VALERIA VERGANI	ITA 2006	33.91 P.BRULHART N'DULA	SUI 2003	1:07.03 CYNTHIA LEWIS	USA 2010
4:29.09 PENNY BOND	AUS 1999	33.96 MARIT BREITFELD	GER 2010	1:07.31 NADINE DAY	USA 2005
4:29.30 KIRSTEN CAMERON	NZL 2010	34.25 MONIKA MESSNER	AUT 2010	1:07.44 KAORU OHISA	JPN 2010
4:29.71 ASA NEIJ	SWE 2008	34.32 STEFANIA MONTI	ITA 2005	1:07.51 DEBBIE YOUNGER	CAN 2005
4:30.30 ANA PAULA GRILO	POR 2004	34.50 S.SEMINATORE	ITA 2003	1:07.53 CAROLINE KRATTLI	USA 2000
4:31.35 ALISON ZAMANIAN	USA 2008	34.51 MANAMI HARAKAWA	JPN 2010	1:07.61 GISELI PEREIRA	BRA 2010
4:31.94 CHARLOTT PETERSEN	USA 2001	100 M. BRST		200 M. I.M.	
800 M. FREE		1:10.65 LINLEY FRAME	AUS 2010	2:19.08 K PIPES-NEILSEN	USA 2000
8:57.30 KIRSTEN CAMERON	NZL 2010	1:11.97 CAROLINE KRATTLI	USA 2000	2:23.47 DEBBIE YOUNGER	CAN 2005
9:12.97 ALISON ZAMANIAN	USA 2006	1:12.82 CYNTHIA LEWIS	USA 2010	2:24.46 CYNTHIA LEWIS	USA 2010
9:13.05 ASA NEIJ	SWE 2008	1:13.08 KELLY LEGASPI	USA 2009	2:24.94 NADINE DAY	USA 2005
9:14.27 LAURIE HUG	USA 2000	1:13.85 MARIT BREITFELD	GER 2010	2:25.26 KARIN SEICK	GER 1996
9:14.92 KRISTINA ULVELING	USA 2008	1:14.55 ANNETT REX	GER 2004	2:25.39 JILL HERNANDEZ	USA 1997
9:15.40 K PIPES-NEILSEN	USA 1998	1:15.01 MONIKA MESSNER	AUT 2010	2:25.42 C.J-SPONCELLER	SWE 2010
9:17.93 PENNY BOND	AUS 1997	1:15.50 NADINE DAY	USA 2005	2:26.10 KATE VEALE	GBR 2001
9:20.34 LAURIE DODD	USA 2007	1:15.56 STEFANIA MONTI	ITA 2004	2:26.89 SILVIA PAROCCHI	ITA 2005
9:21.70 VALERIA VERGANI	ITA 2009	1:15.65 K PIPES-NEILSEN	USA 1997	2:27.54 CINDY BERTELINK	CAN 2010
9:21.94 LYNN MARSHALL	CAN 1996	200 M. BRST		400 M. I.M.	
1500 M. FREE		2:36.04 CAROLINE KRATTLI	USA 2000	4:52.83 K PIPES-NEILSEN	USA 1997
17:07.48 KIRSTEN CAMERON	NZL 2010	2:39.26 CYNTHIA LEWIS	USA 2010	5:02.22 LAUREEN WELTING	USA 2000
17:27.84 LAURIE HUG	USA 2000	2:40.80 MONIKA MESSNER	AUT 2010	5:09.87 NADINE DAY	USA 2006
17:35.69 PENNY BOND	AUS 1997	2:42.58 HELEN GORMAN	GBR 2008	5:10.43 JILL HERNANDEZ	USA 1999
17:36.24 K PIPES-NEILSEN	USA 1999	2:43.99 YUKA KAWAI	JPN 2010	5:11.54 CINDY BERTELINK	CAN 2010
				5:12.40 VALERIA VERGANI	ITA 2007



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

5:12.42 KATE VEALE	GBR 2002	17:52.93 N.MUIR-COCHRANE	GBR 2004	2:43.88 MARZENA KULIS	ITA 2008
5:12.55 SARA NELSON	USA 2008	17:55.11 AMANDA PICARD	SUI 2009	2:44.80 KEIKO OKAMOTO	JPN 2009
5:12.75 ANA PAULA GRILO	POR 2004	18:02.62 SUZANN HEIM-BOWEN	USA 1998	2:46.13 ANGELA DELISSEN	GER 2007
5:13.70 JOANNA CORBEN	GBR 2007	18:03.41 LAURIE HUG	USA 2008	2:47.00 S.SEMINATORE	ITA 2004

WOMEN 40-44					

50 M. FREE		50 M. BACK		50 M. FLY	
26.40 MARIKA JOHANSSON	SWE 2008	30.00 CINDY MABEE	CAN 2009	28.13 GABRIELE BLANK	GER 2006
26.66 S.NEILSON-BELL	USA 1996	30.72 JODY SMITH	USA 2009	28.21 SUSAN VD LIPPE	USA 2005
26.67 EDITH OTTERMANN	RSA 2007	30.74 KRISTIN GARY	USA 2008	28.86 SILVIA PAROCCHI	ITA 2007
26.70 S. VON DER LIPPE	USA 2008	30.97 K.PIPES-NEILSEN	USA 2005	29.06 ASTRID BENCSEK	SWE 2000
26.70 GIOVANNI MORELLI	SUI 2007	30.99 JUNKO NAKANO	JPN 2009	29.07 EDITH OTTERMANN	RSA 2009
26.75 JUNKO NAKANO	JPN 2010	31.06 FALL WILLEBOORDSE	USA 2009	29.29 YOKO YAMAGUCHI	JPN 2010
26.95 BETH KNIGHT	USA 1999	31.40 MARIKA MCCUE	USA 2003	29.45 MARIE SADLER	GBR 2000
27.04 HAYLEY BETTINSON	GBR 2006	31.44 JULIE ROBERTS	USA 2008	29.51 K PIPES-NEILSEN	USA 2003
27.05 JENNIE BUCKNELL	AUS 2009	31.53 SYLVIE ALLERY	FRA 2009	29.57 DANIELA DE PONTI	ITA 2006
27.18 SARAH MACDONALD	CAN 2004	31.55 LAURA VAL	USA 1993	29.68 BETH BAKER	USA 2001
100 M. FREE		100 M. BACK		100 M. FLY	
57.55 S.VON DER LIPPE	USA 2008	1:04.63 CINDY MABEE	CAN 2009	1:01.70 S.VON DER LIPPE	USA 2009
57.60 K PIPES-NEILSEN	USA 2003	1:05.43 K PIPES-NEILSEN	USA 2002	1:03.31 K PIPES-NEILSEN	USA 2003
58.81 JILL HERNANDEZ	USA 2000	1:05.56 KRISTIN GARY	USA 2009	1:04.91 YOKO YAMAGUCHI	JPN 2010
59.14 JENNIE BUCKNELL	AUS 2010	1:05.91 JODY SMITH	USA 2009	1:04.93 SILVIA PAROCCHI	ITA 2006
59.55 JENNIFER WILLIS	USA 2009	1:06.61 SILVIA PAROCCHI	ITA 2008	1:05.19 BIRGIT LOHBERG	USA 2009
59.71 ANA PAULA GRILO	ESP 2009	1:06.85 FALL WILLEBOORDSE	USA 2010	1:05.45 DANIELA DE PONTI	ITA 2006
59.77 SARAH MACDONALD	CAN 2003	1:07.30 SYLVIE ALLERY	FRA 2009	1:05.49 BETH BAKER	USA 2001
59.82 JULIE GIBSON	GBR 2009	1:07.75 VIBEKE SWANSON	USA 2002	1:05.84 JILL HERNANDEZ	USA 2000
59.83 S.NEILSON-BELL	USA 1996	1:07.92 BETH BAKER	USA 2001	1:05.93 JULIE GIBSON	GBR 2009
59.88 SILVIA PAROCCHI	ITA 2007	1:07.96 JENNIFER WILLIS	USA 2009	1:06.10 ANGELA DELISSEN	GER 2008
200 M. FREE		1:07.96 UTE ROMBERG	GER 2001	200 M. FLY	
2:05.26 K PIPES-NEILSEN	USA 2003	200 M. BACK		2:20.66 SUSAN VD LIPPE	USA 2006
2:05.55 S.VON DER LIPPE	USA 2008	2:19.06 JODY SMITH	USA 2009	2:20.71 K PIPES-NEILSEN	USA 2002
2:06.81 JILL HERNANDEZ	USA 2000	2:19.09 K PIPES-NEILSEN	USA 2003	2:25.30 JUDY BROWN	GBR 2005
2:09.10 BIRGIT LOHBERG	USA 2009	2:22.02 CINDY MABEE	CAN 2009	2:26.07 BIRGIT LOHBERG	USA 2006
2:09.53 BETH KNIGHT	USA 1999	2:22.68 KRISTIN GARY	USA 2008	2:26.15 BETH BAKER	USA 2001
2:10.16 JODY SMITH	USA 2009	2:23.22 SILVIA PAROCCHI	ITA 2006	2:26.31 YOKO YAMAGUCHI	JPN 2010
2:10.56 AMANDA PICARD	SUI 2008	2:24.81 JOANNA CORBEN	GBR 2010	2:27.12 JULIE GIBSON	GBR 2009
2:10.64 JENNIFER RIDGE	USA 2009	2:25.78 BETH BAKER	USA 2001	2:27.65 ANGELA DELISSEN	GER 2008
2:10.70 KATLIN VOLK	GER 2010	2:27.40 LAURA SMITH	USA 2008	2:28.39 MARZENA KULIS	ITA 2007
2:11.16 SILVIA PAROCCHI	ITA 2006	2:28.01 VIBEKE SWANSON	USA 2002	2:28.50 LYNN MARSHALL	CAN 2004
400 M. FREE		2:29.22 HELEN WHITFORD	AUS 2007	100 M. I.M.	
4:21.75 K PIPES-NEILSEN	USA 2003	50 M. BRST		1:04.25 S.VON DER LIPPE	USA 2008
4:24.22 JILL HERNANDEZ	USA 2000	32.29 S.VON DER LIPPE	USA 2009	1:05.56 K PIPES-NEILSEN	USA 2003
4:28.58 AMANDA PICARD	SUI 2008	33.67 CAROLINE KRATTLI	USA 2003	1:07.20 CAROLINE KRATTLI	USA 2002
4:32.89 LYNN MARSHALL	CAN 2001	33.69 STEFANIA MONTI	ITA 2010	1:08.14 ANGELA DELISSEN	GER 2009
4:34.33 S.VON DER LIPPE	USA 2009	34.11 MAGGIE KELLY	GBR 2000	1:08.18 SILVIA PAROCCHI	ITA 2006
4:34.83 BIRGIT LOHBERG	USA 2005	34.31 MARZENA KULIS	ITA 2007	1:08.48 MAGGIE KELLY	GBR 1998
4:34.83 SUZANN HEIM-BOWEN	USA 1998	34.34 DAGMAR HILBIG	GER 1998	1:08.49 FALL WILLEBOORDSE	USA 2009
4:36.94 KATLIN VOLK	GER 2010	34.38 H.MORRIS-EYTON	RSA 2009	1:08.74 ANETTE PHILIPSSON	SWE 2008
4:37.16 JENNIFER RIDGE	USA 2009	34.41 DORIS KAUFMANN	AUT 2010	1:08.82 SARAH MACDONALD	CAN 2003
4:37.53 HELEN WHITFORD	AUS 2009	34.57 PETRA LANG	AUT 2010	1:08.91 JILL HERNANDEZ	USA 2004
800 M. FREE		34.98 K PIPES-NEILSEN	USA 2002	200 M. I.M.	
9:09.71 K PIPES-NEILSEN	USA 2003	100 M. BRST		2:19.21 S.VON DER LIPPE	USA 2007
9:16.07 AMANDA PICARD	SUI 2008	1:10.55 S.VON DER LIPPE	USA 2007	2:20.55 K PIPES-NEILSEN	USA 2003
9:21.44 LYNN MARSHALL	CAN 2001	1:12.08 CAROLINE KRATTLI	USA 2003	2:22.51 JILL HERNANDEZ	USA 2000
9:26.96 N.MUIR-COCHRANE	GBR 2004	1:13.16 MARZENA KULIS	ITA 2007	2:25.86 BIRGIT LOHBERG	USA 2006
9:29.90 SUZANN HEIM-BOWEN	USA 1998	1:14.79 MAGGIE KELLY	GBR 1998	2:26.51 CAROLINE KRATTLI	USA 2003
9:30.29 LESLEIGH MAYES	AUS 2000	1:15.66 H.MORRIS-EYTON	RSA 2008	2:26.80 ANGELA DELISSEN	GER 2009
9:32.90 LAURIE HUG	USA 2008	1:15.69 ANGELA DELISSEN	GER 2009	2:27.37 JODY SMITH	USA 2009
9:35.07 CLAUDIA KERN	GER 2006	1:16.75 LOUISE MORRIS	GBR 2009	2:27.66 SILVIA PAROCCHI	ITA 2007
9:37.48 JILL GELLATLY	USA 2009	1:17.02 DAGMAR HILBIG	GER 2000	2:28.10 VIBEKE SWANSON	USA 2001
9:38.14 MARGEE CURRAN	USA 2005	1:17.04 K PIPES-NEILSEN	USA 2002	2:28.77 NADINE DAY	USA 2010
1500 M. FREE		1:17.55 KEIKO OKAMOTO	JPN 2010	400 M. I.M.	
17:35.49 ALISON ZAMANIAN	USA 2010	200 M. BRST		5:00.82 K PIPES-NEILSEN	USA 2002
17:38.37 LYNN MARSHALL	CAN 2002	2:32.37 S.VON DER LIPPE	USA 2008	5:02.17 JILL HERNANDEZ	USA 2000
17:45.50 K PIPES-NEILSEN	USA 2003	2:39.10 CAROLINE KRATTLI	USA 2002	5:03.49 SUSAN VD LIPPE	USA 2006
		2:41.87 H.MORRIS-EYTON	RSA 2009	5:13.39 BIRGIT LOHBERG	USA 2006



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

5:13.86	VIBEKE SWANSON	USA	2001	17:50.64	SUZANN HEIM-BOWEN	USA	2004	2:42.10	CAROLINE KRATTLI	USA	2007
5:15.87	ANA PAULA GRILO	ESP	2009	18:34.95	SUSANNA ROSEN	SWE	2009	2:47.91	K.PIPES-NEILSEN	FRA	2009
5:16.55	HELEN WHITFORD	AUS	2009	18:38.83	ANDREA BLOCK	USA	2009	2:48.38	JENNY WHITELEY	AUS	2003
5:18.30	ANGELA DELISSEN	GER	2007	18:40.49	SUSANNE SIMPSON	USA	2008	2:48.56	JUDIT HAIDU	AUT	2007
5:18.65	NADINE DAY	USA	2010	18:41.77	M.ELIAS-WILLIAMS	USA	2009	2:49.50	MONICA CORO	ITA	2007
5:21.60	LYNN MARSHALL	CAN	2001	18:50.04	N.MUIR-COCHRANE	GBR	2009	2:50.41	CLAUDIA KERN	GER	2009
*****				18:52.67	MARGEE CURRAN	USA	2007	2:51.75	LISA WARD	USA	2009
*****				18:55.82	LAURA VAL	USA	1998	2:53.23	AMANDA HEATH	GBR	2003
*****				18:58.40	C.TARANTINO	ITA	2002	50 M. FLY			
*****				50 M. BACK				28.72	S.VON DER LIPPE	USA	2010
*****				30.58	K.PIPES-NEILSEN	USA	2007	29.10	HAYLEY BETTINSON	GBR	2009
50 M. FREE				31.14	LESLIE LIVINGSTON	USA	2010	29.21	LAURIE DITOMMASO	USA	2008
27.09	K.PIPES-NEILSEN	USA	2007	31.45	BARBARA OPITZ	GER	2006	29.40	K.PIPES-NEILSEN	FRA	2009
27.17	HAYLEY BETTINSON	GBR	2009	31.66	ELLEN REYNOLDS	USA	2010	29.69	LESLIE LIVINGSTON	USA	2009
27.31	SARAH MACDONALD	CAN	2005	32.02	SHIZUKO HIRAISHI	JPN	2009	29.71	SHIZUKO HIRAISHI	JPN	2009
27.54	LISA DAHL	USA	2006	32.51	LAURIE DITOMMASO	USA	2008	29.97	USCHI DUMIG	GER	2005
27.69	LIZ HOBBS	USA	2007	32.54	VIBEKE SWANSON	USA	2006	30.02	KARIN SEICK	GER	2006
27.77	KARIN SEICK	GER	2006	32.59	K.ANDRUS-HUGHES	USA	2006	30.13	DANIELA DE PONTI	ITA	2010
27.78	JENNY WHITELEY	AUS	2003	32.61	SUSANNA ROSEN	SWE	2009	30.18	LISA DAHL	USA	2006
27.80	STEFANIE NIEMIETZ	GER	2008	32.63	ANETTE PHILIPSSON	SWE	2010	100 M. FLY			
27.80	MARIA NORBERG	SWE	2009	100 M. BACK				1:03.47	S.VON DER LIPPE	USA	2010
27.95	DANIELA DE PONTI	ITA	2010	1:04.46	K.PIPES-NEILSEN	FRA	2009	1:03.96	K.PIPES-NEILSEN	USA	2009
100 M. FREE				1:07.21	ELLEN REYNOLDS	USA	2009	1:06.75	SHIZUKO HIRAISHI	JPN	2008
58.61	K.PIPES-NEILSEN	USA	2007	1:09.20	VIBEKE SWANSON	USA	2006	1:07.07	JUDITH HATTLE	GBR	2005
59.58	SARAH MACDONALD	CAN	2005	1:09.27	VERA CAPKOVA	BEL	2006	1:07.62	BIRGIT LOHBERG	USA	2010
1:00.41	KARIN SEICK	GER	2007	1:09.58	LESLIE LIVINGSTON	USA	2009	1:07.78	DANIELA DE PONTI	ITA	2010
1:00.62	SUSAN WAGER	USA	2010	1:09.68	KARIN SEICK	GER	2007	1:07.99	SUZANNE SIMPSON	USA	2005
1:00.67	SUSANNA ROSEN	SWE	2009	1:09.90	L.PELT-DILLER	USA	2006	1:08.05	BARBARA GELLRICH	GER	2009
1:00.86	DANIELA DE PONTI	ITA	2010	1:10.17	LISA WARD	USA	2009	1:08.09	MARZENA KULIS	ITA	2009
1:00.89	ANETTE PHILIPSSON	SWE	2010	1:10.33	LISA DIXON-WELLS	CAN	2006	1:08.10	LAURA VAL	USA	1999
1:01.42	JENNY WHITELEY	AUS	2003	1:10.40	SUSANNA ROSEN	SWE	2009	200 M. FLY			
1:01.58	REBECCA PERROTT	NZL	2009	200 M. BACK				2:23.18	K.PIPES-NEILSEN	USA	2009
1:01.67	HAYLEY BETTINSON	GBR	2009	2:18.15	K.PIPES-NEILSEN	FRA	2009	2:24.08	S.VON DER LIPPE	USA	2010
200 M. FREE				2:27.50	ELLEN REYNOLDS	USA	2009	2:26.31	S. PALMER-WHITE	AUS	2009
2:05.94	K.PIPES-NEILSEN	USA	2007	2:28.11	LISA WARD	USA	2009	2:28.26	LYNN MARSHALL	CAN	2006
2:10.91	S HEIM-BOWEN	USA	2003	2:31.42	LYNN MARSHALL	CAN	2006	2:29.32	SUZANNE SIMPSON	USA	2005
2:11.00	LYNN MARSHALL	CAN	2006	2:31.71	NAOKO SHIDE	JPN	2009	2:30.44	ARLENE DELMAGE	USA	2008
2:11.09	JENNY WHITELEY	AUS	2003	2:32.14	BRIGID BUNCH	USA	2009	2:32.09	SHIZUKO HIRAISHI	JPN	2010
2:12.72	REBECCA PERROTT	NZL	2009	2:32.56	VIBEKE SWANSON	USA	2006	2:32.52	LAURA VAL	USA	1999
2:13.72	BARBARA GELLRICH	GER	2008	2:32.74	L.PELT-DILLER	USA	2006	2:33.73	CYNTHIA PINCOTT	CAN	2007
2:14.03	SUSANNA ROSEN	SWE	2008	2:33.05	BIRGIT LOHBERG	USA	2010	2:34.15	JUDY HATTLE	GBR	2005
2:14.22	DANIELA DE PONTI	ITA	2010	2:33.97	WHITNEY ZEIGER	USA	2008	100 M. I.M.			
2:14.64	BIRGIT LOHBERG	USA	2010	50 M. BRST				1:05.61	K.PIPES-NEILSEN	FRA	2009
2:14.74	SUSAN WAGER	USA	2010	33.56	MARZENA KULIS	ITA	2009	1:06.58	S.VON DER LIPPE	USA	2010
400 M. FREE				33.82	S.VON DER LIPPE	USA	2010	1:08.59	CAROLINE KRATTLI	USA	2007
4:25.34	K.PIPES-NEILSEN	USA	2009	33.94	CAROLINE KRATTLI	USA	2007	1:08.74	ANETTE PHILIPSSON	SWE	2010
4:30.98	S HEIM-BOWEN	USA	2003	34.36	ALISON NYE	GBR	2002	1:08.81	SARAH MACDONALD	CAN	2009
4:33.09	LYNN MARSHALL	CAN	2006	34.60	SWICZINSKY-KORDES	GER	2001	1:08.85	MARZENA KULIS	ITA	2009
4:38.71	SUSANNA ROSEN	SWE	2010	34.64	MAGGIE KELLY	GBR	2001	1:09.68	JENNY WHITELEY	AUS	2003
4:41.91	REBECCA PERROTT	NZL	2009	34.70	JUDY GARAY	CAN	2005	1:10.39	SHIZUKO HIRAISHI	JPN	2007
4:43.49	JENNY WHITELEY	AUS	2003	34.79	MONICA CORO	ITA	2007	1:10.47	VIBEKE SWANSON	USA	2006
4:43.60	MARGEE CURRAN	USA	2007	34.84	K.PIPES-NEILSEN	FRA	2009	1:10.59	LAURIE DITOMMASO	USA	2008
4:43.85	BARBARA GELLRICH	GER	2007	35.32	S.SEMINATORE	ITA	2009	200 M. I.M.			
4:44.28	ANDREA BLOCK	USA	2009	100 M. BRST				2:21.55	K.PIPES-NEILSEN	USA	2009
4:44.31	CLAUDIA KERN	GER	2009	1:11.78	MARZENA KULIS	ITA	2009	2:29.40	MARZENA KULIS	ITA	2009
800 M. FREE				1:13.30	S.VON DER LIPPE	USA	2010	2:29.69	CAROLINE KRATTLI	USA	2007
9:11.37	K.PIPES-NEILSEN	USA	2009	1:13.38	CAROLINE KRATTLI	USA	2007	2:30.99	ANETTE PHILIPSSON	SWE	2010
9:21.65	LYNN MARSHALL	CAN	2006	1:15.86	MONICA CORO	ITA	2007	2:31.27	LISA WARD	USA	2009
9:25.12	SUSANNA ROSEN	SWE	2010	1:16.06	K.PIPES-NEILSEN	USA	2007	2:31.57	ELLEN REYNOLDS	USA	2009
9:27.44	SUZANN HEIM-BOWEN	USA	2004	1:17.16	MAGGIE KELLY	GBR	2001	2:31.99	VIBEKE SWANSON	USA	2006
9:35.81	CLAUDIA KERN	GER	2009	1:18.13	JENNY WHITELEY	AUS	2003	2:32.62	REBECCA PERROTT	NZL	2009
9:40.50	MARGEE CURRAN	USA	2007	1:18.80	KATE SORENSEN	DEN	2010	2:33.25	LYNN MARSHALL	CAN	2006
9:40.69	SUSANNE SIMPSON	USA	2008	1:18.88	ELKE SCHMITZ	GER	2009	2:33.41	LAUREN WELTING	USA	2010
9:41.99	BARBARA GELLRICH	GER	2007	1:18.98	SARAH MACDONALD	CAN	2009	400 M. I.M.			
9:44.72	AMY DANTZLER	USA	2009	200 M. BRST				5:00.29	K.PIPES-NEILSEN	FRA	2009
9:47.44	ANDREA BLOCK	USA	2009	2:37.19	MARZENA KULIS	ITA	2009	5:19.13	LYNN MARSHALL	CAN	2006
1500 M. FREE				2:38.00	S.VON DER LIPPE	USA	2010	5:19.58	VIBEKE SWANSON	USA	2006
17:46.32	LYNN MARSHALL	CAN	2007								



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

5:24.44 ELLEN REYNOLDS	USA	2010	17:51.33 S.HEIM-BOWEN	USA	2009	2:57.11 JENNY COOK	USA	2008
5:27.12 LISA WARD	USA	2009	18:38.58 JEANNE CARLSEN	CAN	2009	2:57.15 JUDITH HATTLE	GBR	2010
5:28.73 REBECCA PERROTT	NZL	2009	18:59.17 LAURA VAL	USA	2002	2:57.30 COKIE LEPINSKI	USA	2009
5:28.91 JENNY WHITELEY	AUS	2003	19:04.24 JENNY WHITELEY	AUS	2008	2:57.49 ULRIKE URBANIAK	GER	2003
5:29.52 NAKO SHIDE	JPN	2009	19:10.69 KATHERINE BRANCH	USA	2007	2:57.55 AMANDA HEATH	GBR	2009
5:31.00 LESLEY WILDE	GBR	2007	19:16.80 C.TARANTINO	ITA	2006	2:59.41 KAREN MELICK	USA	2007
5:31.05 LAURIE HUG	USA	2010	19:25.47 N.STEADMAN-MARTIN	USA	2007	2:59.48 DANIELLE OGIER	USA	2002
*****			19:27.74 NAKO SHIDE	JPN	2010	3:00.66 FRANCES PENWARDEN	GBR	2005
*****			19:31.34 BARBARA DUNBAR	USA	2000	3:00.98 CHRISTIANE HEEREN	GER	1999
*****			19:35.94 LIZ WEBB	RSA	2009	50 M. FLY		
*****			50 M. BACK			30.38 ANGELA ZINGLER	GER	2005
*****			32.13 K.ANDRUS-HUGHES	USA	2008	30.60 TRACI GRANGER	USA	2008
*****			32.55 J.SWAGERTY-HILL	USA	2002	30.62 HARUMI SUGINUMA	JPN	2009
*****			32.65 AROMA MARTORELL	BRA	2009	30.85 SARAH MACDONALD	CAN	2010
*****			32.72 LAURA VAL	USA	2005	30.88 JENNY WHITELEY	AUS	2008
*****			33.29 L.PELT-DILLER	USA	2009	31.10 JUDITH HATTLE	GBR	2010
*****			33.39 BONNIE BILICH	USA	2009	31.16 LAURA VAL	USA	2001
*****			33.49 CATHY SHEEHAN	CAN	2010	31.39 SACHIKO SAITO	JPN	2006
*****			33.57 JENNY WHITELEY	AUS	2010	31.79 CHRISTINE PORTER	GBR	2010
*****			33.61 SARAH MACDONALD	CAN	2010	31.85 JANIE MCCALL	CAN	2009
*****			33.66 AHELEE SUE OSBORN	USA	2009	100 M. FLY		
*****			100 M. BACK			1:08.50 JUDITH HATTLE	GBR	2010
*****			1:10.35 K.ANDRUS-HUGHES	USA	2007	1:09.05 LAURA VAL	USA	2001
*****			1:10.51 L.PELT-DILLER	USA	2008	1:09.94 JENNY WHITELEY	AUS	2008
*****			1:12.19 BONNIE BILICH	USA	2009	1:09.94 TRACI GRANGER	USA	2008
*****			1:12.35 AHELEE SUE OSBORN	USA	2008	1:11.04 HARUMI SUGINUMA	JPN	2009
*****			1:12.39 NAKO SHIDE	JPN	2010	1:11.43 PAULA JAMES	USA	2009
*****			1:12.63 CATHY SHEEHAN	CAN	2010	1:11.46 JEANNE CARLSEN	CAN	2009
*****			1:12.95 LAURA VAL	USA	2001	1:11.52 MATHILDE VINK	NED	2009
*****			1:13.02 PAULA JAMES	USA	2009	1:11.81 JENNY COOK	USA	2008
*****			1:13.63 EVIE LYNCH	USA	2004	1:12.65 SHANE GOULD	AUS	2010
*****			1:14.00 AROMA MARTORELL	BRA	2009	200 M. FLY		
*****			200 M. BACK			2:34.79 JUDITH HATTLE	GBR	2010
*****			2:32.48 NAKO SHIDE	JPN	2010	2:38.19 JENNY WHITELEY	AUS	2009
*****			2:34.24 AHELEE SUE OSBORN	USA	2009	2:38.43 S.HEIM-BOWEN	USA	2009
*****			2:34.69 L.PELT-DILLER	USA	2008	2:38.73 JENNY COOK	USA	2008
*****			2:35.02 BONNIE BILICH	USA	2010	2:38.99 RIEKO SHOJI	JPN	2010
*****			2:35.86 CATHY SHEEHAN	CAN	2010	2:39.11 LAURA VAL	USA	2005
*****			2:37.89 C.TARANTINO	ITA	2005	2:39.15 MATHILDE VINK	NED	2009
*****			2:39.02 K.ANDRUS-HUGHES	USA	2009	2:40.76 HARUMI SUGINUMA	JPN	2009
*****			2:39.25 JUDITH HATTLE	GBR	2010	2:42.27 N.STEADMAN-MARTIN	USA	2007
*****			2:40.14 AROMA MARTORELL	BRA	2009	2:44.27 JEANNE CARLSEN	CAN	2008
*****			2:41.20 LAURA VAL	USA	2003	100 M. I.M.		
*****			50 M. BRST			1:09.22 JENNY WHITELEY	AUS	2009
*****			35.08 JENNY WHITELEY	AUS	2009	1:11.05 SARAH MACDONALD	CAN	2010
*****			36.32 MAGGIE KELLY	GBR	2006	1:11.67 AHELEE SUE OSBORN	USA	2009
*****			36.65 DAGMAR HILBIG	GER	2010	1:12.34 JENNY COOK	USA	2008
*****			36.69 CHRISTIANE HEEREN	GER	1999	1:12.50 LAURA VAL	USA	2003
*****			36.70 SARAH MACDONALD	CAN	2010	1:12.82 JUDITH HATTLE	GBR	2010
*****			36.99 LISA BENNETT	USA	2009	1:13.12 DANIELLE OGIER	USA	2002
*****			37.10 PETRA SCHROER	GER	2004	1:14.11 TRACI GRANGER	USA	2008
*****			37.35 L.CRITTENDEN	USA	2006	1:14.31 BONNIE BILICH	USA	2009
*****			37.41 LOLI BALBUENA	ESP	2009	1:14.56 NAKO SHIDE	JPN	2010
*****			37.43 ALISON NYE	GBR	2008	200 M. I.M.		
*****			100 M. BRST			2:30.98 JENNY WHITELEY	AUS	2009
*****			1:16.49 JENNY WHITELEY	AUS	2009	2:35.86 JENNY COOK	USA	2008
*****			1:20.22 DAGMAR HILBIG	GER	2010	2:36.59 NAKO SHIDE	JPN	2010
*****			1:20.72 JENNY COOK	USA	2008	2:36.88 AHELEE SUE OSBORN	USA	2009
*****			1:22.06 LOLI BALBUENA	ESP	2009	2:37.42 JUDITH HATTLE	GBR	2010
*****			1:22.20 MELINDA MANN	USA	2009	2:37.52 DANIELLE OGIER	USA	2002
*****			1:22.47 AMANDA HEATH	GBR	2009	2:37.90 LAURA VAL	USA	2002
*****			1:22.47 COKIE LEPINSKI	USA	2009	2:38.54 JEANNE CARLSEN	CAN	2009
*****			1:22.53 PETRA SCHROER	GER	2003	2:39.21 RIEKO SHOJI	JPN	2010
*****			1:22.53 SUSAN JONES ROY	USA	2001	2:41.42 BONNIE BILICH	USA	2009
*****			1:22.56 JUDITH HATTLE	GBR	2010	400 M. I.M.		
*****			200 M. BRST			5:31.20 NAKO SHIDE	JPN	2010
*****			2:48.69 JENNY WHITELEY	AUS	2009	5:32.60 JENNY WHITELEY	AUS	2008
*****			1500 M. FREE					



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

5:34.22	RIEKO SHOJI	JPN	2010	1500 M. FREE		3:02.37	CATHERINE KOHN	USA	2009		
5:36.28	LAURA VAL	USA	2002	18:43.73	LAURA VAL	USA	2010	3:05.26	ULRIKE URBANIAK	GER	2008
5:36.61	JUDITH HATTLE	GBR	2010	19:24.70	BARBARA DUNBAR	USA	2004	3:05.87	FRANCES PENWARDEN	GBR	2010
5:37.20	JEANNE CARLSEN	CAN	2009	19:34.48	N.STEADMAN-MARTIN	USA	2009	3:06.41	JENNIFER MERRITT	GBR	2006
5:41.78	PAULA JAMES	USA	2009	19:45.99	CHRISTIE CIRAULO	USA	2008	3:08.87	BONNIE PRONK	CAN	1997
5:42.32	JENNY COOK	USA	2008	19:47.98	S.LOFTUS-CHARLEY	USA	2010	3:09.71	INEKE WEEKERS	NED	2009
5:43.22	N.STEADMAN-MARTIN	USA	2007	20:45.03	MARY ANNE MYERS	CAN	2010	3:10.86	DEB WALKER	USA	2010
5:44.22	DANIELLE OGIER	USA	2002	20:47.12	ANNE BOURNE	GBR	2010	3:10.93	HANNELORE ROSE	GER	1999
				20:49.11	JEN THOMASSON	AUS	1998	3:11.28	ELAINE BROMWICH	GBR	1997
*****				21:03.79	AUDREY COOPER	GBR	2010	3:12.02	AKIKO WATANABE	JPN	2010
	WOMEN 55-59			21:06.14	DEE HAYNIE	USA	2010	50 M. FLY			
*****				50 M. BACK				31.13	LAURA VAL	USA	2009
	50 M. FREE			32.62	LAURA VAL	USA	2009	31.92	JUDY WILSON	GBR	2000
28.49	LAURA VAL	USA	2009	34.76	BENEDICTE DUPREZ	FRA	2007	32.91	PAT SARGEANT	USA	2010
28.58	JACKI HIRSTY	USA	2009	35.00	DEBORAH BARTON	GBR	2004	32.93	CHRISTIE CIRAULO	USA	2008
29.05	PAT SARGEANT	USA	2008	35.38	MINDY DOUGHERTY	USA	2009	33.15	CONNY BOER-BUYS	NED	2009
29.16	REGULA STEIGER	SUI	2008	35.56	EVIE LYNCH	USA	2009	33.43	JANIE COLE	USA	2009
29.46	LYNN MORRISON	USA	2009	35.82	SILVANA NABUCO	BRA	1998	33.57	JACKI HIRSTY	USA	2009
29.59	HEATHER CAMPBELL	NZL	2008	35.88	SATOKO TAKEUJI	JPN	1997	33.66	ARDETH MUELLER	USA	1997
29.87	CONNY BOER-BUYS	NED	2005	36.02	CAROL FELLOWS	GBR	2001	33.76	YOSHIKO KADOSAKA	JPN	2004
30.10	MICAELA ICHTHOFEN	CAN	2009	36.07	BA BARNETT-SALLEE	USA	2001	33.85	YVONNE LEONOV	ISR	2003
30.10	LAURIE SMITH	USA	2009	36.10	MARGIT OHLSSON	SWE	2003	100 M. FLY			
30.25	M.RICHTHOFEN	GER	2008	100 M. BACK				1:09.23	LAURA VAL	USA	2009
	100 M. FREE			1:12.23	LAURA VAL	USA	2008	1:12.99	JUDY WILSON	GBR	2001
1:01.33	LAURA VAL	USA	2009	1:16.25	BENEDICTE DUPREZ	FRA	2007	1:14.68	PAT SARGEANT	USA	2008
1:02.75	HEATHER CAMPBELL	NZL	2008	1:16.26	EVIE LYNCH	USA	2009	1:15.80	CHRISTIE CIRAULO	USA	2008
1:04.77	PAT SARGEANT	USA	2008	1:16.97	MINDY DOUGHERTY	USA	2009	1:16.31	BARBARA DUNBAR	USA	2004
1:05.31	JACKI HIRSTY	USA	2009	1:18.80	PAT SARGEANT	USA	2009	1:18.11	JEANNE LAPPIN	USA	2010
1:05.84	N.STEADMAN-MARTIN	USA	2009	1:19.20	BA BARNETT-SALLEE	USA	2001	1:18.67	M.HILLENBRAND	GER	2009
1:06.11	CONNY BOER-BUYS	NED	2009	1:19.37	MARGIT OHLSSON	SWE	2003	1:18.70	SUSANA BARKLEY	ESP	2000
1:07.09	CATHY MERRITT	CAN	2009	1:19.47	DEBORAH BARTON	GBR	2003	1:18.75	ARDETH MUELLER	USA	1997
1:07.57	REGULA STEIGER	SUI	2008	1:19.61	SATOKO TAKEUJI	JPN	1997	1:19.57	PEGGY MCDONNELL	USA	2010
1:07.59	BARBARA DUNBAR	USA	2004	1:19.68	DI COETZEE	RSA	2010	200 M. FLY			
1:07.96	ROSARIO VIVANCO	PER	2005	200 M. BACK				2:31.13	LAURA VAL	USA	2008
	200 M. FREE			2:40.05	LAURA VAL	USA	2008	2:47.18	BARBARA DUNBAR	USA	2004
2:14.45	LAURA VAL	USA	2009	2:43.47	MINDY DOUGHERTY	USA	2009	2:47.89	N.STEADMAN-MARTIN	USA	2009
2:23.28	N.STEADMAN-MARTIN	USA	2009	2:44.55	N.STEADMAN-MARTIN	USA	2009	2:53.92	JUDY WILSON	GBR	2001
2:23.98	PAT SARGEANT	USA	2008	2:47.09	BENEDICTE DUPREZ	FRA	2006	2:55.05	ARDETH MUELLER	USA	1996
2:24.67	JACKI HIRSTY	USA	2009	2:48.40	C.TARANTINO	ITA	2010	2:55.79	S.LOFTUS-CHARLEY	USA	2010
2:27.22	DI COETZEE	RSA	2010	2:49.73	PAT SARGEANT	USA	2009	2:57.35	PAT SARGEANT	USA	2008
2:27.59	BARBARA DUNBAR	USA	2004	2:51.41	DI COETZEE	RSA	2010	2:57.45	M.NEUMEISTER	GER	2007
2:28.30	ARDETH MUELLER	USA	1996	2:51.44	EVIE LYNCH	USA	2007	2:57.70	ELAINE VALDEZ	USA	2010
2:29.54	CONNY BOER-BUIJS	NED	2005	2:52.19	BARBARA STUBBE	GER	2009	2:58.52	JUNKO SATO	JPN	2010
2:29.66	CHRISTIE CIRAULO	USA	2009	2:52.72	LINDA HUNT	CAN	2009	100 M. I.M.			
2:29.72	CATHY MERRITT	CAN	2009	50 M. BRST				1:12.90	LAURA VAL	USA	2009
	400 M. FREE			38.32	JAN WICKS	AUS	2001	1:15.06	HEATHER CAMPBELL	NZL	2008
4:42.97	LAURA VAL	USA	2009	38.33	REGULA STEIGER	SUI	2009	1:16.55	JACKI HIRSTY	USA	2009
4:53.27	N.STEADMAN-MARTIN	USA	2009	38.63	MONIKA SENFTLEBEN	GER	1998	1:17.48	PAT SARGEANT	USA	2010
5:01.53	BARBARA DUNBAR	USA	2004	38.73	YVONNE CATTRALL	CAN	2005	1:17.48	BRIGITTE MERTEN	GER	2002
5:04.60	JACKI HIRSTY	USA	2008	38.91	PETRA SCHROER	GER	2008	1:18.25	CATHY MERRITT	CAN	2009
5:05.56	CHRISTIE CIRAULO	USA	2008	39.01	BONNIE PRONK	CAN	1998	1:19.02	CAROLYN BOAK	USA	2001
5:05.80	C.TARANTINO	ITA	2010	39.20	BARBARA HUMMEL	USA	2009	1:19.37	PEGGY MCDONNELL	USA	2010
5:07.50	DI COETZEE	RSA	2010	39.35	DALE BARNHARD	USA	2003	1:19.57	REGULA STEIGER	SUI	2009
5:09.21	LAURA VACA	MEX	2009	39.58	IRINA SHANGINA	RUS	2010	1:19.78	HARRIET BERGER	GER	2002
5:10.42	SUSAN SKIFF	GBR	2009	39.64	RENAME ZSCHOCKELT	GER	1998	200 M. I.M.			
5:10.80	PAT SARGEANT	USA	2008	100 M. BRST				2:36.98	LAURA VAL	USA	2009
	800 M. FREE			1:25.18	REGULA STEIGER	SUI	2009	2:46.45	HEATHER CAMPBELL	NZL	2008
9:51.35	LAURA VAL	USA	2009	1:25.63	YVONNE CATTRALL	CAN	2005	2:47.90	PAT SARGEANT	USA	2008
10:17.86	BARBARA DUNBAR	USA	2004	1:25.89	ULRIKE URBANIAK	GER	2008	2:50.17	N.STEADMAN-MARTIN	USA	2009
10:20.12	CHRISTIE CIRAULO	USA	2008	1:25.92	BONNIE PRONK	CAN	1997	2:51.08	BRIGITTE MERTEN	GER	2004
10:20.65	N.STEADMAN-MARTIN	USA	2009	1:26.01	JENNIFER MERRITT	GBR	2006	2:51.87	S.LOFTUS-CHARLEY	USA	2010
10:26.13	LAURA VACA	MEX	2009	1:26.33	DALE BARNHARD	USA	2003	2:52.30	CATHY MERRITT	CAN	2009
10:30.48	C.TARANTINO	ITA	2010	1:26.41	PETRA SCHROER	GER	2008	2:52.43	ARDETH MUELLER	USA	1997
10:32.57	S.LOFTUS-CHARLEY	USA	2010	1:26.62	FRANCES PENWARDEN	GBR	2010	2:53.25	JUNKO SATO	JPN	2009
10:37.18	DI COETZEE	RSA	2010	1:26.71	CATHERINE KOHN	USA	2009	2:53.56	SUSAN HAIGH	GBR	2008
10:37.89	SUSAN SKIFF	GBR	2009	1:27.39	DEB WALKER	USA	2008	400 M. I.M.			
10:49.23	ANNE BOURNE	GBR	2009	200 M. BRST				5:39.30	LAURA VAL	USA	2009



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FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

3:04.36	JANETTE JEFFREY	AUS	2010	12:20.70	JAN CROFT	AUS	2009	1:34.50	MASAYO AZUMA	JPN	2000
400 M.	I.M.			12:26.85	JANE ASHER	GBR	1999	1:36.24	SHOKO YONEZAWA	JPN	2001
5:57.70	CHARLOTTE DAVIS	USA	2010	12:26.96	ELAINE BLOWER	GBR	2010	1:36.45	FLORA CONNOLLY	GBR	1998
6:15.26	BARBARA DUNBAR	USA	2009	12:34.61	BONNIE PRONK	CAN	2007	1:36.52	ELIANE PELLIS	BEL	1998
6:21.36	BRIGITTE MERTEN	GER	2009	12:35.26	CLARA WALKER	USA	1992	200 M.	BRST		
6:25.24	BONNIE PRONK	CAN	2002	1500 M.	FREE			3:14.89	NOBUKO YASUDA	JPN	2010
6:27.20	JACKIE MARR	USA	2003	21:43.60	JEN THOMASSON	AUS	2008	3:17.44	JOANN LEILICH	USA	2004
6:27.23	HANNELORE ROSE	GER	2002	22:09.43	JACKIE MARR	USA	2008	3:20.83	LUISE KNOPFLE	GER	2004
6:28.22	YOSHIKO OSAKI	JPN	1999	22:35.98	YOSHIKO OSAKI	JPN	2004	3:21.25	DIANE FORD	GBR	2008
6:41.60	JEN THOMASSON	AUS	2007	22:59.28	SUZANNE DILLS	USA	2010	3:23.72	BONNIE PRONK	CAN	2007
6:48.57	JUDIE OLIVER	CAN	1993	23:38.44	CLARA WALKER	USA	1992	3:24.31	MASAYO AZUMA	JPN	2000
6:50.30	RITSUKO KUROSAWA	JPN	2008	23:44.34	JANE ASHER	GBR	1996	3:26.40	FLORA CONNOLLY	GBR	2000
6:50.30	SUZANNE DILLS	USA	2005	23:54.51	BONNIE PRONK	CAN	2007	3:26.55	YOSHIKO OSAKI	JPN	2004
				24:00.15	E.KETELSEN	DEN	2009	3:29.02	LOTTE MULLER	GER	1999
*****				24:11.37	SILVANA ABREU	BRA	2006	3:29.93	ELIANE PELLIS	BEL	1998
	WOMEN 65-69			24:12.34	HELGA REICH	GER	2002	50 M.	FLY		
*****				50 M.	BACK			36.36	CHRISTEL SCHULZ	GER	2005
50 M.	FREE			36.58	MARGIT OHLSSON	SWE	2010	36.66	JUDY WILSON	FRA	2010
31.91	HEIDE LORBERG	GER	2004	36.85	CLARY MUNNS	AUS	2009	36.71	MICHEL DOI	JPN	2009
32.25	CHRISTEL SCHULZ	GER	2005	37.47	SILVANA ABREU	BRA	2006	36.79	YOSHIKO OSAKI	JPN	2003
32.40	CLARY MUNNS	AUS	2009	37.63	SATOKO TAKEUJI	JPN	2007	38.06	JOY WARD	USA	2007
32.77	PAM HUTCHINGS	AUS	2002	38.25	PAM HUTCHINGS	AUS	2001	38.09	HISAKO SATO	JPN	2000
33.09	YOSHIKO OSAKI	JPN	2005	39.11	BONNIE PRONK	CAN	2007	38.44	GAIL ROPER	USA	1995
33.29	JEN THOMASSON	AUS	2010	39.65	HIROMI SATO	JPN	2007	38.46	HAIKE HOLER	GER	2004
33.48	JEAN HOWARD-JONES	GBR	2008	39.71	PENNY STEELE	AUS	2010	38.60	CLARY MUNNS	AUS	2009
33.82	IKUKO OKADO	JPN	2008	39.76	E.KETELSEN	DEN	2010	38.72	HARUMI SUGIMOTO	JPN	2003
33.84	MARGIT OHLSSON	SWE	2010	40.11	BETSY JORDAN	USA	2003	100 M.	FLY		
34.04	OLGA KREJCI	SUI	2002	100 M.	BACK			1:23.61	JUDY WILSON	FRA	2010
100 M.	FREE			1:20.34	MARGIT OHLSSON	SWE	2010	1:25.28	YOSHIKO OSAKI	JPN	2003
1:10.97	CHRISTEL SCHULZ	GER	2005	1:22.17	CLARY MUNNS	AUS	2009	1:25.67	CAROLYN BOAK	USA	2010
1:13.48	YOSHIKO OSAKI	JPN	2004	1:25.00	BONNIE PRONK	CAN	2007	1:29.13	CHRISTEL SCHULZ	GER	2006
1:14.35	JEN THOMASSON	AUS	2010	1:25.53	PAM HUTCHINGS	AUS	2001	1:29.85	CLARY MUNNS	AUS	2009
1:14.67	JACKIE MARR	USA	2008	1:25.61	SILVANA ABREU	BRA	2006	1:31.92	HELGA REICH	GER	2001
1:15.29	E.KETELSEN	DEN	2009	1:26.66	E.KETELSEN	DEN	2008	1:33.07	CHRISTINE PERFECT	GBR	2004
1:15.57	JEAN HOWARD-JONES	GBR	2008	1:26.96	BETSY JORDAN	USA	2002	1:33.10	GAIL ROPER	USA	1995
1:15.61	NOBUKO YASUDA	JPN	2010	1:28.02	NORIKO YOSHIDA	JPN	2010	1:33.27	JUDIE OLIVER	CAN	1997
1:16.26	GAIL ROPER	USA	1996	1:28.80	CHRISTEL SCHULZ	GER	2006	1:34.57	MICHEL DOI	JPN	2008
1:17.02	PAM HUTCHINGS	AUS	2001	1:28.82	V.JOHANSSON	SWE	2001	200 M.	FLY		
1:17.08	JANE ASHER	GBR	1997	200 M.	BACK			3:17.36	YOSHIKO OSAKI	JPN	2003
200 M.	FREE			2:56.81	MARGIT OHLSSON	SWE	2010	3:28.93	HELGA REICH	GER	2002
2:39.77	CAROLYN BOAK	USA	2010	3:01.88	BONNIE PRONK	CAN	2007	3:29.98	SILVANA ABREU	BRA	2006
2:42.05	YOSHIKO OSAKI	JPN	2004	3:07.48	CLARY MUNNS	AUS	2010	3:31.98	FLORA CONNOLLY	GBR	1999
2:42.08	JACKIE MARR	USA	2008	3:08.42	CHRISTEL SCHULZ	GER	2006	3:32.93	JUNE KRAUSER	USA	1995
2:43.65	JEN THOMASSON	AUS	2010	3:08.61	PAM HUTCHINGS	AUS	2001	3:33.33	CLARY MUNNS	AUS	2010
2:44.02	CHRISTEL SCHULZ	GER	2005	3:09.52	NORIKO YOSHIDA	JPN	2009	3:33.38	JUDIE OLIVER	CAN	1997
2:45.06	SUZANNE DILLS	USA	2010	3:11.23	JACKIE MARR	USA	2008	3:34.14	JACKIE MARR	USA	2008
2:47.42	PAM HUTCHINGS	AUS	2002	3:11.32	E.KETELSEN	DEN	2008	3:35.80	GAIL ROPER	USA	1995
2:50.36	E.KETELSEN	DEN	2008	3:12.09	SILVANA ABREU	BRA	2006	3:36.13	DANIELA BARNEA	USA	2009
2:50.40	JANE ASHER	GBR	1997	3:14.13	JOY WARD	USA	2008	100 M.	I.M.		
2:53.83	SILVANA ABREU	BRA	2006	50 M.	BRST			1:22.53	CLARY MUNNS	AUS	2009
400 M.	FREE			40.90	NOBUKO YASUDA	JPN	2010	1:24.45	NOBUKO YASUDA	JPN	2010
5:35.53	CAROLYN BOAK	USA	2010	41.40	BONNIE PRONK	CAN	2009	1:24.71	CAROLYN BOAK	USA	2010
5:44.29	JACKIE MARR	USA	2008	41.53	MONIKA SENFTLEBEN	GER	2008	1:24.95	YOSHIKO OSAKI	JPN	2005
5:46.47	SUZANNE DILLS	USA	2010	42.35	JOANN LEILICH	USA	2005	1:25.00	CHRISTEL SCHULZ	GER	2005
5:46.94	YOSHIKO OSAKI	JPN	2003	42.46	DIANE FORD	GBR	2009	1:25.03	MARGIT OHLSSON	SWE	2010
5:48.14	JEN THOMASSON	AUS	2010	43.07	SHOKO YONEZAWA	JPN	2002	1:27.69	BONNIE PRONK	CAN	2007
5:56.24	CHRISTEL SCHULZ	GER	2006	43.27	ELIANE PELLIS	BEL	1998	1:28.01	JEN THOMASSON	AUS	2009
5:59.10	LAVELLE STOINOFF	USA	2002	43.53	CLARY MUNNS	AUS	2010	1:28.09	JACKIE MARR	USA	2008
6:00.99	JANE ASHER	GBR	1996	43.83	ROTRAUD PALMER	GBR	2006	1:28.61	SHOKO YONEZAWA	JPN	2001
6:01.13	HANNELORE ROSE	GER	2007	43.87	A.LEENE-RODAHL	NZL	1999	200 M.	I.M.		
6:01.13	V.JOHANSSON	SWE	2001	100 M.	BRST			3:04.22	CAROLYN BOAK	USA	2010
800 M.	FREE			1:28.73	NOBUKO YASUDA	JPN	2010	3:04.75	CLARY MUNNS	AUS	2009
11:24.13	JEN THOMASSON	AUS	2008	1:31.87	BONNIE PRONK	CAN	2007	3:05.72	NOBUKO YASUDA	JPN	2010
11:40.70	JACKIE MARR	USA	2008	1:32.05	DIANE FORD	GBR	2008	3:06.37	YOSHIKO OSAKI	JPN	2004
11:49.70	YOSHIKO OSAKI	JPN	2003	1:32.37	JOANN LEILICH	USA	2004	3:06.64	CHRISTEL SCHULZ	GER	2008
12:15.14	HANNELORE ROSE	GER	2008	1:33.03	HANNELORE ROSE	GER	2007	3:10.11	HANNELORE ROSE	GER	2007
12:20.68	LAVELLE STOINOFF	USA	2002	1:33.89	LUISE KNOPFLE	GER	2004	3:10.12	BONNIE PRONK	CAN	2007



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

3:11.69	MARGIT OHLSSON	SWE	2010	13:23.18	HISAKO SATO	JPN	2006	1:41.38	TAYO FUJIEDA	JPN	2007
3:13.20	JACKIE MARR	USA	2008	13:30.87	NANCY BROWN	USA	2006	1:41.98	KUMIE TOKUDA	JPN	2008
3:13.82	JEN THOMASSON	AUS	2010	13:33.96	LINDA MACPHERSON	CAN	2008	1:42.21	MARGIT JEBE	USA	2008
400 M. I.M.				13:35.09	DIANE STOWELL	USA	2005	1:42.61	ELIANE PELLIS	BEL	2006
6:31.71	CAROLYN BOAK	USA	2010	13:39.97	TAYO FUJIEDA	JPN	2007	1:42.62	EDITH BOEHM	GER	1999
6:34.95	YOSHIKO OSAKI	JPN	2003	13:44.44	ANNE WILLIAMS	USA	2010	200 M. BRST			
6:45.14	CLARY MUNNS	AUS	2009	1500 M. FREE				3:25.76	JOANN LEILICH	USA	2009
6:45.94	JACKIE MARR	USA	2008	23:54.74	JANE ASHER	GBR	2004	3:28.98	MASAYO AZUMA	JPN	2005
6:49.48	BONNIE PRONK	CAN	2007	24:56.47	BARBARA FENTIMAN	GBR	2004	3:30.16	SHOKO YONEZAWA	JPN	2005
6:51.93	HANNELORE ROSE	GER	2008	24:57.85	JUNE KRAUSER	USA	1996	3:33.22	LUISE KNOPFLE	GER	2009
6:57.58	FLORA CONNOLLY	GBR	2000	25:14.99	HELGA REICH	GER	2006	3:40.16	TAYO FUJIEDA	JPN	2007
7:01.55	JUDIE OLIVER	CAN	1999	25:19.73	REIKO ISHIZAKI	JPN	2009	3:43.02	DIANE STOWELL	USA	2005
7:02.74	SUZANNE DILLS	USA	2010	25:40.21	GAIL ROPER	USA	1999	3:44.03	JUDIE OLIVER	CAN	2002
7:05.86	DANIELA BARNEA	USA	2009	26:05.82	NANCY BROWN	USA	2006	3:44.40	INGRID LUNING	GER	2010
*****				26:18.70	PETEE SMITH	USA	1994	3:44.57	ELIANE PELLIS	BEL	2004
				26:20.80	MISAO MATSUMOTO	JPN	2008	3:45.66	ANN HIRSCH	USA	2001
				26:32.02	CHISATO MIYAWAKI	JPN	2009	50 M. FLY			
*****				50 M. BACK				37.96	YOSHIKO OSAKI	JPN	2009
50 M. FREE				40.49	MARGARET WILDING	GBR	2009	39.02	CHRISTEL SCHULZ	GER	2010
33.34	CHRISTEL SCHULZ	GER	2010	40.61	PAM HUTCHINGS	AUS	2008	39.36	HARUMI SUGIMOTO	JPN	2008
33.36	YOSHIKO OSAKI	JPN	2009	40.97	YOSHIKO OSAKI	JPN	2009	39.44	JANE ASHER	GBR	2004
33.86	JANE ASHER	GBR	2004	41.23	SHOKO YONEZAWA	JPN	2005	40.39	HISAKO KITAYAMA	JPN	2009
35.14	GERD DURRE	GER	2006	41.45	GERD DURRE	GER	2006	40.56	HISAKO SATO	JPN	2006
35.28	PAM HUTCHINGS	AUS	2008	41.70	BETSY JORDAN	USA	2007	40.58	HAIKE HOLER	GER	2006
35.37	GAIL ROPER	USA	1999	42.15	CHRISTEL SCHULZ	GER	2010	40.66	GAIL ROPER	USA	1999
35.54	GYNT CLIFFORD	USA	2009	42.58	DORIS STEADMAN	USA	1995	41.16	HELGA REICH	GER	2006
35.60	FUSAKO HIROOKA	JPN	2007	42.85	V. JOHANSSON	SWE	2005	42.47	JUDIE OLIVER	CAN	2002
36.13	OLGA KREJCI	SUI	2007	42.86	GRETHE BENDTSEN	DEN	2000	100 M. FLY			
36.21	HISAKO KITAYAMA	JPN	2010	100 M. BACK				1:28.55	YOSHIKO OSAKI	JPN	2009
100 M. FREE				1:29.93	BETSY JORDAN	USA	2007	1:34.70	JANE ASHER	GBR	2001
1:12.97	YOSHIKO OSAKI	JPN	2009	1:30.72	CHRISTEL SCHULZ	GER	2010	1:34.86	HELGA REICH	GER	2006
1:14.69	CHRISTEL SCHULZ	GER	2010	1:31.24	SHOKO YONEZAWA	JPN	2005	1:37.41	CHRISTEL SCHULZ	GER	2010
1:16.45	JANE ASHER	GBR	2004	1:31.31	V. JOHANSSON	SWE	2005	1:37.56	GAIL ROPER	USA	1999
1:18.67	GAIL ROPER	USA	1999	1:33.27	YOSHIKO OSAKI	JPN	2009	1:38.39	HAIKE HOLER	GER	2006
1:20.29	PAM HUTCHINGS	AUS	2008	1:34.24	NANCY BROWN	USA	2006	1:39.02	JUDIE OLIVER	CAN	2002
1:21.57	HELGA REICH	GER	2007	1:34.51	GRETHE BENDTSEN	DEN	2000	1:40.05	HISAKO SATO	JPN	2006
1:22.10	V. JOHANSSON	SWE	2007	1:34.59	PAM HUTCHINGS	AUS	2008	1:40.20	JUNE KRAUSER	USA	1996
1:22.99	LOTTIE GEURTS	NED	2006	1:35.27	JANE ASHER	GBR	2001	1:44.44	MARCELA STASTNA	CZE	2009
1:23.35	SHOKO YONEZAWA	JPN	2006	1:35.66	DORIS STEADMAN	USA	1995	200 M. FLY			
1:23.56	NANCY BROWN	USA	2006	200 M. BACK				3:34.59	YOSHIKO OSAKI	JPN	2009
200 M. FREE				3:18.61	V. JOHANSSON	SWE	2005	3:37.23	HELGA REICH	GER	2006
2:44.70	YOSHIKO OSAKI	JPN	2008	3:20.96	JANE ASHER	GBR	2001	3:38.39	JUNE KRAUSER	USA	1996
2:47.82	CHRISTEL SCHULZ	GER	2010	3:24.21	YOSHIKO OSAKI	JPN	2009	3:44.96	JANE ASHER	GBR	2001
2:49.28	JANE ASHER	GBR	2003	3:25.04	NANCY BROWN	USA	2006	3:45.64	GAIL ROPER	USA	1999
2:55.57	HELGA REICH	GER	2007	3:25.71	PAM HUTCHINGS	AUS	2008	3:49.52	LINDA MACPHERSON	CAN	2010
2:58.06	GAIL ROPER	USA	2000	3:27.79	DORIS STEADMAN	USA	1995	3:55.59	JUDIE OLIVER	CAN	2004
3:00.93	NANCY BROWN	USA	2006	3:29.29	JUDIE OLIVER	CAN	2002	3:58.01	BETTY RUSS	USA	1997
3:01.93	PAM HUTCHINGS	AUS	2008	3:31.10	BETSY JORDAN	USA	2007	3:59.95	HIROKO KOBAYASHI	JPN	2010
3:01.98	MAREN PISKORA	GER	2007	3:31.87	HARUMI SUGIMOTO	JPN	2008	4:03.04	SYLVIA EISELE	CAN	2000
3:03.28	LINDA MACPHERSON	CAN	2010	3:32.48	MISAO MATSUMOTO	JPN	2008	100 M. I.M.			
3:04.77	JEAN TROY	USA	1998	50 M. BRST				1:24.88	YOSHIKO OSAKI	JPN	2009
400 M. FREE				42.80	SHOKO YONEZAWA	JPN	2005	1:27.39	CHRISTEL SCHULZ	GER	2010
5:50.41	YOSHIKO OSAKI	JPN	2008	44.32	JOANN LEILICH	USA	2009	1:27.80	SHOKO YONEZAWA	JPN	2005
6:00.34	JANE ASHER	GBR	2003	44.74	KAZUKO KAJIWARA	JPN	2009	1:32.23	GAIL ROPER	USA	2000
6:19.80	HELGA REICH	GER	2006	45.08	EDITH BOEHM	GER	1999	1:33.49	JANE ASHER	GBR	2003
6:24.11	BARBARA FENTIMAN	GBR	2004	45.19	YOSHIKO OSAKI	JPN	2010	1:34.10	JUDIE OLIVER	CAN	2002
6:26.99	MARIA PENNA	BRA	2009	45.55	MASAYO AZUMA	JPN	2005	1:35.21	HELGA REICH	GER	2006
6:27.21	GAIL ROPER	USA	1999	45.56	ERIKA LANGE	GER	1998	1:35.57	TAYO FUJIEDA	JPN	2009
6:28.81	JUNE KRAUSER	USA	1996	45.63	MARGIT JEBE	USA	2008	1:36.29	V. ANN JOHANSSON	SWE	2006
6:29.70	HISAKO SATO	JPN	2006	45.81	MURIEL HITCHCOCK	GBR	2009	1:37.81	NANCY MACBETH	USA	1999
6:30.94	NANCY BROWN	USA	2006	45.94	TAYO FUJIEDA	JPN	2009	200 M. I.M.			
6:31.04	LINDA MACPHERSON	CAN	2010	100 M. BRST				3:11.14	YOSHIKO OSAKI	JPN	2009
800 M. FREE				1:35.58	SHOKO YONEZAWA	JPN	2005	3:21.52	JUDIE OLIVER	CAN	2002
12:30.00	JANE ASHER	GBR	2004	1:36.63	YOSHIKO OSAKI	JPN	2010	3:24.64	JANE ASHER	GBR	2001
13:00.04	BARBARA FENTIMAN	GBR	2004	1:36.94	MASAYO AZUMA	JPN	2005	3:25.28	HELGA REICH	GER	2006
13:03.64	HELGA REICH	GER	2006	1:37.11	LUISE KNOPFLE	GER	2009	3:26.44	SHOKO YONEZAWA	JPN	2006
13:07.28	JUNE KRAUSER	USA	1996	1:37.20	JOANN LEILICH	USA	2009	3:30.92	GAIL ROPER	USA	1999



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

3:31.29 JUNE KRAUSER	USA 1999	14:21.26 MICHIKO OKUMURA	JPN 2006	1:47.80 SYLVIA NEUHAUSER	AUT 2004
3:32.12 V. JOHANSSON	SWE 2005	14:23.70 URSULA FROHLICH	GER 2010	1:48.28 SATOKO SUZUKI	JPN 1998
3:32.90 BETSY JORDAN	USA 2007	14:29.27 LIZ WALLIS	AUS 2002	1:49.85 JANE ASHER	GBR 2006
3:33.45 NANCY BROWN	USA 2006	14:30.66 BRITT GRILLI	SWE 2003	1:50.24 ANN HIRSCH	USA 2008
400 M. I.M.		14:32.87 RONNIE KAMPHAUSEN	USA 2009	1:51.99 EDITH BOHM	GER 2003
6:56.79 YOSHIKO OSAKI	JPN 2008	14:40.11 JUNE KRAUSER	USA 2001	1:52.35 GAIL ROPER	USA 2004
7:09.96 JANE ASHER	GBR 2001	14:46.26 MARGERY MEYER	USA 1998	200 M. BRST	
7:19.12 JUDIE OLIVER	CAN 2002	1500 M. FREE		3:33.03 SHOKO YONEZAWA	JPN 2010
7:24.32 JUNE KRAUSER	USA 1996	24:04.75 JANE ASHER	GBR 2006	3:40.80 MASAYO AZUMA	JPN 2010
7:34.98 URSULA FROHLICH	GER 2005	26:37.02 GAIL ROPER	USA 2005	3:47.58 ELIANE PELLIS	BEL 2008
7:36.99 GAIL ROPER	USA 1999	27:14.94 MICHIKO OKUMURA	JPN 2006	3:49.39 A.VAN OBBERGHEN	BEL 2008
7:47.33 BETSY JORDAN	USA 2007	27:33.16 LIZ WALLIS	AUS 2002	3:54.55 SYLVIA NEUHAUSER	AUT 2004
7:47.34 NANCY BROWN	USA 2006	27:39.46 JUNE KRAUSER	USA 2001	3:56.11 JANE ASHER	GBR 2006
7:48.97 NANCY MACBETH	USA 1999	27:47.25 MARGERY MEYER	USA 1998	3:56.51 ANN HIRSCH	USA 2008
7:52.30 SYLVIA NEUHAUSER	AUT 2000	28:18.44 YOSHIKO KINOSHITA	JPN 2006	4:00.34 JUDIE OLIVER	CAN 2008
		28:40.95 BETTY LORENZI	USA 2002	4:03.79 GAIL ROPER	USA 2004
		28:49.58 DOROTHY DICKY	AUS 2008	4:09.87 JOHNNIE DETRICK	USA 2010
		29:04.36 RONNIE KAMPHAUSEN	USA 2009	50 M. FLY	
*****		50 M. BACK		40.71 JANE ASHER	GBR 2006
WOMEN 75-79		43.19 MARLENE MENDES	BRA 2008	44.18 GAIL ROPER	USA 2004
*****		43.50 JANE ASHER	GBR 2006	44.53 JUDIE OLIVER	CAN 2007
50 M. FREE		43.54 SHOKO YONEZAWA	JPN 2010	47.88 LOIS NOCHMAN	USA 1999
35.88 JANE ASHER	GBR 2006	44.76 DORIS STEADMAN	USA 1999	47.89 HISAKO SATO	JPN 2010
37.24 GAIL ROPER	USA 2004	45.28 JOAN PARNELL	CAN 2004	48.69 MICHIKO OKUMURA	JPN 2007
37.53 JOHNNIE DETRICK	USA 2010	46.03 GRETHE BENDTSEN	DEN 2006	48.70 JEAN TROY	USA 2002
38.35 LOTTIE GEURTS	NED 2010	46.26 KERSTIN GJORES	SWE 2002	49.26 SYLVIA NEUHAUSER	AUT 2004
38.85 M. CUNNINGHAM	AUS 2002	46.75 WILLY VAN RYSEL	GBR 1991	49.38 M. CUNNINGHAM	AUS 2000
38.89 JEAN TROY	USA 2002	47.64 MARIANNE GRANE	SWE 2009	49.61 EDITH BOHM	GER 2003
39.06 KERSTIN GJORES	SWE 2002	47.69 DORIS MCEWAN	CAN 1999	100 M. FLY	
39.32 HISAKO SATO	JPN 2010	100 M. BACK		1:44.35 JUDIE OLIVER	CAN 2007
39.61 KASUMI ISHIKAWA	JPN 2010	1:34.38 ELIANE PELLIS	BEL 2009	1:45.10 JANE ASHER	GBR 2006
39.70 ELIANE PELLIS	BEL 2008	1:36.33 SHOKO YONEZAWA	JPN 2010	1:49.36 GAIL ROPER	USA 2005
100 M. FREE		1:37.87 JANE ASHER	GBR 2006	1:50.11 SYLVIA NEUHAUSER	AUT 2005
1:18.59 JANE ASHER	GBR 2006	1:39.76 DORIS STEADMAN	USA 2000	1:52.25 JUNE KRAUSER	USA 2001
1:24.31 GAIL ROPER	USA 2005	1:41.65 GRETHE BENDTSEN	DEN 2006	1:56.17 JOAN ALEXANDER	USA 2009
1:26.20 JEAN TROY	USA 2002	1:41.86 MARLENE MENDES	BRA 2008	1:56.42 LOIS NOCHMAN	USA 1999
1:28.49 M. CUNNINGHAM	AUS 2000	1:43.27 JUDIE OLIVER	CAN 2009	1:58.42 JEAN TROY	USA 2002
1:28.83 YURIKO NAGAMATSU	JPN 2010	1:43.73 JOAN PARNELL	CAN 2003	2:00.46 ANN HIRSCH	USA 2006
1:28.96 DENISE ROBERTSON	AUS 2010	1:44.17 BETTY LORENZI	USA 2003	2:01.80 CHIE TANI	JPN 2002
1:30.54 FLORENCE CARR	USA 2001	1:45.15 KERSTIN GJORES	SWE 2002	200 M. FLY	
1:30.85 MITSUKO KOMURO	JPN 2005	200 M. BACK		4:00.46 JUDIE OLIVER	CAN 2007
1:30.99 ELIANE PELLIS	BEL 2008	3:32.59 JANE ASHER	GBR 2006	4:06.06 JANE ASHER	GBR 2006
1:31.14 BRITT GRILLI	SWE 2003	3:38.25 DORIS STEADMAN	USA 1999	4:08.39 LOIS KIVI NOCHMAN	USA 1999
200 M. FREE		3:40.06 BETTY LORENZI	USA 2003	4:09.28 GAIL ROPER	USA 2004
2:57.19 JANE ASHER	GBR 2006	3:41.22 JUDIE OLIVER	CAN 2009	4:12.50 JUNE KRAUSER	USA 2001
3:07.58 GAIL ROPER	USA 2005	3:44.40 MARLENE MENDES	BRA 2008	4:33.31 BETTY RUSS	USA 2004
3:11.99 JEAN TROY	USA 2002	3:46.88 JOAN PARNELL	CAN 2003	4:33.81 SYLVIA EISELE	CAN 2004
3:13.88 DENISE ROBERTSON	AUS 2010	3:48.62 KIMIKO OOKA	JPN 2004	4:39.22 ANN HIRSCH	USA 2006
3:15.76 JUDIE OLIVER	CAN 2007	3:51.10 JUNE KRAUSER	USA 2001	4:48.50 MAXINE MERLINO	USA 1988
3:20.65 LOTTIE GEURTS	NED 2010	3:51.89 NANCY KINNEY	USA 2004	4:53.26 LILLY KRON	USA 2009
3:21.48 M. CUNNINGHAM	AUS 2001	3:55.43 V. JOHANSSON	SWE 2010	100 M. I.M.	
3:22.38 MICHIKO OKUMURA	JPN 2007	50 M. BRST		1:31.62 SHOKO YONEZAWA	JPN 2010
3:23.10 JUNE KRAUSER	USA 2001	43.79 SHOKO YONEZAWA	JPN 2010	1:32.92 JANE ASHER	GBR 2006
3:23.37 MITSUKO KOMURO	JPN 2006	46.86 ELIANE PELLIS	BEL 2008	1:38.11 GAIL ROPER	USA 2004
400 M. FREE		46.94 A.VAN OBBERGHEN	BEL 2008	1:38.73 JUDIE OLIVER	CAN 2007
6:09.40 JANE ASHER	GBR 2006	47.15 EDITH BOHM	GER 2003	1:45.44 SYLVIA NEUHAUSER	AUT 2004
6:39.88 DENISE ROBERTSON	AUS 2010	47.66 MASAYO AZUMA	JPN 2010	1:46.18 M. CUNNINGHAM	AUS 2000
6:44.09 JEAN TROY	USA 2002	49.57 SATOKO SUZUKI	JPN 1998	1:46.45 MICHIKO OKUMURA	JPN 2006
6:54.68 GAIL ROPER	USA 2004	50.34 SYLVIA EISELE	CAN 2006	1:46.51 JUNE KRAUSER	USA 2001
6:57.33 LIZ WALLIS	AUS 2002	50.37 TSUNEKO MITA	JPN 1998	1:46.72 JEAN TROY	USA 2002
7:00.56 JUNE KRAUSER	USA 2001	50.38 MARIA CARVALHO	BRA 2004	1:46.87 MASAYO AZUMA	JPN 2010
7:01.36 MARGERY MEYER	USA 1998	50.57 SYLVIA NEUHAUSER	AUT 2004	200 M. I.M.	
7:03.77 URSULA FROHLICH	GER 2010	100 M. BRST		3:31.20 JANE ASHER	GBR 2006
7:06.73 MICHIKO OKUMURA	JPN 2007	1:36.48 SHOKO YONEZAWA	JPN 2010	3:35.06 JUDIE OLIVER	CAN 2007
7:06.75 BRITT GRILLI	SWE 2003	1:42.36 MASAYO AZUMA	JPN 2010	3:37.24 GAIL ROPER	USA 2005
800 M. FREE		1:43.34 ELIANE PELLIS	BEL 2008	3:43.58 JUNE KRAUSER	USA 2001
12:42.75 JANE ASHER	GBR 2006	1:44.01 A.VAN OBBERGHEN	BEL 2008	3:49.91 JEAN TROY	USA 2002
13:59.01 JEAN TROY	USA 2002				
14:12.12 GAIL ROPER	USA 2005				



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

3:53.51 MICHIKO OKUMURA	JPN	2006	15:49.21 RITA SIMONTON	USA	1998	2:06.51 NANETTE BOHL	USA	2009
3:57.06 ANN HIRSCH	USA	2008	16:04.77 VIRGINIA KETELEER	BEL	2006	2:06.59 EMMI PAULI	GER	1993
3:59.81 ELIANE PELLIS	BEL	2009	16:18.58 MARJORIE SHARPE	USA	1997	2:07.67 EIKO MORI	JPN	2007
4:01.38 GRETHE BENDTSEN	DEN	2006	16:20.82 AIKO HORII	JPN	2010	2:08.23 GERTRUD MEERWALD	GER	2000
4:01.80 MITSUKO KOMURO	JPN	2007	16:51.32 CANDIDA GANDOLPHO	BRA	2001	2:08.81 ERIKA LANGE	GER	2008
400 M. I.M.			17:00.71 LOIS KIVI NOCHMAN	USA	2005	2:09.10 TERUKO ONO	JPN	2008
7:34.39 JANE ASHER	GBR	2006	17:07.13 LIZ WALLIS	AUS	2007	2:09.75 DOROTHY WILLIAMS	GBR	2003
7:39.96 JUDIE OLIVER	CAN	2007	17:13.96 ELSA DE LEEUW	CAN	2005	200 M. BRST		
7:52.71 JUNE KRAUSER	USA	2001	1500 M. FREE			4:29.24 EIKO MORI	JPN	2007
8:05.23 GAIL ROPER	USA	2006	28:55.09 JEAN TROY	USA	2007	4:31.25 SYLVIA EISELE	CAN	2009
8:27.31 ANN HIRSCH	USA	2008	29:34.22 DOROTHY DICKY	AUS	2010	4:36.67 NANETTE BOHL	USA	2009
8:30.82 LOIS NOCHMAN	USA	1999	29:39.08 MARGERY MEYER	USA	2002	4:38.57 DOROTHY WILLIAMS	GBR	2003
8:30.87 JEAN TROY	USA	2002	29:48.75 RITA SIMONTON	USA	1998	4:47.03 JOAN KIDD	GBR	2007
8:38.09 SYLVIA EISELE	CAN	2004	30:32.06 VIRGINIA KETELEER	BEL	2005	4:49.62 RITA SIMONTON	USA	1998
8:38.74 KIMIKO OOKA	JPN	2004	30:59.09 MARJORIE SHARPE	USA	1997	4:51.88 ERIKA LANGE	GER	2008
8:48.88 BETTY RUSS	USA	2003	31:45.05 LOIS KIVI NOCHMAN	USA	2004	4:52.62 ETSUKO KIMURA	JPN	2009
*****			32:47.75 ELSA DE LEEUW	CAN	2007	4:53.38 MICHIKO HAMURO	JPN	1999
*****			32:59.62 BETTY RUSS	USA	2007	4:53.77 BARBARA VICKERS	AUS	2006
*****			33:55.61 FUMI MURATA	JPN	2004	50 M. FLY		
*****			50 M. BACK			48.85 GAIL ROPER	USA	2009
*****			48.82 KERSTIN GJORES	SWE	2007	55.65 LOIS KIVI NOCHMAN	USA	2004
*****			49.02 JOAN PARNELL	CAN	2008	56.51 CHIE TANI	JPN	2006
*****			49.09 GRETHE BENDTSEN	DEN	2010	57.97 NANCY KINNEY	USA	2009
*****			50.03 MARGERY MEYER	USA	2002	58.13 SYLVIA EISELE	CAN	2009
*****			50.73 NANCY KINNEY	USA	2009	58.20 JEAN TROY	USA	2008
*****			51.19 ANNELIESE POKER	GER	2001	1:00.43 Y.KAPLAN BADER	FRA	2009
*****			51.55 BETTY LORENZI	USA	2007	1:01.24 GERTRUD MEERWALD	GER	2000
*****			51.95 CLARA WALKER	USA	2008	1:02.58 MARIA LENK	BRA	1995
*****			52.13 BETTY STERN	AUS	2001	1:02.68 UMEKO KUWAHARA	JPN	2005
*****			52.19 KIMIKO OOKA	JPN	2010	100 M. FLY		
*****			100 M. BACK			1:58.02 GAIL ROPER	USA	2009
*****			1:49.83 JOAN PARNELL	CAN	2008	2:02.63 LOIS KIVI NOCHMAN	USA	2004
*****			1:50.61 BETTY LORENZI	USA	2007	2:14.51 CHIE TANI	JPN	2007
*****			1:52.72 KERSTIN GJORES	SWE	2007	2:16.00 Y.KAPLAN-BADER	FRA	2008
*****			1:53.51 KIMIKO OOKA	JPN	2009	2:17.23 SYLVIA EISELE	CAN	2009
*****			1:54.86 GRETHE BENDTSEN	DEN	2010	2:19.85 JEAN TROY	USA	2008
*****			1:55.79 MARGERY MEYER	USA	2002	2:22.05 GERTRUD MEERWALD	GER	2000
*****			1:56.30 NANCY KINNEY	USA	2010	2:22.88 BETTY RUSS	USA	2008
*****			1:57.07 DORIS STEADMAN	USA	2004	2:28.34 JEAN DURSTON	USA	1994
*****			1:57.77 BUNNY CEDERLUND	USA	2004	2:30.84 MAXINE MERLINO	USA	1992
*****			1:58.72 MIDORI KINJO	JPN	2004	200 M. FLY		
*****			200 M. BACK			4:31.97 LOIS KIVI NOCHMAN	USA	2005
*****			3:59.15 NANCY KINNEY	USA	2009	4:54.54 BETTY RUSS	USA	2008
*****			4:07.13 BETTY LORENZI	USA	2007	5:20.76 Y.KAPLAN-BADER	FRA	2010
*****			4:08.87 JOAN PARNELL	CAN	2008	5:22.65 MAXINE O MERLINO	USA	1992
*****			4:09.07 DORIS STEADMAN	USA	2004	5:24.06 JAE HOWELL	USA	2002
*****			4:13.99 KERSTIN GJORES	SWE	2010	5:27.00 JEAN DURSTON	USA	1997
*****			4:14.53 MARGERY MEYER	USA	2003	5:29.14 THELMA BRYAN	AUS	2010
*****			4:21.27 SYLVIA CRAVERI	ITA	2003	5:39.29 DOROTHY WESTON	GBR	1996
*****			4:23.30 BUNNY CEDERLUND	USA	2003	6:01.96 NANCY DURSTEIN	USA	2009
*****			4:24.78 BETTY STERN	AUS	2002	6:04.35 JUNE REYNOLDS	USA	2003
*****			4:25.09 KAZUKO TAGUCHI	JPN	2006	100 M. I.M.		
*****			50 M. BRST			1:44.95 GAIL ROPER	USA	2009
*****			50.48 SATOKO SUZUKI	JPN	2003	1:49.26 MITSUKO KOMURO	JPN	2010
*****			51.34 EDITH BOHM	GER	2008	1:56.27 JOAN PARNELL	CAN	2008
*****			54.63 JOAN PARNELL	CAN	2008	1:56.65 JEAN TROY	USA	2007
*****			55.13 SYLVIA EISELE	CAN	2009	1:57.93 NANCY KINNEY	USA	2009
*****			55.81 MICHELE GUILLAIS	FRA	2001	1:59.06 M. CUNNINGHAM	AUS	2005
*****			55.94 NANETTE BOHL	USA	2009	2:00.15 CHIE TANI	JPN	2006
*****			56.09 SAYOKO WATANABE	JPN	2007	2:00.90 GRETHE BENDTSEN	DEN	2010
*****			56.36 SHIZUE TOYAMA	JPN	2004	2:01.38 NANETTE BOHL	USA	2009
*****			56.87 ERIKA LANGE	GER	2008	2:02.01 MARGERY MEYER	USA	2003
*****			57.11 KIMIE KANAI	JPN	2004	200 M. I.M.		
*****			100 M. BRST			3:55.51 GAIL ROPER	USA	2009
*****			1:54.30 SATOKO SUZUKI	JPN	2003	4:07.66 JEAN TROY	USA	2007
*****			2:03.93 SAYOKO WATANABE	JPN	2007	4:16.31 MITSUKO KOMURO	JPN	2010
*****			2:04.65 SYLVIA EISELE	CAN	2009	4:22.00 SYLVIA EISELE	CAN	2009



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

4:22.29	LOIS KIVI NOCHMAN	USA	2005	18:02.38	MAURINE KORNFELD	USA	2007	2:28.12	LIS KNUTZEN	DEN	2006
4:22.97	CHIE TANI	JPN	2006	18:14.96	ELSA DE LEEUW	CAN	2009	2:29.90	MARIA LENK	BRA	2000
4:36.03	M. CUNNINGHAM	AUS	2005	19:13.43	LOIS KIVI NOCHMAN	USA	2009	2:31.34	KALIS RASMUSSEN	CAN	2009
4:38.24	MARGERY MEYER	USA	2002	19:41.58	MAXINE MERLINO	USA	1998	2:33.87	EMMI PAULI	GER	1998
4:40.77	MARIA LENK	BRA	1995	20:28.81	MARJORIE SHARPE	USA	2003	2:35.43	ELSA DE LEEUW	CAN	2009
4:44.14	ELSA DE LEEUW	CAN	2004	20:31.49	WILLY VAN RYSEL	GBR	2001	2:36.99	INGEBORG FRITZE	GER	2007
400 M. I.M.				20:47.07	KALIS RASMUSSEN	CAN	2009	2:37.44	FUSAKO TOMINARI	JPN	2002
8:39.68	GAIL ROPER	USA	2009	20:47.25	BETTY BRUSSEL	CAN	2009	2:37.57	MICHIKO HAMURO	JPN	2004
9:30.65	JEAN TROY	USA	2007	21:02.41	MARIA LENK	BRA	2001	200 M. BRST			
9:31.73	LOIS KIVI NOCHMAN	USA	2004	1500 M. FREE				5:09.65	DOROTHY WILLIAMS	GBR	2008
9:37.55	BETTY RUSS	USA	2008	31:44.50	RITA SIMONTON	USA	2003	5:29.71	ELSA DE LEEUW	CAN	2009
9:42.82	SYLVIA EISELE	CAN	2009	33:03.30	MARGERY MEYER	USA	2007	5:33.41	MICHIKO HAMURO	JPN	2004
9:50.43	MAXINE MERLINO	CAN	1992	36:38.30	LOIS KIVI NOCHMAN	USA	2009	5:39.33	MARIA LENK	BRA	2000
10:09.01	JEAN DURSTON	USA	1994	37:28.53	MAXINE MERLINO	USA	1998	5:45.85	LIS KNUTZEN	DEN	2007
10:22.74	NANCY DURSTEIN	USA	2009	39:25.76	WILLY VAN RYSEL	GBR	2001	5:46.07	MARIANNA BERKLEY	USA	2007
10:38.93	THELMA BRYAN	AUS	2010	40:39.66	KALIS RASMUSSEN	CAN	2009	5:48.49	KALIS RASMUSSEN	CAN	2009
10:49.97	JOAN CAMPBELL	USA	2010	41:11.16	KAY SCHIMPF	USA	2002	5:50.16	LOIS KIVI NOCHMAN	USA	2009
*****				42:10.95	JULIA DOLCE	USA	1995	5:55.47	INGEBORG FRITZE	GER	2008
*****				42:54.05	KIKU ONO	JPN	2002	5:59.36	MARTI GOGNIAT	USA	1997
*****				48:02.60	KATH JOHNSTONE	NZL	2003	50 M. FLY			
*****				50 M. BACK				1:02.04	LOIS KIVI NOCHMAN	USA	2009
*****				50 M. FREE				1:07.35	JEAN DURSTON	USA	1999
50 M. FREE				50.81	DORIS MCEWAN	CAN	2010	1:11.38	MARIA LENK	BRA	2000
46.31	OLGA JOHNSON	NZL	2006	57.62	BUNNY CEDERLUND	USA	2006	1:12.55	NORA RONAI	BRA	2009
48.10	MARGERY MEYER	USA	2008	58.02	NOEL MORROW	CAN	2004	1:16.65	M. CUNNINGHAM	AUS	2010
49.14	FUSAKO YAMANAKA	JPN	2005	58.38	MASA SHIGEMITSU	JPN	2000	1:16.71	MAXINE MERLINO	USA	1998
49.48	HISAKO KOGA	JPN	2003	59.11	MARGERY MEYER	USA	2008	1:19.27	JUNE REYNOLDS	USA	2007
49.77	M. CUNNINGHAM	AUS	2010	59.67	WILLY VAN RYSEL	GBR	2001	1:23.04	CHARLOTTE SANDDAL	USA	2009
49.92	RITA SIMONTON	USA	2003	1:00.29	SILVIA CRAVERI	ITA	2009	1:23.52	KALIS RASMUSSEN	CAN	2009
50.05	ELSA DE LEEUW	CAN	2009	1:00.39	MARJORIE SHARPE	USA	2002	1:23.85	JAE HOWELL	USA	2007
50.36	DORIS MCEWAN	CAN	2009	1:00.71	FUSAKO TOMINARI	JPN	2003	100 M. FLY			
51.34	BUNNY CEDERLUND	USA	2006	1:01.06	MARIA LENK	BRA	2000	2:21.77	LOIS KIVI NOCHMAN	USA	2009
51.99	JULIA DOLCE	USA	1995	100 M. BACK				2:36.50	JEAN DURSTON	USA	1999
100 M. FREE				2:10.33	BUNNY CEDERLUND	USA	2006	2:51.00	MAXINE MERLINO	USA	1998
1:46.95	MARGERY MEYER	USA	2008	2:11.03	WILLY VAN RYSEL	GBR	2001	2:59.72	JUNE REYNOLDS	USA	2007
1:48.55	OLGA JOHNSON	NZL	2006	2:11.06	SILVIA CRAVERI	ITA	2009	3:05.69	JAE HOWELL	USA	2007
1:49.64	RITA SIMONTON	USA	2003	2:11.09	PERSIS RAE	AUS	2005	3:19.21	NORA RONAI	BRA	2009
1:51.96	M. CUNNINGHAM	AUS	2010	2:11.54	MARIA LENK	BRA	2000	3:20.81	JEWEL COOKE	USA	1996
1:54.41	HISAKO KOGA	JPN	2002	2:13.85	LOIS KIVI NOCHMAN	USA	2009	3:22.29	EDITH GLUSAC	USA	2003
1:55.38	MARJORIE SHARPE	USA	2002	2:13.95	NOEL MORROW	CAN	2004	3:25.85	KALIS RASMUSSEN	CAN	2009
1:57.70	VIRGINIA KETELEER	BEL	2010	2:16.21	DOROTHY WILLIAMS	GBR	2008	3:29.58	KATHERINE PELTON	USA	1990
1:58.86	FUSAKO YAMANAKA	JPN	2005	2:16.59	MARJORIE SHARPE	USA	2002	200 M. FLY			
1:59.46	ELSA DE LEEUW	CAN	2010	2:21.90	HANA ENATSU	JPN	2009	4:59.50	LOIS KIVI NOCHMAN	USA	2009
2:00.31	AUDREY ETIENNE	USA	2001	200 M. BACK				5:42.80	JEAN DURSTON	USA	1999
200 M. FREE				4:18.50	EDITH THEIN	ISR	2003	6:01.46	MAXINE MERLINO	USA	1998
3:54.18	MARGERY MEYER	USA	2007	4:36.48	BUNNY CEDERLUND	USA	2006	6:26.75	JAE HOWELL	USA	2007
3:57.48	RITA SIMONTON	USA	2003	4:41.34	MARIA LENK	BRA	2000	6:45.75	JUNE REYNOLDS	USA	2007
4:05.82	OLGA JOHNSON	NZL	2006	4:41.38	PERSIS RAE	AUS	2005	7:12.95	JEWEL COOKE	USA	1996
4:10.40	HISAKO KOGA	JPN	2002	4:46.44	WILLY VAN RYSEL	GBR	2001	7:15.07	KATHERINE PELTON	USA	1990
4:16.84	MARJORIE SHARPE	USA	2003	4:49.34	DOROTHY WILLIAMS	GBR	2008	7:47.68	NORA RONAI	BRA	2010
4:23.25	ELSA DE LEEUW	CAN	2009	4:50.07	LOIS KIVI NOCHMAN	USA	2009	8:44.12	ANNE POTTIER	FRA	2008
4:24.20	MAURINE KORNFELD	USA	2006	4:53.35	MARJORIE SHARPE	USA	2002	16:41.57	GERDA VOSS	CAN	2004
4:26.28	CANDIDA GANDOLPHO	BRA	2006	4:57.09	ANNE WALKER	USA	2001	100 M. I.M.			
4:27.19	LOIS KIVI NOCHMAN	USA	2009	4:58.10	OLGA JOHNSON	NZL	2006	2:12.85	JEWEL COOKE	USA	1995
4:29.76	VIRGINIA KETELEER	BEL	2010	50 M. BRST				2:13.69	MARGERY MEYER	USA	2008
400 M. FREE				1:00.56	SATOKO SUZUKI	JPN	2008	2:18.55	LOIS KIVI NOCHMAN	USA	2009
7:58.41	MARGERY MEYER	USA	2008	1:02.92	KIMIE KANAI	JPN	2009	2:21.11	RITA SIMONTON	USA	2003
8:17.82	RITA SIMONTON	USA	2003	1:04.29	MICHELE GUILLAIS	FRA	2006	2:22.10	MARIA LENK	BRA	2000
8:44.56	MAURINE KORNFELD	USA	2008	1:05.22	DORIS MCEWAN	CAN	2009	2:22.30	M. CUNNINGHAM	AUS	2010
8:45.92	MARJORIE SHARPE	USA	2002	1:06.67	INGEBORG FRITZE	GER	2009	2:23.05	MARIANNA BERKLEY	USA	2007
8:59.25	OLGA JOHNSON	NZL	2006	1:07.06	LIS KNUTZEN	DEN	2006	2:25.02	JEAN DURSTON	USA	1999
9:06.62	ELSA DE LEEUW	CAN	2009	1:07.58	NORA RONAI	BRA	2010	2:26.21	ELSA DE LEEUW	CAN	2009
9:26.72	LOIS KIVI NOCHMAN	USA	2009	1:08.15	FUSAKO TOMINARI	JPN	2004	2:26.58	MICHELE GUILLAIS	FRA	2006
9:27.75	MARIA LENK	BRA	2000	1:08.39	MARIA LENK	BRA	2000	200 M. I.M.			
9:29.01	JEAN DURSTON	USA	1999	1:08.46	DOROTHY WILLIAMS	GBR	2008	4:59.06	LOIS KIVI NOCHMAN	USA	2009
9:34.27	MAXINE MERLINO	USA	1998	100 M. BRST				5:09.92	MARIA LENK	BRA	2000
800 M. FREE				2:11.98	SATOKO SUZUKI	JPN	2009	5:12.01	JEAN DURSTON	USA	1999
16:49.43	RITA SIMONTON	USA	2003	2:26.71	DOROTHY WILLIAMS	GBR	2008				



3/28/2011



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

19:20.68	BERNARDA ANGULO	ESP	2007	1:48.81	JOHN KEPPELER	USA	1995	1:56.22	STEFAN HERBST	GER	2006
19:24.06	ROSA SELLARES	ESP	2006	1:49.94	ANDREW MANLEY	GBR	2003	2:01.14	DEAN KENT	NZL	2005
800 M. FREE				1:50.19	SYLVAIN CROS	FRA	2007	2:01.78	MARTIN HARRIS	GBR	1994
27:58.70	MIEKO NAGAOKA	JPN	2010	1:50.99	EDUARDO SCHIESARI	BRA	2002	2:02.63	JOHN KEPPELER	USA	1995
1500 M. FREE				1:51.11	HERMAN LOUW	USA	2000	2:02.67	JONATHAN AUDIS	GBR	2009
57:10.14	MIEKO NAGAOKA	JPN	2010	1:51.34	STEVEN MELLOR	GBR	2000	2:03.19	SYLVAIN CROS	FRA	2007
50 M. BACK				1:51.46	DAVID HOLMES	GBR	2009	2:03.69	SHINYA HAYASHI	JPN	2006
1:20.28	MIEKO NAGAOKA	JPN	2010	1:51.65	FERNANDO SAEZ	BRA	2002	2:03.80	MASAHIRO INABA	JPN	2010
1:27.92	EDITH HENDRY	USA	2006	1:51.87	AURELIEN COQ	FRA	2004	2:03.99	ANTHONY VD KRAAY	GBR	2008
1:52.63	MARY LATHRAM	USA	2010	1:51.92	DAN WEGNER	USA	2000	2:04.07	DARRYL FOLLOWS	NZL	1993
1:57.45	BERNARDA ANGULO	ESP	2008	400 M. FREE				50 M. BRST			
2:00.16	SHIZUE SHIMIZU	JPN	2006	3:53.60	SYLVAIN CROS	FRA	2007	27.69	RUSS PATRICK	CAN	2003
2:04.24	ROSA SELLARES	ESP	2005	3:56.53	A.ANGELOTTI	BRA	2001	27.76	EDUARDO FISCHER	BRA	2005
2:05.36	MARGE ANDERSON	CAN	1998	3:56.60	MARTIN HOHL	SUI	2009	28.11	NAOKI NAGURA	JPN	2006
2:32.85	MARGO BATES	AUS	2009	3:56.66	AURELIEN COQ	FRA	2004	28.14	MINDAUGAS MARGIS	AUT	2010
3:36.30	ELIZABETH DZIADUS	USA	2005	3:57.24	STEVEN MELLOR	GBR	2000	28.18	MITSUHIRO MARU	JPN	2008
100 M. BACK				3:58.23	ALEX KOSTICH	USA	1997	28.25	KOTARO MORITA	JPN	2010
2:55.44	MIEKO NAGAOKA	JPN	2009	3:59.78	GAVIN LILLEY	GBR	1993	28.26	MATTHIAS RUMPF	GER	2005
3:25.37	EDITH HENDRY	USA	2006	4:00.64	G.ORPHANIDES	GBR	2003	28.28	NICOLAS CANIVET	FRA	2004
4:07.69	MARY LATHRAM	USA	2010	4:00.87	D.STOCKINGER	AUT	2008	28.45	KAMIL KASPROWICZ	GER	2010
4:08.35	BERNARDA ANGULO	ESP	2008	4:02.17	DAN WEGNER	USA	2000	28.46	COREY WELCH	USA	2008
4:12.61	SHIZUE SHIMIZU	JPN	2006	800 M. FREE				100 M. BRST			
4:36.75	ROSA SELLARES	ESP	2005	8:07.91	A.ANGELOTTI	BRA	2001	1:00.28	EDUARDO FISCHER	BRA	2005
5:12.32	MARGO BATES	AUS	2007	8:13.81	G.ORPHANIDES	GBR	2003	1:01.48	KOTARO MORITA	JPN	2010
200 M. BACK				8:14.75	ALEX KOSTICH	USA	1997	1:01.49	MITSUHIRO MARU	JPN	2008
6:24.50	MIEKO NAGAOKA	JPN	2009	8:21.79	G.SPLITTGERBER	GER	2000	1:01.62	GARY MARSHALL	USA	2009
7:36.62	EDITH HENDRY	USA	2006	8:22.21	KOHEI FUKAYA	JPN	2009	1:02.01	HAJIME IKEGAMI	JPN	2010
9:20.51	BERNARDA ANGULO	ESP	2008	8:25.06	JASON NIELSON	USA	1996	1:02.03	KAMIL KASPROWICZ	GER	2010
9:37.39	ROSA SELLARES	ESP	2005	8:26.25	SYLVAIN CROS	FRA	2009	1:02.11	JESPER KRISTENSEN	DEN	2009
11:55.69	MARGO BATES	AUS	2007	8:26.37	CRAIG PICKERING	USA	2006	1:02.31	MATTHIAS RUMPF	GER	2005
50 M. BRST				8:28.33	ANDREA MARCATO	ITA	2002	1:02.38	KRISTIAN OUTINEN	DEN	2008
2:25.20	MIEKO NAGAOKA	JPN	2010	8:28.96	M.MICHAELSEN	GER	2002	1:02.49	SIMON LEIGHFIELD	AUS	2002
100 M. I.M.				1500 M. FREE				200 M. BRST			
3:54.89	MARIE KELLEHER	USA	2008	15:29.68	G.ORPHANIDES	GBR	2003	2:14.44	CHRISTOPHER JONES	GBR	2007
*****				15:41.81	ALEX KOSTICH	USA	1997	2:15.42	SIMON LEIGHFIELD	AUS	2002
WOMEN 100-104				15:56.29	MARTIN HOHL	SUI	2008	2:18.21	FABIO SILVA	BRA	2006
*****				16:08.62	TAMMO SCHROEDER	GER	2009	2:18.31	KOICHI MASUI	JPN	2010
50 M. BACK				16:15.61	CRAIG PICKERING	USA	2006	2:18.40	TAKEO SASAKA	JPN	2010
3:53.60	ROSA SELLARES	ESP	2010	16:16.13	JOHN CALNAN	CAN	2006	2:18.42	KAMIL KASPROWICZ	GER	2010
*****				16:23.21	ROB J MACKLE	USA	1992	2:19.19	MASAHICO WATANABE	JPN	2010
M E N 25-29				16:26.54	TONY DAY	GBR	1991	2:19.27	COREY WELCH	USA	2008
*****				16:29.14	RICCARDO RUSSO	ITA	2006	2:19.40	S.YOSHIKURA	JPN	2006
50 M. FREE				16:31.71	BERND FELDOSS	GER	1994	2:19.76	OLIVER VINENZETTI	GER	2005
22.36	DANIEL BELINI	BRA	2009	50 M. BACK				50 M. FLY			
22.37	RENATO GUERALDI	BRA	2009	25.05	STEV THELOKE	GER	2004	23.66	DAISUKE ABE	JPN	2009
22.40	LUKAS HARNOL	CZE	2009	25.15	KEVIN DOAK	USA	2007	23.70	OLIVER WENZEL	GER	2009
22.48	ED WAGNER	USA	1996	25.22	TERO RATY	FIN	2004	23.95	DANIEL BELINI	BRA	2009
22.48	ROBERT PEEL	USA	1993	25.24	JUNICHI MIYASHITA	JPN	2010	24.24	D. BURGESS LAIRD	USA	1989
22.65	YU HOSHIDA	JPN	2010	25.26	TAKANORI MORI	JPN	2009	24.29	STEFAN HERBST	GER	2004
22.67	RICARDO WASSALL	BRA	2009	25.43	MARTIN HARRIS	GBR	1994	24.64	YUTA SHOJI	JPN	2010
22.72	RENE LEITE	BRA	2009	25.49	OLIVER WENZEL	GER	2009	24.64	YUSUKE OKAMURA	JPN	2009
22.73	AKIRA OGASAWARA	JPN	2010	25.62	JIRI LEPOLA	FIN	2002	24.65	Y.TAKAMATSU	JPN	2010
22.76	STEFAN OOSTING	NED	2008	25.84	YUTA SHOJI	JPN	2009	24.66	LASSE FRANK	GER	2007
100 M. FREE				25.96	KRISTIAN OUTINEN	DEN	2008	24.68	NAOKI NAGURA	JPN	2007
48.58	S.KUNZELMANN	GER	2005	100 M. BACK				100 M. FLY			
49.58	ANDREW MANLEY	GBR	2003	55.04	STEFAN HERBST	GER	2005	52.92	DANIEL BELINI	BRA	2009
49.60	DANIEL BELINI	BRA	2009	55.15	TERO RATY	FIN	2004	53.72	KEI NAKASHIMA	JPN	2009
49.90	AKIRA OGASAWARA	JPN	2010	55.26	KEVIN DOAK	USA	2009	53.82	JEFF DASH	USA	2008
49.90	LUKAS HARNOL	CZE	2009	55.42	TAKAFUMI OISHI	JPN	2005	53.93	STEFAN HERBST	GER	2004
49.91	BJORN ZIKARSKY	USA	1995	55.52	JUNICHI MIYASHITA	JPN	2010	54.51	HIROAKI GOTO	JPN	2010
49.96	SYLVAIN JOSEPH	FRA	2009	55.76	JOHN KEPPELER	USA	1995	54.65	YUTA HAYASAKI	JPN	2009
50.13	HERMAN LOUW	USA	2000	55.87	NATHAN OXFORD	GBR	2008	54.73	D.STOCKINGER	AUT	2008
50.20	STEFAN OOSTING	NED	2008	55.97	MARTIN HARRIS	GBR	1994	54.83	JASON EADDY	USA	2002
50.31	D.STOCKINGER	AUT	2008	56.00	JONATHAN AUDIS	GBR	2009	54.94	MARIO MARSHALL	USA	2007
200 M. FREE				56.02	JARRYD BOTHA	USA	2010	54.98	CURTIS SAWIN	USA	2000
				56.02	JIRI LEPOLA	FIN	2002	200 M. FLY			
				200 M. BACK				1:59.74	MARK LEWIS	GBR	2008



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:59.92 SATOSHI TORATANI	JPN 2008	50.84 CLAYTON JONES	USA 2009	200 M. BACK	
2:01.72 YOHEI KATO	JPN 2007	200 M. FREE		1:55.46 DERYA BUYUKUNCU	USA 2009
2:01.74 LOIC LEROY	FRA 2006	1:48.40 JACOB CARSTENSEN	DEN 2008	1:56.68 STEFAN HERBST	GER 2008
2:01.95 IKUMI HASEGAWA	JPN 2010	1:49.00 CHRISTOPH HILMER	GER 2006	2:00.43 MARTIN ZUBERO	USA 2001
2:02.05 KIMITAKA MINOBE	JPN 2003	1:49.58 TAMAS KEREKJARTO	USA 2009	2:02.84 TAKAFUMI OISHI	JPN 2007
2:02.72 LASSE FRANK	GER 2007	1:50.91 ROWDY GAINES	JPN 1989	2:02.91 JOHN KEPPELER	USA 1999
2:03.48 YUTA HAYASAKI	JPN 2009	1:51.97 ANDREW MANLEY	GBR 2007	2:03.36 TAKUMA YAMAOKA	JPN 2008
2:03.59 JASON EADDY	USA 2002	1:52.04 JOHN KEPPELER	USA 1999	2:03.53 SYLVAIN CROS	FRA 2010
2:04.19 JEFF DASH	USA 2008	1:52.42 JOCHEN BRUHA	GER 2001	2:03.77 JEROME FAROUZE	FRA 2007
100 M. I.M.		1:52.83 BRUCE HAYES	USA 1994	2:04.63 JAY YARID	USA 1993
55.13 YUTA SHOJI	JPN 2010	1:53.06 CLAYTON JONES	USA 2009	2:04.70 N.DELL'ANDEEA	ITA 2010
55.20 STEFAN HERBST	GER 2004	1:53.66 DAN STEPHENSON	USA 1989	50 M. BRST	
55.78 OLIVER WENZEL	GER 2009	400 M. FREE		26.77 JORGE ALONZO	ESP 2009
56.13 NAOKI NAGURA	JPN 2008	3:57.47 TAMAS KEREKJARTO	USA 2009	27.11 MARCELO TOMAZINI	BRA 2009
56.47 KRISTIAN OUTINEN	DEN 2008	3:58.40 ALEX KOSTICH	USA 2000	27.73 CARLOS ALENCAR	BRA 2009
56.65 JEFF COMMINGS	USA 2003	3:59.83 BRUCE HAYES	USA 1994	27.81 THOMAS RUPPRATH	GER 2009
56.76 ATTILA CZENE	USA 2001	4:00.26 SEBASTIAN WIESE	GER 2004	28.01 JEFF COMMINGS	USA 2008
57.04 JACOB CARSTENSEN	DEN 2007	4:00.36 FABIEN CZACHOR	FRA 2009	28.20 RYOSUKE IMAI	JPN 2009
57.33 TERO RATY	FIN 2004	4:02.06 RAPHAEL VIEIRA	BRA 2008	28.27 MATTHIAS RUMPF	GER 2009
57.39 DEAN KENT	NZL 2005	4:02.56 SYLVAIN CROS	FRA 2010	28.31 HIDEAKI TOGO	JPN 2003
200 M. I.M.		4:02.66 ROWDY GAINES	JPN 1989	28.48 TOMASZ DUSZYNSKI	POL 2009
1:59.70 K.GILCHRIST	FRA 2010	4:02.80 CRAIG PICKERING	USA 2008	28.56 ALAN PESSOTTI	BRA 2007
2:00.56 STEFAN HERBST	GER 2006	4:03.85 GLAUCO RANGEL	BRA 2002	100 M. BRST	
2:01.58 DEAN KENT	NZL 2005	800 M. FREE		1:01.07 KYOSUKE YONEHARA	JPN 2010
2:03.28 AURELIEN COQ	FRA 2004	8:17.06 ALEX KOSTICH	USA 2000	1:01.34 MATTHIAS RUMPF	GER 2009
2:04.10 IKUMI HASEGAWA	JPN 2010	8:19.13 SEBASTIAN WIESE	GER 2004	1:01.34 JEFF COMMINGS	USA 2008
2:04.17 YOHEI KATO	JPN 2007	8:19.44 BRUCE HAYES	USA 1994	1:01.35 RYUTARO MORITA	JPN 2009
2:05.34 KAMIL KASPROWICZ	GER 2010	8:22.10 FABIEN CZACHOR	FRA 2009	1:01.54 RYOSUKE IMAI	JPN 2009
2:05.66 ANDREW MANLEY	GBR 2004	8:28.60 IGOR PIOVESAN	ITA 2008	1:01.94 HIROYUKI KOSAKA	JPN 2010
2:05.74 ANTHONY VD KRAAY	GBR 2008	8:29.51 CRAIG PICKERING	USA 2008	1:02.18 ED MOSES	USA 2010
2:05.93 JOHN KEPPELER	USA 1995	8:32.66 ANDREA MARCATO	ITA 2006	1:02.32 TOMASZ DUSZYNSKI	POL 2009
400 M. I.M.		8:34.26 DAN STEPHENSON	USA 1989	1:02.40 CARLOS ALENCAR	BRA 2009
4:14.51 IKUMI HASEGAWA	JPN 2009	8:34.46 ANTONIO D'ARAI	ITA 2005	1:02.54 KAZUYA KOIKE	JPN 2009
4:24.94 DEAN KENT	NZL 2005	8:34.69 FABIO AFFRICANO	ITA 2005	200 M. BRST	
4:26.08 JULIEN BAILLOD	SUI 2009	1500 M. FREE		2:12.58 HIROYUKI KOSAKA	JPN 2010
4:26.79 JOHN KEPPELER	USA 1995	15:51.07 ALEX KOSTICH	USA 2000	2:12.92 KYOSUKE YONEHARA	JPN 2010
4:26.97 ALEX KOSTICH	USA 1997	16:06.84 IGOR PIOVESAN	ITA 2008	2:13.60 KAZUYA KOIKE	JPN 2009
4:30.05 DAVID HOLMES	GBR 2009	16:11.71 ANDREA MARCATO	ITA 2004	2:15.72 TOMASZ DUSZYNSKI	POL 2007
4:30.42 SYLVAIN CROS	FRA 2009	16:12.03 FABIEN CZACHOR	FRA 2009	2:16.60 NICK GILLINGHAM	GBR 2001
4:30.99 MARCEL RINZLER	USA 2000	16:15.49 MIKE SHAFFER	USA 1995	2:17.56 ROQUE SANTOS	USA 1999
4:32.04 GIORGIO PAOLETTI	ITA 2010	16:21.25 BRUCE HAYES	USA 1994	2:17.92 TIMOTHY CARLSON	USA 2009
4:32.09 ASUKA KOIZUMI	JPN 2008	16:21.80 CRAIG PICKERING	USA 2008	2:18.46 RYUTARO MORITA	JPN 2009
*****		16:26.83 JEFF UTSCH	USA 1997	2:18.70 ED MOSES	USA 2010
M E N 30-34		16:27.27 R SEAN JUSTICE	USA 2010	2:19.69 SIMONE BATTISTON	ITA 2009
*****		16:31.60 FABIO AFFRICANO	ITA 2007	50 M. FLY	
50 M. FREE		50 M. BACK		22.87 THOMAS RUPPRATH	GER 2009
22.13 THOMAS RUPPRATH	GER 2009	24.81 DERYA BUYUKUNCU	USA 2009	24.10 FERNANDO ALAEZ	ESP 2009
22.41 S.KUNZELMANN	GER 2008	25.54 MARTIN ZUBERO	USA 2001	24.11 LEANDRO OKUDA	BRA 2009
22.61 LEANDRO OKUDA	BRA 2009	25.59 THIAGO PINTO	BRA 2008	24.20 TAKASHI NISHIYAMA	JPN 2009
22.68 ANDREW MANLEY	GBR 2008	25.67 HAJIME ITOI	JPN 2001	24.32 MARCELO TOMAZINI	BRA 2009
22.68 AUSTYN SHORTMAN	GBR 2003	25.70 FERNANDO ALAEZ	ESP 2009	24.36 HAJIME ITOI	JPN 2003
22.74 ALEXANDER REHDER	BRA 2009	25.76 T.TAKEMURA	JPN 2009	24.64 ZSOLT GASPARD	USA 2009
22.76 ED WAGNER	USA 2002	25.95 DEREK ROBINSON	USA 2000	24.64 BRIAN ALDERMAN	USA 1999
22.82 ROWDY GAINES	JPN 1989	26.03 MARTIN HARRIS	GBR 2000	24.65 OSWALDO QUEVEDO	USA 2007
22.99 SHIN SHOJI	JPN 2010	26.08 MARCIN KACZMAREK	POL 2009	24.67 ALEXANDER KAHL	GER 2007
22.99 MICHAEL PICOTTE	USA 2003	26.13 STEFFEN SCHMOLKE	GER 2001	100 M. FLY	
100 M. FREE		100 M. BACK		54.10 TAMAS KEREKJARTO	USA 2009
49.04 S.KUNZELMANN	GER 2008	52.68 DERYA BUYUKUNCU	USA 2009	54.28 S.KUNZELMANN	GER 2008
49.30 TAMAS KEREKJARTO	USA 2009	55.19 MARTIN ZUBERO	USA 2003	54.50 MARCELO TOMAZINI	BRA 2009
49.95 FERNANDO ALAEZ	ESP 2009	55.78 MARTIN HARRIS	GBR 2000	54.66 HIROKI NAKAZONO	JPN 2009
49.97 ANDREW MANLEY	GBR 2008	55.98 TAKUMA YAMAOKA	JPN 2008	54.82 HIROSHI MIURA	JPN 1996
50.51 ROWDY GAINES	JPN 1989	56.14 TAKAFUMI OISHI	JPN 2006	54.85 BRIAN ALDERMAN	USA 1999
50.53 KLAUS HUEZ	ITA 2004	56.16 THIAGO PINTO	BRA 2008	55.06 NAOYUKI KOBAYASHI	JPN 2009
50.57 ALEXANDER REHDER	BRA 2009	56.25 JOHN KEPPELER	USA 1999	55.11 TIMOTHY CARLSON	USA 2009
50.64 STEPHANE MEYER	FRA 2007	56.36 SHINYA HAYASHI	JPN 2010	55.40 DANIEL MORALES	ESP 2008
50.71 MICHAEL PICOTTE	USA 2003	56.53 STEFAN HERBST	GER 2008	55.57 STEPHEN MAVIN	GBR 2009
		56.62 FERNANDO ALAEZ	ESP 2009	200 M. FLY	



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:59.51 MARCELO TOMAZINI	BRA 2009	51.43 JOCHEN BRUHA	GER 2004	58.30 MATTHEW O'CONNOR	ESP 2006
2:00.21 HIROSHI MIURA	JPN 2000	51.44 JIM HARVEY	USA 2001	200 M. BACK	
2:00.50 TAMAS KEREKJARTO	USA 2009	200 M. FREE		2:00.34 RON KARNAUGH	USA 2002
2:04.03 JOCHEN HANZ	GER 2009	1:51.31 ERIK HOCHSTEIN	USA 2003	2:03.20 DEREK GUFFEY	USA 2009
2:04.59 MIKE SHAFFER	USA 1995	1:51.47 JOCHEN BRUHA	GER 2004	2:04.21 CHRIS JONES	GBR 2006
2:05.00 C.SORRENTINO	ITA 2008	1:51.54 MICHAEL ROSS	USA 2004	2:04.96 JEFF WELECHUK	CAN 2009
2:05.07 FERNANDO ALAEZ	ESP 2008	1:52.90 RON KARNAUGH	USA 2002	2:06.26 ROMAIN MARTY	FRA 2009
2:05.45 ASUKA KOIZUMI	JPN 2010	1:53.37 TYLER BLESSING	USA 2009	2:06.95 YOSHIHITO NAKAHARA	JPN 2005
2:05.68 ERIK HOCHSTEIN	USA 2002	1:53.66 EDWIN VAN NORDEN	NED 1998	2:07.12 JEROME FRENTSOS	USA 2000
2:05.84 ANDREA MARCATO	ITA 2008	1:54.26 R.LOCOCCIOLO	ITA 2010	2:07.51 KENTARO NAKAMURA	JPN 2010
100 M. I.M.		1:54.51 MIKE SHAFFER	USA 2000	2:07.80 MARK VOGEL	DEN 2006
55.00 STEFAN HERBST	GER 2008	1:54.93 RICHARD STANNARD	GBR 2009	2:08.54 MARCEL RINZLER	USA 2006
56.34 FERNANDO ALAEZ	ESP 2009	1:55.07 F.SILVESTRI	ITA 2002	50 M. BRST	
56.36 ATTILA CZENE	SWE 2004	400 M. FREE		27.79 JEFF COMMINGS	USA 2009
56.43 HIROYUKI KOSAKA	JPN 2010	3:57.77 ERIK HOCHSTEIN	USA 2003	28.30 STEVE WEST	USA 2009
56.46 TAMAS KEREKJARTO	USA 2009	3:58.50 F.SILVESTRI	ITA 2002	28.63 PER SVANBERG	SWE 2009
56.66 MARTIN ZUBERO	USA 2003	4:01.78 RON KARNAUGH	USA 2003	28.75 RON KARNAUGH	USA 2002
56.83 DERYA BUYUKUNCU	USA 2008	4:02.35 SEBASTIAN WIESE	GER 2007	28.77 WALLY DICKS	USA 1998
56.87 JEFF COMMINGS	USA 2008	4:02.52 MIKE SHAFFER	USA 2000	28.87 GERALD MORKEN	GER 1997
57.02 JACOB CARSTENSEN	DEN 2009	4:03.90 NICOLAS GRANGER	FRA 2002	28.94 ALAN PESSOTTI	BRA 2008
57.06 SEBASTIEN BILLON	FRA 2007	4:05.07 GARRY MEIKLEJOHN	JPN 2009	28.95 RON DEKKER	NED 2003
200 M. I.M.		4:05.29 ALEX KOSTICH	USA 2009	28.98 ANDREA AGOSTINONE	ITA 2008
1:57.68 TAMAS KEREKJARTO	USA 2009	4:05.84 ANDREA MARCATO	ITA 2009	29.09 YASUHIRO KOMORI	JPN 2009
1:58.13 STEFAN HERBST	GER 2008	4:06.72 TONY LENNARTSSON	SWE 2002	100 M. BRST	
2:02.20 HIROYUKI KOSAKA	JPN 2010	800 M. FREE		1:01.47 JEFF COMMINGS	USA 2009
2:03.74 TIMOTHY CARLSON	USA 2009	8:16.19 ALEX KOSTICH	USA 2009	1:01.63 STEVE WEST	USA 2009
2:04.01 ATTILA CZENE	SWE 2004	8:23.06 ERIK HOCHSTEIN	USA 2003	1:02.57 RON KARNAUGH	USA 2002
2:04.16 JOCHEN HANZ	GER 2008	8:26.43 MIKE SHAFFER	USA 2000	1:02.62 NICK GILLINGHAM	GBR 2004
2:05.45 MARCELO TOMAZINI	BRA 2009	8:27.96 IGOR PIOVESAN	ITA 2009	1:02.79 WALLY DICKS	USA 2000
2:05.59 HIROSHI MIURA	JPN 2000	8:28.37 RICHARD STANNARD	GBR 2009	1:03.28 RYUTARO MORITA	JPN 2010
2:05.74 JACOB CARSTENSEN	DEN 2008	8:29.31 BOBBY PATTEN	USA 1999	1:03.77 PER SVANBERG	SWE 2009
2:06.15 NICOLAS GRANGER	FRA 2001	8:30.84 OLIVIER VAHE	FRA 2009	1:04.02 GERALD MORKEN	GER 1997
400 M. I.M.		8:31.55 GARRY MEIKLEJOHN	JPN 2009	1:04.11 TIMO NOLTE	GER 2008
4:19.69 TAMAS KEREKJARTO	USA 2009	8:32.29 JUAN C VALLEJO	ESP 2000	1:04.37 RON DEKKER	NED 2003
4:22.35 ASUKA KOIZUMI	JPN 2009	8:33.28 SEBASTIAN WIESE	GER 2007	200 M. BRST	
4:26.74 ROQUE SANTOS	USA 1999	1500 M. FREE		2:15.90 STEVE WEST	USA 2010
4:27.02 JOCHEN HANZ	GER 2008	15:56.57 ALEX KOSTICH	USA 2009	2:16.49 NICK GILLINGHAM	GBR 2004
4:29.07 ALEX KOSTICH	USA 2000	15:58.20 BOBBY PATTEN	USA 1999	2:17.96 RON KARNAUGH	USA 2002
4:32.23 JEROME FRENTSOS	USA 1999	16:03.47 MIKE SHAFFER	USA 2000	2:18.68 V.KIRJANOV	LAT 2009
4:34.73 C.SORRENTINO	ITA 2007	16:05.94 RICHARD STANNARD	GBR 2009	2:20.26 WALLY DICKS	USA 2000
4:35.25 JULIEN BAILLOD	SUI 2010	16:07.85 FRED CLATWORTHY	GBR 2009	2:20.49 HAJIME MORIMOTO	JPN 2003
4:35.97 BRUCE HAYES	USA 1994	16:11.68 IGOR PIOVESAN	ITA 2009	2:20.91 RYUTARO MORITA	JPN 2010
4:37.10 TOM RUSHTON	CAN 2010	16:12.88 ERIK HOCHSTEIN	USA 2003	2:20.99 ALBERTO MONTINI	ITA 2005
*****		16:17.38 DANIEL SERRA	ESP 2007	2:21.36 SIMONE BATTISTON	ITA 2010
M E N 35-39		16:20.54 NICOLAS GRANGER	FRA 2006	2:22.50 JAN GRAFE	GER 2008
*****		16:24.14 OLIVIER VAHE	FRA 2008	50 M. FLY	
50 M. FREE		50 M. BACK		22.97 LIONEL BRAHIM	FRA 2010
21.53 MARK FOSTER	GBR 2007	25.72 EDILSON SILVA	USA 2009	24.03 EIJI NOMURA	JPN 2010
22.47 JOHN MIRANDA	SWE 2000	25.86 MICHAEL ROSS	USA 2004	24.48 JAN KARLSSON	SWE 2003
22.73 FELIPE DELGADO	USA 2009	26.10 C.SORRENTINO	ITA 2010	24.89 MAKIO ENDO	JPN 2010
22.86 JEROME LE COQ	FRA 2010	26.36 LEONARDO GOMES	BRA 2010	25.17 MASATERU IKEDA	JPN 2010
22.96 STEPHANE MEYER	FRA 2009	26.58 KENTARO NAKAMURA	JPN 2010	25.23 STEPHANE MEYER	FRA 2009
23.02 BRIAN JACOBSON	USA 2008	26.69 ANDRE CORDEIRO	BRA 2009	25.23 BRIAN ALDERMAN	USA 2005
23.04 M.GIALDI	ITA 2004	26.72 JEFF WELECHUK	CAN 2009	25.28 ISAMU TSUZUKI	JPN 2010
23.12 JAN KARLSSON	SWE 2003	26.84 CLAY BRITT	USA 1996	25.29 MICHAEL ROSS	USA 2004
23.14 ANDRE CORDEIRO	BRA 2009	26.87 RON KARNAUGH	USA 2002	25.30 HIDEYUKI CHIGIRA	JPN 2006
23.15 MAKIO ENDO	JPN 2009	26.98 DANIEL LONNBERG	SWE 2010	100 M. FLY	
100 M. FREE		100 M. BACK		54.56 EIJI NOMURA	JPN 2010
49.53 JOHN MIRANDA	SWE 2000	55.95 MICHAEL ROSS	USA 2004	55.22 MASATERU IKEDA	JPN 2010
50.54 STEPHANE MEYER	FRA 2009	56.42 JEFF WELECHUK	CAN 2009	55.24 STEPHANE MEYER	FRA 2009
50.72 MICHAEL PICOTTE	FRA 2009	56.93 RON KARNAUGH	USA 2002	55.85 JIM HARVEY	USA 2001
50.82 EIJI NOMURA	JPN 2010	57.14 DEREK GUFFEY	USA 2009	56.08 TYLER BLESSING	USA 2009
51.01 RON KARNAUGH	USA 2003	57.19 JEFF COMMINGS	USA 2009	56.32 MICHAEL ROSS	USA 2004
51.11 ISAMU TSUZUKI	JPN 2010	57.60 KENTARO NAKAMURA	JPN 2010	56.54 NORIFUMI CHIBA	JPN 2010
51.31 MICHAEL ROSS	USA 2004	57.69 CHRIS JONES	GBR 2006	56.59 DAVID WARREN	GBR 2009
51.38 GO KUWATA	JPN 2010	58.20 JIM HARVEY	USA 2001	56.59 TATHEI SAKA	JPN 2003
		58.25 CLAY BRITT	USA 1996	56.62 HIROYUKI NAKAMURA	JPN 2006



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

200 M. FLY			52.35 HENRIK JOHANSSON	SWE 2008	59.21 Y. NAKAHARA	JPN 2010
2:03.31 EIJI NOMURA	JPN 2009		52.39 JOAKIM SJOHOLM	SWE 2004	59.26 WILLIAM SPECHT	USA 1998
2:04.50 BOBBY PATTEN	USA 1999		52.44 PAUL SMITH	USA 2001	59.42 DEKE BOTSFORD	CAN 2010
2:05.84 MIKE SHAFFER	USA 2000		52.73 JOCHEN BRUHA	GER 2009	200 M. BACK	
2:06.23 ERIK HOCHSTEIN	USA 2003		200 M. FREE		2:03.84 MICHAEL ROSS	USA 2008
2:06.48 WILLIAM SPECHT	USA 1994		1:50.08 MICHAEL ROSS	USA 2008	2:04.96 CHRIS STEVENSON	USA 2008
2:06.65 UWE VOLK	GER 2009		1:51.95 ERIK HOCHSTEIN	USA 2009	2:06.66 MARK VOGEL	DEN 2010
2:06.87 TAIHEI SAKA	JPN 2003		1:53.03 KAI DITZEL	GER 2004	2:07.16 NICOLAS GRANGER	FRA 2010
2:07.20 CHARLIE JOHNSON	USA 1999		1:54.62 ALBERTO MONTINI	ITA 2010	2:08.22 Y. NAKAHARA	JPN 2010
2:07.22 ANDREA MARCATO	ITA 2009		1:55.11 F. SILVESTRI	ITA 2003	2:08.26 ERIC ERICSON	USA 2002
2:07.68 DAVID WARREN	GBR 2010		1:55.42 PATRICK BRUNDAGE	USA 2009	2:08.81 JEFF WELECHUK	CAN 2010
100 M. I.M.			1:55.88 DANIEL SERRA	ESP 2010	2:09.30 DEKE BOTSFORD	CAN 2010
56.37 C. SORRENTINO	ITA 2010		1:56.06 CYRO DELGADO	BRA 2005	2:09.61 WILLIAM SPECHT	USA 1998
56.94 RON KARNAUGH	USA 2003		1:56.44 PAUL SMITH	USA 2001	2:10.20 ROQUE SANTOS	USA 2009
56.98 JEFF COMMINGS	USA 2009		1:56.49 MIKE SHAFFER	USA 2008	50 M. BRST	
58.03 BRIAN JACOBSON	USA 2008		400 M. FREE		28.76 ALBERTO MONTINI	ITA 2010
58.18 DEREK GUFFEY	USA 2009		4:00.67 KAI DITZEL	GER 2004	28.85 WOLFGANG RABER	AUT 2010
58.23 GO KUWATA	JPN 2010		4:00.80 ALBERTO MONTINI	ITA 2009	28.89 YOZO FUJII	JPN 2009
58.36 MICHAEL ROSS	USA 2006		4:01.32 ERIK HOCHSTEIN	USA 2009	29.02 ANDREA AGOSTINONE	ITA 2010
58.36 JIM HARVEY	USA 2001		4:04.69 NICOLAS GRANGER	FRA 2010	29.08 HAROLD MATLA	NED 2009
58.51 R. LOCCIOLO	ITA 2009		4:05.30 F. SILVESTRI	ITA 2003	29.17 RICO ROLLI	ITA 2009
58.55 ISAMU TSUZUKI	JPN 2010		4:06.30 PATRICK BRUNDAGE	USA 2009	29.22 ROQUE SANTOS	USA 2009
58.55 DAVID WARREN	GBR 2009		4:07.00 ALEJANDRO MORENO	MEX 2009	29.27 MAKOTO ONODERA	JPN 2009
200 M. I.M.			4:07.63 MIKE SHAFFER	USA 2008	29.34 EITA TSUMURA	JPN 2010
2:03.29 RON KARNAUGH	USA 2002		4:09.10 WILLIAM SPECHT	USA 1999	29.48 ALESSANDRO VISINI	ITA 2009
2:04.89 DEREK GUFFEY	USA 2009		4:09.31 HESS YNTEMA	USA 1995	100 M. BRST	
2:07.06 JEFF COMMINGS	USA 2009		800 M. FREE		1:02.42 ALBERTO MONTINI	ITA 2009
2:07.21 JIM HARVEY	USA 2001		8:25.08 ERIK HOCHSTEIN	USA 2009	1:02.95 WOLFGANG RABER	AUT 2010
2:07.31 UWE VOLK	GER 2009		8:28.16 ALEJANDRO MORENO	MEX 2009	1:03.33 ROQUE SANTOS	USA 2009
2:07.31 NICOLAS GRANGER	FRA 2004		8:28.23 DANIEL SERRA	ESP 2009	1:03.36 YOZO FUJII	JPN 2010
2:07.60 PETER BERMEL	GER 2002		8:31.69 KAI DITZEL	GER 2005	1:04.49 FABIO MARUSSIG	ITA 2010
2:08.21 EDWIN VAN NORDEN	NED 1999		8:31.86 MIKE SHAFFER	USA 2008	1:04.50 MAKOTO ONODERA	JPN 2010
2:08.34 JEROME FRENTSOS	USA 2000		8:33.16 F. SILVESTRI	ITA 2003	1:04.53 RICO ROLLI	ITA 2009
2:08.54 TYLER BLESSING	USA 2009		8:33.19 MICHAEL KLEIBER	GER 2003	1:04.63 SHUJI AZUMA	JPN 2009
400 M. I.M.			8:36.66 NICOLAS GRANGER	FRA 2007	1:05.09 HAJIME MORIMOTO	JPN 2009
4:24.36 RON KARNAUGH	USA 2003		8:36.82 DINO SCHORN	ITA 2010	1:05.55 YAMATO TAKAHASHI	JPN 2010
4:30.81 DEREK GUFFEY	USA 2009		8:38.31 MICHAEL PRUFERT	GER 2004	200 M. BRST	
4:32.97 UWE VOLK	GER 2009		1500 M. FREE		2:15.95 ALBERTO MONTINI	ITA 2009
4:34.06 JEROME FRENTSOS	USA 2000		16:07.46 DANIEL SERRA	ESP 2009	2:16.03 ROQUE SANTOS	USA 2009
4:37.47 MARCEL RINZLER	USA 2006		16:09.32 MIKE SHAFFER	USA 2009	2:20.19 HAJIME MORIMOTO	JPN 2010
4:37.73 ROMAIN MARTY	FRA 2009		16:22.21 DINO SCHORN	ITA 2009	2:24.17 YAMATO TAKAHASHI	JPN 2010
4:38.40 IGOR PIOVESAN	ITA 2010		16:23.95 F. SILVESTRI	ITA 2003	2:24.57 UWE VOLK	GER 2010
4:39.42 EDWIN VAN NORDEN	NED 1999		16:34.84 ALEX KOSTICH	USA 2010	2:24.58 MAKOTO ONODERA	JPN 2010
4:39.97 DARIUSZ WOLNY	POL 1999		16:36.21 ERIK HOCHSTEIN	USA 2009	2:25.23 SHUJI AZUMA	JPN 2008
4:40.30 F. SILVESTRI	ITA 2002		16:37.00 KAI DITZEL	GER 2005	2:25.58 RON SCHAFER	USA 1997
*****			16:37.00 MICHAEL KLEIBER	GER 2003	2:25.86 YOZO FUJII	JPN 2009
M E N 40-44			16:42.00 GEORGE TIDMARSH	USA 2003	2:26.26 PETER BERMEL	GER 2009
*****			16:43.80 ALBERTO MONTINI	ITA 2008	50 M. FLY	
50 M. FREE			50 M. BACK		24.91 MICHAEL ROSS	USA 2008
23.06 M. GIALDI	ITA 2010		25.53 MICHAEL ROSS	USA 2009	25.13 HARTMUT BERNER	GER 2005
23.25 ERIK HOCHSTEIN	USA 2008		26.56 CHRIS STEVENSON	USA 2008	25.29 JAN KARLSSON	SWE 2009
23.45 MICHAEL ROSS	USA 2009		26.59 GIUSEPPE TIANO	ITA 2009	25.41 MIKE VAROZZA	USA 2009
23.68 R. ALVES SANTOS	BRA 2003		26.80 SHUJI AZUMA	JPN 2009	25.43 ROBERTO TARRICONE	ITA 2004
23.73 STEFAN OPATRIL	AUT 2008		27.17 JEFF WELECHUK	CAN 2010	25.76 KAZUHIKO YAMAKAWA	JPN 2009
23.75 JOAKIM SJOHOLM	SWE 2003		27.21 HIROYOSHI MAETOGE	JPN 2009	25.84 STEVE HILTABIDDLE	USA 2007
23.83 METELLO SAVINO	ITA 2006		27.28 ERIC ERICSON	USA 2002	25.85 GABRIELE MAINI	ITA 2008
23.87 CYRO DELGADO	BRA 2005		27.44 JAN KARLSSON	SWE 2009	25.86 BARRY SARETSKY	CAN 2009
23.88 JAN KARLSSON	SWE 2008		27.44 J CLAY BRITT	USA 2001	25.88 TAIHEI SAKA	JPN 2004
23.90 JANNE VIRTANEN	FIN 2004		27.46 FRITZ LEHMAN	USA 2002	100 M. FLY	
100 M. FREE			100 M. BACK		55.82 MICHAEL ROSS	USA 2008
50.43 MICHAEL ROSS	USA 2008		54.85 MICHAEL ROSS	USA 2008	56.18 WILLIAM SPECHT	USA 1998
50.45 ERIK HOCHSTEIN	USA 2009		55.90 CHRIS STEVENSON	USA 2008	56.50 JIM HARVEY	USA 2007
51.57 MIKE VAROZZA	USA 2009		57.66 ERIC ERICSON	USA 2002	56.62 MIKE VAROZZA	USA 2009
51.96 M. GIALDI	ITA 2010		57.73 GIUSEPPE TIANO	ITA 2009	56.62 HARTMUT BERNER	GER 2005
52.07 KAI DITZEL	GER 2004		58.28 J CLAY BRITT	USA 2003	56.64 ALBERTO MONTINI	ITA 2009
52.07 CYRO DELGADO	BRA 2002		58.69 JEFF WELECHUK	CAN 2010	56.73 ERIK HOCHSTEIN	USA 2009
			58.85 HIROYOSHI MAETOGE	JPN 2009	56.82 TAIHEI SAKA	JPN 2004



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

56.99	CHRIS STEVENSON	USA	2008	53.61	BRENT BARNES	JPN	2005	59.91	JAY YARID	USA	2008
57.12	ANDREA TOJA	ITA	2009	53.76	DAVID BOATWRIGHT	USA	2006	1:00.09	FRITZ LEHMAN	USA	2003
200 M. FLY				53.85	KEITH SWITZER	USA	2009	1:00.16	STEVE WOOD	USA	2008
2:02.97	WILLIAM SPECHT	USA	1998	53.95	FRANCESC COLL	ESP	2008	1:00.70	FRANCESCO PETTINI	ITA	2009
2:05.72	TOSHIYUKI IBE	JPN	2010	53.99	RICHARD HUGHEY	USA	2008	200 M. BACK			
2:06.06	UWE VOLK	GER	2010	200 M. FREE				2:05.54	CHRIS STEVENSON	USA	2009
2:06.48	DENNIS BAKER	USA	2005	1:54.73	KAI DITZEL	GER	2008	2:10.43	JAY YARID	USA	2008
2:07.03	MIKE SHAFFER	USA	2008	1:56.00	PAUL SMITH	USA	2007	2:11.22	TAIHEI SAKA	JPN	2009
2:08.46	JAMES BELARDI	USA	1997	1:56.26	MARCUS MATTIOLI	BRA	2009	2:12.10	WIESLAW MUSIAL	CAN	2003
2:09.08	ALBERTO MONTINI	ITA	2008	1:56.62	KEITH SWITZER	USA	2009	2:12.87	EDWIN VAN NORDEN	NED	2008
2:09.09	HESS YNTEMA	USA	1995	1:56.93	MARCO COLOMBO	ITA	2008	2:13.09	LEN GUSHE	CAN	2008
2:10.99	CHRIS STEVENSON	USA	2008	1:57.64	MARK REYNOLDS	GBR	2009	2:13.36	FRITZ LEHMAN	USA	2003
2:11.10	A.LAVEGLIA	ITA	2007	1:59.04	FRANCESC COLL	ESP	2009	2:13.42	DJAN MADRUGA	BRA	2005
100 M. I.M.				1:59.25	PETER MCKINNON	CAN	2009	2:15.08	MARCO COLOMBO	ITA	2007
57.39	ALBERTO MONTINI	ITA	2010	1:59.53	JIM SORENSEN	USA	2007	2:15.36	PETER MCKINNON	CAN	2009
57.71	MICHAEL ROSS	USA	2008	2:00.08	MICHAEL PRUFERT	GER	2009	50 M. BRST			
58.94	ROQUE SANTOS	USA	2008	400 M. FREE				28.87	RICO ROLLI	ITA	2010
58.98	ERIK HOCHSTEIN	USA	2008	4:05.90	KAI DITZEL	GER	2008	29.85	CHRIS WEISSMAN	USA	2009
59.25	KAZUHIKO YAMAKAWA	JPN	2010	4:08.93	MARCUS MATTIOLI	BRA	2005	30.06	WALLY DICKS	USA	2009
59.25	SHUJI AZUMA	JPN	2009	4:09.19	KEITH SWITZER	USA	2009	30.13	GLEN CHRISTIANSEN	SWE	2002
59.57	ROBERTO TARRICONE	ITA	2003	4:11.02	MARCO COLOMBO	ITA	2007	30.21	DAVID GUTHRIE	USA	2008
59.66	PETER BERMEI	GER	2007	4:13.42	LUDEK BURIAN	CZE	2009	30.25	GLENN MILLS	USA	2008
59.78	JIM HARVEY	USA	2007	4:14.73	JIM MCCONICA	USA	1999	30.26	FABIO SERVADIO	ITA	2009
59.98	BARRY SARETSKY	CAN	2009	4:15.06	MICHAEL SCHMIDT	USA	2008	30.38	KAZUhide MINAKAWA	JPN	2010
200 M. I.M.				4:15.62	B.BORDONALI	ITA	2007	30.43	NEWTON KAMINSKI	BRA	2010
2:05.46	ROQUE SANTOS	USA	2009	4:15.69	MIKE SHAFFER	USA	2010	30.47	M.WILLIAMSON	CAN	2009
2:06.97	NICOLAS GRANGER	FRA	2010	4:16.68	MICHAEL PRUFERT	GER	2009	100 M. BRST			
2:07.71	ERIK HOCHSTEIN	USA	2008	800 M. FREE				1:04.69	CHRIS WEISSMAN	USA	2009
2:07.88	UWE VOLK	GER	2010	8:39.84	MICHAEL PRUFERT	GER	2009	1:05.48	DAVID GUTHRIE	USA	2009
2:07.96	PETER BERMEI	GER	2007	8:42.76	KAI DITZEL	GER	2008	1:05.74	GLENN MILLS	USA	2008
2:08.13	ALBERTO MONTINI	ITA	2009	8:42.85	KEITH SWITZER	USA	2010	1:06.32	NEWTON KAMINSKI	BRA	2010
2:09.46	LORENZO BENUCCI	USA	2008	8:43.45	RICARDO VALDIVIA	USA	2009	1:06.39	RICO ROLLI	ITA	2010
2:11.26	Y.NAKAHARA	JPN	2010	8:46.79	MICHAEL KLEIBER	GER	2008	1:06.48	GLEN CHRISTIANSEN	SWE	2004
2:11.81	HAJIME MORIMOTO	JPN	2010	8:49.03	MICHAEL SCHMIDT	USA	2008	1:06.88	FABIO SERVADIO	ITA	2009
2:11.82	DEKE BOTSFORD	CAN	2010	8:50.30	MARCO COLOMBO	ITA	2008	1:07.22	THOMAS LIGL	GER	2009
400 M. I.M.				8:52.40	GERRY RODRIGUES	USA	2007	1:07.26	TADASHI FUJIMOTO	JPN	2010
4:32.05	ROQUE SANTOS	USA	2008	8:52.62	B.BORDONALI	ITA	2008	1:07.77	GREGORY OXLEY	USA	2003
4:32.08	UWE VOLK	GER	2010	8:52.84	DAVID SIMS	USA	2009	200 M. BRST			
4:33.90	ALBERTO MONTINI	ITA	2009	1500 M. FREE				2:22.68	GLENN MILLS	USA	2008
4:35.15	ERIK HOCHSTEIN	USA	2008	16:28.63	MICHAEL KLEIBER	GER	2008	2:23.74	DAVID GUTHRIE	USA	2009
4:35.57	NICOLAS GRANGER	FRA	2007	16:43.02	MARCUS MATTIOLI	BRA	2006	2:27.76	NEWTON KAMINSKI	BRA	2010
4:37.02	DARIUSZ WOLNY	POL	2000	16:51.21	JIM MCCONICA	USA	1999	2:28.37	THOMAS LIGL	GER	2009
4:39.78	PATRICK BRUNDAGE	USA	2008	16:52.13	B.BORDONALI	ITA	2007	2:28.74	J.MELLADO	FRA	2009
4:43.28	HESS YNTEMA	USA	1995	16:52.24	MIKE SHAFFER	USA	2010	2:29.71	EDWIN VAN NORDEN	NED	2009
4:44.06	LORENZO BENUCCI	USA	2007	16:54.69	GERRY RODRIGUES	USA	2008	2:29.89	CHRIS WEISSMAN	USA	2007
4:44.38	DENNIS BAKER	USA	2005	16:56.31	MARK DRENNEN	USA	2004	2:30.90	YASUO NARUSHIMA	JPN	2010
*****				16:58.05	ROBERT BARKER	GBR	2008	2:31.38	RICO ROLLI	ITA	2010
M E N 45-49				17:00.23	JIMMY FURRER	SUI	2004	2:31.41	GREGORY OXLEY	USA	2003
*****				17:04.77	GEOFFREY GLASER	USA	2009	50 M. FLY			
50 M. FREE				50 M. BACK				25.74	FRITZ BEDFORD	USA	2009
23.80	FRITZ BEDFORD	USA	2009	27.02	CHRIS STEVENSON	USA	2009	25.78	CHRIS STEVENSON	USA	2009
23.88	METELLO SAVINO	ITA	2009	27.08	HIROYOSHI MAETOGE	JPN	2010	25.82	PAUL SMITH	USA	2007
24.00	JOAKIM SJOHOLM	SWE	2008	27.20	ANDERS RASMUSSEN	USA	2008	25.84	PAUL CARTER	USA	2003
24.02	BRENT BARNES	JPN	2006	27.24	J CLAY BRITT	USA	2006	25.99	ANDERS RASMUSSEN	USA	2008
24.09	V.GALAVTINE	RUS	1998	27.35	FRITZ BEDFORD	USA	2009	26.08	METELLO SAVINO	ITA	2009
24.12	MARK REYNOLDS	GBR	2009	27.45	CRAIG NORREY	GBR	2009	26.40	CRAIG NORREY	GBR	2009
24.18	ANDERS RASMUSSEN	USA	2008	27.97	MARCO COLOMBO	ITA	2009	26.52	MARCO COLOMBO	ITA	2006
24.21	ANDREA NICOLAO	ITA	2009	27.99	STEVE WOOD	USA	2005	26.55	RAMON VOLCAN	VEN	2006
24.23	DMITRI KHODKO	RUS	2006	28.19	HIROSHI SHIBUYA	JPN	2009	26.59	DOUGLAS PRIDE	USA	2009
24.25	STEVE WOOD	USA	2008	28.32	JAY YARID	USA	2008	100 M. FLY			
100 M. FREE				100 M. BACK				57.17	PAUL CARTER	USA	2003
52.54	PAUL SMITH	USA	2007	57.00	CHRIS STEVENSON	USA	2009	57.37	CHRIS STEVENSON	USA	2010
52.90	MARK REYNOLDS	GBR	2009	58.20	HIROYOSHI MAETOGE	JPN	2010	58.02	PAUL SMITH	USA	2007
52.92	KAI DITZEL	GER	2008	58.48	J CLAY BRITT	USA	2006	58.03	ANDERS RASMUSSEN	USA	2009
53.04	MARCO COLOMBO	ITA	2005	58.75	FELIPE BARRETO	MEX	2009	58.10	WILLIAM SPECHT	USA	2004
53.21	FRITZ BEDFORD	USA	2009	58.89	ANDERS RASMUSSEN	USA	2008	58.29	MARCEL EKKELBOOM	GER	2009
				59.17	EDWIN VAN NORDEN	NED	2009	58.35	DENNIS BAKER	USA	2006



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

58.60	WILLIAM SEGAL	USA	2009	54.40	RICHARD KAMMERER	USA	2009	1:01.92	GIANNI BERTOLI	ITA	2009
58.80	KAI DITZEL	GER	2008	54.61	PAUL TREVISAN	USA	2003	1:02.39	V.GALAVTINE	FRA	2004
59.22	MIKE SHAFFER	USA	2010	54.73	DMITRI KHODKO	SWE	2009	1:02.40	HIROSHI SHIBUYA	JPN	2010
59.22	GLENN DIXON	USA	2009	55.35	JACK GROSELLE	USA	2007	1:02.98	RICHARD KAMMERER	USA	2009
200 M. FLY				55.37	LEE MENCH	USA	2003	1:03.01	JAMES BALLARD	USA	2009
2:06.40	DENNIS BAKER	USA	2006	55.51	LARRY KRAUSER	USA	2003	1:03.43	PHILIPP DJANG	USA	2008
2:09.06	WILLIAM SPECHT	USA	2003	55.55	LARRY FORSYTH	AUS	2010	200 M. BACK			
2:09.58	MARCUS MATTIOLI	BRA	2006	200 M. FREE				2:11.84	JAMIE FOWLER	USA	2009
2:09.65	CHRIS STEVENSON	USA	2009	1:56.75	BOB BUGG	USA	2009	2:13.05	WIESLAW MUSIAL	CAN	2009
2:11.56	MIKE SHAFFER	USA	2010	1:58.37	JIM MCCONICA	USA	2000	2:14.03	TOM WOLF	USA	2004
2:11.66	KAI DITZEL	GER	2008	2:00.31	PAUL SMITH	USA	2009	2:15.10	SCOTT SHAKE	USA	2008
2:13.29	MICHAEL SCHMIDT	USA	2008	2:03.10	LARRY KRAUSER	USA	2003	2:16.60	GIANNI BERTOLI	ITA	2009
2:14.85	DAMIANO NANETTI	ITA	2007	2:03.94	RICHARD KAMMERER	USA	2009	2:20.01	PHILIPP DJANG	USA	2005
2:15.14	HUGO BREGMAN	NED	2006	2:03.65	IVAR SISNIEGA	MEX	2009	2:20.42	R TOD SPIEKER	USA	1999
2:16.62	M.CACCIAMANI	ITA	2010	2:03.74	JACK GROSELLE	USA	2007	2:20.86	JIM MC CONICA	USA	2002
100 M. I.M.				2:03.80	LEE MENCH	USA	2003	2:22.12	MIKE MCINTYRE	CAN	2004
1:00.13	EDWIN VAN NORDEN	NED	2009	2:03.94	MARK DRENNEN	USA	2006	2:22.27	GARY HAMILTON	CAN	2010
1:00.14	ANDERS RASMUSSEN	USA	2009	2:04.18	ERIC EMINENTE	FRA	2009	50 M. BRST			
1:00.29	MARCO COLOMBO	ITA	2006	400 M. FREE				30.73	DAVID GUTHRIE	USA	2010
1:00.44	JEROME FRENTSOS	USA	2010	4:07.99	JIM MCCONICA	USA	2000	30.91	GLEN CHRISTIANSEN	SWE	2009
1:00.46	ALEX BAUMANN	CAN	2009	4:12.12	BOB BUGG	USA	2009	31.06	RONNY OLTNER	SWE	2007
1:00.49	JOSEF HLADKY	GER	2008	4:18.96	MARK DRENNEN	USA	2006	31.08	BENN DOYLE	USA	2008
1:00.57	RICHARD HUGHEY	USA	2008	4:21.85	FRANCIS CHRISTIAN	AUS	2008	31.10	GARY PATTERSON	USA	2009
1:00.66	CLAY BRITT	USA	2006	4:26.37	LARRY KRAUSER	USA	2003	31.14	ANDREA FLORIT	ITA	2010
1:00.84	PAUL SMITH	USA	2007	4:26.48	ERIC EMINENTE	FRA	2009	31.22	MARK SCHREMMER	USA	2009
1:01.30	J.MELLADO	FRA	2009	4:27.55	JIM CLEMMONS	USA	2002	31.24	DON MC KENZIE	USA	1997
200 M. I.M.				4:28.39	IVAR SISNIEGA	MEX	2009	31.34	OLIVIER BORIOS	FRA	2009
2:09.71	JEROME FRENTSOS	USA	2010	4:28.64	LEE MENCH	USA	2003	31.68	GERHARD AMMER	GER	2009
2:10.49	TAIHEI SAKA	JPN	2009	4:28.84	R TOD SPIEKER	USA	1999	31.68	G.HOFFMANN	USA	2009
2:11.28	ANDERS RASMUSSEN	USA	2009	800 M. FREE				100 M. BRST			
2:11.92	EDWIN VAN NORDEN	NED	2009	8:44.51	JIM MCCONICA	USA	2000	1:06.84	DAVID GUTHRIE	USA	2010
2:12.01	ALEX BAUMANN	CAN	2009	8:53.48	MARK DRENNEN	USA	2006	1:08.27	BENN DOYLE	USA	2008
2:13.42	GLENN MILLS	USA	2008	9:04.68	FRANCIS CHRISTIAN	AUS	2008	1:08.56	GLEN CHRISTIANSEN	SWE	2009
2:14.17	CHRIS WEISSMAN	USA	2009	9:11.92	JIM CLEMMONS	USA	2002	1:08.95	GARY PATTERSON	USA	2009
2:15.31	MARCO COLOMBO	ITA	2007	9:12.81	R TOD SPIEKER	USA	1998	1:08.97	RONNY OLTNER	SWE	2007
2:15.39	DAVE TOWN	CAN	2008	9:15.18	SERGE GUERIN	FRA	2009	1:09.40	G.HOFFMANN	USA	2009
2:15.74	CHRIS STEVENSON	USA	2010	9:15.50	SCOTT SHAKE	USA	2008	1:09.88	TIMOTHY SHEAD	RSA	2002
400 M. I.M.				9:15.65	IVAR SISNIEGA	MEX	2009	1:09.96	ROBERT STRAND	USA	1996
4:42.15	TAIHEI SAKA	JPN	2009	9:17.45	SIMON VEALE	GBR	2006	1:10.02	MARK SCHREMMER	USA	2009
4:43.64	JEROME FRENTSOS	USA	2010	9:20.00	DJAN MADRUGA	BRA	2010	1:10.04	DOUG VANDERBY	CAN	2009
4:44.28	MARCUS MATTIOLI	BRA	2009	1500 M. FREE				200 M. BRST			
4:46.68	CHRIS STEVENSON	USA	2009	16:33.02	JIM MCCONICA	USA	2000	2:28.59	DAVID GUTHRIE	USA	2010
4:48.12	MICHAEL SCHMIDT	USA	2008	17:14.75	MARK DRENNEN	USA	2007	2:32.06	LINCOLN DJANG	USA	2009
4:48.17	LEN GUSHE	CAN	2008	17:32.20	JIM CLEMMONS	USA	2001	2:32.78	BENN DOYLE	USA	2008
4:48.75	A.TIBERTI	ITA	2008	17:33.73	FRANCIS CHRISTIAN	AUS	2008	2:33.38	G.HOFFMANN	USA	2009
4:48.97	LINCOLN DJANG	USA	2004	17:34.08	SIMON VEALE	GBR	2007	2:33.71	Lorenzo Marugo	ITA	2004
4:52.73	GLENN MILLS	USA	2009	17:36.51	R TOD SPIEKER	USA	1999	2:34.71	ROBERT STRAND	USA	1996
4:53.84	DAVE TOWN	CAN	2007	17:48.71	LARRY KRAUSER	USA	2003	2:35.88	TOM REUDY	USA	2006
*****				17:56.34	BRUCE THOMAS	USA	2010	2:36.14	PATRICK ALLENDER	USA	2008
M E N 50-54				17:58.01	LARRY WOOD	USA	2004	2:36.57	TIMOTHY SHEAD	RSA	2002
*****				18:04.37	STEVEN PRESCOTT	NZL	2004	2:36.78	GLEN CHRISTIANSEN	SWE	2007
50 M. FREE				50 M. BACK				50 M. FLY			
23.38	AMBROSE GAINES	USA	2009	28.37	JAMIE FOWLER	USA	2009	25.49	DAN THOMPSON	CAN	2009
23.96	BRENT BARNES	JPN	2010	28.40	MARCO COLOMBO	ITA	2010	26.12	PAUL CARTER	USA	2007
24.26	PAUL TREVISAN	USA	2003	28.67	HIROSHI SHIBUYA	JPN	2010	26.20	PAUL SMITH	USA	2009
24.74	DMITRI KHODKO	SWE	2009	28.69	GIANNI BERTOLI	ITA	2010	26.45	WILLIAM SPECHT	USA	2009
24.74	V.GALAVTINE	FRA	2003	28.85	MARIO LLORET	ESP	2009	26.78	FRITZ HOMANS	USA	2008
24.77	PAUL SMITH	USA	2009	28.96	V.GALAVTINE	FRA	2004	26.79	GREG SHAW	USA	2003
24.80	DAN THOMPSON	CAN	2009	29.04	PHILIPP DJANG	USA	2008	26.94	ISAMU SHIBAZAKI	JPN	2010
24.86	PHILIPPE MORELLE	BEL	2006	29.17	WIESLAW MUSIAL	CAN	2009	26.96	MARIO LLORET	ESP	2009
24.87	RICHARD KAMMERER	USA	2009	29.20	MIKE MCINTYRE	CAN	2004	26.97	HUGO BREGMAN	NED	2009
25.00	LARRY KRAUSER	USA	2003	29.23	JOHN VAN BUUREN	CAN	2004	27.04	DONALD GRAHAM	USA	2006
100 M. FREE				100 M. BACK				100 M. FLY			
51.61	AMBROSE GAINES	USA	2009	1:00.38	JAMIE FOWLER	USA	2009	57.29	PAUL CARTER	USA	2007
53.87	BOB BUGG	USA	2009	1:01.48	TOM WOLF	USA	2004	58.76	MARIO LLORET	ESP	2009
54.29	BRENT BARNES	JPN	2009	1:01.86	WIESLAW MUSIAL	CAN	2009	59.25	WILLIAM SPECHT	USA	2009
				1:01.89	MARIO LLORET	ESP	2009	59.39	DAN THOMPSON	CAN	2009



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

59.91 HUGO BREGMAN	NED 2008	55.12 PAUL TREVISAN	USA 2006	1:05.53 JIM ADAMS	IRL 2007
1:00.08 JOHN MCCALL	USA 2003	56.29 CHARLES LEMAISTRE	USA 2009	1:05.56 HUGH WILDER	USA 2002
1:00.27 FRITZ HOMANS	USA 2008	56.51 RICH ABRAHAMS	USA 2001	1:06.05 WES EDWARDS	USA 2008
1:00.32 GREG SHAW	USA 2005	56.74 STEVE BOROWSKI	USA 2002	1:06.78 TIMOTHY SHEAD	USA 2009
1:00.82 JOHN VAN BUUREN	CAN 2005	57.19 RICK ABBOTT	USA 2010	1:06.94 ALISTAIR COCKBURN	USA 2008
1:00.99 BOB BUGG	USA 2009	57.28 PHIL DODSON	USA 2009	1:07.09 TOM WOLF	USA 2009
200 M. FLY		57.30 S.D'ALESSANDRO	ITA 1995	1:07.13 GREG SHAW	USA 2009
2:12.54 WILLIAM SPECHT	USA 2009	57.41 BARRY ROTH	USA 2009	1:07.40 CASEY CLAFLIN	USA 2008
2:12.90 HUGO BREGMAN	NED 2010	57.52 MIKE TENNANT	USA 2008	200 M. BACK	
2:18.02 SCOTT LAUTMAN	USA 2004	200 M. FREE		2:19.42 PHILIPP DJANG	USA 2009
2:18.88 JOHN CRAIG	USA 2004	1:59.08 MICHAEL MANN	USA 2009	2:20.59 JAMES MCCONICA	USA 2005
2:19.51 FRANCIS CHRISTIAN	AUS 2007	2:03.40 S.D'ALESSANDRO	ITA 1995	2:21.80 TOD SPIEKER	USA 2003
2:20.26 GREG SHAW	USA 2003	2:03.56 JACK GROSELLE	USA 2009	2:22.25 JIM ADAMS	NED 2006
2:20.86 JIM OCONNOR	USA 2003	2:03.64 JAMES MCCONICA	USA 2005	2:24.72 TIM BIRNIE	USA 2000
2:21.58 BOO GRANER GALLAS	USA 1997	2:06.20 TOD SPIEKER	USA 2003	2:25.81 FRED FERROGGIARO	USA 2008
2:21.64 SEIICHI YARITA	JPN 2007	2:06.83 PHIL DODSON	USA 2009	2:26.41 ROBERT SUPPLE	USA 2010
2:21.70 BART MCDERMOTT	USA 2006	2:06.94 TIM BIRNIE	USA 2000	2:26.64 JOHN CALVERT	USA 2000
100 M. I.M.		2:07.78 JIM CLEMMONS	USA 2008	2:27.57 EDDIE RIACH	GBR 2009
1:01.29 JAMIE FOWLER	USA 2009	2:08.21 STEVEN PRESCOTT	NZL 2009	2:28.25 TOM WOLF	USA 2009
1:01.54 PAUL SMITH	USA 2009	2:08.28 J.CHATARD	FRA 2006	50 M. BRST	
1:02.27 MARIO LLORET	ESP 2009	400 M. FREE		30.50 WALTER KUSCH	GER 2009
1:02.51 KEN SHILLING	USA 2008	4:16.03 MICHAEL MANN	USA 2009	31.82 TIMOTHY SHEAD	USA 2009
1:02.75 DMITRI KHODKO	SWE 2009	4:24.92 JIM MCCONICA	USA 2006	32.17 STUART ELLICOTT	AUS 2009
1:03.21 ANDREA FLORIT	ITA 2010	4:28.73 TOD SPIEKER	USA 2003	32.18 ROBERT STRAND	USA 2001
1:03.54 TIMOTHY SHEAD	USA 2002	4:28.97 J.CHATARD	FRA 2006	32.44 ALEXANDER MILLS	NOR 2006
1:03.57 TOM WOLF	USA 2004	4:31.95 STEVEN PRESCOTT	NZL 2009	32.79 MARCO STENTELLA	ITA 2010
1:03.61 JOHN VAN BUUREN	CAN 2005	4:32.83 TIM BIRNIE	USA 2000	33.03 C.STARZEC	FRA 2005
1:03.65 TOM REUDY	USA 2006	4:32.85 LARRY WOOD	USA 2009	33.04 RALPH SCHALLON	SUI 2009
200 M. I.M.		4:35.22 JIM CLEMMONS	USA 2008	33.07 RANDY PARKER	USA 2010
2:13.40 JAMIE FOWLER	USA 2009	4:36.29 DAVE DICKSON	CAN 2009	33.07 ROBERT WEYHENKE	NED 2008
2:14.53 KEN SHILLING	USA 2008	4:36.34 JOEL KRIGER	BRA 2009	100 M. BRST	
2:17.48 PAUL CARTER	USA 2007	800 M. FREE		1:08.13 WALTER KUSCH	GER 2009
2:18.68 SIMON VEALE	GBR 2006	8:51.34 MICHAEL MANN	USA 2009	1:09.93 TIMOTHY SHEAD	USA 2009
2:18.71 SCOTT SHAKE	USA 2008	9:03.00 JIM MCCONICA	USA 2006	1:11.53 ROBERT STRAND	USA 2001
2:19.27 TOM WOLF	USA 2004	9:07.40 G.SCARAMEL	ITA 2008	1:12.01 RALPH SCHALLON	SUI 2009
2:19.63 TOM REUDY	USA 2006	9:13.15 TOD SPIEKER	USA 2003	1:12.54 MICHAEL MANN	USA 2009
2:20.18 DAVID JACOBSON	USA 2010	9:25.93 JIM CLEMMONS	USA 2008	1:12.59 HIROFUMI MORIMOTO	JPN 2010
2:20.20 BOB BUGG	USA 2009	9:26.04 R SCOTT TOWNSEND	USA 2009	1:12.67 ROBERT WEYHENKE	NED 2008
2:20.35 GREG SHAW	USA 2003	9:30.05 JOEL KRIGER	BRA 2009	1:13.41 CELSO JUGEND	BRA 2009
400 M. I.M.		9:32.94 D.UIJTENBOGAART	NED 2002	1:13.54 C.STARZEC	FRA 2005
4:51.57 JAMIE FOWLER	USA 2009	9:33.00 STEVEN PRESCOTT	NZL 2009	1:13.69 RANDY PARKER	USA 2009
4:55.50 LINCOLN DJANG	USA 2009	9:33.71 LARRY WOOD	USA 2009	200 M. BRST	
4:57.52 LORENZO MARUGO	ITA 2004	1500 M. FREE		2:33.79 TIMOTHY SHEAD	USA 2009
4:58.93 JIM MC CONICA	USA 2001	17:14.15 JAMES MCCONICA	USA 2005	2:36.90 RALPH SCHALLON	SUI 2009
4:58.99 HUGO BREGMAN	NED 2009	17:35.21 TOD SPIEKER	USA 2003	2:38.76 ROBERT STRAND	USA 2001
4:59.39 MARK DRENNEN	USA 2006	17:56.15 J.CHATARD	FRA 2006	2:40.52 ROBERT WEYHENKE	NED 2007
5:02.97 DAVID JACOBSON	USA 2010	17:58.95 STEVEN PRESCOTT	NZL 2009	2:42.07 HIROFUMI MORIMOTO	JPN 2010
5:03.99 TOM REUDY	USA 2006	18:02.40 JIM CLEMMONS	USA 2005	2:42.58 JIM CLEMMONS	USA 2008
5:04.49 SIMON VEALE	GBR 2006	18:13.36 LARRY WOOD	USA 2009	2:43.25 HIROKAZU AOYAMA	JPN 2009
5:05.09 GREG SHAW	USA 2003	18:14.38 WILLIAM PENN	USA 2009	2:44.17 TAKEO HIRAMOTO	JPN 2007
*****		18:22.06 RICK WALKER	USA 2009	2:44.90 JACK GROSELLE	USA 2010
M E N 55-59		18:27.16 D.UIJTENBOGAART	NED 2002	2:45.16 JOHN GORDON	GBR 2001
*****		18:30.71 LARRY KRAUSER	USA 2010	50 M. FLY	
50 M. FREE		50 M. BACK		26.93 GREG SHAW	USA 2009
24.70 PAUL TREVISAN	USA 2006	29.07 PHILIPP DJANG	USA 2009	27.21 STEVE BOROWSKI	USA 2002
24.91 JACK GROSELLE	USA 2009	29.41 ALISTAIR COCKBURN	USA 2008	27.58 KEVIN MCCORMACK	USA 2008
25.00 RICH ABRAHAMS	USA 2001	30.15 CASEY CLAFLIN	USA 2008	27.74 RICH ABRAHAMS	USA 2001
25.38 MIKE TENNANT	USA 2009	30.21 TAKEO HIRAMOTO	JPN 2009	27.76 DONALD GRAHAM	USA 2009
25.42 BARRY ROTH	USA 2009	30.25 HUGH WILDER	USA 2003	27.94 JEAN-MARIE CADIAT	BEL 2009
25.55 STEVE BOROWSKI	USA 2002	30.35 ROBERT SMITH	USA 1999	28.14 TIMOTHY SHEAD	USA 2009
25.58 MICHAEL MANN	USA 2009	30.40 GEOFF MYKLEBY	USA 2009	28.19 LEONARD BIELICZ	SWE 2006
25.73 ALEXANDER MILLS	GBR 2006	30.40 TIM BIRNIE	USA 2000	28.24 DAVE WILKIN	CAN 2007
25.76 CHARLES LEMAISTRE	USA 2009	30.42 GREG SHAW	USA 2008	28.31 TOM GEIMAN	USA 2004
25.80 LEONARD BIELICZ	SWE 2007	30.53 WES EDWARDS	USA 2008	100 M. FLY	
100 M. FREE		100 M. BACK		1:00.35 GREG SHAW	USA 2006
54.50 JACK GROSELLE	USA 2009	1:03.75 PHILIPP DJANG	USA 2009	1:02.13 STEVEN WALL	GBR 2009
		1:04.89 TIM BIRNIE	USA 2000	1:02.74 KEVIN MCCORMACK	USA 2009



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:02.74	STEVE BOROWSKI	USA	2002	56.63	RICH ABRAHAMS	USA	2008	1:08.85	RICHARD BURNS	USA	2003
1:03.08	JOHN CRAIG	USA	2009	58.87	BRYAN BATEMAN	USA	2008	1:09.20	PETER O'BRIEN	CAN	2009
1:03.23	JEAN-MARIE CADIAT	BEL	2009	59.74	TERRY DOWNES	RSA	2009	1:09.20	ROBERT SMITH	USA	2004
1:03.51	LEONARD BIELICZ	SWE	2006	59.76	GLENN GRUBER	USA	2009	1:09.72	PETER O'KEEFFE	USA	2010
1:03.72	SHIGEO ASANO	JPN	2004	59.79	GERHARD SCHILLER	GER	2009	1:10.28	GEORGE SCHMIDT	USA	2010
1:03.75	BRAD HORNER	USA	2010	59.83	STEVE HECK	USA	2009	1:11.07	BRYAN BATEMAN	USA	2008
1:03.78	RICH ABRAHAMS	USA	2001	59.90	DAVID QUIGGIN	USA	2004	1:11.66	STEVE HECK	USA	2009
200 M. FLY				1:00.09	FRED SCHLICHER	USA	2008	1:12.06	GARY CHASE	USA	2002
2:19.72	JOHN CRAIG	USA	2009	1:00.24	JEFF FARRELL	USA	2000	1:12.55	GREGORY GUSH	USA	2008
2:21.90	GREG SHAW	USA	2007	1:00.82	GRAHAM CROFT	AUS	2008	200 M. BACK			
2:22.13	JAMES MCCONICA	USA	2005	200 M. FREE				2:29.60	JIM MC CONICA	USA	2010
2:22.73	FRED SCHLICHER	USA	2003	2:09.50	JIM MC CONICA	USA	2010	2:30.96	JOHN CALVERT	USA	2005
2:25.95	SCOTT LAUTMAN	USA	2008	2:10.04	FRED SCHLICHER	USA	2008	2:34.17	RICHARD BURNS	USA	2003
2:26.26	DAVID VANDAM	USA	2010	2:11.78	DUNCAN MCCREADIE	GBR	2006	2:34.71	HUGH WILDER	USA	2007
2:28.52	ROBERT POILETMAN	USA	2001	2:12.14	BERT VOSBERGEN	AUS	2008	2:35.01	GEORGE SCHMIDT	USA	2010
2:29.77	THOMAS BLISS	USA	2009	2:12.18	JOHN CALVERT	USA	2005	2:36.72	PETER O'KEEFFE	USA	2010
2:30.57	PHIL DODSON	USA	2009	2:14.14	STEVE HECK	USA	2009	2:36.88	EDWARD CAZALET	USA	2003
2:31.04	TAKEO HIRAMOTO	JPN	2006	2:14.22	RICH ABRAHAMS	USA	2006	2:37.11	DON MCINTOSH	USA	2003
100 M. I.M.				2:14.66	GLENN GRUBER	USA	2009	2:37.13	STEVE HECK	USA	2010
1:03.48	TIMOTHY SHEAD	USA	2009	2:14.95	JIM CLEMMONS	USA	2010	2:37.23	JOSEF CSIKANY	HUN	2005
1:03.69	GREG SHAW	USA	2008	2:15.29	EDWARD RUDLOFF	USA	2009	50 M. BRST			
1:04.34	ROBERT WEYHENKE	NED	2007	400 M. FREE				32.31	ROBERT STRAND	USA	2009
1:05.51	CHARLES LEMAISTRE	USA	2009	4:37.74	JIM MC CONICA	USA	2010	33.64	YOSHIHIKO OSAKI	JPN	2000
1:05.76	PHILIPP DJANG	USA	2009	4:40.45	DUNCAN MCCREADIE	GBR	2006	33.71	PETER ANDERSEN	USA	2003
1:06.09	ALISTAIR COCKBURN	USA	2008	4:42.39	JIM CLEMMONS	USA	2010	33.96	TOSHIHARU FUJII	JPN	2010
1:06.13	ALEXANDER MILLS	NOR	2006	4:43.69	JOHN CALVERT	USA	2005	33.99	ALLEN STARK	USA	2010
1:06.29	GEORGE SCHMIDT	USA	2008	4:47.16	JEAN LESTIDEAU	FRA	2007	34.24	C.STARZEC	FRA	2010
1:06.41	JACK GROSELLE	USA	2010	4:47.93	SANDY GALLETTY	GBR	2002	34.24	GERSHON SHEFA	ISR	2003
1:06.45	DANIEL ROGACKI	USA	2002	4:48.74	ALAN BELL	USA	2010	34.40	DIETER HOFEL	GER	2009
200 M. I.M.				4:48.76	JAMES MCCLEERY	USA	2009	34.41	HIROSHI KOTEGAWA	JPN	1996
2:16.44	MICHAEL MANN	USA	2009	4:49.57	GLENN GRUBER	USA	2009	34.54	AKIO SUGIYAMA	JPN	1995
2:21.05	GREG SHAW	USA	2006	4:49.86	EDWARD RUDLOFF	USA	2009	100 M. BRST			
2:23.49	ROBERT WEYHENKE	NED	2007	800 M. FREE				1:12.09	ROBERT STRAND	USA	2009
2:23.60	PHILIPP DJANG	USA	2009	9:32.74	JIM MC CONICA	USA	2010	1:13.55	TOSHIHARU FUJII	JPN	2010
2:24.64	TIM SHEAD	RSA	2007	9:43.24	JIM CLEMMONS	USA	2010	1:15.00	ALLEN STARK	USA	2009
2:25.63	JIM CLEMMONS	USA	2008	9:43.83	DUNCAN MCCREADIE	GBR	2005	1:15.92	ALBERT KOSTITSIN	FIN	2002
2:26.70	JAMES MCCONICA	USA	2005	9:51.72	SANDY GALLETTY	GBR	2002	1:16.04	C.STARZEC	FRA	2010
2:27.19	JOHN CALVERT	USA	2000	9:53.30	GEORGE WENDT	USA	2009	1:16.56	PETER ANDERSEN	USA	2003
2:27.94	FRED SCHLICHER	USA	2003	9:56.38	RICK WALKER	USA	2010	1:16.89	DAVID GILDEA	USA	2003
2:28.49	PHIL DODSON	USA	2009	9:58.02	VITTORIO ERMIRIO	ITA	2005	1:17.30	JOZEF KLUKOWSKI	POL	2007
400 M. I.M.				9:58.99	JAMES MCCLEERY	USA	2006	1:17.47	TAKEO HIRAMOTO	JPN	2010
4:51.97	MICHAEL MANN	USA	2009	10:04.36	FRANK MCELROY	USA	2009	1:17.60	STEVE HECK	USA	2009
5:05.40	LORENZO MARUGO	ITA	2007	10:06.73	JEAN LESTIDEAU	FRA	2007	200 M. BRST			
5:08.15	JAMES MCCONICA	USA	2005	1500 M. FREE				2:40.76	ROBERT STRAND	USA	2009
5:11.49	GREG SHAW	USA	2007	18:24.21	JIM MC CONICA	USA	2010	2:46.21	TOSHIHARU FUJII	JPN	2010
5:13.29	R TOD SPIEKER	USA	2003	18:28.64	JIM CLEMMONS	USA	2010	2:47.32	JIM CLEMMONS	USA	2010
5:13.35	JIM CLEMMONS	USA	2008	18:50.59	JAMES MCCLEERY	USA	2007	2:49.35	STEVE HECK	USA	2009
5:21.89	EDDIE RIACH	GBR	2008	18:54.83	DUNCAN MCCREADIE	GBR	2005	2:50.28	ALLEN STARK	USA	2010
5:21.98	PHIL DODSON	USA	2009	18:55.42	ALAN BELL	USA	2010	2:50.40	GEORGE WENDT	USA	2008
5:22.33	PHILIPP DJANG	USA	2009	18:59.27	RICK WALKER	USA	2010	2:50.82	C.STARZEC	FRA	2010
5:23.15	RON ARMSTRONG	CAN	2006	19:00.25	GEORGE WENDT	USA	2009	2:52.88	RICK WALKER	USA	2010
*****				19:01.87	SANDY GALLETTY	GBR	2002	2:53.05	DRURY GALLAGHER	USA	1998
M E N 60-64				19:03.57	VITTORIO ERMIRIO	ITA	2003	2:53.21	DAVID GILDEA	USA	2003
*****				19:05.60	JEAN LESTIDEAU	FRA	2007	50 M. FLY			
50 M. FREE				50 M. BACK				27.87	RICHARD ABRAHAMS	USA	2008
24.90	RICH ABRAHAMS	USA	2006	30.50	TAKEO HIRAMOTO	JPN	2010	28.30	TAKEO HIRAMOTO	JPN	2010
26.18	RAGNAR JENSEN	NOR	2008	30.80	HUGH WILDER	USA	2009	28.80	KENJI NAKAMATSU	JPN	2009
26.31	JEFF FARRELL	USA	2000	31.31	ROBERT SMITH	USA	2004	29.04	JIM DRAGON	USA	2007
26.52	ROBERT SMITH	USA	2003	31.50	JOSE LORO	BRA	2009	29.11	JEAN LESTIDEAU	FRA	2009
26.54	FUMIO SHIGENO	JPN	2009	31.52	PETER O'BRIEN	CAN	2009	29.13	JOSEP CLARET	ESP	2004
26.84	R.DOBELMANN	FRA	2009	31.65	RICHARD BURNS	USA	2003	29.42	SHIGEO ASANO	JPN	2008
26.97	PETER O'KEEFFE	USA	2010	31.67	JEAN LESTIDEAU	FRA	2008	29.48	BRYAN BATEMAN	USA	2008
27.00	GERHARD SCHILLER	GER	2009	32.04	GEORGE SCHMIDT	USA	2010	29.48	ALBERT BACKES	GER	1995
27.03	STEVE HECK	USA	2009	32.11	STEVEN HECK	USA	2010	29.54	KURT GERHARDT	USA	2010
27.03	VINUS VANBAALEN	USA	2003	32.56	VINUS VAN BAALEN	CAN	2002	100 M. FLY			
100 M. FREE				100 M. BACK				1:03.67	TAKEO HIRAMOTO	JPN	2010
				1:07.31	HUGH WILDER	USA	2009	1:03.76	RICH ABRAHAMS	USA	2006



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:05.57 FRED SCHLICHER	USA 2008	100 M. FREE	1:10.16 RICHARD BURNS	USA 2009	
1:05.91 SHIGEO ASANO	JPN 2009	58.68 RICHARD ABRAHAMS	USA 2010	1:12.20 BERND HORSTMANN	GER 2009
1:06.44 JEAN LESTIDEAU	FRA 2009	59.40 DAVID QUIGGIN	USA 2009	1:13.11 ROBERT SMITH	USA 2008
1:06.74 ROBERT POILETMAN	USA 2003	59.60 KEEFE LODWIG	USA 2008	1:14.04 BARRY YOUNG	NZL 2004
1:06.89 KOJI IWAMOTO	JPN 2002	1:01.13 RICHARD BURNS	USA 2008	1:14.66 YOSHI OYAKAWA	USA 1998
1:06.96 JOSEP CLARET	ESP 2007	1:01.36 JEFF FARRELL	USA 2002	1:14.69 LUIZ FIGUEIREDO	BRA 2006
1:07.60 ERIC HENDERSON	GBR 2008	1:01.77 PHILIPPE MARCHAT	FRA 2009	1:14.74 YOSHIKATSU SAWADA	JPN 2009
1:08.31 HORST LEHMANN	GER 2009	1:02.12 TOM LANDIS	USA 2007	1:15.54 VINUS VAN BAALEN	USA 2007
200 M. FLY		1:02.21 IAN SMITH	CAN 2009	1:16.12 S.SEKIKAWA	JPN 1998
2:30.18 FRED SCHLICHER	USA 2008	1:02.24 PETER BERGENGREN	SWE 2003	1:16.77 BURWELL JONES	USA 2002
2:32.76 JEAN LESTIDEAU	FRA 2007	1:02.41 CAV CAVANAUGH	USA 2000	200 M. BACK	
2:34.65 ROBERT POILETMAN	USA 2003	200 M. FREE		2:34.97 RICHARD BURNS	USA 2009
2:37.79 DEREK PARR	GBR 2005	2:15.39 DAVID QUIGGIN	USA 2009	2:37.65 BERND HORSTMANN	GER 2008
2:37.97 KOJI IWAMOTO	JPN 2002	2:16.27 KEEFE LODWIG	USA 2008	2:43.82 MICHAEL MCCOLLY	USA 2010
2:39.25 DOUGLAS MILLER	USA 2007	2:17.15 TOM LANDIS	USA 2008	2:44.62 LUIZ FIGUEIREDO	BRA 2006
2:39.75 HORST LEHMANN	GER 2009	2:18.31 RICHARD BURNS	USA 2009	2:45.56 GARY CHASE	USA 2005
2:40.80 ALAN BELL	USA 2010	2:18.71 JEFF FARRELL	USA 2002	2:47.59 S.SEKIKAWA	JPN 1998
2:41.64 JIM CLEMMONS	USA 2010	2:20.13 RUDOLF SMERDA	CZE 2009	2:48.33 RICHARD TODD	USA 2007
2:44.54 FRANK MCELROY	USA 2009	2:21.58 DON DAVIS	USA 2009	2:48.78 YOSHIKATSU SAWADA	JPN 2009
100 M. I.M.		2:21.65 VITTORIO ERMIRIO	ITA 2007	2:50.06 VINUS VAN BAALEN	CAN 2009
1:06.53 TAKEO HIRAMOTO	JPN 2010	2:21.73 DUNCAN MCCREADIE	GBR 2010	2:50.75 BOB BARRY	AUS 1996
1:07.80 GEORGE SCHMIDT	USA 2010	2:22.07 GRAHAM JOHNSTON	USA 1997	50 M. BRST	
1:07.88 BRYAN BATEMAN	USA 2008	400 M. FREE		33.86 OSAMU MAEDA	JPN 2010
1:07.98 ROBERT STRAND	USA 2009	4:55.56 TOM LANDIS	USA 2007	34.55 LOUIS KRONFELD	USA 2008
1:08.08 RICH ABRAHAMS	USA 2009	4:55.97 DAVID QUIGGIN	USA 2009	34.88 JIM DRAGON	USA 2009
1:08.09 STEVEN HECK	USA 2009	4:59.03 VITTORIO ERMIRIO	ITA 2007	34.92 DAVID GILDEA	USA 2009
1:09.39 ROBERT SMITH	USA 2003	5:00.26 DON DAVIS	USA 2009	35.13 KENNETH FROST JR	USA 2009
1:09.93 JACK KELSO	CAN 1999	5:01.65 RICHARD BURNS	USA 2009	35.46 HIROSHI KOTEGAWA	JPN 2001
1:09.95 DRURY GALLAGHER	USA 1998	5:03.87 VICTOR PAUL	AUS 2009	35.59 DIETER HOFEL	GER 2010
1:10.33 JEAN LESTIDEAU	FRA 2009	5:06.55 DUNCAN MCCREADIE	FRA 2010	35.67 PETER ANDERSEN	USA 2008
200 M. I.M.		5:06.60 FABRIZIO MOMONI	ITA 2003	35.70 RICHARD TODD	USA 2008
2:30.48 JOHN CALVERT	USA 2005	5:09.09 GRAHAM JOHNSTON	USA 1996	36.07 MANUEL SANGUILY	USA 1998
2:30.56 FRED SCHLICHER	USA 2008	5:09.96 RAYMOND STOKES	GBR 2004	100 M. BRST	
2:30.64 STEVE HECK	USA 2009	800 M. FREE		1:16.64 OSAMU MAEDA	JPN 2010
2:31.02 JIM CLEMMONS	USA 2010	10:16.06 VITTORIO ERMIRIO	ITA 2007	1:17.01 DAVID GILDEA	USA 2008
2:31.98 ROBERT STRAND	USA 2009	10:21.09 TOM LANDIS	USA 2008	1:18.66 RICHARD TODD	USA 2008
2:32.47 JEAN LESTIDEAU	FRA 2009	10:33.02 DON DAVIS	USA 2009	1:19.12 KENNETH FROST JR	USA 2009
2:34.99 GEORGE SCHMIDT	USA 2010	10:34.23 JOACHIM HINTZE	GER 2009	1:19.41 DIETER HOFEL	GER 2010
2:35.04 JACK KELSO	CAN 1999	10:35.13 GRAHAM JOHNSTON	USA 1996	1:20.36 THOMAS JOHNSON	GBR 2007
2:35.12 DUNCAN MCCREADIE	GBR 2005	10:36.99 DUNCAN MCCREADIE	GBR 2010	1:20.41 GERSHON SHEFA	ISR 2008
2:35.84 GEORGE WENDT	USA 2008	10:42.18 DAVID QUIGGIN	USA 2009	1:21.32 LOUIS KRONFELD	USA 2008
400 M. I.M.		10:44.95 DAVID HARRISON	USA 2002	1:21.34 NICK TEMPLEMAN	CAN 1996
5:22.86 JIM CLEMMONS	USA 2010	10:45.50 DICK STEWART	USA 2006	1:21.55 BERND WUNSCH	GER 2003
5:25.65 NICK LECLERCQ	USA 2006	10:46.38 RICHARD BURNS	USA 2009	200 M. BRST	
5:26.90 JIM MC CONICA	USA 2010	1500 M. FREE		2:54.56 GERSHON SHEFA	ISR 2008
5:30.74 JEAN LESTIDEAU	FRA 2009	19:32.78 TOM LANDIS	USA 2007	2:56.37 KENNETH FROST	USA 2009
5:33.42 STEVE HECK	USA 2009	19:41.85 VITTORIO ERMIRIO	ITA 2007	2:56.84 DAVID GILDEA	USA 2008
5:34.43 EDWARD CAZALET	USA 2003	19:53.18 GRAHAM JOHNSTON	USA 1996	2:59.11 RICHARD TODD	USA 2007
5:36.24 TAKEO HIRAMOTO	JPN 2010	20:09.42 DAVID QUIGGIN	USA 2009	2:59.55 YOSHIAKI AOKI	JPN 2005
5:38.91 SANDY GALLETLY	GBR 2002	20:10.13 DON DAVIS	USA 2009	3:00.13 MIKE FRESHLEY	USA 2006
5:39.12 DRURY GALLAGHER	USA 1999	20:36.17 DICK STEWART	USA 2006	3:00.27 MICHAEL MOLONEY	AUS 2004
5:39.61 GEORGE WENDT	USA 2007	20:40.76 VICTOR PAUL	AUS 2009	3:02.15 HANS REICHELT	GER 2004
		20:49.25 ERNIE LESKOVITZ	USA 2003	3:03.31 TOM WALKER	GBR 2000
		20:50.75 RICHARD BURNS	USA 2010	3:05.19 TONY GOODWIN	AUS 2002
		20:54.80 BURWELL JONES	USA 2002	50 M. FLY	
		50 M. BACK		28.91 JOSEP CLARET	ESP 2009
		31.64 RICHARD BURNS	USA 2008	28.99 RICHARD ABRAHAMS	USA 2010
		32.32 VINUS VAN BAALEN	USA 2008	29.18 JIM DRAGON	USA 2009
		32.35 LUIZ FIGUEIREDO	BRA 2006	29.78 DAVID QUIGGIN	USA 2009
		32.76 ROBERT SMITH	USA 2008	29.79 KEEFE LODWIG	USA 2008
		32.94 RICHARD ABRAHAMS	USA 2010	30.49 TOMOYASU IIDA	JPN 2009
		33.32 BERND HORSTMANN	GER 2009	30.54 GEORGES KOESSLER	FRA 2007
		33.38 YOSHI OYAKAWA	USA 1999	30.56 BERND SCHRODER	GER 2009
		33.41 KATSUTAKA IZUMI	JPN 2010	30.70 BOB BAILIE	USA 2001
		33.90 GARY CHASE	USA 2005	30.71 BERT PETERSEN	USA 2003
		34.43 FRANS VAN ENST	NED 2005	100 M. FLY	
		100 M. BACK		1:05.90 JOSEP CLARET	ESP 2009



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:06.60 RICHARD ABRAHAMS USA 2010	29.77 DAVID RADCLIFF USA 2004	36.94 T.HASHIMOTO JPN 2010
1:08.36 DAVID QUIGGIN USA 2009	100 M. FREE	100 M. BACK
1:09.10 ROBERT POILETMAN USA 2009	1:03.33 JEFF FARRELL USA 2007	1:14.31 BARRY YOUNG NZL 2009
1:09.66 DEREK PARR GBR 2009	1:04.58 CAV CAVANAUGH USA 2005	1:15.85 YOSHI OYAKAWA USA 2003
1:10.25 RICHARD BURNS USA 2008	1:04.66 PETER BERGENGREN SWE 2008	1:16.73 BURWELL JONES USA 2003
1:10.73 KOJI IWAMOTO JPN 2009	1:06.26 GRAHAM JOHNSTON USA 2001	1:18.73 S.SEKIKAWA JPN 2003
1:11.45 KEEFE LODWIG USA 2008	1:06.29 WILLIAM LETCH GBR 2010	1:19.09 MARTY MENNEN USA 2007
1:11.62 BERND SCHRODER GER 2009	1:06.32 MASATO YOSHINO JPN 2009	1:20.94 MAMPEI SEINO JPN 2003
1:11.89 TOMOYASU IIDA JPN 2009	1:06.50 JEFF RADCLIFF USA 2004	1:21.05 FRANS VAN ENST NED 2010
200 M. FLY	1:06.70 CHARLES BALDWIN USA 2000	1:21.09 ALAN JACKSON GBR 2009
2:38.71 ROBERT POILETMAN USA 2008	1:06.95 T.HASHIMOTO JPN 2010	1:21.50 ROGER FRANKS USA 1997
2:41.64 DEREK PARR GBR 2009	1:07.47 RONALD JOHNSON USA 2001	1:21.68 KARL DONOGHUE CAN 2010
2:48.60 KOJI IWAMOTO JPN 2009	200 M. FREE	200 M. BACK
2:48.78 RICHARD KITCHELL USA 2005	2:24.31 GRAHAM JOHNSTON USA 2001	2:40.17 BARRY YOUNG NZL 2009
2:53.93 JOACHIM HINTZE GER 2008	2:28.41 CAV CAVANAUGH USA 2005	2:51.24 BURWELL JONES USA 2003
2:57.23 TAISUKE MIYAZAKI JPN 2004	2:29.28 MASATO YOSHINO JPN 2009	2:53.22 S.SEKIKAWA JPN 2003
2:59.62 DAVID CUMMING GBR 2004	2:30.04 JEFF FARRELL USA 2008	2:53.59 YOSHI OYAKAWA USA 2003
3:00.15 HUGH RODDIN USA 2008	2:30.27 BURWELL JONES USA 2004	2:54.36 MARTY MENNEN USA 2007
3:00.83 D MCLACHLAN RSA 2002	2:30.45 DAVID RADCLIFF USA 2007	2:55.73 ROGER FRANKS USA 1998
3:01.01 VICTOR PAUL AUS 2010	2:30.62 WERNER SCHNABEL GER 2009	2:58.07 KARL DONOGHUE CAN 2010
100 M. I.M.	2:31.75 BALAZS GYORFFY GBR 2008	2:58.91 MAMPEI SEINO JPN 2003
1:10.42 RICHARD ABRAHAMS USA 2010	2:32.29 DAVID COSTILL USA 2008	2:59.35 ALAN JACKSON GBR 2009
1:10.67 RICHARD BURNS USA 2008	2:33.22 T.HASHIMOTO JPN 2010	2:59.92 PAUL HUTINGER USA 1994
1:12.04 KOJI IWAMOTO JPN 2009	2:33.22 NELIO VILLASBOAS BRA 2002	50 M. BRST
1:12.51 JEFF FARRELL USA 2002	400 M. FREE	35.85 YOSHIHIKO OSAKI JPN 2009
1:13.40 ALEXANDER KRYUKOV RUS 2009	5:09.75 GRAHAM JOHNSTON USA 2002	37.26 JEFF FARRELL USA 2007
1:13.65 DAVID GILDEA USA 2009	5:15.88 BURWELL JONES USA 2003	37.44 HANS REICHELT GER 2007
1:13.90 BERND SCHRODER GER 2008	5:18.28 DAVID RADCLIFF USA 2007	37.47 NICK TEMPLEMAN CAN 2001
1:14.29 ROBERT SMITH USA 2008	5:26.04 YASUSHI YAMAGUCHI JPN 2009	37.68 AKIO SUGIYAMA JPN 2005
1:14.42 HIROSHI NONAKA JPN 2007	5:28.30 GEOFF STOKES GBR 2009	37.71 MANUEL SANGUILY USA 2004
1:14.56 VINUS VAN BAALEN CAN 2009	5:29.16 JOHN CRISP AUS 2005	37.96 KARL WIEDAMANN USA 2008
200 M. I.M.	5:30.15 NIC GEERS NED 2009	38.00 MASARU SHINKAI JPN 2010
2:38.42 RICHARD BURNS USA 2009	5:30.42 CAV CAVANAUGH USA 2005	38.12 TONY GOODWIN AUS 2007
2:41.64 BERND HORSTMANN GER 2008	5:30.96 IKURO SHIMONO JPN 2010	38.15 JOHN KORTHEUER USA 2001
2:42.68 KOJI IWAMOTO JPN 2009	5:35.01 JOAQUIN CANALES ESP 2010	100 M. BRST
2:43.49 MIKE FRESHLEY USA 2006	800 M. FREE	1:23.63 BARRY YOUNG NZL 2009
2:46.35 JEFF FARRELL USA 2002	10:52.68 GRAHAM JOHNSTON USA 2001	1:23.70 HANS REICHELT GER 2007
2:47.43 VICTOR PAUL AUS 2009	11:01.38 DAVID RADCLIFF USA 2007	1:24.13 TONY GOODWIN AUS 2007
2:48.14 MICHAEL MCCOLLY USA 2010	11:16.51 YASUSHI YAMAGUCHI JPN 2009	1:24.13 TETSUO NAKAMARU JPN 2005
2:48.63 RICHARD TODD USA 2008	11:23.10 ERNIE LESKOVITZ USA 2006	1:24.31 YOSHIAKI AOKI JPN 2008
2:49.00 JACK KELSO CAN 2007	11:25.65 JOHN CRISP AUS 2005	1:25.02 JACK KELSO CAN 2009
2:49.10 ROBERTO ALBERICHE ESP 1996	11:26.47 GEOFF STOKES GBR 2009	1:25.11 RON JOHNSON USA 2003
400 M. I.M.	11:30.41 IKURO SHIMONO JPN 2007	1:25.34 KARL WIEDAMANN USA 2008
5:50.91 RICHARD BURNS USA 2009	11:38.41 FRANK PIEMME USA 1995	1:25.49 PETER BELL CAN 2007
5:58.93 MIKE FRESHLEY USA 2006	11:44.62 FRANK WILLIAMS USA 2010	1:25.80 MASARU SHINKAI JPN 2010
5:59.98 MICHAEL MCCOLLY USA 2010	11:50.05 DICK STEWART USA 2010	200 M. BRST
6:02.48 RICHARD TODD USA 2008	1500 M. FREE	3:01.22 BARRY YOUNG NZL 2009
6:02.61 DAVID QUIGGIN USA 2009	20:54.56 GRAHAM JOHNSTON USA 2001	3:05.27 HANS REICHELT GER 2007
6:04.40 GRAHAM JOHNSTON USA 1996	21:17.81 JOHN CRISP AUS 2005	3:05.42 MICHAEL MOLONEY AUS 2009
6:06.22 KOJI IWAMOTO JPN 2010	21:24.18 DAVID RADCLIFF USA 2007	3:06.16 TONY GOODWIN AUS 2007
6:07.00 ROBERTO ALBERICHE ESP 1996	22:02.11 YASUSHI YAMAGUCHI JPN 2009	3:07.68 YOSHIAKI AOKI JPN 2009
6:09.35 VICTOR PAUL AUS 2009	22:08.91 GEOFF STOKES GBR 2009	3:09.86 PETER BELL CAN 2005
6:09.50 JURGEN ALTENHOFEN GER 2010	22:12.38 MICK MARSHALL GBR 2009	3:10.40 JACK KELSO CAN 2009
*****	22:24.23 FRANK WILLIAMS USA 2010	3:11.24 MASARU SHINKAI JPN 2010
M E N 70-74	22:30.87 WILLIAM PHILLIPS USA 1998	3:12.98 RON JOHNSON USA 2003
*****	22:32.76 ERNIE LESKOVITZ USA 2008	3:13.17 KARL WIEDAMANN USA 2009
50 M. FREE	22:44.45 FRANK PIEMME USA 1995	50 M. FLY
27.70 JEFF FARRELL USA 2008	50 M. BACK	31.55 BERT PETERSEN USA 2008
28.28 PETER BERGENGREN SWE 2008	33.90 YOSHI OYAKAWA USA 2003	31.71 HIROSHI MATSUMOTO JPN 2009
28.55 RON JOHNSON USA 2003	35.44 S.SEKIKAWA JPN 2003	32.57 RONALD JOHNSON USA 2001
28.76 CAV CAVANAUGH USA 2008	35.71 PAUL HUTINGER USA 1994	32.73 HELMUT RICHTER GER 2009
28.99 KATSUKI ISHIHARA JPN 2009	35.75 BURWELL JONES USA 2004	32.93 JEFF FARRELL USA 2008
29.00 WOLFRAM GOTTFRIED GER 2003	35.77 FRANS VAN ENST NED 2010	33.06 DAVE COSTILL USA 2008
29.63 T.HASHIMOTO JPN 2010	35.99 BARRY YOUNG NZL 2010	33.10 PETER BERGENGREN SWE 2008
29.73 TAKEKAZU KOTERA JPN 2010	36.16 HELMUT RICHTER GER 2009	33.59 WILLIAM LETCH GBR 2010
29.77 CHARLES BALDWIN USA 2000	36.21 JOAQUIN CANALES ESP 2010	33.61 BOB BAILIE USA 2006
	36.88 GUNTER KOBOW GER 2007	33.72 JOAQUIN CANALES ESP 2010



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

100 M. FLY		32.03 JAMES ZURCHER	USA 2009	39.14 GORO TANIGUCHI	JPN 1997
1:16.91 BARRY YOUNG	NZL 2009	32.09 KEIJIRO NAKAMURA	JPN 1999	39.83 RAYMOND TAFT	USA 1994
1:18.42 TAISUKE MIYAZAKI	JPN 2009	32.14 WOLFRAM GOTTFRIED	GER 2008	100 M. BACK	
1:18.59 WILLIAM LETCH	GBR 2010	100 M. FREE		1:18.47 BURWELL JONES	USA 2009
1:18.90 JOAQUIN CANALES	ESP 2010	1:05.13 DAVID RADCLIFF	USA 2009	1:20.16 YOSHI OYAKAWA	USA 2008
1:19.47 LUIS SIMI	BRA 2007	1:08.90 BURWELL JONES	USA 2009	1:20.66 S.SEKIKAWA	JPN 2009
1:19.51 RONALD JOHNSON	USA 2001	1:10.71 SHINGO YAMAMOTO	JPN 2006	1:23.81 CLARKE MITCHELL	USA 2007
1:20.31 HIROSHI MATSUMOTO	JPN 2006	1:11.53 GRAHAM JOHNSTON	USA 2007	1:24.21 KEIJIRO NAKAMURA	JPN 1998
1:20.35 DAVID COSTILL	ESP 2007	1:11.55 FRANK PIEMME	USA 2000	1:25.13 PAUL HUTINGER	USA 2000
1:20.36 DAVID CUMMING	GBR 2009	1:11.74 JAMES ZURCHER	USA 2009	1:25.22 ROGER FRANKS	USA 2002
1:21.06 GUNTER SCHOPKE	GER 2010	1:12.91 JOHN CRISP	AUS 2010	1:26.10 MAMPEI SEINO	JPN 2007
200 M. FLY		1:12.98 EDWARD BREISACHER	USA 2007	1:26.40 JACK HALE	GBR 1997
2:51.32 BARRY YOUNG	NZL 2009	1:13.12 WOLFRAM GOTTFRIED	GER 2008	1:27.41 RAYMOND TAFT	USA 1994
3:05.81 WILLIAM LETCH	GBR 2010	1:13.35 JACK HALE	GBR 1997	200 M. BACK	
3:06.07 TAISUKE MIYAZAKI	JPN 2010	200 M. FREE		2:49.20 BURWELL JONES	USA 2009
3:08.60 TAKASHI HAYASHI	JPN 2003	2:27.53 DAVID RADCLIFF	USA 2009	2:58.21 ROGER FRANKS	USA 2002
3:13.57 JESUS DOMINGUEZ	ESP 2000	2:37.71 GRAHAM JOHNSTON	USA 2006	3:00.92 S.SEKIKAWA	JPN 2008
3:15.19 RON JOHNSON	USA 2002	2:40.22 JOHN CRISP	AUS 2010	3:09.22 KEIJIRO NAKAMURA	JPN 1999
3:15.58 ALFRED SEEGER	GER 2010	2:42.21 SHINGO YAMAMOTO	JPN 2006	3:10.00 MAMPEI SEINO	JPN 2008
3:16.40 P.WERMELSKIRCHEN	GER 2009	2:46.17 ARAM BOGHOSSIAN	BRA 2004	3:10.22 RAYMOND TAFT	USA 1994
3:17.30 DAVID CUMMING	GBR 2009	2:47.41 HIROSHI YOSHIMURA	JPN 2004	3:12.53 PAUL HUTINGER	USA 2000
3:18.59 ROBERT PFERSDORFF	GER 1995	2:47.43 FRANK PIEMME	USA 2000	3:13.21 YOSHI OYAKAWA	USA 2008
100 M. I.M.		2:47.65 KIYOJI AMANO	JPN 2006	3:13.86 BOB BARRY	AUS 2006
1:14.73 JACK KELSO	CAN 2009	2:48.33 MASAYASU KAMIYA	JPN 2008	3:13.98 THOMAS WALKER	GBR 2010
1:15.54 BARRY YOUNG	NZL 2009	2:48.67 RAYMOND TAFT	USA 1994	50 M. BRST	
1:15.92 RONALD JOHNSON	USA 2001	400 M. FREE		39.04 TETSUO NAKAMARU	JPN 2010
1:16.05 JEFF FARRELL	USA 2007	5:15.10 DAVID RADCLIFF	USA 2009	39.97 TOSHIO TAJIMA	JPN 2000
1:17.19 DAVE COSTILL	USA 2008	5:40.14 GRAHAM JOHNSTON	USA 2006	40.07 MANUEL SANGUILY	USA 2008
1:17.22 BURWELL JONES	USA 2003	5:45.47 HIROSHI YOSHIMURA	JPN 2004	40.17 ROBERT PFERSDORFF	GER 1999
1:18.44 WOLFRAM GOTTFRIED	GER 2001	5:50.39 BURWELL JONES	USA 2008	40.62 JOHN KORTHEUER	USA 2006
1:18.45 JOAQUIN CANALES	ESP 2010	5:50.91 JOHN CRISP	AUS 2010	40.99 TSUTOMU KAJIHARA	JPN 2008
1:18.58 WILLIAM LETCH	GBR 2010	6:01.32 FRANK PIEMME	USA 2000	41.25 BURWELL JONES	USA 2009
1:19.43 CHARLES BALDWIN	USA 2000	6:02.95 RAYMOND TAFT	USA 1995	41.55 SHUNSAKU TAKAHIRA	JPN 2008
200 M. I.M.		6:04.20 KARL HAUTER	GER 2000	41.65 HIROFUMI HOSOTANI	JPN 2010
2:42.44 BARRY YOUNG	NZL 2009	6:06.35 TOSABURO HOSOKAWA	JPN 2010	41.65 HIROSHI AOYAGI	JPN 2009
2:49.43 JACK KELSO	CAN 2009	6:07.86 ARAM BOGHOSSIAN	BRA 2004	100 M. BRST	
2:51.73 BURWELL JONES	USA 2003	800 M. FREE		1:27.76 TETSUO NAKAMARU	JPN 2010
2:55.51 RON JOHNSON	USA 2002	10:59.10 DAVID RADCLIFF	USA 2009	1:28.61 ROBERT PFERSDORFF	GER 1999
2:55.58 GRAHAM JOHNSTON	USA 2002	11:38.56 BURWELL JONES	USA 2008	1:28.72 SHUNSAKU TAKAHIRA	JPN 2007
2:57.11 IKURO SHIMONO	JPN 2009	12:00.94 GRAHAM JOHNSTON	USA 2006	1:30.02 TSUTOMU KAJIHARA	JPN 2008
2:57.37 JOAQUIN CANALES	ESP 2010	12:02.87 HIROSHI YOSHIMURA	JPN 2004	1:32.66 THOMAS WALKER	GBR 2010
2:57.74 JEFF FARRELL	USA 2007	12:13.28 FRANK PIEMME	USA 2000	1:32.85 ERICH NEUMANN	GER 2005
3:00.88 JESUS DOMINGUEZ	ESP 1996	12:36.49 JOSEF KREJCI	SUI 2009	1:33.20 ZENJI NAKAHARI	JPN 2006
3:02.07 MOTOHISA HIROSE	JPN 2008	12:39.48 GIULIO DIVANO	ITA 2008	1:33.76 WERNER MULLER	GER 2009
400 M. I.M.		12:45.40 RAYMOND TAFT	USA 1994	1:34.60 KARL HAUTER	GER 2000
5:48.67 BARRY YOUNG	NZL 2009	12:49.63 WERNER MULLER	GER 2009	1:34.85 HIROFUMI HOSOTANI	JPN 2010
6:21.46 BURWELL JONES	USA 2003	12:57.29 LARRY GOOD	USA 2009	200 M. BRST	
6:21.47 JACK KELSO	CAN 2009	1500 M. FREE		3:20.93 TSUTOMU KAJIHARA	JPN 2008
6:23.43 GRAHAM JOHNSTON	USA 2002	20:39.50 DAVID RADCLIFF	USA 2009	3:21.50 KARL HAUTER	GER 2000
6:25.28 IKURO SHIMONO	JPN 2009	22:27.75 GRAHAM JOHNSTON	USA 2006	3:24.84 ROBERT PFERSDORFF	GER 1999
6:38.19 DAVID CUMMING	GBR 2009	22:28.06 BURWELL JONES	USA 2008	3:26.71 SHUNSAKU TAKAHIRA	JPN 2008
6:38.98 FRANK PIEMME	USA 1995	22:52.00 HIROSHI YOSHIMURA	JPN 2003	3:28.02 ESKO SALONEN	FIN 2001
6:39.24 JOHN CRISP	AUS 2005	23:22.66 TOSABURO HOSOKAWA	JPN 2010	3:28.99 THOMAS WALKER	GBR 2010
6:39.58 JOAQUIN CANALES	ESP 2010	24:22.70 FRANK PIEMME	USA 2000	3:29.02 SHUJI KAWAKAMI	JPN 2010
6:42.04 MOTOHISA HIROSE	JPN 2008	24:46.19 ALDO DA ROSA	USA 1993	3:29.54 AL CRAIG	USA 2003
		24:47.25 THOMAS TAYLOR	USA 2006	3:30.52 FRANK PIEMME	USA 2000
*****		25:04.92 LARRY GOOD	USA 2009	3:31.55 ERIVALDO LIMA	BRA 2008
M E N 75-79		25:23.20 GIULIO DIVANO	ITA 2008	50 M. FLY	
*****		50 M. BACK		33.27 ARAM BOGHOSSIAN	BRA 2004
50 M. FREE		35.51 YOSHI OYAKAWA	USA 2008	34.53 JEAN LE DALL	FRA 2008
30.15 DAVID RADCLIFF	USA 2009	35.93 BURWELL JONES	USA 2009	34.83 FRANK PIEMME	USA 2000
31.06 FRANK PIEMME	USA 2001	36.58 S.SEKIKAWA	JPN 2008	35.80 CLARKE MITCHELL	USA 2007
31.08 BURWELL JONES	USA 2009	36.68 CLARKE MITCHELL	USA 2007	35.84 BURWELL JONES	USA 2009
31.31 SHINGO YAMAMOTO	JPN 2009	37.47 KEIJIRO NAKAMURA	JPN 1998	36.24 TAKASHI HAYASHI	JPN 2009
31.40 ANDERS SODERQVIST	SWE 2008	38.38 PAUL HUTINGER	USA 1999	36.42 MASAYASU KAMIYA	JPN 2007
31.64 ALDO EMINENTE	FRA 2006	38.83 JACK HALE	GBR 1997	36.88 TAMON YOSHIDA	JPN 2001
32.00 RUDI VAN ESS	GER 2008	39.01 MAMPEI SEINO	JPN 2008	37.18 ROBERT PFERSDORFF	GER 1999



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

37.24 MASARU IGARASHI JPN 2010	34.52 TAKAHIKO NOMA JPN 2008	43.34 HORACE KNOWLTON USA 2009
100 M. FLY	34.74 SHOICHI SHIDA JPN 2006	43.66 WILLIAM ROWE USA 1997
1:24.38 TAKASHI HAYASHI JPN 2009	34.77 ZENJI NAKAHARI JPN 2008	43.71 OTTO CLAUS GER 1995
1:27.25 GIULIO DIVANO ITA 2009	34.90 TOSHIMI INATOMI JPN 2007	100 M. BACK
1:30.09 MASAYASU KAMIYA JPN 2007	100 M. FREE	1:25.77 KEIJIRO NAKAMURA JPN 2003
1:32.07 ROBERT PFERSDORFF GER 2000	1:16.09 KEIJIRO NAKAMURA JPN 2003	1:33.27 PAUL HUTINGER USA 2004
1:32.31 RON JOHNSON USA 2006	1:16.30 SHOICHI SHIDA JPN 2006	1:33.58 RAY TAFT USA 1999
1:32.41 KARL HAUTER GER 2001	1:17.02 FRANK PIEMME USA 2005	1:34.16 ROGER FRANKS USA 2007
1:33.15 HEINZ KRAUSS GER 2007	1:18.67 B.SCHLURIKE GER 2002	1:35.25 JAN ZIEGLER CZE 2005
1:34.40 MASARU IGARASHI JPN 2010	1:18.80 HIKOJI UEKI JPN 1995	1:36.10 HORACE KNOWLTON USA 2009
1:34.76 ERIVALDO LIMA BRA 2008	1:19.03 ROD BAKER AUS 2008	1:36.13 KARL HAUTER GER 2006
1:35.31 ASHLEY JONES USA 2007	1:20.44 TOSHIO SHIMIZU JPN 2007	1:36.41 ALDO DA ROSA USA 1998
200 M. FLY	1:20.65 WOODROW BOWERSOCK USA 1993	1:37.17 EDWARD SHEA USA 1994
3:16.99 TAKASHI HAYASHI JPN 2009	1:20.97 KARL HAUTER GER 2005	1:37.44 BOB MILLER USA 2010
3:26.72 ROBERT PFERSDORFF GER 1999	1:21.28 HIDEAKI KATO JPN 2001	200 M. BACK
3:27.58 KARL HAUTER GER 2001	200 M. FREE	3:10.06 KEIJIRO NAKAMURA JPN 2003
3:29.00 ERIVALDO LIMA BRA 2008	2:58.32 HIROSHI YOSHIMURA JPN 2008	3:23.73 RAY TAFT USA 1999
3:31.23 MAURICE LUSIEN FRA 2001	3:00.21 KARL HAUTER GER 2005	3:24.71 BOB MILLER USA 2010
3:39.04 GIULIO DIVANO ITA 2010	3:00.63 RAYMOND TAFT USA 1999	3:25.46 ROGER FRANKS USA 2007
3:39.51 THOMAS MAINE USA 2002	3:00.86 FRANK PIEMME USA 2005	3:32.87 KARL HAUTER GER 2005
3:40.31 MASARU IGARASHI JPN 2010	3:01.42 HIKOJI UEKI JPN 1995	3:33.60 JAN ZIEGLER CZE 2006
3:42.68 TOSHIMASA MINAMI JPN 2005	3:01.91 TOSHIO SHIMIZU JPN 2007	3:33.91 EDWARD SHEA USA 1994
3:42.99 MINORU NAGASHIMA JPN 2001	3:06.33 S.KROKOSZYNSKI POL 2010	3:34.86 HORACE KNOWLTON USA 2010
100 M. I.M.	3:07.05 DAVID LAWLER AUS 2010	3:39.12 PAUL HUTINGER USA 2004
1:18.80 BURWELL JONES USA 2009	3:07.37 JIRO KOBAYASHI JPN 2005	3:40.02 G.SHIMOMOTO JPN 2007
1:24.42 FRANK PIEMME USA 2000	3:08.98 JAN ZIEGLER CZE 2006	50 M. BRST
1:24.71 DAVID RADCLIFF USA 2009	400 M. FREE	41.42 TOSHIO TAJIMA JPN 2005
1:24.76 JAMES ZURCHER USA 2009	6:20.10 HIROSHI YOSHIMURA JPN 2008	43.64 ZENJI NAKAHARI JPN 2008
1:25.36 KARL HAUTER GER 2000	6:27.60 RAY TAFT USA 1999	43.99 Y.KAWABATA JPN 2006
1:25.68 MASAYASU KAMIYA JPN 2007	6:30.21 KARL HAUTER GER 2006	44.56 Y.MIYAMOTO JPN 1997
1:26.50 TSUTOMU KAJIHARA JPN 2008	6:35.25 TOSHIO SHIMIZU JPN 2007	44.93 GERHARD GIERA GER 2008
1:26.87 CLARKE MITCHELL USA 2008	6:38.17 JAN ZIEGLER CZE 2005	44.97 KARL HAUTER GER 2008
1:27.01 JOHN CRISP AUS 2010	6:38.23 FRANK PIEMME USA 2005	45.13 HORST FRITSCHKE GER 2006
1:27.09 GERHARD HOLE GER 2010	6:45.01 D.CASOLINO ITA 2008	45.39 CHARLES URSTADT USA 2008
200 M. I.M.	6:47.71 JURGEN SCHMIDT USA 2005	45.40 MAX VON ISSER USA 1999
2:59.26 BURWELL JONES USA 2009	6:54.21 RYUJI FUJIKAWA JPN 1998	45.52 WATARU ASAOKA JPN 2005
3:10.06 KARL HAUTER GER 2000	6:55.19 ALDO DA ROSA USA 1998	45.52 KARL WITTENBERG GER 1990
3:10.46 JAMES ZURCHER USA 2009	800 M. FREE	100 M. BRST
3:14.04 JOHN CRISP AUS 2010	12:50.97 HIROSHI YOSHIMURA JPN 2008	1:35.96 ZENJI NAKAHARI JPN 2008
3:15.45 GIULIO DIVANO ITA 2009	13:29.27 RAYMOND TAFT USA 1999	1:36.91 KARL HAUTER GER 2005
3:16.44 FRANK PIEMME USA 2000	13:34.55 KARL HAUTER GER 2007	1:39.85 TOSHIO TAJIMA JPN 2005
3:17.53 MASAYASU KAMIYA JPN 2010	13:41.19 FRANK PIEMME USA 2005	1:42.05 FRANK PIEMME USA 2005
3:18.23 HORST KESTENER BRA 2009	14:05.05 JURGEN SCHMIDT USA 2003	1:43.54 MAX VON ISSER USA 1999
3:19.32 BOB BEST USA 2007	14:35.51 NILS KLING SWE 2004	1:43.70 JAN ZIEGLER CZE 2006
3:20.29 GRAHAM JOHNSTON USA 2006	14:36.00 KEVIN VICKERY AUS 2003	1:43.91 Y.MIYAMOTO JPN 1997
400 M. I.M.	14:37.33 HIROSHI IMAIZUMI JPN 2005	1:45.09 ALDO DA ROSA USA 1998
6:33.87 BURWELL JONES USA 2009	14:39.58 HARVEY PROSSER USA 2008	1:45.51 BARTON GREENBERG USA 2004
6:52.62 KARL HAUTER GER 2001	14:46.09 NORBERT ARTUS CAN 1997	1:45.68 ROBERT MACDONALD USA 2009
6:59.68 FRANK PIEMME USA 2000	1500 M. FREE	200 M. BRST
7:04.92 JOHN CRISP AUS 2010	25:18.69 HIROSHI YOSHIMURA JPN 2009	3:34.21 ZENJI NAKAHARI JPN 2008
7:07.64 GRAHAM JOHNSTON USA 2006	25:35.01 RAY TAFT USA 1999	3:40.73 KARL HAUTER GER 2005
7:08.17 GIULIO DIVANO ITA 2008	26:41.69 ALDO DA ROSA USA 1998	3:45.57 ROBERT MACDONALD USA 2009
7:08.53 RAYMOND TAFT USA 1994	27:03.64 JURGEN SCHMIDT USA 2005	3:47.50 JAN ZIEGLER CZE 2006
7:17.67 BOB BEST USA 2007	27:33.01 ROBERT JOHNSTON USA 1997	3:47.87 FRANK PIEMME USA 2005
7:20.86 ALDO V DA ROSA USA 1992	27:33.43 HIROSHI IMAIZUMI JPN 2005	3:50.86 MAX VAN GELDER NED 2004
7:22.73 FRANK TANNER USA 2008	27:39.31 IRWIN STOLZ USA 2009	3:56.33 ISAO FUNAMOTO JPN 2002
*****	27:56.50 LEE ARTH USA 2005	3:56.35 ROLF STELLRECHT GER 2008
M E N 80-84	28:07.58 RYUJI FUJIKAWA JPN 1999	3:57.72 FERNANDO NAJERA MEX 2003
*****	28:21.48 NORBERT ARTUS CAN 1997	3:58.96 ALDO DA ROSA USA 1998
50 M. FREE	50 M. BACK	50 M. FLY
32.61 KEIJIRO NAKAMURA JPN 2004	38.26 KEIJIRO NAKAMURA JPN 2003	40.24 FRANK PIEMME USA 2005
32.80 FRANK PIEMME USA 2005	40.61 ILO FONSECA BRA 2010	40.25 TOSHIO TAJIMA JPN 2005
33.23 B.SCHLURIKE GER 2001	41.31 SHOICHI SHIDA JPN 2006	40.40 TAMON YOSHIDA JPN 2007
33.60 ILO FONSECA BRA 2010	41.58 PAUL HUTINGER USA 2004	41.87 ANDREW HOLDEN USA 1999
33.79 FUJIO MYOJIN JPN 2008	42.11 DALE WEBSTER USA 2006	42.14 MAX VON ISSER USA 1999
34.33 MAX VAN GELDER AUS 2010	42.16 SHOICHI SAKAMOTO JPN 1998	42.50 JAN ZIEGLER CZE 2005
	42.96 RAY TAFT USA 1999	42.66 SILVANO DANIELI ITA 2008



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

42.86	SUEO YAMAGUCHI	JPN	2010	37.08	SHOICHI SAKAMOTO	JPN	2003	47.34	ALDO DA ROSA	USA	2002
44.65	S.KROKOSZYNSKI	POL	2010	37.16	WOODROW BOWERSOCK	USA	1998	48.08	WILLARD LAMB	USA	2008
44.75	Y.MIYAMOTO	JPN	1997	37.85	ANDREW HOLDEN	USA	2004	48.79	EDWARD SHEA	USA	1999
100 M. FLY				37.96	WILLIAM JOHNSTON	USA	2003	49.24	ANDREW HOLDEN	USA	2004
1:36.53	KARL HAUTER	GER	2005	38.08	JIRO KOBAYASHI	JPN	2010	49.75	PAUL HUTINGER	USA	2009
1:41.82	JAN ZIEGLER	CZE	2005	38.43	TOSHIO TAJIMA	JPN	2010	49.75	C.SCHERER	GER	1999
1:43.20	MAX VAN GELDER	NED	2004	100 M. FREE				100 M. BACK			
1:44.29	THOMAS MAINE	USA	2007	1:19.42	KEIJIRO NAKAMURA	JPN	2008	1:28.98	KEIJIRO NAKAMURA	JPN	2008
1:46.68	SILVANO DANIELI	ITA	2008	1:23.20	JIM EUBANK	USA	2000	1:39.08	GORO KOBAYASHI	JPN	2002
1:47.17	FRANK PIEMME	USA	2005	1:25.28	FRANK PIEMME	USA	2010	1:40.25	TOSHIJI SATO	JPN	2000
1:48.41	MINORU NAGASHIMA	JPN	2006	1:25.28	WILLARD LAMB	USA	2007	1:42.84	KARL HAUTER	GER	2010
1:50.39	ANTON CERER	USA	1997	1:27.00	HIKOJI UEKI	JPN	2000	1:47.93	WILLARD LAMB	USA	2009
1:52.51	WALT PFEIFFER	USA	1994	1:29.28	KARL HAUTER	GER	2010	1:48.79	ALDO DA ROSA	USA	2002
1:53.80	RAYMOND TAFT	USA	1999	1:29.62	WOODY BOWERSOCK	USA	1998	1:48.95	EDWARD SHEA	USA	1999
200 M. FLY				1:29.92	GORO KOBAYASHI	JPN	2003	1:50.96	R.REINSTEDTLER	GER	2000
3:52.41	THOMAS MAINE	USA	2007	1:32.87	HIROSHI IMAIZUMI	JPN	2010	1:51.57	KAIZO WATANABE	JPN	2008
4:00.64	ANTON CERER	USA	1997	1:34.08	TOKUSHI KOMEDA	JPN	2000	1:51.74	PAUL HUTINGER	USA	2009
4:17.12	PAUL KRUP	USA	1997	200 M. FREE				200 M. BACK			
4:17.29	MINORU NAGASHIMA	JPN	2006	3:12.85	WILLARD LAMB	USA	2007	3:18.29	KEIJIRO NAKAMURA	JPN	2008
4:18.70	HIRONARI UEDA	JPN	2002	3:13.45	JIM EUBANK	USA	2000	3:37.45	GORO KOBAYASHI	JPN	2002
4:20.52	KARL HAUTER	GER	2008	3:14.70	KARL HAUTER	GER	2010	3:55.12	WILLARD LAMB	USA	2008
4:23.29	TOSHIMASA MINAMI	JPN	2010	3:15.87	HIKOJI UEKI	JPN	2000	4:00.80	ALDO DA ROSA	USA	2002
4:25.99	WALTER PFEIFFER	USA	1994	3:20.73	JIRO KOBAYASHI	JPN	2010	4:02.65	RYUJI FUJIKAWA	JPN	2002
4:37.61	PAUL HUTINGER	USA	2005	3:26.81	JURGEN SCHMIDT	USA	2009	4:05.07	JOHN MERRILL	USA	2005
4:44.45	LEE ARTH	USA	2005	3:29.01	TOKUSHI KOMEDA	JPN	2000	4:05.25	C.SCHERER	GER	1999
100 M. I.M.				3:37.37	THOMAS MAINE	USA	2010	4:06.86	EDWARD SHEA	USA	2000
1:30.18	ZENJI NAKAHARI	JPN	2008	3:39.35	SABURO IWASAKI	JPN	2001	4:09.25	NILS FERM	SWE	2003
1:31.77	SHOICHI SHIDA	JPN	2006	3:42.64	STEVE CARLSON	USA	2006	4:09.66	R.REINSTADTLER	GER	1999
1:32.25	KARL HAUTER	GER	2005	400 M. FREE				50 M. BRST			
1:32.65	FRANK PIEMME	USA	2005	7:13.19	WILLARD LAMB	USA	2009	44.47	TOSHIO TAJIMA	JPN	2010
1:33.50	JAN ZIEGLER	CZE	2006	7:14.98	FRANK PIEMME	USA	2010	47.24	FRANK PIEMME	USA	2010
1:35.31	RAY TAFT	USA	1999	7:19.56	THOMAS MAINE	USA	2010	47.66	Y.KAWABATA	JPN	2010
1:35.41	W MORGAN BYERS	USA	2009	7:19.94	JIM EUBANK	USA	2000	47.70	Y.MIYAMOTO	JPN	2002
1:35.60	MAX VAN GELDER	NED	2004	7:22.76	HIROSHI IMAIZUMI	JPN	2010	48.82	HIROMU YOSHIMOTO	JPN	2000
1:38.31	ALDO DA ROSA	USA	1998	7:24.82	JURGEN SCHMIDT	USA	2008	50.04	SEIJI TAKAHASHI	JPN	2000
1:38.56	ANDREW HOLDEN	USA	1999	7:27.29	TOKUSHI KOMEDA	JPN	1999	50.25	R.REINSTADTLER	GER	2000
200 M. I.M.				7:47.75	ALDO DA ROSA	USA	2002	50.44	WALTER MINNICH	GER	2004
3:26.48	KARL HAUTER	GER	2006	7:49.70	RYUJI FUJIKAWA	JPN	2002	50.69	H.REITEMEYER	GER	2006
3:37.04	RAYMOND TAFT	USA	1999	7:54.24	GUS LANGNER	USA	1988	50.99	PAUL KRUP	USA	2002
3:39.09	S.KROKOSZYNSKI	POL	2010	800 M. FREE				100 M. BRST			
3:39.84	ALDO DA ROSA	USA	1998	14:04.48	WILLARD LAMB	USA	2008	1:43.72	KARL HAUTER	GER	2010
3:42.99	FRANK PIEMME	USA	2008	15:03.26	JURGEN SCHMIDT	USA	2008	1:47.97	TOSHIO TAJIMA	JPN	2010
3:44.29	THOMAS MAINE	USA	2005	15:05.68	HIROSHI IMAIZUMI	JPN	2010	1:50.32	HIROMU YOSHIMOTO	JPN	2000
3:46.96	ANTON CERER	USA	1997	15:15.07	FRANK PIEMME	USA	2010	1:53.02	FRANK PIEMME	USA	2010
3:47.85	ROLF STELLRECHT	GER	2008	15:15.68	JIM EUBANK	USA	2000	1:56.21	ALDO DA ROSA	USA	2002
3:49.25	YUJI SUZUKI	JPN	2009	16:19.95	TOKUSHI KOMEDA	JPN	1999	1:59.82	Y.MIYAMOTO	JPN	2002
3:50.06	HIROSHI IMAIZUMI	JPN	2005	16:28.13	HAROLD DODD	GBR	2001	2:00.02	H.REITEMEYER	GER	2006
400 M. I.M.				16:35.66	DICK GUIDO	USA	2002	2:01.87	LUDWIG GEBURZI	GER	2006
7:26.06	KARL HAUTER	GER	2005	16:38.41	NILS FERM	SWE	2003	2:03.83	MAX VON ISSER	USA	2004
7:37.58	RAY TAFT	USA	1999	16:53.90	GUS LANGNER	USA	1988	2:04.08	THOMAS MAINE	USA	2010
7:49.23	FRANK PIEMME	USA	2005	1500 M. FREE				200 M. BRST			
7:53.88	ALDO DA ROSA	USA	1998	28:17.36	WILLARD LAMB	USA	2008	4:05.91	FRANK PIEMME	USA	2010
7:55.53	THOMAS MAINE	USA	2007	29:16.62	JURGEN SCHMIDT	USA	2008	4:13.03	THOMAS MAINE	USA	2010
8:00.81	ANTON CERER	USA	1997	29:55.69	JIM EUBANK	USA	2000	4:16.20	ALDO DA ROSA	USA	2002
8:33.86	JURGEN SCHMIDT	USA	2003	30:31.85	TOKUSHI KOMEDA	JPN	1999	4:20.43	HIROMU YOSHIMOTO	JPN	2001
8:34.45	WALTER PFEIFFER	USA	1994	31:05.09	RYUJI FUJIKAWA	JPN	2002	4:28.38	Y.MIYAMOTO	JPN	2002
8:36.45	TED ROACH	CAN	2005	32:11.96	HAROLD DODD	GBR	2004	4:33.70	FERNANDO NAJERA	MEX	2009
8:38.45	JACQUES AMYOT	CAN	2004	32:20.20	GUS LANGNER	USA	1988	4:35.24	WATARU ASAOKA	JPN	2010
				32:43.03	NILS FERM	SWE	2003	4:36.88	PAUL KRUP	USA	2002
*****				33:50.15	ARTHUR THOMAS	AUS	2002	4:40.49	H.REITEMEYER	GER	2008
M E N 85-89				34:02.37	RICHARD SMITH	USA	2005	4:41.35	JACQUES AMYOT	CAN	2009
*****				50 M. BACK				50 M. FLY			
50 M. FREE				40.59	KEIJIRO NAKAMURA	JPN	2009	43.35	MAX VON ISSER	USA	2004
34.54	KEIJIRO NAKAMURA	JPN	2008	43.80	GORO KOBAYASHI	JPN	2001	44.10	TOSHIO TAJIMA	JPN	2010
36.26	FRANK PIEMME	USA	2010	46.08	TOSHIJI SATO	JPN	2000	45.50	FRANK PIEMME	USA	2010
36.51	WILLARD LAMB	USA	2007	46.35	SHOICHI SAKAMOTO	JPN	2003	47.89	ANDREW HOLDEN	USA	2004
36.61	JIM EUBANK	USA	2000	47.17	R.REINSTADTLER	GER	1997	50.51	Y.MIYAMOTO	JPN	2002



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

51.28 THOMAS MAINE	USA 2010	42.76 GEORGE CORONES	AUS 2009	55.47 KAZUNAGA AKUTSU	JPN 2003
52.74 WALT PFEIFFER	USA 1998	42.93 TOKUSHI KOMEDA	JPN 2004	56.02 NILS FERM	SWE 2007
53.00 PAUL KRUP	USA 2004	43.89 KAZUNAGA AKUTSU	JPN 2002	56.15 MASAHISA KANEKO	JPN 2003
53.41 LUDWIG GEBURZI	GER 2006	43.91 ISAMU TAMURA	JPN 2009	56.58 STEVE CARLSON	USA 2009
54.15 PAUL HUTINGER	USA 2009	45.03 R.REINSTADTLER	GER 2002	57.09 WOODY BOWERSOCK	USA 2003
100 M. FLY		45.58 STEVE CARLSON	USA 2009	57.42 FRED SCHULHOF	CAN 2009
1:53.78 THOMAS MAINE	USA 2010	45.92 MASAHISA KANEKO	JPN 2002	100 M. BACK	
1:54.07 FRANK PIEMME	USA 2010	46.23 MASAO UEDA	JPN 2002	1:47.66 GORO KOBAYASHI	JPN 2006
2:01.65 ANDREW HOLDEN	USA 2004	100 M. FREE		1:58.27 TOSHIJI SATO	JPN 2005
2:04.50 WALT PFEIFFER	USA 1998	1:39.26 WOODY BOWERSOCK	USA 2003	2:00.03 JOHN MERRILL	USA 2007
2:13.39 ALDO DA ROSA	USA 2002	1:41.47 TOKUSHI KOMEDA	JPN 2004	2:00.25 R.REINSTADTLER	GER 2002
2:15.51 LUDWIG GEBURZI	GER 2007	1:45.28 GORO KOBAYASHI	JPN 2007	2:05.76 NILS FERM	SWE 2009
2:15.74 PAUL KRUP	USA 2003	1:45.44 GEORGE CORONES	AUS 2009	2:06.00 WOODY BOWERSOCK	USA 2003
2:17.41 PAUL HUTINGER	USA 2009	1:47.51 MASAHISA KANEKO	JPN 2002	2:09.05 MASAHISA KANEKO	JPN 2003
2:23.30 R.REINSTADTLER	GER 1997	1:47.70 STEVE CARLSON	USA 2009	2:10.00 JOHN HARRISON	GBR 2006
2:25.92 ALDO CAPUTI	ITA 2003	1:51.96 HEINZ SIEGEL	GER 2004	2:15.04 TOM HAVER	USA 2008
200 M. FLY		1:54.87 R.REINSTADTLER	GER 2002	2:16.46 FRED SCHULHOF	CAN 2009
4:12.21 THOMAS MAINE	USA 2010	1:56.86 ARTHUR THOMAS	AUS 2007	200 M. BACK	
4:49.10 WALT PFEIFFER	USA 1998	1:56.88 GASTAO FIGUEIREDO	BRA 2000	3:59.25 GORO KOBAYASHI	JPN 2007
5:01.50 PAUL KRUP	USA 2002	200 M. FREE		4:20.68 R.REINSTADTLER	GER 2002
5:15.25 PAUL HUTINGER	USA 2009	3:39.65 TOKUSHI KOMEDA	JPN 2004	4:25.14 JOHN MERRILL	USA 2007
5:29.72 DON LEADER	GBR 2009	3:48.53 GORO KOBAYASHI	JPN 2007	4:29.54 NILS FERM	SWE 2007
5:33.83 HIRONARI UEDA	JPN 2006	3:59.28 WOODY BOWERSOCK	USA 2003	4:47.45 WOODY BOWERSOCK	USA 2003
6:10.72 WILLIAM JOHNSTON	USA 2003	4:03.31 STEVE CARLSON	USA 2009	4:54.70 ALFRED SCHULHOF	CAN 2010
6:33.38 BOB DOUD	USA 2009	4:20.43 GASTAO FIGUEIREDO	BRA 2000	4:56.88 H.MIYAZAKI	JPN 2010
7:59.16 JAY CHARLES	USA 2007	4:23.15 MASAHISA KANEKO	JPN 2003	4:56.91 GASTAO FIGUEIREDO	BRA 2000
8:26.16 ROY BODINE	USA 1997	4:26.25 ARTHUR THOMAS	AUS 2007	5:00.38 JOHN HARRISON	GBR 2004
100 M. I.M.		4:27.02 NILS FERM	SWE 2007	5:04.71 TOM HAVER	USA 2008
1:32.47 HEINZ SIEGEL	GER 2003	4:27.70 GUS LANGNER	USA 1993	50 M. BRST	
1:40.78 KARL HAUTER	GER 2010	4:41.18 L GENE CROSSET	USA 2003	53.23 HEINZ JAHR	GER 1997
1:42.41 FRANK PIEMME	USA 2010	400 M. FREE		55.68 HIROMU YOSHIMOTO	JPN 2005
1:47.12 HIROSHI IMAIZUMI	JPN 2010	8:50.65 GUS LANGNER	USA 1993	58.72 ISAMU TAMURA	JPN 2009
1:48.23 ANDREW HOLDEN	USA 2004	8:52.99 STEVE CARLSON	USA 2009	1:00.00 JOHN HARRISON	GBR 2006
1:48.52 THOMAS MAINE	USA 2010	9:05.71 JOHN MERRILL	USA 2007	1:01.52 FRED SCHULHOF	CAN 2009
1:55.20 LUDWIG GEBURZI	GER 2006	9:16.99 NILS FERM	SWE 2007	1:02.37 ALDO CAPUTI	ITA 2005
1:55.35 MAX VON ISSER	USA 2004	9:23.13 AUSTIN NEWMAN	USA 2005	1:02.62 GEORGE CORONES	AUS 2008
1:56.26 R.REINSTADTLER	GER 1997	9:34.51 TOKUSHI KOMEDA	JPN 2006	1:03.85 R.REINSTADTLER	GER 2002
1:56.30 JURGEN SCHMIDT	USA 2008	9:37.35 WOODY BOWERSOCK	USA 2003	1:04.29 ALFRED SCHULHOF	CAN 2010
200 M. I.M.		9:41.12 R.REINSTADTLER	GER 2003	1:04.67 HEINZ SIEGEL	GER 2004
3:48.34 KARL HAUTER	GER 2010	9:47.46 JIM TRIOLO	USA 2004	100 M. BRST	
3:50.46 FRANK PIEMME	USA 2010	10:02.86 JOHN HARRISON	GBR 2004	2:15.14 HIROMU YOSHIMOTO	JPN 2005
3:54.61 THOMAS MAINE	USA 2010	800 M. FREE		2:23.92 RUSS WITTE	USA 2008
4:02.22 HIROSHI IMAIZUMI	JPN 2010	18:36.25 NILS FERM	SWE 2008	2:32.87 MASAHISA KANEKO	JPN 2002
4:07.59 ALDO DA ROSA	USA 2002	18:49.01 AUSTIN NEWMAN	USA 2005	2:33.12 GEORGE CORONES	AUS 2008
4:19.20 ANDREW HOLDEN	USA 2004	19:31.83 WOODY BOWERSOCK	USA 2003	2:33.67 ALFRED SCHULHOF	CAN 2010
4:24.58 WALT PFEIFFER	USA 1998	20:33.27 HUGH MCGREGOR	CAN 2009	2:45.20 JIM PENFIELD	USA 1998
4:32.34 JURGEN SCHMIDT	USA 2008	20:48.59 JOHN HARRISON	GBR 2004	2:46.31 WALT PFEIFFER	USA 2003
4:34.43 G EDWARD RUDLOFF	USA 2009	22:07.71 JOHN BRICE	AUS 2009	2:49.83 ROMAN JEZEK	CAN 2004
4:40.84 JACQUES AMYOT	CAN 2009	22:29.57 BUD JACKSON	USA 2010	2:49.96 JIM PANTON	CAN 2004
400 M. I.M.		23:32.20 GUS LANGNER	USA 1998	2:51.53 BERT SINGER	USA 2010
8:12.94 THOMAS MAINE	USA 2010	25:36.41 EUGENE LEHMAN	CAN 2004	200 M. BRST	
8:32.50 FRANK PIEMME	USA 2010	26:55.55 ROMAN JEZEK	CAN 2004	4:59.71 HIROMU YOSHIMOTO	JPN 2005
9:32.65 WALT PFEIFFER	USA 1998	1500 M. FREE		5:32.73 GEORGE CORONES	AUS 2009
9:36.09 ANDREW HOLDEN	USA 2004	35:20.36 AUSTIN NEWMAN	USA 2005	5:35.74 MASAHISA KANEKO	JPN 2003
9:48.58 JURGEN SCHMIDT	USA 2008	38:17.40 NILS FERM	SWE 2007	5:44.96 RUSS WITTE	USA 2008
10:13.47 DON LEADER	GBR 2009	38:53.33 HUGH MCGREGOR	CAN 2009	5:58.17 WALT PFEIFFER	USA 2003
10:26.11 HIRONARI UEDA	JPN 2006	39:33.78 WOODY BOWERSOCK	USA 2004	6:04.27 BUD JACKSON	USA 2010
10:47.13 HERB EISENSCHMIDT	USA 1991	40:43.49 JOHN HARRISON	GBR 2004	6:05.47 FRED SCHULHOF	CAN 2009
11:07.74 WILLIAM JOHNSTON	USA 2003	42:51.20 JOHN BRICE	AUS 2009	6:06.92 ROMAN JEZEK	CAN 2004
11:48.29 TOM MC CALL	USA 2007	44:48.99 GUS LANGNER	USA 1996	6:11.93 ALDO CAPUTI	ITA 2005
*****		47:19.71 EUGENE LEHMAN	CAN 2004	6:22.73 JIM PANTON	CAN 2004
M E N 90-94		51:43.20 PAUL E. SPANGLER	USA 1990	50 M. FLY	
*****		50 M. BACK		56.09 WALT PFEIFFER	USA 2003
50 M. FREE		52.49 GORO KOBAYASHI	JPN 2008	1:00.50 HEINZ JAHR	GER 1997
41.07 WOODY BOWERSOCK	USA 2003	53.24 R.REINSTADTLER	GER 2002	1:07.00 ALDO CAPUTI	ITA 2005
42.60 GORO KOBAYASHI	JPN 2006	53.32 TOSHIJI SATO	JPN 2005	1:08.25 R.REINSTADTLER	GER 2002
		55.25 JOHN MERRILL	USA 2007	1:09.41 HEINZ SIEGEL	GER 2004



FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2010)

1:22.46 NORI YAMAMOTO	JPN 1999	9:40.12 JEAN STORZ	FRA 2009	*****
1:25.02 JOHN HARRISON	GBR 2004	400 M. FREE		M E N 100-104
1:29.42 JIM PENFIELD	USA 1998	10:51.93 GUS LANGNER	USA 1998	*****
1:38.44 ROMAN JEZEK	CAN 2004	12:24.23 JOHN HARRISON	GBR 2009	50 M. FREE
1:40.91 EUGENE LEHMAN	CAN 2004	16:31.48 EUGENE LEHMAN	CAN 2008	1:16.92 JARING TIMMERMAN
100 M. FLY		800 M. FREE		CAN 2009
2:21.82 WALT PFEIFFER	USA 2003	22:05.55 GUS LANGNER	USA 1998	2:06.66 TOM LANE
2:41.14 ALDO CAPUTI	ITA 2005	32:46.93 EUGENE LEHMAN	CAN 2008	USA 1995
4:25.80 EUGENE LEHMAN	CAN 2003	1500 M. FREE		2:07.41 HANS HAHN
4:50.20 BILL REEDER	USA 2001	41:29.87 GUS LANGNER	USA 1998	GER 2008
200 M. FLY		50 M. BACK		100 M. FREE
5:37.23 WALT PFEIFFER	USA 2003	1:01.25 KAZUNAGA AKUTSU	JPN 2007	3:02.22 JARING TIMMERMAN
9:14.77 EUGENE LEHMAN	CAN 2003	1:10.42 NORI YAMAMOTO	JPN 2004	CAN 2009
100 M. I.M.		1:12.83 JEAN LEEMPUT	FRA 2010	4:32.29 TOM LANE
2:08.86 TOKUSHI KOMEDA	JPN 2004	1:13.45 JOHN HARRISON	GBR 2009	USA 1995
2:14.23 WALT PFEIFFER	USA 2003	1:21.47 R.REINSTADTLER	GER 2007	2:09.37 HANS HAHN
2:16.77 R.REINSTADTLER	GER 2002	1:25.49 JARING TIMMERMAN	CAN 2004	GER 2008
2:18.93 ALDO CAPUTI	ITA 2005	1:25.89 ALDO CAPUTI	ITA 2010	4:17.99 NOBUO OTSUKI
2:24.64 HEINZ SIEGEL	GER 2004	1:26.50 ROMAN JEZEK	CAN 2009	JPN 2007
2:28.50 WOODY BOWERSOCK	USA 2003	1:27.67 GUS LANGNER	USA 1998	100 M. BACK
2:32.79 NORI YAMAMOTO	JPN 2000	1:32.01 MARTIN SCHMIDT	GER 2008	3:51.54 JARING TIMMERMAN
2:41.51 RUSS WITTE	USA 2008	100 M. BACK		CAN 2009
2:49.39 JOHN HARRISON	GBR 2004	2:21.73 TOSHIJI SATO	JPN 2010	5:01.82 HANS HAHN
3:00.53 GUS LANGNER	USA 1994	2:23.12 KAZUNAGA AKUTSU	JPN 2007	GER 2008
200 M. I.M.		2:43.41 JEAN LEEMPUT	FRA 2010	
5:13.24 WALT PFEIFFER	USA 2003	2:46.68 JOHN HARRISON	GBR 2009	
6:10.00 JOHN HARRISON	GBR 2004	3:05.23 NORI YAMAMOTO	JPN 2005	
7:18.74 ROMAN JEZEK	CAN 2004	3:21.49 ROMAN JEZEK	CAN 2009	
7:32.22 EUGENE LEHMAN	CAN 2004	3:38.07 GUS LANGNER	USA 1998	
8:43.21 BILL REEDER	USA 2001	3:39.44 RYUZO KADONO	JPN 2010	
400 M. I.M.		3:59.38 ALFREDO CHERCHI	AUS 2002	
11:15.65 WALT PFEIFFER	USA 2003	4:00.58 HANS HAHN	GER 2004	
15:45.53 EUGENE LEHMAN	CAN 2003	200 M. BACK		
17:59.19 BILL REEDER	USA 2000	6:18.51 JOHN HARRISON	GBR 2009	
*****		7:01.87 ALFREDO CHERCHI	AUS 2002	
M E N 95-99		8:32.34 GUS LANGNER	USA 1998	
*****		9:31.21 BILL REEDER	USA 2005	
50 M. FREE		50 M. BRST		
55.08 KAZUNAGA AKUTSU	JPN 2007	1:07.12 HIROMU YOSHIMOTO	JPN 2010	
57.57 GUS LANGNER	USA 1998	1:22.80 KAZUNAGA AKUTSU	JPN 2007	
1:00.40 R.REINSTADTLER	GER 2007	1:31.50 ROMAN JEZEK	CAN 2009	
1:01.65 GERSON SOBEL	USA 2005	1:31.60 GUS LANGNER	USA 1998	
1:02.43 MASAO UEDA	JPN 2007	1:34.02 ALDO CAPUTI	ITA 2010	
1:06.95 JARING TIMMERMAN	CAN 2004	1:47.18 MARTIN SCHMIDT	GER 2007	
1:10.32 ALFREDO CHERCHI	AUS 2002	2:58.58 EUGENE LEHMAN	CAN 2008	
1:12.53 JOHN HARRISON	GBR 2009	3:07.96 BILL REEDER	USA 2005	
1:16.34 ROMAN JEZEK	CAN 2009	100 M. BRST		
1:16.91 JEAN LEEMPUT	FRA 2010	2:31.77 HIROMU YOSHIMOTO	JPN 2010	
100 M. FREE		3:24.92 ROMAN JEZEK	CAN 2009	
2:09.32 KAZUNAGA AKUTSU	JPN 2007	3:35.33 GUS LANGNER	USA 1998	
2:19.51 GUS LANGNER	USA 1998	200 M. BRST		
2:31.62 JARING TIMMERMAN	CAN 2004	5:45.70 HIROMU YOSHIMOTO	JPN 2010	
2:43.76 JOHN HARRISON	GBR 2009	7:29.31 GUS LANGNER	USA 1998	
2:49.91 JEAN LEEMPUT	FRA 2010	8:00.06 ROMAN JEZEK	CAN 2009	
3:06.54 R.REINSTADTLER	GER 2007	50 M. FLY		
3:21.49 ROMAN JEZEK	CAN 2009	1:35.76 ALDO CAPUTI	ITA 2010	
4:05.43 EUGENE LEHMAN	CAN 2008	3:02.06 EUGENE LEHMAN	CAN 2008	
4:35.89 JEAN STORZ	FRA 2009	100 M. FLY		
4:49.19 DONALD POPE	USA 2010	6:04.41 WALTER PFEIFFER	USA 2008	
200 M. FREE		100 M. I.M.		
5:13.46 GUS LANGNER	USA 1998	3:33.98 GUS LANGNER	USA 1998	
5:42.47 ALFREDO CHERCHI	AUS 2002	5:45.94 BILL REEDER	USA 2005	
5:55.45 JOHN HARRISON	GBR 2009	200 M. I.M.		
6:25.40 JEAN LEEMPUT	FRA 2010	9:50.55 WALTER PFEIFFER	USA 2008	
8:00.06 ROMAN JEZEK	CAN 2009	400 M. I.M.		
8:12.83 EUGENE LEHMAN	CAN 2008	21:03.17 WALTER PFEIFFER	USA 2008	