

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                          |          |  |                           |          |                           |          |
|--------------------------|----------|--|---------------------------|----------|---------------------------|----------|
| *****                    |          |  | 17:42.32 B. DURDY-EVANS   | USA 1988 | 27.88 NADINE ROLLAND      | CAN 2004 |
| WOMEN 25-29              |          |  | 50 M. BACK                |          | 28.11 AIMEE RAMM          | GBR 2007 |
| *****                    |          |  | 29.20 AKIKO MIZUMOTO      | JPN 2006 | 28.16 SOPHIA SKOU         | DEN 2004 |
| 50 M. FREE               |          |  | 29.60 EMILIE JORON        | FRA 2006 | 28.35 ALEXA WHITE         | GBR 2004 |
| 25.42 SUMIKA KOMATSU     | JPN 2006 |  | 29.90 MICHELA VIGNOTTO    | ITA 1999 | 28.42 M.VAN DEN BRAND     | NED 2006 |
| 26.07 SANDRA KAZIKOVA    | CZE 2003 |  | 30.04 KANA OHASHI         | JPN 2003 | 28.61 JENNIFER BROOKS     | USA 2003 |
| 26.13 NADINE ROLLAND     | CAN 2004 |  | 30.05 CAMILLA JOHANSSON   | USA 2002 | 28.63 MABI TSUKIOKA       | JPN 2007 |
| 26.16 ALISON TERRY       | USA 1999 |  | 30.07 M KRIEL             | RSA 1999 | 28.68 SHEILA TAORMINA     | USA 1996 |
| 26.18 SOPHIA SKOU        | DEN 2002 |  | 30.11 LIA OBERSTAR        | USA 2001 | 28.74 ALFONSI IRAE        | ITA 2004 |
| 26.19 LISA ANDERSSON     | SWE 2007 |  | 30.20 FABIOLA MOLINA      | BRA 2002 | 28.78 SARAH HEALEY        | GBR 2007 |
| 26.25 CELINE BAILLOD     | SUI 2007 |  | 30.22 NAHOMI ERIGUCHI     | AUS 2004 | 100 M. FLY                |          |
| 26.34 MIHO OKUHARA       | JPN 2003 |  | 30.29 NAOMI ARAKAWA       | JPN 2007 | 1:01.33 SHEILA TAORMINA   | USA 1996 |
| 26.53 SANDRA THIEME      | GER 2006 |  | 100 M. BACK               |          | 1:01.46 HITOMI MATSUDA    | JPN 2005 |
| 26.53 BECKY BICKNELL     | USA 2002 |  | 1:02.32 AKIKO MIZUMOTO    | JPN 2007 | 1:01.97 SOPHIA SKOU       | DEN 2004 |
| 100 M. FREE              |          |  | 1:02.48 KANA OHASHI       | JPN 2007 | 1:02.46 SARAH HEALEY      | GBR 2007 |
| 56.30 SHEILA TAORMINA    | USA 1996 |  | 1:03.26 CAMILLA JOHANSSON | USA 2002 | 1:03.36 AIMEE RAMM        | GBR 2007 |
| 56.96 HITOMI MATSUDA     | JPN 2005 |  | 1:03.33 LIA OBERSTAR      | USA 2001 | 1:03.44 BERIT PUGGAARD    | DEN 1998 |
| 56.98 AIMEE RAMM         | GBR 2007 |  | 1:03.43 EMILIE JORON      | FRA 2006 | 1:04.10 ALEXA WHITE       | GBR 2004 |
| 57.09 CELINE BAILLOD     | SUI 2007 |  | 1:03.77 MARION ZOLLER     | GER 1995 | 1:04.29 MUTSUMI TASHIRO   | JPN 2006 |
| 57.10 ALISON TERRY       | USA 1999 |  | 1:03.87 GISELE PEREIRA    | BRA 2001 | 1:04.32 M.VAN DEN BRAND   | NED 2006 |
| 57.47 BERIT PUGGAARD     | DEN 1998 |  | 1:04.05 M KRIEL           | RSA 1999 | 1:04.60 CHRISSE MILLER    | USA 2002 |
| 57.65 TARA HUTT          | GBR 2004 |  | 1:04.50 BERIT PUGGAARD    | DEN 1997 | 200 M. FLY                |          |
| 57.72 SANDRA KAZIKOVA    | CZE 2003 |  | 1:04.66 DIANE GRANER      | USA 1989 | 2:17.13 S. PALMER-WHITE   | AUS 1991 |
| 57.92 DYNE BURRELL       | USA 1996 |  | 200 M. BACK               |          | 2:17.19 HITOMI MATSUDA    | JPN 2006 |
| 58.34 PAULA AGUIAR       | BRA 2002 |  | 2:12.84 KANA OHASHI       | JPN 2005 | 2:19.30 SANDRA TEMMERMAN  | NED 2005 |
| 200 M. FREE              |          |  | 2:14.77 LIA OBERSTAR      | USA 2001 | 2:20.82 BARBARA KEHBEIN   | GER 1997 |
| 1:59.78 SHEILA TAORMINA  | USA 1996 |  | 2:16.45 MARION ZOLLER     | GER 1995 | 2:21.46 LIA OBERSTAR      | USA 2004 |
| 2:02.50 TATIANA BARBOSA  | BRA 2007 |  | 2:17.86 JOLANDA DE ROVER  | NED 1992 | 2:22.33 ELVIRA JONKERS    | NED 2005 |
| 2:04.59 HITOMI MATSUDA   | JPN 2005 |  | 2:18.65 CAMILLA JOHANSSON | USA 2002 | 2:23.30 JACKIE THOMPSON   | GBR 1994 |
| 2:05.67 CELINE BAILLOD   | SUI 2007 |  | 2:19.05 PAMELA HANSON     | USA 2004 | 2:23.60 CHRISSE MILLER    | USA 2002 |
| 2:05.80 REBECCA WILLIAMS | NZL 1990 |  | 2:20.12 BIRGIT DEURING    | GER 1996 | 2:23.60 BEATE SCHOLTYSSKE | GER 1995 |
| 2:06.08 BARBARA KEHBEIN  | GER 1998 |  | 2:20.66 DIANE GRANER      | USA 1989 | 2:24.19 MICHELLE BINGHAM  | GBR 1998 |
| 2:06.20 HEIDI HANNENIAN  | USA 1997 |  | 2:20.67 GISELE PEREIRA    | BRA 1998 | 100 M. I.M.               |          |
| 2:06.28 TARA HUTT        | GBR 2005 |  | 2:20.71 SARAH LAMBERT     | GBR 2006 | 1:03.67 HITOMI MATSUDA    | JPN 2005 |
| 2:06.36 FLAVIA RIGAMONTI | USA 2007 |  | 50 M. BRST                |          | 1:04.77 NADINE ROLLAND    | CAN 2004 |
| 2:06.47 DIANE GRANER     | USA 1989 |  | 32.20 TRACEY MIRANDE      | USA 1995 | 1:05.25 CELINE BAILLOD    | SUI 2007 |
| 400 M. FREE              |          |  | 32.25 CELINE BAILLOD      | SUI 2007 | 1:05.67 WENKE HANSEN      | USA 1998 |
| 4:17.77 FLAVIA RIGAMONTI | USA 2007 |  | 32.76 HITOMI MATSUDA      | JPN 2006 | 1:06.00 MANUELA NACKEL    | GER 1999 |
| 4:24.18 SHEILA TAORMINA  | USA 1996 |  | 32.80 RILEY WEST          | CAN 2004 | 1:06.18 KANA OHASHI       | JPN 2003 |
| 4:25.94 LYNN MARSHALL    | CAN 1990 |  | 33.50 RIA WILLEMSE        | NED 1989 | 1:06.24 SANDRA KAZIKOVA   | CZE 2003 |
| 4:26.18 DIANE GRANER     | USA 1989 |  | 33.70 TAMARA VAN GORKOM   | NED 2004 | 1:06.43 AIMEE RAMM        | GBR 2007 |
| 4:26.56 CHANTAL DUCK     | BEL 1993 |  | 33.70 S.SEMINATORE        | ITA 1990 | 1:06.73 RILEY WEST        | CAN 2004 |
| 4:27.54 REBECCA WILLIAMS | NZL 1990 |  | 33.73 ANA GOMES           | BRA 2007 | 1:06.76 CHRIS WIEGAND     | GER 2000 |
| 4:27.87 BARBARA KEHBEIN  | GER 1995 |  | 33.73 HENRIETTE LARSEN    | DEN 2002 | 200 M. I.M.               |          |
| 4:28.01 CINDY BERTELINK  | CAN 2004 |  | 33.86 WENKE HANSEN        | USA 1998 | 2:17.17 HITOMI MATSUDA    | JPN 2006 |
| 4:28.06 TARA HUTT        | GBR 2005 |  | 100 M. BRST               |          | 2:19.48 CELINE BAILLOD    | SUI 2007 |
| 4:29.10 S. PALMER-WHITE  | AUS 1991 |  | 1:10.55 HITOMI MATSUDA    | JPN 2005 | 2:21.79 WENKE HANSEN      | USA 1998 |
| 800 M. FREE              |          |  | 1:10.71 MANUELA NACKEL    | GER 1998 | 2:22.00 KANA OHASHI       | JPN 2007 |
| 8:51.18 SHEILA TAORMINA  | USA 1996 |  | 1:11.00 CELINE BAILLOD    | SUI 2007 | 2:22.81 CINDY BERTELINK   | CAN 2003 |
| 8:57.39 HITOMI MATSUDA   | JPN 2006 |  | 1:11.80 RILEY WEST        | CAN 2004 | 2:23.00 ALISON TERRY      | USA 1999 |
| 9:00.84 PAULA WOOD       | GBR 2007 |  | 1:13.26 SILVA PULFRICH    | GER 2003 | 2:23.17 MARION ZOLLER     | GER 1995 |
| 9:07.19 S. PALMER-WHITE  | AUS 1991 |  | 1:13.30 WENKE HANSEN      | USA 1998 | 2:23.40 KATARIN QUELENNEC | FRA 2005 |
| 9:08.09 MARIE ATKINSON   | GBR 2001 |  | 1:13.45 KATJA BRASCHOS    | GER 2007 | 2:23.47 BIRGIT DEURING    | GER 1996 |
| 9:12.32 LYNN MARSHALL    | CAN 1991 |  | 1:13.57 ANDREA PACKARD    | USA 2001 | 2:24.07 DIANE GRANER      | USA 1989 |
| 9:17.98 M.VAN KEULEN     | NED 2005 |  | 1:13.60 RIA WILLEMSE      | NED 1989 | 400 M. I.M.               |          |
| 9:18.99 DIANE M. GRANER  | USA 1990 |  | 1:13.73 ANA GOMES         | BRA 2007 | 4:52.13 HITOMI MATSUDA    | JPN 2006 |
| 9:19.05 TOBIE SMITH      | USA 1999 |  | 200 M. BRST               |          | 4:55.85 KANA OHASHI       | JPN 2006 |
| 9:19.73 ASHLEY WHITNEY   | USA 2005 |  | 2:31.18 HITOMI MATSUDA    | JPN 2006 | 4:56.98 ALESSANDRA CORTES | BRA 1999 |
| 1500 M. FREE             |          |  | 2:32.73 RILEY WEST        | CAN 2004 | 5:01.26 HELEN SLATTER     | GBR 1997 |
| 16:36.07 SHEILA TAORMINA | USA 1996 |  | 2:35.66 ANDREA PACKARD    | USA 2001 | 5:02.47 CINDY BERTELINK   | CAN 2004 |
| 17:00.63 HITOMI MATSUDA  | JPN 2006 |  | 2:36.60 KATIE HENDERSON   | GBR 2007 | 5:02.54 WENKE HANSEN      | USA 1998 |
| 17:24.96 PAULA WOOD      | GBR 2007 |  | 2:36.82 KATJA BRASCHOS    | GER 2007 | 5:04.56 SABINE AHR        | GER 1999 |
| 17:29.81 CHANTAL DUCK    | BEL 1993 |  | 2:37.16 NATHALIE ELORRIET | FRA 2000 | 5:04.56 BIRGIT DEURING    | GER 1996 |
| 17:30.18 KAREN BURTON    | USA 1991 |  | 2:37.35 HELEN GORMAN      | GBR 1998 | 5:06.61 AYANE SATO        | JPN 2007 |
| 17:36.04 DIANE M. GRANER | USA 1990 |  | 2:39.03 ANDREA HILL       | USA 2000 | 5:07.14 S. PALMER-WHITE   | AUS 1991 |
| 17:36.61 LYNN MARSHALL   | CAN 1990 |  | 2:39.62 WENKE HANSEN      | USA 1998 | *****                     |          |
| 17:37.48 MARIA ATKINSON  | GBR 2001 |  | 2:40.08 MANUELA NACKEL    | GER 1999 | WOMEN 30-34               |          |
| 17:38.57 S. PALMERWHITE  | AUS 1990 |  | 50 M. FLY                 |          |                           |          |

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|              |                   |          |
|--------------|-------------------|----------|
| 50 M. FREE   |                   |          |
| 25.64        | METTE JACOBSEN    | DEN 2006 |
| 25.98        | KATRINA RADKE     | USA 2004 |
| 26.09        | NADINE ROLLAND    | CAN 2006 |
| 26.20        | SANDRA KAZIKOVA   | CZE 2006 |
| 26.46        | ANNA PETTIS-SCOTT | USA 1993 |
| 26.50        | SUSAN HILL        | GBR 2003 |
| 26.51        | KATJA TROSIEN     | GER 2007 |
| 26.53        | JANET MAYVILLE    | CAN 2006 |
| 26.55        | SANDY NEILSON     | USA 1987 |
| 26.70        | LINDA HEMMLING    | GER 1994 |
| 100 M. FREE  |                   |          |
| 56.41        | METTE JACOBSEN    | DEN 2006 |
| 56.48        | PASCALE VERBAUWEN | BEL 1993 |
| 57.33        | JANET MAYVILLE    | CAN 2006 |
| 57.35        | S.NEILSON-BELL    | USA 1988 |
| 57.46        | KATRINA RADKE     | USA 2003 |
| 57.83        | TAMARA VAN GORKOM | NED 2005 |
| 58.06        | HITOMI MATSUDA    | JPN 2007 |
| 58.07        | K PIPES-NEILSEN   | USA 1996 |
| 58.26        | KATJA TROSIEN     | GER 2007 |
| 58.49        | ANA GRILO         | POR 2003 |
| 200 M. FREE  |                   |          |
| 2:04.09      | HITOMI MATSUDA    | JPN 2007 |
| 2:04.64      | K PIPES-NEILSEN   | USA 1996 |
| 2:04.98      | LYNN MARSHALL     | CAN 1991 |
| 2:05.94      | BARBARA KEHBEIN   | GER 2000 |
| 2:06.64      | KARIN SEICK       | GER 1994 |
| 2:06.83      | SANDY NEILSON     | USA 1987 |
| 2:06.94      | ANA GRILO         | POR 2003 |
| 2:06.96      | TAMARA VAN GORKOM | NED 2005 |
| 2:07.24      | KATRINA RADKE     | USA 2003 |
| 2:07.46      | KATJA TROSIEN     | GER 2007 |
| 400 M. FREE  |                   |          |
| 4:22.37      | HITOMI MATSUDA    | JPN 2007 |
| 4:22.70      | K PIPES-NEILSEN   | USA 1996 |
| 4:22.75      | YWETTA HLAVACOVA  | CZE 2006 |
| 4:22.77      | ERIKA HANSEN      | USA 2003 |
| 4:25.56      | KIRSTEN CAMERON   | NZL 2007 |
| 4:26.91      | LYNN MARSHALL     | CAN 1991 |
| 4:27.23      | ANA GRILO         | POR 2002 |
| 4:29.49      | VALERIA VERGANI   | ITA 2005 |
| 4:30.16      | ASA NEIJ          | SWE 2006 |
| 4:30.98      | CINDY BERTELINK   | CAN 2005 |
| 800 M. FREE  |                   |          |
| 9:01.21      | KIRSTEN CAMERON   | NZL 2007 |
| 9:06.49      | ERIKA HANSEN      | USA 2003 |
| 9:08.32      | LYNN MARSHALL     | CAN 1993 |
| 9:08.34      | K.PIPES-NEILSEN   | USA 1996 |
| 9:14.03      | ASA NEIJ          | SWE 2004 |
| 9:17.55      | BETH KNIGHT       | USA 1990 |
| 9:22.24      | PENNY BOND        | AUS 1996 |
| 9:22.65      | JOANNE REIERSON   | USA 2003 |
| 9:23.38      | ANA GRILO         | POR 2002 |
| 9:23.74      | VALERIE CARION    | FRA 2002 |
| 1500 M. FREE |                   |          |
| 17:01.56     | 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 |
| 17:51.25     | LISA HAZEN        | USA 1995 |
| 17:55.18     | DARCY MUSSELMAN   | CAN 2001 |
| 17:58.96     | LAURIE HUG        | USA 1999 |
| 18:03.95     | DONNA JOHNSON     | USA 1997 |
| 50 M. BACK   |                   |          |

|             |                   |          |
|-------------|-------------------|----------|
| 28.99       | METTE JACOBSEN    | DEN 2006 |
| 29.44       | NADINE ROLLAND    | CAN 2005 |
| 30.08       | NAHOMI SHIRATA    | JPN 2006 |
| 30.11       | GISELI PEREIRA    | BRA 2003 |
| 30.14       | D.GRANER-GALLAS   | USA 1996 |
| 30.36       | ANDREA KUTZ       | GER 2005 |
| 30.41       | K PIPES-NEILSEN   | USA 1996 |
| 30.51       | SHERI HART        | USA 2003 |
| 30.53       | R.MARACINEANU     | FRA 2005 |
| 30.94       | HELEN JAMESON     | GBR 1994 |
| 100 M. BACK |                   |          |
| 1:02.88     | METTE JACOBSEN    | DEN 2006 |
| 1:03.36     | K.PIPES-NEILSEN   | USA 1996 |
| 1:04.03     | J HUDGELL         | NZL 1986 |
| 1:04.16     | D.GRANER-GALLAS   | USA 1996 |
| 1:04.30     | CAMILLA JOHANSSON | SWE 2004 |
| 1:05.02     | GISELI PEREIRA    | BRA 2003 |
| 1:05.24     | NAHOMI SHIRATA    | JPN 2006 |
| 1:05.68     | JOANNA CORBEN     | GBR 2002 |
| 1:05.71     | SHERI HART        | USA 2003 |
| 1:06.09     | NADINE ROLLAND    | CAN 2007 |
| 200 M. BACK |                   |          |
| 2:13.51     | K.PIPES-NEILSEN   | USA 1996 |
| 2:18.19     | JOANNA CORBEN     | GBR 2002 |
| 2:19.60     | D.GRANER-GALLAS   | USA 1996 |
| 2:19.66     | JO SWATTON        | GBR 2000 |
| 2:24.11     | K.WULFF-HOPPE     | GER 2002 |
| 2:24.89     | JODY SMITH        | USA 2003 |
| 2:25.19     | ANJA EICHHORST    | GER 2001 |
| 2:25.31     | KARIN SEICK       | GER 1994 |
| 2:25.88     | ANA GRILO         | POR 2003 |
| 2:26.00     | MASAMI HIGURASHI  | JPN 1994 |
| 50 M. BRST  |                   |          |
| 31.12       | BRITTA STEVENS    | GER 2003 |
| 32.82       | WENKE HANSEN      | USA 2000 |
| 32.93       | HITOMI MATSUDA    | JPN 2007 |
| 33.13       | SUKI BROWNSDON    | GBR 1995 |
| 33.74       | DAGMAR HILBIG     | GER 1992 |
| 34.37       | NADINE ROLLAND    | CAN 2007 |
| 34.51       | A.SACCHIERO       | ITA 2005 |
| 34.51       | SIOBHAN HARTLEY   | GBR 2000 |
| 34.57       | TARA HIGGINS      | CAN 2003 |
| 34.60       | MONICA CORO       | ITA 1993 |
| 100 M. BRST |                   |          |
| 1:10.00     | WENKE HANSEN      | USA 2000 |
| 1:10.22     | HITOMI MATSUDA    | JPN 2007 |
| 1:11.81     | SUKI BROWNSDON    | GBR 1995 |
| 1:12.80     | SYLVIA GERASCH    | GER 2000 |
| 1:14.28     | ALEGRA REICH      | USA 2007 |
| 1:14.31     | KAREN JACKSON     | GBR 2004 |
| 1:14.69     | DAGMAR HILBIG     | GER 1992 |
| 1:15.40     | ERIKA KIMURA      | JPN 1992 |
| 1:15.44     | ANNA JENSEN       | SWE 2006 |
| 1:15.52     | NADINE DAY        | USA 2002 |
| 200 M. BRST |                   |          |
| 2:30.65     | WENKE HANSEN      | USA 2000 |
| 2:31.63     | HITOMI MATSUDA    | JPN 2007 |
| 2:39.65     | SYLVIA GERASCH    | GER 2000 |
| 2:40.08     | SUKI BROWNSDON    | GBR 1997 |
| 2:40.61     | CAROLINE MATHIAS  | FRA 2006 |
| 2:41.63     | KAREN JACKSON     | GBR 2004 |
| 2:42.39     | HIDEKA KOSHIMIZU  | JPN 1998 |
| 2:42.59     | LOUISE MARTIN     | USA 2003 |
| 2:43.56     | MARJORIE DISTEL   | FRA 2007 |
| 2:43.58     | SARAH HACKETT     | NZL 2005 |
| 50 M. FLY   |                   |          |
| 26.79       | MARTINA MORAVCOVA | USA 2006 |
| 27.81       | METTE JACOBSEN    | DEN 2006 |

|             |                   |          |
|-------------|-------------------|----------|
| 27.98       | NADINE ROLLAND    | CAN 2005 |
| 28.05       | KATRINA RADKE     | USA 2004 |
| 28.34       | WENKE HANSEN      | USA 2000 |
| 28.63       | HELENA ABERG      | SWE 2005 |
| 28.72       | YUKI WAKUI        | JPN 2004 |
| 28.95       | LAURA BIANZANI    | ITA 2006 |
| 29.04       | ANNA LOHMANN      | SWE 2007 |
| 29.13       | THERESE LUNDIN    | SWE 2000 |
| 100 M. FLY  |                   |          |
| 59.11       | MARTINA MORAVCOVA | USA 2006 |
| 1:00.11     | METTE JACOBSEN    | DEN 2006 |
| 1:02.39     | NADINE ROLLAND    | CAN 2005 |
| 1:02.65     | BERIT PUGGAARD    | DEN 2004 |
| 1:02.70     | WENKE HANSEN      | USA 2000 |
| 1:03.04     | ANJA BEHA         | GER 2005 |
| 1:03.21     | KATRINA RADKE     | USA 2003 |
| 1:03.34     | LAURA BIANZANI    | ITA 2006 |
| 1:03.74     | FLORENCE CIOTTI   | ITA 2006 |
| 1:03.80     | K PIPES-NEILSEN   | USA 1996 |
| 200 M. FLY  |                   |          |
| 2:19.34     | LAURA BIANZANI    | ITA 2004 |
| 2:19.34     | KATRINA RADKE     | USA 2003 |
| 2:19.64     | K PIPES-NEILSEN   | USA 1996 |
| 2:21.21     | FLORENCE CIOTTI   | ITA 2006 |
| 2:24.17     | KATE VEALE        | GBR 2000 |
| 2:24.52     | MELISSA VARLAS    | USA 2005 |
| 2:24.75     | SANDIE EASTON     | USA 2001 |
| 2:24.84     | NICOLA LATTY      | GBR 2005 |
| 2:24.84     | LIDIA VAN BON     | NED 2002 |
| 2:24.91     | NADINE DAY        | USA 2004 |
| 100 M. I.M. |                   |          |
| 1:02.07     | MARTINA MORAVCOVA | USA 2006 |
| 1:03.55     | HITOMI MATSUDA    | JPN 2007 |
| 1:04.44     | NADINE ROLLAND    | CAN 2005 |
| 1:04.96     | WENKE HANSEN      | USA 1999 |
| 1:05.10     | SYLVIA GERASCH    | GER 2000 |
| 1:05.16     | K.PIPES-NEILSEN   | USA 1995 |
| 1:05.58     | HIDEKO HIRANAKA   | JPN 2004 |
| 1:06.40     | SUKI BROWNSDON    | GBR 1995 |
| 1:06.94     | NADINE DAY        | USA 2003 |
| 1:07.02     | SARAH GARRETT     | GBR 1996 |
| 200 M. I.M. |                   |          |
| 2:16.83     | HITOMI MATSUDA    | JPN 2007 |
| 2:18.79     | K.PIPES-NEILSEN   | USA 1996 |
| 2:18.89     | WENKE HANSEN      | USA 2000 |
| 2:22.72     | KATRINA RADKE     | USA 2003 |
| 2:23.49     | CINDY BERTELINK   | CAN 2005 |
| 2:23.88     | NADINE DAY        | USA 2003 |
| 2:24.30     | KATE VEALE        | GBR 2000 |
| 2:24.96     | DAWN HEWITT       | USA 1997 |
| 2:25.31     | HIDEKA KOSHIMIZU  | JPN 1998 |
| 2:25.74     | MARJORIE DISTEL   | FRA 2007 |
| 2:25.74     | DEBBIE YOUNGER    | CAN 2003 |
| 400 M. I.M. |                   |          |
| 4:51.33     | HIDEKO HIRANAKA   | JPN 2004 |
| 4:52.30     | HITOMI MATSUDA    | JPN 2007 |
| 4:53.85     | K PIPES-NEILSEN   | USA 1996 |
| 5:04.56     | BARBARA KEHBEIN   | GER 2000 |
| 5:06.05     | SUKI BROWNSDON    | GBR 1997 |
| 5:07.39     | NADINE DAY        | USA 2002 |
| 5:07.66     | ANA GRILO         | POR 2003 |
| 5:08.14     | CORNELIA BLEUL    | GER 1996 |
| 5:08.64     | KATE VEALE        | GBR 2000 |
| 5:09.02     | CINDY BERTELINK   | CAN 2005 |

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## WOMEN 35-39

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|                            |          |                           |          |                          |          |
|----------------------------|----------|---------------------------|----------|--------------------------|----------|
| 50 M. FREE                 |          | 30.73 K PIPES-NEILSEN     | USA 1999 | 29.09 DEBBIE YOUNGER     | CAN 2005 |
| 25.10 DARA TORRES          | USA 2006 | 30.92 MARIKA MC CUE       | USA 2002 | 29.31 SILVIA PAROCCHI    | ITA 2005 |
| 26.13 S.NEILSON-BELL       | USA 1995 | 31.03 HELEN JAMESON       | GBR 1998 | 29.50 NADINE DAY         | USA 2005 |
| 26.63 HELENA ABERG         | SWE 2007 | 31.18 CINDY MABEE         | CAN 2007 | 29.51 LYNNE HAYES        | AUS 2007 |
| 26.78 FALL WILLEBOORDSE    | USA 2002 | 31.24 MARIANNE KRIEL      | RSA 2006 | 29.51 YOKO YAMAGUCHI     | JPN 2006 |
| 26.99 MARIE ARMENTERO      | ITA 2003 | 31.35 FALL WILLEBOORDSE   | USA 2002 | 29.54 D GRANER GALLAS    | USA 1999 |
| 27.03 MARIKA JOHANSSON     | SWE 2005 | 31.47 MONICA SORO         | ITA 2005 | 29.69 BETH BAKER         | USA 2000 |
| 27.10 YUKIKO OZAWA         | JPN 2003 | 31.65 SANDRA MICHELINI    | ITA 2006 | 100 M. FLY               |          |
| 27.15 COLLETTE SAPPEY      | USA 2002 | 31.80 SILVIA PAROCCHI     | ITA 2005 | 1:03.07 DEBBIE YOUNGER   | CAN 2005 |
| 27.15 TRACIE MOLL          | USA 2001 | 100 M. BACK               |          | 1:03.29 K PIPES-NEILSEN  | USA 1997 |
| 27.17 BETH BAKER           | USA 2000 | 1:03.56 K PIPES-NEILSEN   | USA 1997 | 1:04.33 TRACIE MOLL      | USA 2001 |
| 100 M. FREE                |          | 1:05.93 KARIN SEICK       | GER 1996 | 1:04.62 DEBORAH YOUNGER  | JPN 2006 |
| 54.95 DARA TORRES          | USA 2006 | 1:05.94 D GRANER GALLAS   | USA 1999 | 1:04.64 LYNNE HAYES      | AUS 2007 |
| 57.65 K PIPES-NEILSEN      | USA 2000 | 1:06.02 JOANNA CORBEN     | GBR 2005 | 1:05.31 BETH BAKER       | USA 2000 |
| 57.79 KARIN SEICK          | GER 1996 | 1:06.64 CINDY MABEE       | CAN 2007 | 1:05.40 MELANIA BUSSIÈRE | CAN 2007 |
| 58.57 MANUELA SCHUBERT     | GER 2006 | 1:06.78 GISELI PEREIRA    | BRA 2007 | 1:05.49 NADINE DAY       | USA 2005 |
| 58.62 S.NEILSON-BELL       | USA 1995 | 1:07.24 SILVIA PAROCCHI   | ITA 2004 | 1:05.61 LAUREEN WELTING  | USA 2000 |
| 58.66 BETH KNIGHT          | USA 1994 | 1:07.76 ANDREA LUALLÉN    | USA 2002 | 1:05.83 JILL HERNANDEZ   | USA 1999 |
| 58.79 JILL HERNANDEZ       | USA 1999 | 1:07.87 HELEN JAMESON     | GBR 1998 | 200 M. FLY               |          |
| 58.80 TRACIE MOLL          | USA 2001 | 1:08.14 MARIKA MC CUE     | USA 2001 | 2:18.41 K PIPES-NEILSEN  | USA 1997 |
| 59.03 HELENA ABERG         | SWE 2006 | 200 M. BACK               |          | 2:21.76 DEBBIE YOUNGER   | CAN 2005 |
| 59.05 LAUREEN WELTING      | USA 2000 | 2:14.10 K PIPES-NEILSEN   | USA 1997 | 2:24.80 KATE VEALE       | GBR 2002 |
| 200 M. FREE                |          | 2:19.82 JOANNA CORBEN     | GBR 2006 | 2:25.06 JILL HERNANDEZ   | USA 1997 |
| 2:03.56 K PIPES-NEILSEN    | USA 1997 | 2:20.95 GISELI PEREIRA    | BRA 2007 | 2:25.52 NADINE DAY       | USA 2006 |
| 2:06.18 LAUREEN WELTING    | USA 2000 | 2:22.82 DAPHNE FUCHS      | GER 1998 | 2:25.91 LAUREEN WELTING  | USA 2000 |
| 2:06.86 JILL HERNANDEZ     | USA 1999 | 2:23.86 SILVIA PAROCCHI   | ITA 2002 | 2:25.96 NICOLA LATTY     | GBR 2007 |
| 2:06.96 D GRANER GALLAS    | USA 1999 | 2:24.71 DEBBIE YOUNGER    | CAN 2005 | 2:26.45 ANA PAULA GRILO  | POR 2006 |
| 2:06.99 VALERIA VERGANI    | ITA 2006 | 2:25.89 ANDREA LUALLÉN    | USA 2001 | 2:26.69 BETH BAKER       | USA 2000 |
| 2:07.58 S.NEILSON-BELL     | USA 1995 | 2:26.96 MONICA OLMÍ       | ITA 2005 | 2:26.79 BIRGIT LOHBERG   | USA 2004 |
| 2:07.69 ANA PAULA GRILO    | POR 2004 | 2:27.11 KRISTIN GARY      | USA 2002 | 100 M. I.M.              |          |
| 2:07.74 BETH KNIGHT        | USA 1994 | 2:28.02 CINDY MABEE       | CAN 2007 | 1:05.40 K PIPES-NEILSEN  | USA 2000 |
| 2:08.00 MELANIA BUSSIÈRE   | CAN 2007 | 50 M. BRST                |          | 1:06.50 SILVIA PAROCCHI  | ITA 2005 |
| 2:08.12 KARIN SEICK        | GER 1996 | 33.03 CAROLINE KRATTLI    | USA 2000 | 1:07.31 NADINE DAY       | USA 2005 |
| 400 M. FREE                |          | 33.89 DAGMAR HILBIG       | GER 1993 | 1:07.51 DEBBIE YOUNGER   | CAN 2005 |
| 4:22.56 K PIPES-NEILSEN    | USA 1999 | 33.91 P.BRULHART N'DULA   | SUI 2003 | 1:07.53 CAROLINE KRATTLI | USA 2000 |
| 4:24.56 LAUREEN WELTING    | USA 2000 | 34.32 STEFANIA MONTI      | ITA 2005 | 1:07.77 MONICA SORO      | ITA 2006 |
| 4:26.57 JILL HERNANDEZ     | USA 1999 | 34.50 S.SEMINATORE        | ITA 2003 | 1:07.99 KATE VEALE       | GBR 2002 |
| 4:27.62 VALERIA VERGANI    | ITA 2006 | 34.63 LESLIE OSBORNE      | USA 1989 | 1:08.15 S NEILSON-BELL   | USA 1992 |
| 4:29.09 PENNY BOND         | AUS 1999 | 34.64 ANNETT REX          | GER 2004 | 1:08.23 BETH BAKER       | USA 2000 |
| 4:30.30 ANA PAULA GRILO    | POR 2004 | 34.84 K PIPES-NEILSEN     | USA 1999 | 1:08.65 KATHERINE VEALE  | GBR 2003 |
| 4:31.94 CHARLOTT PETERSEN  | USA 2001 | 34.90 NADINE DAY          | USA 2007 | 200 M. I.M.              |          |
| 4:31.98 LYNN MARSHALL      | CAN 1997 | 35.08 C.SILBERZAHN        | GER 2001 | 2:19.08 K PIPES-NEILSEN  | USA 2000 |
| 4:33.11 KARIN SEICK        | GER 1996 | 100 M. BRST               |          | 2:23.47 DEBBIE YOUNGER   | CAN 2005 |
| 4:33.17 BETH KNIGHT        | USA 1994 | 1:11.97 CAROLINE KRATTLI  | USA 2000 | 2:24.94 NADINE DAY       | USA 2005 |
| 800 M. FREE                |          | 1:14.55 ANNETT REX        | GER 2004 | 2:25.26 KARIN SEICK      | GER 1996 |
| 9:12.97 ALISON ZAMANIAN    | USA 2006 | 1:15.50 NADINE DAY        | USA 2005 | 2:25.39 JILL HERNANDEZ   | USA 1997 |
| 9:14.27 LAURIE HUG         | USA 2000 | 1:15.56 STEFANIA MONTI    | ITA 2004 | 2:26.10 KATE VEALE       | GBR 2001 |
| 9:15.40 K PIPES-NEILSEN    | USA 1998 | 1:15.65 K PIPES-NEILSEN   | USA 1997 | 2:26.89 SILVIA PAROCCHI  | ITA 2005 |
| 9:17.93 PENNY BOND         | AUS 1997 | 1:16.40 DAGMAR HILBIG     | GER 1995 | 2:27.72 LAUREEN WELTING  | USA 2000 |
| 9:18.40 ASA NEIJ           | SWE 2007 | 1:16.62 P.BRULHART N'DULA | SUI 2003 | 2:27.95 ANA PAULA GRILO  | POR 2006 |
| 9:20.34 LAURIE DODD        | USA 2007 | 1:16.70 LESLIE OSBORNE    | USA 1989 | 2:29.17 JENNIFER RIDGE   | USA 2005 |
| 9:21.94 LYNN MARSHALL      | CAN 1996 | 1:16.79 MARZENA KULIS     | ITA 2002 | 400 M. I.M.              |          |
| 9:23.86 N.MUIR-COCHRANE    | GBR 2000 | 1:17.52 NAMI OKAMOTO      | JPN 2005 | 4:52.83 K PIPES-NEILSEN  | USA 1997 |
| 9:24.81 BETH KNIGHT        | USA 1994 | 200 M. BRST               |          | 5:02.22 LAUREEN WELTING  | USA 2000 |
| 9:26.31 UTE MUCKEL         | GER 2002 | 2:36.04 CAROLINE KRATTLI  | USA 2000 | 5:09.87 NADINE DAY       | USA 2006 |
| 1500 M. FREE               |          | 2:44.36 NADINE DAY        | USA 2006 | 5:10.43 JILL HERNANDEZ   | USA 1999 |
| 17:20.59 LYNN MARSHALL     | CAN 1996 | 2:44.81 DAGMAR HILBIG     | GER 1995 | 5:12.40 VALERIA VERGANI  | ITA 2007 |
| 17:27.84 LAURIE HUG        | USA 2000 | 2:46.93 KEIKO OKAMOTO     | JPN 2006 | 5:12.42 KATE VEALE       | GBR 2002 |
| 17:35.69 PENNY BOND        | AUS 1997 | 2:47.78 NAMI OKAMOTO      | JPN 2006 | 5:12.75 ANA PAULA GRILO  | POR 2004 |
| 17:36.24 K PIPES-NEILSEN   | USA 1999 | 2:48.35 STEFANIA MONTI    | ITA 2005 | 5:13.70 JOANNA CORBEN    | GBR 2007 |
| 17:43.10 BETH KNIGHT       | USA 1994 | 2:48.65 KATJA SEEGER-BOSE | GER 2006 | 5:14.35 BIRGIT LOHBERG   | USA 2004 |
| 17:54.55 N.MUIR-COCHRANE   | GBR 2000 | 2:48.66 MARZENA KULIS     | ITA 2002 | 5:15.70 LAURIE HUG       | USA 2000 |
| 18:02.22 LISA HAZEN        | USA 2003 | 2:48.66 K PIPES-NEILSEN   | USA 1998 | *****                    |          |
| 18:02.75 CHARLOTT PETERSEN | USA 2000 | 2:49.74 DORI MILLER       | USA 2006 | WOMEN 40-44              |          |
| 18:09.06 LAURIE DODD       | USA 2007 | 50 M. FLY                 |          | *****                    |          |
| 18:18.50 NADINE DAY        | USA 2005 | 28.68 TRACIE MOLL         | USA 2001 | 50 M. FREE               |          |
| 50 M. BACK                 |          | 28.86 HELENA ABERG        | SWE 2007 | 26.60 MARIKA JOHANSSON   | SWE 2007 |
| 30.14 GISELI PEREIRA       | BRA 2007 | 29.08 K PIPES-NEILSEN     | USA 2000 |                          |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|          |                   |     |      |         |                  |     |      |             |                  |     |      |
|----------|-------------------|-----|------|---------|------------------|-----|------|-------------|------------------|-----|------|
| 26.66    | S.NEILSON-BELL    | USA | 1996 | 31.61   | SILVIA PAROCCHI  | ITA | 2006 | 29.51       | K PIPES-NEILSEN  | USA | 2003 |
| 26.67    | EDITH OTTERMANN   | RSA | 2007 | 31.76   | JUNKO NAKANO     | JPN | 2007 | 29.55       | EDITH OTTERMANN  | RSA | 2007 |
| 26.70    | GIOVANNI MORELLI  | SUI | 2007 | 31.81   | VIBEKE SWANSON   | USA | 2001 | 29.57       | DANIELA DE PONTI | ITA | 2006 |
| 26.95    | BETH KNIGHT       | USA | 1999 | 31.86   | CAROLINE KRATTLI | USA | 2002 | 29.68       | BETH BAKER       | USA | 2001 |
| 27.04    | HAYLEY BETTINSON  | GBR | 2006 | 31.87   | SANDRA MICHELINI | ITA | 2007 | 29.75       | CYNTHIA PINCOTT  | CAN | 2003 |
| 27.18    | SARAH MACDONALD   | CAN | 2004 | 31.88   | UTE ROMBERG      | GER | 2002 | 100 M.      | FLY              |     |      |
| 27.21    | K.PIPES-NEILSEN   | USA | 2005 | 32.00   | KATHERINE VEALE  | GBR | 2006 | 1:02.34     | S.VON DER LIPPE  | USA | 2007 |
| 27.30    | JUNKO NAKANO      | JPN | 2007 | 100 M.  | BACK             |     |      | 1:03.31     | K PIPES-NEILSEN  | USA | 2003 |
| 27.37    | JENNIE BUCKNELL   | AUS | 2007 | 1:05.43 | K PIPES-NEILSEN  | USA | 2002 | 1:04.93     | SILVIA PAROCCHI  | ITA | 2006 |
| 100 M.   | FREE              |     |      | 1:06.94 | SILVIA PAROCCHI  | ITA | 2007 | 1:05.45     | DANIELA DE PONTI | ITA | 2006 |
| 57.60    | K PIPES-NEILSEN   | USA | 2003 | 1:07.75 | VIBEKE SWANSON   | USA | 2002 | 1:05.49     | BETH BAKER       | USA | 2001 |
| 57.74    | S.VON DER LIPPE   | USA | 2007 | 1:07.92 | BETH BAKER       | USA | 2001 | 1:05.84     | JILL HERNANDEZ   | USA | 2000 |
| 58.81    | JILL HERNANDEZ    | USA | 2000 | 1:07.96 | UTE ROMBERG      | GER | 2001 | 1:05.85     | BIRGIT LOHBERG   | USA | 2006 |
| 59.77    | SARAH MACDONALD   | CAN | 2003 | 1:08.49 | MARIKA MCCUE     | USA | 2005 | 1:06.45     | MARIE SADLER     | GBR | 2000 |
| 59.83    | S.NEILSON-BELL    | USA | 1996 | 1:09.24 | KARIN SEICK      | GER | 2002 | 1:06.67     | WAKA SATO        | JPN | 2007 |
| 59.88    | SILVIA PAROCCHI   | ITA | 2007 | 1:09.37 | HELEN WHITFORD   | AUS | 2007 | 1:06.86     | LAURA VAL        | USA | 1993 |
| 1:00.10  | DANIELA DE PONTI  | ITA | 2006 | 1:09.54 | MIKI NAMAI       | JPN | 2007 | 200 M.      | FLY              |     |      |
| 1:00.23  | BIRGIT LOHBERG    | USA | 2007 | 1:09.67 | KATHERINE VEALE  | GBR | 2006 | 2:20.66     | SUSAN VD LIPPE   | USA | 2006 |
| 1:00.24  | KARIN SEICK       | GER | 2002 | 200 M.  | BACK             |     |      | 2:20.71     | K PIPES-NEILSEN  | USA | 2002 |
| 1:00.47  | G.BERGER TALO     | FRA | 1999 | 2:19.09 | K PIPES-NEILSEN  | USA | 2003 | 2:25.30     | JUDY BROWN       | GBR | 2005 |
| 200 M.   | FREE              |     |      | 2:23.22 | SILVIA PAROCCHI  | ITA | 2006 | 2:26.07     | BIRGIT LOHBERG   | USA | 2006 |
| 2:05.26  | K PIPES-NEILSEN   | USA | 2003 | 2:25.78 | BETH BAKER       | USA | 2001 | 2:26.15     | BETH BAKER       | USA | 2001 |
| 2:06.18  | S.VON DER LIPPE   | USA | 2007 | 2:28.01 | VIBEKE SWANSON   | USA | 2002 | 2:28.39     | MARZENA KULIS    | ITA | 2007 |
| 2:06.81  | JILL HERNANDEZ    | USA | 2000 | 2:29.22 | HELEN WHITFORD   | AUS | 2007 | 2:28.50     | LYNN MARSHALL    | CAN | 2004 |
| 2:09.51  | BIRGIT LOHBERG    | USA | 2006 | 2:29.40 | ANGELA DELISSEN  | GER | 2007 | 2:29.19     | LAURA VAL        | USA | 1993 |
| 2:09.53  | BETH KNIGHT       | USA | 1999 | 2:29.48 | INGRID MOLLERUP  | NOR | 2001 | 2:29.92     | CYNTHIA PINCOTT  | CAN | 2003 |
| 2:11.16  | SILVIA PAROCCHI   | ITA | 2006 | 2:30.11 | BIRGIT LOHBERG   | USA | 2007 | 2:31.03     | JUDY HATTLE      | GBR | 2003 |
| 2:11.43  | LYNN MARSHALL     | CAN | 2002 | 2:30.26 | LESLEY WILDE     | GBR | 2000 | 100 M.      | I.M.             |     |      |
| 2:11.45  | NORMA CAHILL      | IRL | 2005 | 2:30.38 | UTE ROMBERG      | GER | 2002 | 1:05.07     | S.VON DER LIPPE  | USA | 2007 |
| 2:12.76  | VIBEKE SWANSON    | USA | 2001 | 50 M.   | BRST             |     |      | 1:05.56     | K PIPES-NEILSEN  | USA | 2003 |
| 2:13.05  | SARAH MACDONALD   | CAN | 2003 | 32.93   | S.VON DER LIPPE  | USA | 2007 | 1:07.20     | CAROLINE KRATTLI | USA | 2002 |
| 400 M.   | FREE              |     |      | 33.67   | CAROLINE KRATTLI | USA | 2003 | 1:08.18     | SILVIA PAROCCHI  | ITA | 2006 |
| 4:21.75  | K PIPES-NEILSEN   | USA | 2003 | 34.11   | MAGGIE KELLY     | GBR | 2000 | 1:08.48     | MAGGIE KELLY     | GBR | 1998 |
| 4:24.22  | JILL HERNANDEZ    | USA | 2000 | 34.31   | MARZENA KULIS    | ITA | 2007 | 1:08.82     | SARAH MACDONALD  | CAN | 2003 |
| 4:32.89  | LYNN MARSHALL     | CAN | 2001 | 34.34   | DAGMAR HILBIG    | GER | 1998 | 1:08.91     | JILL HERNANDEZ   | USA | 2004 |
| 4:34.83  | BIRGIT LOHBERG    | USA | 2005 | 34.98   | K PIPES-NEILSEN  | USA | 2002 | 1:08.98     | BETH BAKER       | USA | 2001 |
| 4:34.83  | SUZANN HEIM-BOWEN | USA | 1998 | 35.22   | E.HAKANSSON      | CAN | 2000 | 1:08.99     | DANIELA DE PONTI | ITA | 2006 |
| 4:37.83  | CLAUDIA KERN      | GER | 2006 | 35.38   | S.SEMINATORE     | ITA | 2006 | 1:09.26     | ANGELA DELISSEN  | GER | 2007 |
| 4:39.24  | CAROLINE KRATTLI  | USA | 2003 | 35.40   | MONICA CORO      | ITA | 2005 | 200 M.      | I.M.             |     |      |
| 4:39.98  | N.MUIR-COCHRANE   | GBR | 2004 | 35.51   | ANGELA DELISSEN  | GER | 2007 | 2:19.21     | S.VON DER LIPPE  | USA | 2007 |
| 4:40.16  | BARBARA GELLRICH  | GER | 2001 | 100 M.  | BRST             |     |      | 2:20.55     | K PIPES-NEILSEN  | USA | 2003 |
| 4:41.72  | C.PETERSEN        | USA | 2006 | 1:10.55 | S.VON DER LIPPE  | USA | 2007 | 2:22.51     | JILL HERNANDEZ   | USA | 2000 |
| 800 M.   | FREE              |     |      | 1:12.08 | CAROLINE KRATTLI | USA | 2003 | 2:25.86     | BIRGIT LOHBERG   | USA | 2006 |
| 9:09.71  | K PIPES-NEILSEN   | USA | 2003 | 1:13.16 | MARZENA KULIS    | ITA | 2007 | 2:26.51     | CAROLINE KRATTLI | USA | 2003 |
| 9:21.44  | LYNN MARSHALL     | CAN | 2001 | 1:14.79 | MAGGIE KELLY     | GBR | 1998 | 2:27.66     | SILVIA PAROCCHI  | ITA | 2007 |
| 9:26.96  | N.MUIR-COCHRANE   | GBR | 2004 | 1:17.02 | DAGMAR HILBIG    | GER | 2000 | 2:27.85     | ANGELA DELISSEN  | GER | 2007 |
| 9:29.90  | SUZANN HEIM-BOWEN | USA | 1998 | 1:17.04 | K PIPES-NEILSEN  | USA | 2002 | 2:28.10     | VIBEKE SWANSON   | USA | 2001 |
| 9:30.29  | LESLEIGH MAYES    | AUS | 2000 | 1:17.71 | M.ODILE CHARLES  | FRA | 2003 | 2:28.94     | MARZENA KULIS    | ITA | 2007 |
| 9:35.07  | CLAUDIA KERN      | GER | 2006 | 1:17.74 | S.SEMINATORE     | ITA | 2006 | 2:30.34     | CYNTHIA PINCOTT  | CAN | 2003 |
| 9:38.14  | MARGE CURRAN      | USA | 2005 | 1:18.06 | KATHY RENARD     | CAN | 2004 | 400 M.      | I.M.             |     |      |
| 9:39.47  | LAURIE HUG        | USA | 2007 | 1:18.29 | SVETLANA SAVINO  | FIN | 2004 | 5:00.82     | K PIPES-NEILSEN  | USA | 2002 |
| 9:41.91  | ELKE HAGEDORN     | GER | 2005 | 200 M.  | BRST             |     |      | 5:02.17     | JILL HERNANDEZ   | USA | 2000 |
| 9:42.45  | BARBARA GELLRICH  | GER | 2003 | 2:35.85 | SUSAN VD LIPPE   | USA | 2005 | 5:03.49     | SUSAN VD LIPPE   | USA | 2006 |
| 1500 M.  | FREE              |     |      | 2:39.10 | CAROLINE KRATTLI | USA | 2002 | 5:13.39     | BIRGIT LOHBERG   | USA | 2006 |
| 17:38.37 | LYNN MARSHALL     | CAN | 2002 | 2:46.13 | ANGELA DELISSEN  | GER | 2007 | 5:13.86     | VIBEKE SWANSON   | USA | 2001 |
| 17:45.50 | K PIPES-NEILSEN   | USA | 2003 | 2:47.00 | S.SEMINATORE     | ITA | 2004 | 5:18.30     | ANGELA DELISSEN  | GER | 2007 |
| 17:52.93 | N.MUIR-COCHRANE   | GBR | 2004 | 2:47.18 | MARZENA KULIS    | ITA | 2006 | 5:21.60     | LYNN MARSHALL    | CAN | 2001 |
| 18:02.62 | SUZANN HEIM-BOWEN | USA | 1998 | 2:47.54 | DAGMAR HILBIG    | GER | 1999 | 5:22.15     | LAURIE HUG       | USA | 2007 |
| 18:08.78 | LAURIE HUG        | USA | 2007 | 2:49.01 | AMANDA HEATH     | GBR | 1998 | 5:22.55     | CYNTHIA PINCOTT  | CAN | 2006 |
| 18:24.38 | AMY DANTZLER      | USA | 2006 | 2:50.00 | KATHY RENARD     | CAN | 2004 | 5:22.59     | ROBYNN MASTERS   | USA | 1999 |
| 18:29.76 | ROBYNN MASTERS    | USA | 1999 | 2:50.27 | K PIPES-NEILSEN  | USA | 2004 |             |                  |     |      |
| 18:30.26 | C.PETERSEN        | USA | 2007 | 2:50.46 | CYNTHIA PINCOTT  | CAN | 2003 | *****       |                  |     |      |
| 18:33.31 | REBECCA KALIBAT   | USA | 2004 | 50 M.   | FLY              |     |      | WOMEN 45-49 |                  |     |      |
| 18:38.10 | ANNA MARIA NUNIA  | ITA | 2004 | 28.13   | GABRIELE BLANK   | GER | 2006 | *****       |                  |     |      |
| 50 M.    | BACK              |     |      | 28.21   | SUSAN VD LIPPE   | USA | 2005 | 50 M.       | FREE             |     |      |
| 30.97    | K.PIPES-NEILSEN   | USA | 2005 | 28.86   | SILVIA PAROCCHI  | ITA | 2007 | 27.09       | K.PIPES-NEILSEN  | USA | 2007 |
| 31.40    | MARIKA MCCUE      | USA | 2003 | 29.06   | ASTRID BENCISK   | SWE | 2000 | 27.31       | SARAH MACDONALD  | CAN | 2005 |
| 31.55    | LAURA VAL         | USA | 1993 | 29.45   | MARIE SADLER     | GBR | 2000 | 27.54       | LISA DAHL        | USA | 2006 |



# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|              |                   |     |      |             |                   |     |      |             |                   |     |      |
|--------------|-------------------|-----|------|-------------|-------------------|-----|------|-------------|-------------------|-----|------|
| 27.69        | LIZ HOBBS         | USA | 2007 | 32.59       | K.ANDRUS-HUGHES   | USA | 2006 | 30.60       | MONIKA SENFTLEBEN | GER | 1990 |
| 27.77        | KARIN SEICK       | GER | 2006 | 32.65       | L.VAN PELT-DILLER | USA | 2003 | 30.77       | SARAH MACDONALD   | CAN | 2005 |
| 27.77        | JENNY WHITELEY    | AUS | 2003 | 32.67       | LAURA VAL         | USA | 1999 | 30.88       | JUDITH HATTLE     | GBR | 2006 |
| 28.06        | JACKI HIRSTY      | USA | 2000 | 32.68       | ANN KOURI         | CAN | 2006 | 30.99       | LAURA VAL         | USA | 1998 |
| 28.41        | JILL QUIRK        | CAN | 1999 | 32.76       | KARIN SEICK       | GER | 2006 | 100 M. FLY  |                   |     |      |
| 28.42        | LAURA VAL         | USA | 1998 | 32.82       | CATHY SHEEHAN     | CAN | 2005 | 1:04.40     | K.PIPES-NEILSEN   | USA | 2007 |
| 28.45        | STEFANIE NIEMIETZ | GER | 2007 | 100 M. BACK |                   |     |      | 1:07.07     | JUDY HATTLE       | GBR | 2005 |
| 28.45        | TANYA HANSON      | USA | 2006 | 1:06.44     | K.PIPES-NEILSEN   | USA | 2007 | 1:07.99     | SUZANNE SIMPSON   | USA | 2005 |
| 100 M. FREE  |                   |     |      | 1:09.20     | VIBEKE SWANSON    | USA | 2006 | 1:08.10     | LAURA VAL         | USA | 1999 |
| 58.61        | K.PIPES-NEILSEN   | USA | 2007 | 1:09.27     | VERA CAPKOVA      | BEL | 2006 | 1:08.54     | ARLENE DELMAGE    | USA | 2007 |
| 59.58        | SARAH MACDONALD   | CAN | 2005 | 1:09.68     | KARIN SEICK       | GER | 2007 | 1:08.63     | SHIZUKO HIRAISHI  | JPN | 2007 |
| 1:00.41      | KARIN SEICK       | GER | 2007 | 1:09.90     | L.PELT-DILLER     | USA | 2006 | 1:09.24     | JENNY WHITELEY    | AUS | 2003 |
| 1:01.42      | JENNY WHITELEY    | AUS | 2003 | 1:10.33     | LISA DIXON-WELLS  | CAN | 2006 | 1:09.27     | TRACI GRANGER     | USA | 2007 |
| 1:01.94      | REBECCA PERROTT   | NZL | 2006 | 1:10.62     | CATHY SHEEHAN     | CAN | 2005 | 1:09.58     | REBECCA PERROTT   | NZL | 2006 |
| 1:02.00      | LAURA VAL         | USA | 1998 | 1:10.64     | LESLEY WILDE      | GBR | 2004 | 1:10.03     | BARBARA GELLRICH  | GER | 2006 |
| 1:02.17      | ATIE PIJTAK       | NED | 2003 | 1:10.90     | K.ANDRUS-HUGHES   | USA | 2004 | 200 M. FLY  |                   |     |      |
| 1:02.20      | BARBARA GELLRICH  | GER | 2006 | 1:11.25     | SARAH MACDONALD   | CAN | 2007 | 2:24.93     | K.PIPES-NEILSEN   | USA | 2007 |
| 1:02.20      | LYNN MARSHALL     | CAN | 2006 | 100 M. BACK |                   |     |      | 2:28.26     | LYNN MARSHALL     | CAN | 2006 |
| 1:02.33      | JILL QUIRK        | CAN | 1999 | 2:22.53     | K.PIPES-NEILSEN   | USA | 2007 | 2:29.32     | SUZANNE SIMPSON   | USA | 2005 |
| 200 M. FREE  |                   |     |      | 2:31.42     | LYNN MARSHALL     | CAN | 2006 | 2:32.52     | LAURA VAL         | USA | 1999 |
| 2:05.94      | K.PIPES-NEILSEN   | USA | 2007 | 2:32.56     | VIBEKE SWANSON    | USA | 2006 | 2:33.73     | CYNTHIA PINCOTT   | CAN | 2007 |
| 2:10.91      | S.HEIM-BOWEN      | USA | 2003 | 2:32.74     | L.PELT-DILLER     | USA | 2006 | 2:34.15     | JUDY HATTLE       | GBR | 2005 |
| 2:11.00      | LYNN MARSHALL     | CAN | 2006 | 2:33.10     | NAOKO SHIDE       | JPN | 2006 | 2:35.17     | JENNY WHITELEY    | AUS | 2003 |
| 2:11.09      | JENNY WHITELEY    | AUS | 2003 | 2:34.50     | LESLEY WILDE      | GBR | 2004 | 2:36.13     | REBECCA PERROTT   | NZL | 2006 |
| 2:15.20      | MARGEE CURRAN     | USA | 2007 | 2:36.25     | KAREN EINSIDLER   | USA | 2001 | 2:36.81     | SHIZUKO HIRAISHI  | JPN | 2007 |
| 2:15.31      | LAURA VAL         | USA | 2000 | 2:36.38     | CATHY SHEEHAN     | CAN | 2005 | 2:37.88     | ARDETH MUELLER    | USA | 1987 |
| 2:15.44      | JANA MATENA       | USA | 2007 | 2:36.79     | CECILIA MCCLOSKEY | USA | 1997 | 100 M. I.M. |                   |     |      |
| 2:15.66      | BARBARA GELLRICH  | GER | 2006 | 2:36.84     | C.TARANTINO       | ITA | 2003 | 1:07.49     | K.PIPES-NEILSEN   | USA | 2007 |
| 2:15.80      | VIBEKE SWANSON    | USA | 2007 | 50 M. BRST  |                   |     |      | 1:08.59     | CAROLINE KRATTLI  | USA | 2007 |
| 2:16.47      | REBECCA PERROTT   | NZL | 2007 | 33.94       | CAROLINE KRATTLI  | USA | 2007 | 1:09.28     | SARAH MACDONALD   | CAN | 2005 |
| 400 M. FREE  |                   |     |      | 34.36       | ALISON NYE        | GBR | 2002 | 1:09.68     | JENNY WHITELEY    | AUS | 2003 |
| 4:28.51      | K.PIPES-NEILSEN   | USA | 2007 | 34.60       | SWICZINSKY-KORDES | GER | 2001 | 1:10.39     | SHIZUKO HIRAISHI  | JPN | 2007 |
| 4:30.98      | S.HEIM-BOWEN      | USA | 2003 | 34.64       | MAGGIE KELLY      | GBR | 2001 | 1:10.47     | VIBEKE SWANSON    | USA | 2006 |
| 4:33.09      | LYNN MARSHALL     | CAN | 2006 | 34.70       | JUDY GARAY        | CAN | 2005 | 1:10.87     | MAGGIE KELLY      | GBR | 2001 |
| 4:43.49      | JENNY WHITELEY    | AUS | 2003 | 34.79       | MONICA CORO       | ITA | 2007 | 1:11.30     | LISA DIXON-WELLS  | CAN | 2006 |
| 4:43.60      | MARGEE CURRAN     | USA | 2007 | 35.67       | K.PIPES-NEILSEN   | USA | 2007 | 1:11.82     | LAURA VAL         | USA | 1997 |
| 4:43.85      | BARBARA GELLRICH  | GER | 2007 | 36.36       | SARAH MACDONALD   | CAN | 2006 | 1:11.86     | ANN KOURI         | CAN | 2006 |
| 4:44.77      | SUSANNE SIMPSON   | USA | 2007 | 36.41       | JENNY WHITELEY    | AUS | 2003 | 200 M. I.M. |                   |     |      |
| 4:46.15      | JANA MATENA       | USA | 2007 | 36.63       | MELINDA MANN      | USA | 2002 | 2:23.49     | K.PIPES-NEILSEN   | USA | 2007 |
| 4:46.20      | KAREN EINSIDLER   | USA | 2002 | 100 M. BRST |                   |     |      | 2:29.69     | CAROLINE KRATTLI  | USA | 2007 |
| 4:47.26      | REBECCA PERROTT   | NZL | 2007 | 1:13.38     | CAROLINE KRATTLI  | USA | 2007 | 2:31.99     | VIBEKE SWANSON    | USA | 2006 |
| 800 M. FREE  |                   |     |      | 1:15.86     | MONICA CORO       | ITA | 2007 | 2:33.25     | LYNN MARSHALL     | CAN | 2006 |
| 9:21.65      | LYNN MARSHALL     | CAN | 2006 | 1:16.06     | K.PIPES-NEILSEN   | USA | 2007 | 2:34.02     | JENNY WHITELEY    | AUS | 2003 |
| 9:27.44      | SUZANN HEIM-BOWEN | USA | 2004 | 1:17.16     | MAGGIE KELLY      | GBR | 2001 | 2:34.33     | CYNTHIA PINCOTT   | CAN | 2007 |
| 9:40.50      | MARGEE CURRAN     | USA | 2007 | 1:18.13     | JENNY WHITELEY    | AUS | 2003 | 2:35.12     | ANN KOURI         | CAN | 2006 |
| 9:41.99      | BARBARA GELLRICH  | GER | 2007 | 1:19.67     | MARJA BLOEMZAAD   | NED | 2007 | 2:35.67     | LISA DIXON-WELLS  | CAN | 2007 |
| 9:42.24      | SUSANNE SIMPSON   | USA | 2005 | 1:19.93     | MELINDA MANN      | USA | 2002 | 2:35.69     | BARBARA GELLRICH  | GER | 2007 |
| 9:52.74      | JANA MATENA       | USA | 2007 | 1:20.29     | MASAKO ICHIMARU   | JPN | 2007 | 2:36.19     | SARAH MACDONALD   | CAN | 2007 |
| 9:54.21      | KAREN EINSIDLER   | USA | 2002 | 1:20.31     | KATE SORENSEN     | DEN | 2007 | 400 M. I.M. |                   |     |      |
| 10:00.03     | C.TARANTINO       | ITA | 2003 | 1:20.50     | RUTH CHEEMA       | GBR | 2004 | 5:09.02     | K.PIPES-NEILSEN   | USA | 2007 |
| 10:00.58     | TANJA ENGELS      | GER | 2006 | 200 M. BRST |                   |     |      | 5:19.13     | LYNN MARSHALL     | CAN | 2006 |
| 10:03.26     | ANDREA BLOCK      | USA | 2007 | 2:42.10     | CAROLINE KRATTLI  | USA | 2007 | 5:19.58     | VIBEKE SWANSON    | USA | 2006 |
| 1500 M. FREE |                   |     |      | 2:48.38     | JENNY WHITELEY    | AUS | 2003 | 5:28.91     | JENNY WHITELEY    | AUS | 2003 |
| 17:46.32     | LYNN MARSHALL     | CAN | 2007 | 2:48.56     | JUDIT HAIDU       | AUT | 2007 | 5:31.00     | LESLEY WILDE      | GBR | 2007 |
| 17:50.64     | SUZANN HEIM-BOWEN | USA | 2004 | 2:49.50     | MONICA CORO       | ITA | 2007 | 5:31.35     | BARBARA GELLRICH  | GER | 2007 |
| 18:52.67     | MARGEE CURRAN     | USA | 2007 | 2:53.17     | K.PIPES-NEILSEN   | USA | 2007 | 5:31.97     | NAOKO SHIDE       | JPN | 2007 |
| 18:55.82     | LAURA VAL         | USA | 1998 | 2:53.23     | AMANDA HEATH      | GBR | 2003 | 5:33.37     | LAURA VAL         | USA | 1999 |
| 18:58.40     | C.TARANTINO       | ITA | 2002 | 2:54.02     | ULRIKE URBANIAK   | GER | 2000 | 5:35.49     | REBECCA PERROTT   | NZL | 2006 |
| 19:02.68     | DENISE BROWN      | USA | 2007 | 2:54.05     | COLETTE CRABBE    | USA | 2002 | 5:35.51     | COLETTE CRABBE    | USA | 2002 |
| 19:06.19     | SUSANNE SIMPSON   | USA | 2007 | 2:54.57     | KAREN MELICK      | USA | 2003 |             |                   |     |      |
| 19:06.25     | JEANNE CARLSEN    | CAN | 2007 | 2:54.98     | KATE SORENSEN     | DEN | 2007 |             |                   |     |      |
| 19:06.85     | JENNY WHITELEY    | AUS | 2004 | 50 M. FLY   |                   |     |      |             |                   |     |      |
| 19:07.62     | REBECCA PERROTT   | NZL | 2007 | 29.97       | USCHI DUMIG       | GER | 2005 |             |                   |     |      |
| 50 M. BACK   |                   |     |      | 29.98       | K.PIPES-NEILSEN   | USA | 2007 |             |                   |     |      |
| 30.58        | K.PIPES-NEILSEN   | USA | 2007 | 30.02       | KARIN SEICK       | GER | 2006 |             |                   |     |      |
| 31.45        | BARBARA OPITZ     | GER | 2006 | 30.18       | LISA DAHL         | USA | 2006 |             |                   |     |      |
| 32.14        | SHIZUKO HIRAISHI  | JPN | 2007 | 30.24       | TRACI GRANGER     | USA | 2007 |             |                   |     |      |
| 32.54        | VIBEKE SWANSON    | USA | 2006 | 30.51       | ANGELA ZINGLER    | GER | 2001 |             |                   |     |      |

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## WOMEN 50-54

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|            |               |     |      |
|------------|---------------|-----|------|
| 50 M. FREE |               |     |      |
| 28.43      | G.TALOCHINO   | FRA | 2006 |
| 28.54      | JACKI HIRSTY  | USA | 2002 |
| 28.56      | LAURA VAL     | USA | 2001 |
| 28.65      | JOEL FELDMANN | USA | 2002 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|          |                   |     |      |         |                   |     |      |         |                   |     |      |
|----------|-------------------|-----|------|---------|-------------------|-----|------|---------|-------------------|-----|------|
| 29.11    | ANGELA ZINGLER    | GER | 2004 | 34.53   | ANGELA ZINGLER    | GER | 2004 | 32.51   | CONNY BOER-BUYS   | NED | 2000 |
| 29.16    | L.CRITTENDEN      | USA | 2006 | 34.72   | G.TALOCHINO       | FRA | 2006 | 32.52   | MELINDA MANN      | USA | 2006 |
| 29.19    | GUNILLA RASMUSSEN | SWE | 2007 | 34.81   | BENEDICTE DUPREZ  | FRA | 2001 | 100 M.  | FLY               |     |      |
| 29.24    | HEATHER CAMPBELL  | NZL | 2006 | 34.97   | CAROL FELLOWS     | GBR | 1998 | 1:09.05 | LAURA VAL         | USA | 2001 |
| 29.25    | LINDSEY GOWLAND   | GBR | 2007 | 100 M.  | BACK              |     |      | 1:11.10 | HARUMI SUGINUMA   | JPN | 2007 |
| 29.28    | M.VON RICHTHOFEN  | GER | 2006 | 1:10.35 | K.ANDRUS-HUGHES   | USA | 2007 | 1:12.66 | ARDETH MUELLER    | USA | 1991 |
| 100 M.   | FREE              |     |      | 1:12.95 | LAURA VAL         | USA | 2001 | 1:13.21 | MELINDA MANN      | USA | 2006 |
| 1:01.49  | LAURA VAL         | USA | 2001 | 1:13.63 | EVIE LYNCH        | USA | 2004 | 1:14.18 | ANGELA ZINGLER    | GER | 2004 |
| 1:03.21  | G.TALOCHINO       | FRA | 2006 | 1:14.62 | JANE HILL         | USA | 2001 | 1:14.90 | BARBARA DUNBAR    | USA | 2000 |
| 1:03.29  | JACKI HIRSTY      | USA | 2002 | 1:14.78 | BENEDICTE DUPREZ  | FRA | 2001 | 1:15.25 | CHRISTIE CIRAULO  | USA | 2003 |
| 1:03.47  | K.ANDRUS-HUGHES   | USA | 2007 | 1:14.95 | PATTY LANDERS     | USA | 2006 | 1:15.43 | SACHIKO SAITO     | JPN | 2007 |
| 1:03.97  | HEATHER CAMPBELL  | NZL | 2006 | 1:15.85 | C.TARANTINO       | ITA | 2005 | 1:15.56 | DEBBIE SWIGERT    | USA | 2007 |
| 1:04.10  | ATIE PIJTAK       | NED | 2007 | 1:16.55 | NORIKO KOBAMATSU  | JPN | 2007 | 1:15.96 | SUSAN SKIFF       | ITA | 2004 |
| 1:04.61  | GUNILLA RASMUSSEN | SWE | 2007 | 1:16.60 | JOEL FELDMANN     | USA | 2003 | 200 M.  | FLY               |     |      |
| 1:04.84  | ALYSON FORDHAM    | GBR | 2007 | 1:17.05 | MARTHA STANTON    | JPN | 2007 | 2:39.11 | LAURA VAL         | USA | 2005 |
| 1:05.19  | MARILYN EARLY     | USA | 2007 | 200 M.  | BACK              |     |      | 2:42.27 | N.STEADMAN-MARTIN | USA | 2007 |
| 1:05.55  | L.CRITTENDEN      | USA | 2006 | 2:37.89 | C.TARANTINO       | ITA | 2005 | 2:44.84 | BARBARA DUNBAR    | USA | 1999 |
| 200 M.   | FREE              |     |      | 2:41.20 | LAURA VAL         | USA | 2003 | 2:45.99 | ARDETH MUELLER    | USA | 1991 |
| 2:14.66  | LAURA VAL         | USA | 2003 | 2:41.56 | EVIE LYNCH        | USA | 2005 | 2:46.54 | HARUMI SUGINUMA   | JPN | 2007 |
| 2:20.61  | DANIELLE OGIER    | USA | 2002 | 2:43.04 | ANNE CORK         | GBR | 2001 | 2:48.66 | KATHERINE BRANCH  | USA | 2007 |
| 2:20.93  | ATIE PIJTAK       | NED | 2007 | 2:46.73 | BENEDICTE DUPREZ  | FRA | 2002 | 2:49.36 | M.NEUMEISTER      | GER | 2003 |
| 2:22.21  | JACKI HIRSTY      | USA | 2002 | 2:47.15 | PATTY LANDERS     | USA | 2006 | 2:53.24 | SUSAN SKIFF       | ITA | 2004 |
| 2:22.84  | MARILYN EARLY     | USA | 2007 | 2:47.23 | NORIKO KOBAMATSU  | JPN | 2007 | 2:53.45 | SUSAN HAIGH       | GBR | 2005 |
| 2:23.36  | SUSAN SKIFF       | GER | 2005 | 2:47.44 | DANIELLE OGIER    | USA | 2003 | 2:54.65 | ELAINE FINCHAM    | USA | 2006 |
| 2:23.69  | C.TARANTINO       | ITA | 2005 | 2:47.99 | DI COETZEE        | RSA | 2006 | 100 M.  | I.M.              |     |      |
| 2:24.41  | DIANNE FOSTER     | CAN | 1999 | 2:48.76 | EDIE FISHER       | CAN | 2007 | 1:12.50 | LAURA VAL         | USA | 2003 |
| 2:24.55  | BARBARA DUNBAR    | USA | 2000 | 50 M.   | BRST              |     |      | 1:13.12 | DANIELLE OGIER    | USA | 2002 |
| 2:24.66  | N.STEADMAN-MARTIN | USA | 2007 | 36.32   | MAGGIE KELLY      | GBR | 2006 | 1:15.13 | MELINDA MANN      | USA | 2006 |
| 400 M.   | FREE              |     |      | 36.69   | CHRISTIANE HEEREN | GER | 1999 | 1:15.24 | GAYLE WETTACH     | USA | 2007 |
| 4:45.72  | LAURA VAL         | USA | 2003 | 37.10   | PETRA SCHROER     | GER | 2004 | 1:15.26 | ANGELA ZINGLER    | GER | 2004 |
| 4:54.01  | DANIELLE OGIER    | USA | 2002 | 37.35   | L.CRITTENDEN      | USA | 2006 | 1:15.29 | L.CRITTENDEN      | USA | 2006 |
| 4:57.04  | N.STEADMAN-MARTIN | USA | 2007 | 37.78   | ALISON NYE        | GBR | 2007 | 1:15.74 | HEATHER CAMPBELL  | NZL | 2006 |
| 4:57.68  | JACKI HIRSTY      | USA | 2002 | 37.94   | SUSAN JONES ROY   | USA | 2001 | 1:15.75 | ROBIN PARISI      | USA | 2005 |
| 4:59.56  | BARBARA DUNBAR    | USA | 2000 | 37.99   | DANIELLE OGIER    | USA | 2002 | 1:15.79 | BERGER TALOCHINO  | FRA | 2007 |
| 5:00.24  | C.TARANTINO       | ITA | 2006 | 38.15   | MELINDA MANN      | USA | 2006 | 1:16.02 | JILL JONES        | GBR | 2007 |
| 5:00.34  | SUSAN SKIFF       | GER | 2005 | 38.18   | AVILA RHODES      | CAN | 2006 | 1:16.02 | JOEL FELDMANN     | USA | 2002 |
| 5:01.65  | KATHERINE BRANCH  | USA | 2007 | 38.21   | KAREN MELICK      | USA | 2007 | 200 M.  | I.M.              |     |      |
| 5:02.03  | DIANNE FOSTER     | CAN | 1999 | 100 M.  | BRST              |     |      | 2:37.52 | DANIELLE OGIER    | USA | 2002 |
| 5:03.47  | MARILYN EARLY     | USA | 2007 | 1:22.48 | AMANDA HEATH      | GBR | 2007 | 2:37.90 | LAURA VAL         | USA | 2002 |
| 800 M.   | FREE              |     |      | 1:22.53 | PETRA SCHROER     | GER | 2003 | 2:41.88 | BIRGIT HEINIG     | GER | 2007 |
| 9:50.53  | LAURA VAL         | USA | 2003 | 1:22.53 | SUSAN JONES ROY   | USA | 2001 | 2:43.19 | MELINDA MANN      | USA | 2006 |
| 10:05.20 | C.TARANTINO       | ITA | 2005 | 1:23.05 | DANIELLE OGIER    | USA | 2002 | 2:43.84 | ATIE PIJTAK       | NED | 2006 |
| 10:10.18 | KATHERINE BRANCH  | USA | 2007 | 1:23.06 | MELINDA MANN      | USA | 2006 | 2:45.81 | AMANDA HEATH      | GBR | 2007 |
| 10:16.80 | BARBARA DUNBAR    | USA | 2001 | 1:23.42 | ULRIKE URBANIAK   | GER | 2004 | 2:46.27 | LAURA VACA        | MEX | 2003 |
| 10:18.11 | N.STEADMAN-MARTIN | USA | 2007 | 1:24.20 | KAREN MELICK      | USA | 2007 | 2:46.44 | EDIE FISHER       | CAN | 2007 |
| 10:21.03 | LAURA VACA        | MEX | 2003 | 1:24.24 | FRANCES PENWARDEN | GBR | 2005 | 2:46.44 | ARDETH MUELLER    | USA | 1991 |
| 10:23.48 | DIANNE FOSTER     | CAN | 1999 | 1:24.34 | L.CRITTENDEN      | USA | 2006 | 2:47.14 | HEATHER CAMPBELL  | NZL | 2005 |
| 10:24.39 | TRACY GRILLI      | USA | 2007 | 1:24.45 | CHRISTIANE HEEREN | GER | 1999 | 400 M.  | I.M.              |     |      |
| 10:25.50 | SUSAN SKIFF       | GER | 2005 | 200 M.  | BRST              |     |      | 5:36.28 | LAURA VAL         | USA | 2002 |
| 10:28.63 | CHRISTIE CIRAULO  | USA | 2004 | 2:57.49 | ULRIKE URBANIAK   | GER | 2003 | 5:43.22 | N.STEADMAN-MARTIN | USA | 2007 |
| 1500 M.  | FREE              |     |      | 2:58.35 | AMANDA HEATH      | GBR | 2007 | 5:44.22 | DANIELLE OGIER    | USA | 2002 |
| 18:59.17 | LAURA VAL         | USA | 2002 | 2:59.41 | KAREN MELICK      | USA | 2007 | 5:51.13 | KATHERINE BRANCH  | USA | 2007 |
| 19:10.69 | KATHERINE BRANCH  | USA | 2007 | 2:59.48 | DANIELLE OGIER    | USA | 2002 | 5:51.84 | LAURA VACA        | MEX | 2003 |
| 19:16.80 | C.TARANTINO       | ITA | 2006 | 3:00.66 | FRANCES PENWARDEN | GBR | 2005 | 5:54.25 | C.TARANTINO       | ITA | 2007 |
| 19:25.47 | N.STEADMAN-MARTIN | USA | 2007 | 3:00.98 | CHRISTIANE HEEREN | GER | 1999 | 5:56.02 | EDIE FISHER       | CAN | 2007 |
| 19:31.34 | BARBARA DUNBAR    | USA | 2000 | 3:01.22 | MELINDA MANN      | USA | 2006 | 5:56.24 | ARDETH MUELLER    | USA | 1991 |
| 19:56.25 | CHRISTIE CIRAULO  | USA | 2004 | 3:01.25 | JENNIFER MERRITT  | GBR | 2002 | 5:56.98 | ATIE PIJTAK       | NED | 2006 |
| 19:59.84 | TRACY GRILLI      | USA | 2007 | 3:02.41 | AVILA RHODES      | CAN | 2007 | 6:01.25 | BARBARA DUNBAR    | USA | 1999 |
| 20:02.75 | KATHI LINDSTROM   | USA | 2005 | 3:03.26 | SUSAN JONES-ROY   | USA | 2001 | *****   |                   |     |      |
| 20:21.69 | SUSAN SKIFF       | GER | 2005 | 50 M.   | FLY               |     |      | *****   |                   |     |      |
| 20:31.44 | ARDETH MUELLER    | USA | 1991 | 30.38   | ANGELA ZINGLER    | GER | 2005 | *****   |                   |     |      |
| 50 M.    | BACK              |     |      | 31.11   | HARUMI SUGINUMA   | JPN | 2007 | *****   |                   |     |      |
| 32.55    | J SWAGERTY-HILL   | USA | 2002 | 31.16   | LAURA VAL         | USA | 2001 | *****   |                   |     |      |
| 32.67    | K.ANDRUS-HUGHES   | USA | 2007 | 31.39   | SACHIKO SAITO     | JPN | 2006 | 50 M.   | FREE              |     |      |
| 32.72    | LAURA VAL         | USA | 2005 | 31.97   | ROBIN PARISI      | USA | 2005 | 28.57   | LAURA VAL         | USA | 2007 |
| 34.05    | JOEL FELDMANN     | USA | 2002 | 31.97   | JOEL FELDMANN     | USA | 2002 | 29.87   | CONNY BOER-BUIJS  | NED | 2005 |
| 34.32    | EVIE LYNCH        | USA | 2005 | 32.41   | STEPHANIE ROLLINS | USA | 2007 | 29.96   | REGULA STEIGER    | SUI | 2007 |
| 34.35    | S.RAMOGER RIGAUD  | FRA | 2007 | 32.50   | ARDETH MUELLER    | USA | 1991 | 30.37   | ARDETH MUELLER    | USA | 1996 |
|          |                   |     |      |         |                   |     |      | 30.56   | JUDY WILSON       | GBR | 2000 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |     |      |                           |     |      |                         |     |      |
|---------------------------|-----|------|---------------------------|-----|------|-------------------------|-----|------|
| 30.59 ROSARIO VIVANCO     | PER | 2005 | 36.10 MARGIT OHLSSON      | SWE | 2003 | 34.48 BARBARA DUNBAR    | USA | 2004 |
| 30.63 COLNY TUCKER        | USA | 2006 | 36.11 HIROMI SATO         | JPN | 1997 | 34.85 CHARLOTTE DAVIS   | USA | 2007 |
| 30.93 YOSHIKO KADOSAKA    | JPN | 2004 | 36.13 MICHIKO KIHARA      | JPN | 2003 | 100 M. FLY              |     |      |
| 31.01 JOEL FELDMANN       | USA | 2006 | 100 M. BACK               |     |      | 1:10.55 LAURA VAL       | USA | 2007 |
| 31.09 KEIKO NAGANO        | JPN | 2007 | 1:13.56 LAURA VAL         | USA | 2007 | 1:12.99 JUDY WILSON     | GBR | 2001 |
| 100 M. FREE               |     |      | 1:16.25 BENEDICTE DUPREZ  | FRA | 2007 | 1:16.31 BARBARA DUNBAR  | USA | 2004 |
| 1:01.54 LAURA VAL         | USA | 2007 | 1:19.09 EVIE LYNCH        | USA | 2007 | 1:18.70 SUSANA BARKLEY  | ESP | 2000 |
| 1:06.51 CONNY BOER-BUIJS  | NED | 2005 | 1:19.20 BA BARNETT-SALLEE | USA | 2001 | 1:18.75 ARDETH MUELLER  | USA | 1997 |
| 1:07.59 BARBARA DUNBAR    | USA | 2004 | 1:19.37 MARGIT OHLSSON    | SWE | 2003 | 1:21.03 M.NEUMEISTER    | GER | 2007 |
| 1:07.96 ROSARIO VIVANCO   | PER | 2005 | 1:19.47 DEBORAH BARTON    | GBR | 2003 | 1:21.21 HARRIET BERGER  | GER | 2002 |
| 1:08.01 CAROL FELLOWS     | GBR | 2001 | 1:19.61 SATOKO TAKEUJI    | JPN | 1997 | 1:21.21 BRIGITTE MERTEN | GER | 2002 |
| 1:08.32 CATHY MERRITT     | CAN | 2007 | 1:20.73 MARGARET WILDING  | GBR | 1997 | 1:21.31 MARILYN EARP    | AUS | 2007 |
| 1:08.70 F WILLIAMSON      | USA | 2003 | 1:20.92 SILVANA ABREU     | BRA | 2000 | 1:22.22 YOSHIKO OSAKI   | JPN | 1994 |
| 1:09.06 BRIGITTE MERTEN   | GER | 2001 | 1:21.52 CATHY MERRITT     | CAN | 2007 | 200 M. FLY              |     |      |
| 1:09.11 CHARLOTTE DAVIS   | USA | 2007 | 200 M. BACK               |     |      | 2:37.51 LAURA VAL       | USA | 2006 |
| 1:09.33 SANDERINA KRUGER  | RSA | 2005 | 2:42.43 LAURA VAL         | USA | 2007 | 2:47.18 BARBARA DUNBAR  | USA | 2004 |
| 200 M. FREE               |     |      | 2:47.09 BENEDICTE DUPREZ  | FRA | 2006 | 2:53.92 JUDY WILSON     | GBR | 2001 |
| 2:15.49 LAURA VAL         | USA | 2007 | 2:51.44 EVIE LYNCH        | USA | 2007 | 2:55.05 ARDETH MUELLER  | USA | 1996 |
| 2:27.59 BARBARA DUNBAR    | USA | 2004 | 2:53.14 ANNE CORK         | GBR | 2006 | 2:57.45 M.NEUMEISTER    | GER | 2007 |
| 2:28.30 ARDETH MUELLER    | USA | 1996 | 2:55.63 JANETTE JEFFREY   | AUS | 2005 | 2:58.57 SUSANA BARKLEY  | ESP | 2001 |
| 2:29.54 CONNY BOER-BUIJS  | NED | 2005 | 2:56.19 ANNE LABORWIT     | USA | 2005 | 3:08.77 JULIE CRAYFORD  | GBR | 2004 |
| 2:30.99 CAROL FELLOWS     | GBR | 2001 | 2:56.86 MARIA BALLA       | FRA | 2001 | 3:09.24 MIRA GUGLIELMI  | ITA | 2007 |
| 2:31.52 ROSARIO VIVANCO   | PER | 2005 | 2:57.57 VICKI SERIANNI    | USA | 2006 | 3:09.43 YOSHIKO OSAKI   | JPN | 1995 |
| 2:32.11 ANNE LABORWIT     | USA | 2005 | 2:58.08 DEBORAH BARTON    | GBR | 2003 | 3:14.20 MARILYN EARP    | AUS | 2007 |
| 2:32.29 F WILLIAMSON      | USA | 2003 | 2:58.14 JUDY HUMBARGER    | USA | 2007 | 100 M. I.M.             |     |      |
| 2:32.63 BRIGITTE MERTEN   | GER | 2002 | 2:58.14 JACKIE MARR       | USA | 2000 | 1:13.84 LAURA VAL       | USA | 2007 |
| 2:32.96 DANIELLE OGIER    | USA | 2007 | 50 M. BRST                |     |      | 1:17.48 BRIGITTE MERTEN | GER | 2002 |
| 400 M. FREE               |     |      | 38.32 JAN WICKS           | AUS | 2001 | 1:19.02 CAROLYN BOAK    | USA | 2001 |
| 4:47.03 LAURA VAL         | USA | 2007 | 38.63 MONIKA SENFTLEBEN   | GER | 1998 | 1:19.41 CATHY MERRITT   | CAN | 2007 |
| 5:01.53 BARBARA DUNBAR    | USA | 2004 | 38.73 YVONNE CATTRALL     | CAN | 2005 | 1:19.78 HARRIET BERGER  | GER | 2002 |
| 5:15.91 ARDETH MUELLER    | USA | 1996 | 39.01 BONNIE PRONK        | CAN | 1998 | 1:20.00 YVONNE LEONOV   | ISR | 2003 |
| 5:19.25 NANCY RIDOUT      | USA | 1999 | 39.35 DALE BARNHARD       | USA | 2003 | 1:20.37 CAROL FELLOWS   | GBR | 2001 |
| 5:21.44 ANNE LABORWIT     | USA | 2005 | 39.41 REGULA STEIGER      | SUI | 2007 | 1:20.69 JANETTE JEFFREY | AUS | 2007 |
| 5:21.45 DANIELLE OGIER    | USA | 2007 | 39.47 BARBARA HUMMEL      | USA | 2007 | 1:20.81 DANIELLE OGIER  | USA | 2007 |
| 5:22.59 F WILLIAMSON      | USA | 2003 | 39.64 RENATE ZSCHOCKELT   | GER | 1998 | 1:20.81 SUSANA BARKLEY  | ESP | 2000 |
| 5:25.22 MARGARETA RAINER  | SWE | 2004 | 39.89 JENNIFER MERRITT    | GBR | 2006 | 200 M. I.M.             |     |      |
| 5:28.84 SUSAN HAIGH       | GBR | 2007 | 39.99 BRIGITTE KUHL       | GER | 2007 | 2:40.70 LAURA VAL       | USA | 2007 |
| 5:29.06 SUSANA BARKLEY    | ESP | 2000 | 100 M. BRST               |     |      | 2:51.08 BRIGITTE MERTEN | GER | 2004 |
| 800 M. FREE               |     |      | 1:25.63 YVONNE CATTRALL   | CAN | 2005 | 2:52.43 ARDETH MUELLER  | USA | 1997 |
| 9:54.40 LAURA VAL         | USA | 2007 | 1:25.66 REGULA STEIGER    | SUI | 2007 | 2:53.85 JANETTE JEFFREY | AUS | 2006 |
| 10:17.86 BARBARA DUNBAR   | USA | 2004 | 1:25.92 BONNIE PRONK      | CAN | 1997 | 2:54.70 CATHY MERRITT   | CAN | 2007 |
| 10:49.51 DANIELLE OGIER   | USA | 2007 | 1:26.01 JENNIFER MERRITT  | GBR | 2006 | 2:56.12 BARBARA DUNBAR  | USA | 2004 |
| 10:56.19 ARDETH MUELLER   | USA | 2000 | 1:26.33 DALE BARNHARD     | USA | 2003 | 2:56.37 CHARLOTTE DAVIS | USA | 2007 |
| 11:04.01 JEN THOMASSON    | AUS | 1998 | 1:27.94 BARBARA HUMMEL    | USA | 2007 | 2:57.20 DANIELLE OGIER  | USA | 2007 |
| 11:10.25 MARGARETA RAINER | SWE | 2005 | 1:27.95 GINGER PIERSON    | USA | 2003 | 2:57.53 YOSHIKO OSAKI   | JPN | 1993 |
| 11:12.41 ANNE LABORWIT    | USA | 2005 | 1:28.13 FLORA CONNOLLY    | GBR | 1990 | 2:58.20 SUSANA BARKLEY  | ESP | 2000 |
| 11:13.84 SUSAN HAIGH      | GBR | 2007 | 1:28.19 DEB WALKER        | USA | 2007 | 400 M. I.M.             |     |      |
| 11:14.06 HELLA VERSVELD   | CAN | 2005 | 1:28.69 MONIKA SENFTLEBEN | GER | 1997 | 5:43.32 LAURA VAL       | USA | 2007 |
| 11:17.98 HEIDI ERNST      | USA | 2007 | 200 M. BRST               |     |      | 6:04.58 BARBARA DUNBAR  | USA | 2004 |
| 1500 M. FREE              |     |      | 3:06.41 JENNIFER MERRITT  | GBR | 2006 | 6:09.78 BRIGITTE MERTEN | GER | 2002 |
| 19:20.76 LAURA VAL        | USA | 2006 | 3:08.87 BONNIE PRONK      | CAN | 1997 | 6:10.45 CHARLOTTE DAVIS | USA | 2007 |
| 19:24.70 BARBARA DUNBAR   | USA | 2004 | 3:10.93 HANNELORE ROSE    | GER | 1999 | 6:11.73 JEN THOMASSON   | AUS | 1998 |
| 20:49.11 JEN THOMASSON    | AUS | 1998 | 3:11.28 ELAINE BROMWICH   | GBR | 1997 | 6:12.91 ARDETH MUELLER  | USA | 2000 |
| 21:20.29 SUSAN HAIGH      | GBR | 2007 | 3:12.11 CATHY MERRITT     | CAN | 2007 | 6:14.01 MIRA GUGLIELMI  | ITA | 2007 |
| 21:32.76 HELLA VERSVELD   | CAN | 2005 | 3:12.18 DALE BARNHARD     | USA | 2003 | 6:17.37 JULIE CRAYFORD  | GBR | 2003 |
| 21:35.84 LAVELLE STOINOFF | USA | 1989 | 3:12.85 FLORA CONNOLLY    | GBR | 1990 | 6:17.87 JANETTE JEFFREY | AUS | 2007 |
| 21:42.72 MIRA GUGLIELMI   | ITA | 2007 | 3:12.90 DEB WALKER        | USA | 2007 | 6:22.53 JACKIE MARR     | USA | 2000 |
| 21:52.77 JULIE CRAYFORD   | GBR | 2003 | 3:13.70 JEN THOMASSON     | AUS | 1999 | *****                   |     |      |
| 21:53.06 JACKIE MARR      | USA | 2001 | 3:14.71 JOANN LEILICH     | USA | 1997 | WOMEN 60-64             |     |      |
| 21:56.12 MARCIA BARRY     | USA | 2003 | 50 M. FLY                 |     |      | *****                   |     |      |
| 50 M. BACK                |     |      | 31.79 LAURA VAL           | USA | 2006 | 50 M. FREE              |     |      |
| 32.95 LAURA VAL           | USA | 2007 | 31.92 JUDY WILSON         | GBR | 2000 | 31.39 LYNETTE STEVENSON | AUS | 2006 |
| 34.76 BENEDICTE DUPREZ    | FRA | 2007 | 33.66 CONNY BOER-BUIJS    | NED | 2005 | 31.84 JUDY WILSON       | GBR | 2004 |
| 35.00 DEBORAH BARTON      | GBR | 2004 | 33.66 ARDETH MUELLER      | USA | 1997 | 32.04 KAYE BEER         | AUS | 2006 |
| 35.82 SILVANA NABUCO      | BRA | 1998 | 33.76 YOSHIKO KADOSAKA    | JPN | 2004 | 32.09 CAROLYN BOAK      | USA | 2006 |
| 35.88 SATOKO TAKEUJI      | JPN | 1997 | 33.85 YVONNE LEONOV       | ISR | 2003 | 32.15 CHRISTEL SCHULZ   | GER | 2003 |
| 36.02 CAROL FELLOWS       | GBR | 2001 | 33.90 JOEL FELDMANN       | USA | 2006 | 32.55 YOSHIKO OSAKI     | JPN | 2002 |
| 36.07 BA BARNETT-SALLEE   | USA | 2001 | 34.36 DEBORAH BARTON      | GBR | 2004 |                         |     |      |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                            |     |      |                           |     |      |                           |          |
|----------------------------|-----|------|---------------------------|-----|------|---------------------------|----------|
| 32.75 JEN THOMASSON        | AUS | 2005 | 38.74 BETSY JORDAN        | USA | 1997 | 100 M. FLY                |          |
| 32.92 JACKIE MARR          | USA | 2003 | 38.77 PENELOPE STEELE     | AUS | 2007 | 1:16.41 JUDY WILSON       | GBR 2004 |
| 33.07 JAYNE BRUNER         | USA | 1995 | 100 M. BACK               |     |      | 1:21.22 BRIGITTE MERTEN   | GER 2006 |
| 33.12 JOY WARD             | USA | 2002 | 1:20.02 MARGIT OHLSSON    | SWE | 2006 | 1:21.87 HARRIET BERGER    | GER 2004 |
| 100 M. FREE                |     |      | 1:21.06 SATOKO TAKEUJI    | JPN | 2003 | 1:23.78 YOSHIKO OSAKI     | JPN 1999 |
| 1:10.53 JUDY WILSON        | GBR | 2004 | 1:21.74 MARGARET WILDING  | GBR | 2002 | 1:27.62 CHRISTEL SCHULZ   | GER 2000 |
| 1:11.03 CAROLYN BOAK       | USA | 2006 | 1:23.58 HIROMI SATO       | JPN | 2002 | 1:28.78 BONNIE PRONK      | CAN 2003 |
| 1:11.41 CHRISTEL SCHULZ    | GER | 2001 | 1:24.16 BETSY JORDAN      | USA | 1997 | 1:28.81 SUSANA BARKLEY    | ESP 2005 |
| 1:11.56 YOSHIKO OSAKI      | JPN | 2001 | 1:24.36 LYNETTE STEVENSON | AUS | 2007 | 1:29.15 HEIKE HOLER       | GER 1996 |
| 1:12.06 JEN THOMASSON      | AUS | 2004 | 1:24.58 PENNY STEELE      | AUS | 2006 | 1:29.70 HANNELORE ROSE    | GER 2002 |
| 1:12.20 BRIGITTE MERTEN    | GER | 2006 | 1:24.63 BONNIE PRONK      | CAN | 2002 | 1:29.70 CHRISTINE PARFECT | GBR 2001 |
| 1:12.39 JACKIE MARR        | USA | 2003 | 1:25.41 SILVANA ABREU     | BRA | 2001 | 200 M. FLY                |          |
| 1:13.23 CAROL FELLOWS      | GBR | 2006 | 1:26.18 JULIE GUNTHERP    | NZL | 2007 | 3:05.20 YOSHIKO OSAKI     | JPN 2000 |
| 1:13.50 JAYNE BRUNER       | USA | 1996 | 200 M. BACK               |     |      | 3:07.04 JUDY WILSON       | GBR 2004 |
| 1:14.09 LYNETTE STEVENSON  | AUS | 2006 | 2:56.06 BONNIE PRONK      | CAN | 2002 | 3:13.71 ARDETH MUELLER    | USA 2004 |
| 200 M. FREE                |     |      | 2:57.92 MARGARET WILDING  | GBR | 2000 | 3:21.73 JUDIE OLIVER      | CAN 1992 |
| 2:38.32 YOSHIKO OSAKI      | JPN | 1999 | 2:58.33 MARGIT OHLSSON    | SWE | 2007 | 3:23.67 GINGER PIERSON    | USA 2006 |
| 2:38.37 JUDY WILSON        | GBR | 2004 | 3:01.86 JACKIE MARR       | USA | 2003 | 3:24.49 BONNIE PRONK      | CAN 2003 |
| 2:39.92 LAVELLE STOINOFF   | USA | 1993 | 3:04.06 JULIE GUNTHERP    | NZL | 2007 | 3:25.79 LINDA MACPHERSON  | CAN 1998 |
| 2:39.96 JACKIE MARR        | USA | 2003 | 3:05.27 BETSY JORDAN      | USA | 1997 | 3:26.26 JACKIE MARR       | USA 2004 |
| 2:41.02 CAROLYN BOAK       | USA | 2006 | 3:05.82 CHRISTEL SCHULZ   | GER | 2004 | 3:26.34 SARAH WELCH       | USA 2007 |
| 2:41.83 CAROL FELLOWS      | GBR | 2006 | 3:06.88 SILVANA ABREU     | BRA | 2001 | 3:27.26 SILVANA ABREU     | BRA 2004 |
| 2:42.41 ARDETH MUELLER     | USA | 2005 | 3:07.41 JEN THOMASSON     | AUS | 2006 | 100 M. I.M.               |          |
| 2:43.87 JEN THOMASSON      | AUS | 2006 | 3:08.97 MARY POHLMANN     | USA | 2005 | 1:19.09 BRIGITTE MERTEN   | GER 2006 |
| 2:44.11 SUZANNE DILLS      | USA | 2005 | 50 M. BRST                |     |      | 1:21.05 BONNIE PRONK      | CAN 2002 |
| 2:45.66 CHRISTEL SCHULZ    | GER | 2001 | 38.60 MONIKA SENFTLEBEN   | GER | 2002 | 1:21.20 HARRIET BERGER    | GER 2004 |
| 400 M. FREE                |     |      | 38.97 BONNIE PRONK        | CAN | 2002 | 1:21.51 MARIE FUHRMANN    | FRA 2007 |
| 5:27.75 JACKIE MARR        | USA | 2003 | 39.77 JAN WICKS           | AUS | 2006 | 1:22.57 YOSHIKO OSAKI     | JPN 2000 |
| 5:30.24 YOSHIKO OSAKI      | JPN | 2000 | 40.98 HANNELORE ROSE      | GER | 2002 | 1:22.69 MARGIT OHLSSON    | SWE 2007 |
| 5:38.06 LAVELLE STOINOFF   | USA | 1993 | 41.27 GINGER PIERSON      | USA | 2006 | 1:22.92 LYNETTE STEVENSON | AUS 2006 |
| 5:38.72 ARDETH MUELLER     | USA | 2004 | 41.35 JOANN LEILICH       | USA | 2000 | 1:23.00 CHRISTEL SCHULZ   | GER 2002 |
| 5:45.96 JEN THOMASSON      | AUS | 2007 | 41.35 ELAINE BROMWICH     | GBR | 2004 | 1:24.82 SILVANA ABREU     | BRA 2002 |
| 5:46.39 CAROL FELLOWS      | GBR | 2006 | 41.74 JAYNE BRUNER        | USA | 1996 | 1:24.91 JACKIE MARR       | USA 2003 |
| 5:46.84 LINDA SHOENBERGER  | USA | 2007 | 41.84 NOBUKO YASUDA       | JPN | 2006 | 200 M. I.M.               |          |
| 5:50.14 JUDY WILSON        | GBR | 2004 | 41.86 JUDY ALDEN          | GBR | 2007 | 2:54.07 CAROLE BATES      | GBR 1998 |
| 5:51.07 CHRISTEL SCHULZ    | GER | 2004 | 100 M. BRST               |     |      | 2:55.72 BONNIE PRONK      | CAN 2002 |
| 5:52.58 SUSANA BARKLEY     | ESP | 2005 | 1:26.43 HANNELORE ROSE    | GER | 2002 | 2:57.46 HARRIET BERGER    | GER 2004 |
| 800 M. FREE                |     |      | 1:26.56 BONNIE PRONK      | CAN | 2002 | 2:59.95 YOSHIKO OSAKI     | JPN 1998 |
| 11:18.60 YOSHIKO OSAKI     | JPN | 2000 | 1:29.68 MONIKA SENFTLEBEN | GER | 2002 | 3:03.22 JACKIE MARR       | USA 2003 |
| 11:24.28 ARDETH MUELLER    | USA | 2004 | 1:30.41 NOBUKO YASUDA     | JPN | 2006 | 3:03.36 MARGIT OHLSSON    | SWE 2006 |
| 11:30.55 LAVELLE STOINOFF  | USA | 1993 | 1:30.58 JOANN LEILICH     | USA | 2000 | 3:04.75 SILVANA ABREU     | BRA 2002 |
| 11:34.09 JACKIE MARR       | USA | 2004 | 1:30.76 DIANE FORD        | GBR | 2007 | 3:04.83 CHRISTEL SCHULZ   | GER 2001 |
| 11:48.52 JEN THOMASSON     | AUS | 2005 | 1:31.01 GINGER PIERSON    | USA | 2006 | 3:07.92 NOBUKO YASUDA     | JPN 2005 |
| 11:53.88 SUZANNE DILLS     | USA | 2005 | 1:32.20 ELAINE BROMWICH   | GBR | 2002 | 3:08.69 JEN THOMASSON     | AUS 2006 |
| 11:56.74 LINDA SHOENBERGER | USA | 2007 | 1:33.20 ROTRAUD PALMER    | GBR | 2001 | 400 M. I.M.               |          |
| 12:01.84 BONNIE PRONK      | CAN | 2003 | 1:33.64 MASAYO AZUMA      | JPN | 1998 | 6:25.24 BONNIE PRONK      | CAN 2002 |
| 12:05.86 HANNELORE ROSE    | GER | 2005 | 200 M. BRST               |     |      | 6:27.20 JACKIE MARR       | USA 2003 |
| 12:06.07 JUDY WILSON       | GBR | 2007 | 3:06.48 BONNIE PRONK      | CAN | 2002 | 6:27.23 HANNELORE ROSE    | GER 2002 |
| 1500 M. FREE               |     |      | 3:07.44 HANNELORE ROSE    | GER | 2002 | 6:28.22 YOSHIKO OSAKI     | JPN 1999 |
| 21:33.34 JACKIE MARR       | USA | 2003 | 3:18.15 DIANE FORD        | GBR | 2005 | 6:41.60 JEN THOMASSON     | AUS 2007 |
| 21:59.83 YOSHIKO OSAKI     | JPN | 1998 | 3:18.20 NOBUKO YASUDA     | JPN | 2005 | 6:48.57 JUDIE OLIVER      | CAN 1993 |
| 22:16.92 LINDA SHOENBERGER | USA | 2007 | 3:18.25 JOANN LEILICH     | USA | 2001 | 6:50.30 SUZANNE DILLS     | USA 2005 |
| 22:23.62 BARNI WARNHURST   | CAN | 1988 | 3:20.65 ELAINE BROMWICH   | GBR | 2003 | 6:55.79 JULIE GUNTHERP    | NZL 2007 |
| 22:54.51 LAVELLE STOINOFF  | USA | 1994 | 3:20.83 MASAYO AZUMA      | JPN | 1998 | 6:56.43 RUTH SHAPS        | USA 2007 |
| 22:59.19 BONNIE PRONK      | CAN | 2003 | 3:21.22 MONIKA SENFTLEBEN | GER | 2002 | 6:56.67 MARGOT PETTIJOHN  | USA 2007 |
| 23:02.23 JUDY WILSON       | GBR | 2007 | 3:22.80 LUISE KNOPFLE     | GER | 2001 | *****                     |          |
| 23:28.15 CLARA WALKER      | USA | 1990 | 3:23.56 YOSHIE OGASAWARA  | JPN | 2006 | WOMEN 65-69               |          |
| 23:28.88 ELAINE BLOWER     | GBR | 2007 | 50 M. FLY                 |     |      | *****                     |          |
| 23:29.04 PENNY WEBSTER     | GBR | 2002 | 33.38 JUDY WILSON         | GBR | 2004 | 50 M. FREE                |          |
| 50 M. BACK                 |     |      | 35.03 MICHIE DOI          | JPN | 2005 | 31.91 HEIDE LORBERG       | GER 2004 |
| 36.27 LYNETTE STEVENSON    | AUS | 2006 | 36.00 BRIGITTE MERTEN     | GER | 2006 | 32.25 CHRISTEL SCHULZ     | GER 2005 |
| 36.38 SATOKO TAKEUJI       | JPN | 2002 | 36.00 HARRIET BERGER      | GER | 2004 | 32.77 PAM HUTCHINGS       | AUS 2002 |
| 36.42 MARGIT OHLSSON       | SWE | 2005 | 36.04 YOSHIKO OSAKI       | JPN | 1999 | 33.09 YOSHIKO OSAKI       | JPN 2005 |
| 36.92 MARGARET WILDING     | GBR | 2000 | 36.27 JOY WARD            | USA | 2002 | 34.04 OLGA KREJCI         | SUI 2002 |
| 36.99 SILVANA ABREU        | BRA | 2003 | 36.31 JAN WICKS           | AUS | 2006 | 34.07 TOSHIE NODA         | JPN 2007 |
| 37.36 HIROMI SATO          | JPN | 2004 | 36.43 SILVANA ABREU       | BRA | 2002 | 34.17 GAIL ROPER          | USA 1996 |
| 37.71 PENNY STEELE         | AUS | 2006 | 36.72 CHRISTEL SCHULZ     | GER | 2004 | 34.33 SIGRID KOCH         | GER 2007 |
| 38.57 HELEN TRIPPE         | GBR | 2007 | 36.72 ARDETH MUELLER      | USA | 2004 |                           |          |



# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 34.34 JANE ASHER          | GBR 1997 | 100 M. BACK               |          | 1:25.28 YOSHIKO OSAKI     | JPN 2003 |
| 34.38 ODETTE LUSIEN       | FRA 1993 | 1:25.00 BONNIE PRONK      | CAN 2007 | 1:29.13 CHRISTEL SCHULZ   | GER 2006 |
| 100 M. FREE               |          | 1:25.53 PAM HUTCHINGS     | AUS 2001 | 1:31.92 HELGA REICH       | GER 2001 |
| 1:10.97 CHRISTEL SCHULZ   | GER 2005 | 1:25.61 SILVANA ABREU     | BRA 2006 | 1:33.07 CHRISTINE PERFECT | GBR 2004 |
| 1:13.48 YOSHIKO OSAKI     | JPN 2004 | 1:26.96 BETSY JORDAN      | USA 2002 | 1:33.10 GAIL ROPER        | USA 1995 |
| 1:16.26 GAIL ROPER        | USA 1996 | 1:28.80 CHRISTEL SCHULZ   | GER 2006 | 1:33.27 JUDIE OLIVER      | CAN 1997 |
| 1:17.02 PAM HUTCHINGS     | AUS 2001 | 1:28.82 V. JOHANSSON      | SWE 2001 | 1:34.83 HAIKE HOLER       | GER 2002 |
| 1:17.08 JANE ASHER        | GBR 1997 | 1:30.41 DORIS STEADMAN    | USA 1989 | 1:34.93 HISAKO SATO       | JPN 2001 |
| 1:19.69 V. JOHANSSON      | SWE 2002 | 1:31.22 JOY WARD          | USA 2007 | 1:35.28 LYNN LUND         | USA 2005 |
| 1:19.78 BETH SCHREINER    | USA 2007 | 1:31.33 GRETHE BENDTSEN   | DEN 1995 | 1:35.71 BONNIE PRONK      | CAN 2007 |
| 1:19.87 HELGA REICH       | GER 2002 | 1:32.03 JANET BROWN       | GBR 2006 | 200 M. FLY                |          |
| 1:20.28 JAYNE BRUNER      | USA 2000 | 200 M. BACK               |          | 3:17.36 YOSHIKO OSAKI     | JPN 2003 |
| 1:20.77 CLARA WALKER      | USA 1996 | 3:01.88 BONNIE PRONK      | CAN 2007 | 3:28.93 HELGA REICH       | GER 2002 |
| 200 M. FREE               |          | 3:08.42 CHRISTEL SCHULZ   | GER 2006 | 3:29.98 SILVANA ABREU     | BRA 2006 |
| 2:42.05 YOSHIKO OSAKI     | JPN 2004 | 3:08.61 PAM HUTCHINGS     | AUS 2001 | 3:31.98 FLORA CONNOLLY    | GBR 1999 |
| 2:44.02 CHRISTEL SCHULZ   | GER 2005 | 3:12.09 SILVANA ABREU     | BRA 2006 | 3:32.93 JUNE KRAUSER      | USA 1995 |
| 2:47.42 PAM HUTCHINGS     | AUS 2002 | 3:15.36 BETSY JORDAN      | USA 2002 | 3:33.38 JUDIE OLIVER      | CAN 1997 |
| 2:50.40 JANE ASHER        | GBR 1997 | 3:15.72 DORIS STEADMAN    | USA 1989 | 3:35.80 GAIL ROPER        | USA 1995 |
| 2:53.83 SILVANA ABREU     | BRA 2006 | 3:17.17 JOY WARD          | USA 2007 | 3:38.27 BONNIE PRONK      | CAN 2007 |
| 2:54.15 GAIL ROPER        | USA 1996 | 3:18.33 V. JOHANSSON      | SWE 2002 | 3:42.91 JOY WARD          | USA 2007 |
| 2:55.17 HANNELORE ROSE    | GER 2007 | 3:18.42 FLORA CONNOLLY    | GBR 1999 | 3:42.95 LYNN LUND         | USA 2005 |
| 2:55.27 LINDA MACPHERSON  | CAN 2004 | 3:20.51 KAZUKO ITO        | JPN 2007 | 100 M. I.M.               |          |
| 2:55.51 LAVELLE STOINOFF  | USA 2002 | 50 M. BRST                |          | 1:24.95 YOSHIKO OSAKI     | JPN 2005 |
| 2:56.41 HELGA REICH       | GER 2001 | 41.55 BONNIE PRONK        | CAN 2007 | 1:25.00 CHRISTEL SCHULZ   | GER 2005 |
| 400 M. FREE               |          | 41.65 MONIKA SENFTLEBEN   | GER 2007 | 1:27.69 BONNIE PRONK      | CAN 2007 |
| 5:46.94 YOSHIKO OSAKI     | JPN 2003 | 42.35 JOANN LEILICH       | USA 2005 | 1:28.61 SHOKO YONEZAWA    | JPN 2001 |
| 5:56.24 CHRISTEL SCHULZ   | GER 2006 | 43.07 SHOKO YONEZAWA      | JPN 2002 | 1:28.95 GAIL ROPER        | USA 1996 |
| 5:59.10 LAVELLE STOINOFF  | USA 2002 | 43.27 ELIANE PELLIS       | BEL 1998 | 1:29.34 SILVANA ABREU     | BRA 2006 |
| 6:00.99 JANE ASHER        | GBR 1996 | 43.83 ROTRAUD PALMER      | GBR 2006 | 1:30.38 KEIKO YAMADA      | JPN 2003 |
| 6:01.13 HANNELORE ROSE    | GER 2007 | 43.87 A. LEENE-RODAHL     | NZL 1999 | 1:30.70 JANE ASHER        | GBR 1996 |
| 6:01.13 V. JOHANSSON      | SWE 2001 | 44.13 YOSHIKO OSAKI       | JPN 2003 | 1:32.30 JOANN LEILICH     | USA 2005 |
| 6:02.93 HELGA REICH       | GER 2001 | 44.55 JAYNE BRUNER        | USA 2000 | 1:32.95 KAZUKO ITO        | JPN 2007 |
| 6:09.48 BONNIE PRONK      | CAN 2007 | 44.57 ELAINE BROMWICH     | GBR 2007 | 200 M. I.M.               |          |
| 6:13.42 CLARA WALKER      | USA 1992 | 44.57 LUISE KNOPFLE       | GER 2004 | 3:06.37 YOSHIKO OSAKI     | JPN 2004 |
| 6:13.84 SARAH KOPSKY      | USA 2006 | 100 M. BRST               |          | 3:10.11 HANNELORE ROSE    | GER 2007 |
| 800 M. FREE               |          | 1:31.87 BONNIE PRONK      | CAN 2007 | 3:10.12 BONNIE PRONK      | CAN 2007 |
| 11:49.70 YOSHIKO OSAKI    | JPN 2003 | 1:32.37 JOANN LEILICH     | USA 2004 | 3:15.59 FLORA CONNOLLY    | GBR 2000 |
| 12:20.68 LAVELLE STOINOFF | USA 2002 | 1:33.03 HANNELORE ROSE    | GER 2007 | 3:18.77 CLARA WALKER      | USA 1991 |
| 12:26.85 JANE ASHER       | GBR 1999 | 1:33.89 LUISE KNOPFLE     | GER 2004 | 3:19.06 GAIL ROPER        | USA 1996 |
| 12:34.61 BONNIE PRONK     | CAN 2007 | 1:34.50 MASAYO AZUMA      | JPN 2000 | 3:19.87 JANE ASHER        | GBR 1996 |
| 12:35.26 CLARA WALKER     | USA 1992 | 1:36.24 SHOKO YONEZAWA    | JPN 2001 | 3:20.86 SILVANA ABREU     | BRA 2006 |
| 12:36.40 HELGA REICH      | GER 2002 | 1:36.45 FLORA CONNOLLY    | GBR 1998 | 3:21.73 KAZUKO ITO        | JPN 2007 |
| 12:44.20 SARAH KOPSKY     | USA 2006 | 1:36.52 ELIANE PELLIS     | BEL 1998 | 3:24.04 SHOKO YONEZAWA    | JPN 2001 |
| 12:49.22 LINDA MACPHERSON | CAN 2003 | 1:36.57 YOSHIKO OSAKI     | JPN 2003 | 400 M. I.M.               |          |
| 12:51.30 V. JOHANSSON     | SWE 2003 | 1:37.10 MONIKA SENFTLEBEN | GER 2007 | 6:34.95 YOSHIKO OSAKI     | JPN 2003 |
| 12:53.15 FLORA CONNOLLY   | GBR 2000 | 200 M. BRST               |          | 6:49.48 BONNIE PRONK      | CAN 2007 |
| 1500 M. FREE              |          | 3:17.44 JOANN LEILICH     | USA 2004 | 6:57.58 FLORA CONNOLLY    | GBR 2000 |
| 22:35.98 YOSHIKO OSAKI    | JPN 2004 | 3:20.83 LUISE KNOPFLE     | GER 2004 | 7:01.55 JUDIE OLIVER      | CAN 1999 |
| 23:38.44 CLARA WALKER     | USA 1992 | 3:23.72 BONNIE PRONK      | CAN 2007 | 7:07.28 SILVANA ABREU     | BRA 2006 |
| 23:44.34 JANE ASHER       | GBR 1996 | 3:24.31 MASAYO AZUMA      | JPN 2000 | 7:07.69 GAIL ROPER        | USA 1996 |
| 23:54.51 BONNIE PRONK     | CAN 2007 | 3:26.40 FLORA CONNOLLY    | GBR 2000 | 7:12.40 HELGA REICH       | GER 2003 |
| 24:11.37 SILVANA ABREU    | BRA 2006 | 3:26.55 YOSHIKO OSAKI     | JPN 2004 | 7:13.26 JUNE KRAUSER      | USA 1995 |
| 24:12.34 HELGA REICH      | GER 2002 | 3:29.02 LOTTE MULLER      | GER 1999 | 7:20.51 LYNN LUND         | USA 2005 |
| 24:31.69 SUSAN MUNN       | USA 2003 | 3:29.93 ELIANE PELLIS     | BEL 1998 | 7:20.69 BETSY JORDAN      | USA 2002 |
| 24:41.83 JUNE KRAUSER     | USA 1991 | 3:31.44 TAYO FUJIEDA      | JPN 2002 | *****                     |          |
| 24:43.59 REIKO ISHIZAKI   | JPN 2005 | 3:32.00 SHOKO YONEZAWA    | JPN 2000 | WOMEN 70-74               |          |
| 25:07.47 BARBARA FENTIMAN | GBR 2003 | 50 M. FLY                 |          | *****                     |          |
| 50 M. BACK                |          | 36.36 CHRISTEL SCHULZ     | GER 2005 | 50 M. FREE                |          |
| 37.47 SILVANA ABREU       | BRA 2006 | 36.79 YOSHIKO OSAKI       | JPN 2003 | 33.86 JANE ASHER          | GBR 2004 |
| 37.63 SATOKO TAKEUJI      | JPN 2007 | 38.06 JOY WARD            | USA 2007 | 35.14 GERD DURRE          | GER 2006 |
| 38.25 PAM HUTCHINGS       | AUS 2001 | 38.09 HISAKO SATO         | JPN 2000 | 35.37 GAIL ROPER          | USA 1999 |
| 39.11 BONNIE PRONK        | CAN 2007 | 38.44 GAIL ROPER          | USA 1995 | 35.60 FUSAKO HIROOKA      | JPN 2007 |
| 39.65 HIROMI SATO         | JPN 2007 | 38.46 HAIKE HOLER         | GER 2004 | 35.86 PAM HUTCHINGS       | AUS 2006 |
| 40.11 BETSY JORDAN        | USA 2003 | 38.72 HARUMI SUGIMOTO     | JPN 2003 | 36.13 OLGAKREJCI          | SUI 2007 |
| 40.48 DORIS STEADMAN      | USA 1989 | 38.78 SARAH KOPSKY        | USA 2006 | 36.34 HISAKO SATO         | JPN 2006 |
| 41.05 CHRISTEL SCHULZ     | GER 2005 | 38.91 SILVANA ABREU       | BRA 2006 | 36.87 LOTTIE GEURTS       | NED 2007 |
| 41.72 V. JOHANSSON        | SWE 2001 | 39.11 JANE ASHER          | GBR 1998 | 36.87 SHOKO YONEZAWA      | JPN 2005 |
| 41.82 JOY WARD            | USA 2007 | 100 M. FLY                |          |                           |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|              |                   |     |      |             |                  |     |      |             |                  |     |      |
|--------------|-------------------|-----|------|-------------|------------------|-----|------|-------------|------------------|-----|------|
| 36.94        | JOHNNIE DETRICK   | USA | 2005 | 1:29.93     | BETSY JORDAN     | USA | 2007 | 1:34.86     | HELGA REICH      | GER | 2006 |
| 100 M. FREE  |                   |     |      | 1:31.24     | SHOKO YONEZAWA   | JPN | 2005 | 1:37.56     | GAIL ROPER       | USA | 1999 |
| 1:16.45      | JANE ASHER        | GBR | 2004 | 1:31.31     | V. JOHANSSON     | SWE | 2005 | 1:38.39     | HAIKE HOLER      | GER | 2006 |
| 1:18.67      | GAIL ROPER        | USA | 1999 | 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 | 1:35.27     | JANE ASHER       | GBR | 2001 | 1:40.20     | JUNE KRAUSER     | USA | 1996 |
| 1:22.18      | PAM HUTCHINGS     | AUS | 2007 | 1:35.66     | DORIS STEADMAN   | USA | 1995 | 1:47.18     | SYLVIA NEUHAUSER | AUT | 2000 |
| 1:22.99      | LOTTIE GEURTS     | NED | 2006 | 1:36.33     | MISAO MATSUMOTO  | JPN | 2007 | 1:48.55     | ANN HIRSCH       | USA | 2001 |
| 1:23.35      | SHOKO YONEZAWA    | JPN | 2006 | 1:36.72     | PAM HUTCHINGS    | AUS | 2006 | 1:49.82     | TRICIA LIDDY     | AUS | 2006 |
| 1:23.56      | NANCY BROWN       | USA | 2006 | 1:37.09     | JOAN PARNELL     | CAN | 1999 | 200 M. FLY  |                  |     |      |
| 1:23.98      | HISAKO SATO       | JPN | 2006 | 200 M. BACK |                  |     |      | 3:37.23     | HELGA REICH      | GER | 2006 |
| 1:24.69      | BARBARA FENTIMAN  | GBR | 2004 | 3:18.61     | V. JOHANSSON     | SWE | 2005 | 3:38.39     | JUNE KRAUSER     | USA | 1996 |
| 200 M. FREE  |                   |     |      | 3:20.96     | JANE ASHER       | GBR | 2001 | 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 | 3:27.79     | DORIS STEADMAN   | USA | 1995 | 3:55.59     | JUDIE OLIVER     | CAN | 2004 |
| 2:58.06      | GAIL ROPER        | USA | 2000 | 3:29.29     | JUDIE OLIVER     | CAN | 2002 | 3:58.01     | BETTY RUSS       | USA | 1997 |
| 3:00.93      | NANCY BROWN       | USA | 2006 | 3:31.10     | BETSY JORDAN     | USA | 2007 | 4:03.04     | SYLVIA EISELE    | CAN | 2000 |
| 3:01.98      | MAREN PISKORA     | GER | 2007 | 3:31.52     | PAM HUTCHINGS    | AUS | 2006 | 4:03.47     | HISAKO SATO      | JPN | 2006 |
| 3:04.77      | JEAN TROY         | USA | 1998 | 3:34.00     | GRETHE BENDTSEN  | DEN | 2002 | 4:05.29     | LOIS NOCHMAN     | USA | 1998 |
| 3:06.05      | HISAKO SATO       | JPN | 2006 | 3:35.27     | EVA JAROSOVA     | CZE | 2006 | 4:06.93     | ANN HIRSCH       | USA | 2001 |
| 3:06.44      | RONNIE KAMPHAUSEN | USA | 2004 | 3:35.41     | NANCY MACBETH    | USA | 1999 | 100 M. I.M. |                  |     |      |
| 3:06.86      | LOTTIE GEURTS     | NED | 2006 | 50 M. BRST  |                  |     |      | 1:27.80     | SHOKO YONEZAWA   | JPN | 2005 |
| 3:07.16      | JUNE KRAUSER      | USA | 1996 | 42.80       | SHOKO YONEZAWA   | JPN | 2005 | 1:32.23     | GAIL ROPER       | USA | 2000 |
| 400 M. FREE  |                   |     |      | 45.08       | EDITH BOEHM      | GER | 1999 | 1:33.49     | JANE ASHER       | GBR | 2003 |
| 6:00.34      | JANE ASHER        | GBR | 2003 | 45.55       | MASAYO AZUMA     | JPN | 2005 | 1:34.10     | JUDIE OLIVER     | CAN | 2002 |
| 6:19.80      | HELGA REICH       | GER | 2006 | 45.56       | ERIKA LANGE      | GER | 1998 | 1:35.21     | HELGA REICH      | GER | 2006 |
| 6:24.11      | BARBARA FENTIMAN  | GBR | 2004 | 46.50       | ELIANE PELLIS    | BEL | 2007 | 1:36.29     | V. ANN JOHANSSON | SWE | 2006 |
| 6:27.21      | GAIL ROPER        | USA | 1999 | 46.99       | SYLVIA EISELE    | CAN | 2000 | 1:37.81     | NANCY MACBETH    | USA | 1999 |
| 6:28.81      | JUNE KRAUSER      | USA | 1996 | 47.29       | ANN HIRSCH       | USA | 2001 | 1:38.32     | BETSY JORDAN     | USA | 2007 |
| 6:29.70      | HISAKO SATO       | JPN | 2006 | 47.56       | KUMIRO TOKUDA    | JPN | 2007 | 1:38.40     | TAYO FUJIEDA     | JPN | 2007 |
| 6:30.94      | NANCY BROWN       | USA | 2006 | 47.69       | I. KEUSCH-RENNER | GER | 2004 | 1:38.73     | JUNE KRAUSER     | USA | 1996 |
| 6:32.39      | RONNIE KAMPHAUSEN | USA | 2004 | 47.80       | GISELA GRUNER    | GER | 2007 | 200 M. I.M. |                  |     |      |
| 6:35.14      | TAYO FUJIEDA      | JPN | 2007 | 47.80       | ODETTE LUSIEN    | FRA | 1997 | 3:21.52     | JUDIE OLIVER     | CAN | 2002 |
| 6:41.64      | DIANE STOWELL     | USA | 2004 | 100 M. BRST |                  |     |      | 3:24.64     | JANE ASHER       | GBR | 2001 |
| 800 M. FREE  |                   |     |      | 1:35.58     | SHOKO YONEZAWA   | JPN | 2005 | 3:25.28     | HELGA REICH      | GER | 2006 |
| 12:30.00     | JANE ASHER        | GBR | 2004 | 1:36.94     | MASAYO AZUMA     | JPN | 2005 | 3:26.44     | SHOKO YONEZAWA   | JPN | 2006 |
| 13:00.04     | BARBARA FENTIMAN  | GBR | 2004 | 1:41.38     | TAYO FUJIEDA     | JPN | 2007 | 3:30.92     | GAIL ROPER       | USA | 1999 |
| 13:03.64     | HELGA REICH       | GER | 2006 | 1:42.61     | ELIANE PELLIS    | BEL | 2006 | 3:31.29     | JUNE KRAUSER     | USA | 1999 |
| 13:07.28     | JUNE KRAUSER      | USA | 1996 | 1:42.62     | EDITH BOEHM      | GER | 1999 | 3:32.12     | V. JOHANSSON     | SWE | 2005 |
| 13:23.18     | HISAKO SATO       | JPN | 2006 | 1:43.67     | YUKO SAKAGAMI    | JPN | 2007 | 3:32.90     | BETSY JORDAN     | USA | 2007 |
| 13:30.87     | NANCY BROWN       | USA | 2006 | 1:44.50     | ANN HIRSCH       | USA | 2001 | 3:33.45     | NANCY BROWN      | USA | 2006 |
| 13:35.09     | DIANE STOWELL     | USA | 2005 | 1:44.73     | DIANE STOWELL    | USA | 2004 | 3:37.89     | NANCY MACBETH    | USA | 1999 |
| 13:39.97     | TAYO FUJIEDA      | JPN | 2007 | 1:44.80     | SYLVIA NEUHAUSER | AUT | 2000 | 400 M. I.M. |                  |     |      |
| 13:49.85     | LENIE VD MEER     | NED | 2007 | 1:45.56     | A. VAN OBERGHEEN | BEL | 2001 | 7:09.96     | JANE ASHER       | GBR | 2001 |
| 14:01.77     | DENISE ROBERTSON  | AUS | 2006 | 200 M. BRST |                  |     |      | 7:19.12     | JUDIE OLIVER     | CAN | 2002 |
| 1500 M. FREE |                   |     |      | 3:28.98     | MASAYO AZUMA     | JPN | 2005 | 7:24.32     | JUNE KRAUSER     | USA | 1996 |
| 23:54.74     | JANE ASHER        | GBR | 2004 | 3:30.16     | SHOKO YONEZAWA   | JPN | 2005 | 7:34.98     | URSULA FROHLICH  | GER | 2005 |
| 24:56.47     | BARBARA FENTIMAN  | GBR | 2004 | 3:40.16     | TAYO FUJIEDA     | JPN | 2007 | 7:36.99     | GAIL ROPER       | USA | 1999 |
| 24:57.85     | JUNE KRAUSER      | USA | 1996 | 3:43.02     | DIANE STOWELL    | USA | 2005 | 7:47.33     | BETSY JORDAN     | USA | 2007 |
| 25:14.99     | HELGA REICH       | GER | 2006 | 3:44.03     | JUDIE OLIVER     | CAN | 2002 | 7:47.34     | NANCY BROWN      | USA | 2006 |
| 25:40.21     | GAIL ROPER        | USA | 1999 | 3:44.57     | ELIANE PELLIS    | BEL | 2004 | 7:48.97     | NANCY MACBETH    | USA | 1999 |
| 26:05.82     | NANCY BROWN       | USA | 2006 | 3:45.66     | ANN HIRSCH       | USA | 2001 | 7:52.30     | SYLVIA NEUHAUSER | AUT | 2000 |
| 26:18.70     | PETEY SMITH       | USA | 1994 | 3:48.92     | ERIKA LANGE      | GER | 1998 | 8:02.39     | SYLVIA EISELE    | CAN | 2000 |
| 26:26.54     | MISAO MATSUMOTO   | JPN | 2007 | 3:49.85     | GAIL ROPER       | USA | 1999 |             |                  |     |      |
| 26:39.81     | LENIE VD MEER     | NED | 2007 | 3:49.98     | JANE ASHER       | GBR | 2001 |             |                  |     |      |
| 26:40.45     | DENISE ROBERTSON  | AUS | 2005 | 50 M. FLY   |                  |     |      |             |                  |     |      |
| 50 M. BACK   |                   |     |      | 39.44       | JANE ASHER       | GBR | 2004 |             |                  |     |      |
| 41.23        | SHOKO YONEZAWA    | JPN | 2005 | 40.56       | HISAKO SATO      | JPN | 2006 |             |                  |     |      |
| 41.45        | GERD DURRE        | GER | 2006 | 40.58       | HAIKE HOLER      | GER | 2006 |             |                  |     |      |
| 41.70        | BETSY JORDAN      | USA | 2007 | 40.66       | GAIL ROPER       | USA | 1999 |             |                  |     |      |
| 42.58        | DORIS STEADMAN    | USA | 1995 | 40.98       | HISAKO KITAYAMA  | JPN | 2007 |             |                  |     |      |
| 42.85        | V. JOHANSSON      | SWE | 2005 | 41.16       | HELGA REICH      | GER | 2006 |             |                  |     |      |
| 42.86        | GRETHE BENDTSEN   | DEN | 2000 | 42.47       | JUDIE OLIVER     | CAN | 2002 |             |                  |     |      |
| 43.01        | PAM HUTCHINGS     | AUS | 2007 | 44.54       | MASUMI TANI      | JPN | 1996 |             |                  |     |      |
| 43.15        | JANE ASHER        | GBR | 2001 | 45.17       | JUNE KRAUSER     | USA | 1996 |             |                  |     |      |
| 43.19        | NANCY BROWN       | USA | 2006 | 45.44       | EDITH BOEHM      | GER | 1999 |             |                  |     |      |
| 43.45        | JOAN PARNELL      | CAN | 1999 | 100 M. FLY  |                  |     |      |             |                  |     |      |
| 100 M. BACK  |                   |     |      | 1:34.70     | JANE ASHER       | GBR | 2001 |             |                  |     |      |

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## WOMEN 75-79

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### 50 M. FREE

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

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                            |          |                          |          |                           |          |
|----------------------------|----------|--------------------------|----------|---------------------------|----------|
| 100 M. FREE                |          | 1:39.76 DORIS STEADMAN   | USA 2000 | 1:50.11 SYLVIA NEUHAUSER  | AUT 2005 |
| 1:18.59 JANE ASHER         | GBR 2006 | 1:41.65 GRETHE BENDTSEN  | DEN 2006 | 1:52.25 JUNE KRAUSER      | USA 2001 |
| 1:24.31 GAIL ROPER         | USA 2005 | 1:43.73 JOAN PARNELL     | CAN 2003 | 1:56.42 LOIS NOCHMAN      | USA 1999 |
| 1:26.20 JEAN TROY          | USA 2002 | 1:44.17 BETTY LORENZI    | USA 2003 | 1:58.42 JEAN TROY         | USA 2002 |
| 1:28.49 M. CUNNINGHAM      | AUS 2000 | 1:45.15 KERSTIN GJORES   | SWE 2002 | 2:00.46 ANN HIRSCH        | USA 2006 |
| 1:30.54 FLORENCE CARR      | USA 2001 | 1:46.88 KIMIKO OOKA      | JPN 2004 | 2:01.80 CHIE TANI         | JPN 2002 |
| 1:30.85 MITSUKO KOMURO     | JPN 2005 | 1:47.77 BARBARA JACKSON  | USA 2004 | 2:02.44 SYLVIA EISELE     | CAN 2004 |
| 1:31.14 BRITT GRILLI       | SWE 2003 | 1:48.13 WILLY VAN RYSEL  | GBR 1991 | 200 M. FLY                |          |
| 1:32.49 JOAN PARNELL       | CAN 2004 | 1:49.05 DORIS MCEWAN     | CAN 1999 | 4:00.46 JUDIE OLIVER      | CAN 2007 |
| 1:32.62 MICHIKO OKUMURA    | JPN 2007 | 200 M. BACK              |          | 4:06.06 JANE ASHER        | GBR 2006 |
| 1:33.36 JUDIE OLIVER       | CAN 2007 | 3:32.59 JANE ASHER       | GBR 2006 | 4:08.39 LOIS KIVI NOCHMAN | USA 1999 |
| 200 M. FREE                |          | 3:38.25 DORIS STEADMAN   | USA 1999 | 4:09.28 GAIL ROPER        | USA 2004 |
| 2:57.19 JANE ASHER         | GBR 2006 | 3:40.06 BETTY LORENZI    | USA 2003 | 4:12.50 JUNE KRAUSER      | USA 2001 |
| 3:07.58 GAIL ROPER         | USA 2005 | 3:46.88 JOAN PARNELL     | CAN 2003 | 4:33.31 BETTY RUSS        | USA 2004 |
| 3:11.99 JEAN TROY          | USA 2002 | 3:48.62 KIMIKO OOKA      | JPN 2004 | 4:33.81 SYLVIA EISELE     | CAN 2004 |
| 3:15.76 JUDIE OLIVER       | CAN 2007 | 3:51.10 JUNE KRAUSER     | USA 2001 | 4:39.22 ANN HIRSCH        | USA 2006 |
| 3:21.48 M. CUNNINGHAM      | AUS 2001 | 3:51.89 NANCY KINNEY     | USA 2004 | 4:48.50 MAXINE MERLINO    | USA 1988 |
| 3:22.38 MICHIKO OKUMURA    | JPN 2007 | 3:56.02 SYLVIA NEUHAUSER | AUT 2005 | 4:58.40 JEAN DURSTON      | USA 1989 |
| 3:23.10 JUNE KRAUSER       | USA 2001 | 3:56.63 RUTH MORRILL     | USA 1999 | 100 M. I.M.               |          |
| 3:23.37 MITSUKO KOMURO     | JPN 2006 | 3:58.36 CLARA WALKER     | USA 2004 | 1:32.92 JANE ASHER        | GBR 2006 |
| 3:23.69 LIZ WALLIS         | AUS 2002 | 50 M. BRST               |          | 1:38.11 GAIL ROPER        | USA 2004 |
| 3:24.60 BRITT GRILLI       | SWE 2003 | 47.15 EDITH BOHM         | GER 2003 | 1:38.73 JUDIE OLIVER      | CAN 2007 |
| 400 M. FREE                |          | 47.87 A.OBBERGHEN        | BEL 2007 | 1:45.44 SYLVIA NEUHAUSER  | AUT 2004 |
| 6:09.40 JANE ASHER         | GBR 2006 | 49.57 SATOKO SUZUKI      | JPN 1998 | 1:46.18 M. CUNNINGHAM     | AUS 2000 |
| 6:44.09 JEAN TROY          | USA 2002 | 50.34 SYLVIA EISELE      | CAN 2006 | 1:46.45 MICHIKO OKUMURA   | JPN 2006 |
| 6:54.68 GAIL ROPER         | USA 2004 | 50.37 TSUNEO MITA        | JPN 1998 | 1:46.51 JUNE KRAUSER      | USA 2001 |
| 6:57.33 LIZ WALLIS         | AUS 2002 | 50.38 MARIA CARVALHO     | BRA 2004 | 1:46.72 JEAN TROY         | USA 2002 |
| 7:00.56 JUNE KRAUSER       | USA 2001 | 50.57 SYLVIA NEUHAUSER   | AUT 2004 | 1:47.56 DORIS MCEWAN      | CAN 1999 |
| 7:01.36 MARGERY MEYER      | USA 1998 | 50.80 JANE ASHER         | GBR 2006 | 1:48.31 GRETHE BENDTSEN   | DEN 2006 |
| 7:06.73 MICHIKO OKUMURA    | JPN 2007 | 50.91 GAIL ROPER         | USA 2005 | 200 M. I.M.               |          |
| 7:06.75 BRITT GRILLI       | SWE 2003 | 51.32 CAROL TAYLOR       | USA 2004 | 3:31.20 JANE ASHER        | GBR 2006 |
| 7:13.87 M. CUNNINGHAM      | AUS 2001 | 100 M. BRST              |          | 3:35.06 JUDIE OLIVER      | CAN 2007 |
| 7:20.56 BETTY RUSS         | USA 2003 | 1:45.89 A.OBBERGHEN      | BEL 2007 | 3:37.24 GAIL ROPER        | USA 2005 |
| 800 M. FREE                |          | 1:47.80 SYLVIA NEUHAUSER | AUT 2004 | 3:43.58 JUNE KRAUSER      | USA 2001 |
| 12:42.75 JANE ASHER        | GBR 2006 | 1:48.28 SATOKO SUZUKI    | JPN 1998 | 3:49.91 JEAN TROY         | USA 2002 |
| 13:59.01 JEAN TROY         | USA 2002 | 1:49.85 JANE ASHER       | GBR 2006 | 3:53.51 MICHIKO OKUMURA   | JPN 2006 |
| 14:12.12 GAIL ROPER        | USA 2005 | 1:51.59 ANN HIRSCH       | USA 2006 | 4:01.38 GRETHE BENDTSEN   | DEN 2006 |
| 14:21.26 MICHIKO OKUMURA   | JPN 2006 | 1:51.99 EDITH BOHM       | GER 2003 | 4:01.80 MITSUKO KOMURO    | JPN 2007 |
| 14:29.27 LIZ WALLIS        | AUS 2002 | 1:52.35 GAIL ROPER       | USA 2004 | 4:02.01 ANN HIRSCH        | USA 2006 |
| 14:30.66 BRITT GRILLI      | SWE 2003 | 1:56.46 JEAN JOHNSON     | AUS 2007 | 4:03.47 M. CUNNINGHAM     | AUS 2000 |
| 14:40.11 JUNE KRAUSER      | USA 2001 | 1:56.71 GRETHE BENDTSEN  | DEN 2006 | 400 M. I.M.               |          |
| 14:46.26 MARGERY MEYER     | USA 1998 | 1:56.82 SYLVIA EISELE    | CAN 2004 | 7:34.39 JANE ASHER        | GBR 2006 |
| 14:58.84 DOROTHY DICKEY    | AUS 2007 | 200 M. BRST              |          | 7:39.96 JUDIE OLIVER      | CAN 2007 |
| 15:10.58 BETTY LORENZI     | USA 2002 | 3:54.55 SYLVIA NEUHAUSER | AUT 2004 | 7:52.71 JUNE KRAUSER      | USA 2001 |
| 1500 M. FREE               |          | 3:56.11 JANE ASHER       | GBR 2006 | 8:05.23 GAIL ROPER        | USA 2006 |
| 24:04.75 JANE ASHER        | GBR 2006 | 3:58.95 A.VAN OBBERGHEN  | BEL 2006 | 8:30.82 LOIS NOCHMAN      | USA 1999 |
| 26:37.02 GAIL ROPER        | USA 2005 | 4:03.16 ANN HIRSCH       | USA 2006 | 8:30.87 JEAN TROY         | USA 2002 |
| 27:14.94 MICHIKO OKUMURA   | JPN 2006 | 4:03.79 GAIL ROPER       | USA 2004 | 8:38.09 SYLVIA EISELE     | CAN 2004 |
| 27:33.16 LIZ WALLIS        | AUS 2002 | 4:10.22 SYLVIA EISELE    | CAN 2004 | 8:38.74 KIMIKO OOKA       | JPN 2004 |
| 27:39.46 JUNE KRAUSER      | USA 2001 | 4:14.09 CAROL TAYLOR     | USA 2004 | 8:48.88 BETTY RUSS        | USA 2003 |
| 27:47.25 MARGERY MEYER     | USA 1998 | 4:14.86 ERIKA LANGE      | GER 2003 | 8:50.85 MICHIKO OKUMURA   | JPN 2006 |
| 28:18.44 YOSHIKO KINOSHITA | JPN 2006 | 4:14.88 LILLY KRON       | USA 2007 | *****                     |          |
| 28:40.95 BETTY LORENZI     | USA 2002 | 4:15.41 EIKO MORI        | JPN 2002 | WOMEN 80-84               |          |
| 28:49.97 DOROTHY DICKEY    | AUS 2005 | 50 M. FLY                |          | *****                     |          |
| 29:13.50 BETTY RUSS        | USA 2003 | 40.71 JANE ASHER         | GBR 2006 | 50 M. FREE                |          |
| 50 M. BACK                 |          | 44.18 GAIL ROPER         | USA 2004 | 41.34 MARGERY MEYER       | USA 2002 |
| 43.50 JANE ASHER           | GBR 2006 | 44.53 JUDIE OLIVER       | CAN 2007 | 41.40 CHIE TANI           | JPN 2007 |
| 44.76 DORIS STEADMAN       | USA 1999 | 47.88 LOIS NOCHMAN       | USA 1999 | 41.45 JEAN TROY           | USA 2007 |
| 45.28 JOAN PARNELL         | CAN 2004 | 48.69 MICHIKO OKUMURA    | JPN 2007 | 41.78 M. CUNNINGHAM       | AUS 2005 |
| 46.03 GRETHE BENDTSEN      | DEN 2006 | 48.70 JEAN TROY          | USA 2002 | 41.98 OLGA JOHNSON        | NZL 2001 |
| 46.26 KERSTIN GJORES       | SWE 2002 | 49.26 SYLVIA NEUHAUSER   | AUT 2004 | 42.01 FLORENCE CARR       | USA 2005 |
| 46.75 WILLY VAN RYSEL      | GBR 1991 | 49.38 M. CUNNINGHAM      | AUS 2000 | 42.37 MIEKO KAMOSHITA     | JPN 2007 |
| 47.69 DORIS MCEWAN         | CAN 1999 | 49.61 EDITH BOHM         | GER 2003 | 43.08 KERSTIN GJORES      | SWE 2007 |
| 48.19 BETTY LORENZI        | USA 2003 | 49.95 JUNE KRAUSER       | USA 2001 | 43.48 TOKUYO KAMIGAKI     | JPN 2007 |
| 48.22 KIMIKO OOKA          | JPN 2005 | 100 M. FLY               |          | 43.94 SETSUKO NISHIMURA   | JPN 2006 |
| 48.35 EDITH BOHM           | GER 2003 | 1:44.35 JUDIE OLIVER     | CAN 2007 | 100 M. FREE               |          |
| 100 M. BACK                |          | 1:45.10 JANE ASHER       | GBR 2006 | 1:33.88 JEAN TROY         | USA 2007 |
| 1:37.87 JANE ASHER         | GBR 2006 | 1:49.36 GAIL ROPER       | USA 2005 |                           |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|              |                   |     |      |             |                   |     |      |             |                    |     |      |
|--------------|-------------------|-----|------|-------------|-------------------|-----|------|-------------|--------------------|-----|------|
| 1:34.45      | MARGERY MEYER     | USA | 2002 | 1:57.07     | DORIS STEADMAN    | USA | 2004 | 2:30.84     | MAXINE MERLINO     | USA | 1992 |
| 1:34.59      | M. CUNNINGHAM     | AUS | 2005 | 1:57.77     | BUNNY CEDERLUND   | USA | 2004 | 2:32.15     | MARIA LENK         | BRA | 1995 |
| 1:39.76      | ELSA DE LEEUW     | CAN | 2004 | 1:58.72     | MIDORI KINJO      | JPN | 2004 | 2:33.42     | NORA RONAI         | BRA | 2006 |
| 1:41.36      | OLGA JOHNSON      | NZL | 2001 | 2:00.10     | RUZENA VYMAZALOVA | CZE | 2006 | 2:36.99     | JUNE REYNOLDS      | USA | 2002 |
| 1:42.38      | RITA SIMONTON     | USA | 1998 | 2:02.47     | SILVIA CRAVERI    | ITA | 2003 | 2:39.06     | DIANA SILVA        | USA | 2004 |
| 1:42.57      | CHIE TANI         | JPN | 2007 | 2:02.50     | BETTY STERN       | AUS | 2001 | 200 M. FLY  |                    |     |      |
| 1:43.24      | MIEKO KAMOSHITA   | JPN | 2007 | 2:02.78     | MARJORIE SHARPE   | USA | 2000 | 4:31.97     | LOIS KIVI NOCHMAN  | USA | 2005 |
| 1:44.57      | MARJORIE SHARPE   | USA | 1997 | 200 M. BACK |                   |     |      | 5:08.38     | BETTY RUSS         | USA | 2007 |
| 1:45.25      | BETTY LORENZI     | USA | 2007 | 4:07.13     | BETTY LORENZI     | USA | 2007 | 5:22.65     | MAXINE O MERLINO   | USA | 1992 |
| 3:26.52      | JEAN TROY         | USA | 2007 | 4:09.07     | DORIS STEADMAN    | USA | 2004 | 5:24.06     | JAE HOWELL         | USA | 2002 |
| 3:27.57      | MARGERY MEYER     | USA | 2002 | 4:14.53     | MARGERY MEYER     | USA | 2003 | 5:27.00     | JEAN DURSTON       | USA | 1997 |
| 3:37.21      | RITA SIMONTON     | USA | 1998 | 4:21.27     | SILVIA CRAVERI    | ITA | 2003 | 5:39.29     | DOROTHY WESTON     | GBR | 1996 |
| 3:43.95      | M. CUNNINGHAM     | AUS | 2005 | 4:23.30     | BUNNY CEDERLUND   | USA | 2003 | 6:04.35     | JUNE REYNOLDS      | USA | 2003 |
| 3:44.72      | ELSA DE LEEUW     | CAN | 2004 | 4:24.78     | BETTY STERN       | AUS | 2002 | 6:10.87     | GLADYS OLSEN       | USA | 2006 |
| 3:49.19      | MARJORIE SHARPE   | USA | 1997 | 4:25.09     | KAZUKO TAGUCHI    | JPN | 2006 | 6:20.56     | ELSA MATTILA       | USA | 1991 |
| 3:49.25      | OLGA JOHNSON      | NZL | 2001 | 4:26.52     | REGAN KENNER      | USA | 2004 | 6:32.72     | NORA RONAI         | BRA | 2005 |
| 3:52.96      | CANDIDA GANDOLPHO | BRA | 2001 | 4:28.97     | MIDORI KINJO      | JPN | 2005 | 100 M. I.M. |                    |     |      |
| 3:55.06      | VIRGINIA KETELEER | BEL | 2006 | 4:29.95     | RITA EVANS        | USA | 2000 | 1:56.65     | JEAN TROY          | USA | 2007 |
| 3:55.82      | CHIE TANI         | JPN | 2006 | 50 M. BRST  |                   |     |      | 1:59.06     | M. CUNNINGHAM      | AUS | 2005 |
| 400 M. FREE  |                   |     |      | 50.48       | SATOKO SUZUKI     | JPN | 2003 | 2:00.15     | CHIE TANI          | JPN | 2006 |
| 7:20.96      | JEAN TROY         | USA | 2007 | 55.81       | MICHELE GUILLAIS  | FRA | 2001 | 2:02.01     | MARGERY MEYER      | USA | 2003 |
| 7:22.84      | MARGERY MEYER     | USA | 2002 | 56.09       | SAYOKO WATANABE   | JPN | 2007 | 2:02.30     | DORIS MCEWAN       | CAN | 2004 |
| 7:33.69      | RITA SIMONTON     | USA | 1998 | 56.36       | SHIZUE TOYAMA     | JPN | 2004 | 2:02.67     | LOIS KIVI NOCHMAN  | USA | 2004 |
| 7:44.00      | M. CUNNINGHAM     | AUS | 2005 | 57.11       | KIMIE KANAI       | JPN | 2004 | 2:03.03     | YOKO KOBAYASHI     | JPN | 2007 |
| 7:58.35      | VIRGINIA KETELEER | BEL | 2006 | 57.14       | EMMI PAULI        | GER | 1993 | 2:04.00     | GERTRUD MEERWALD   | GER | 2000 |
| 7:59.04      | CHIE TANI         | JPN | 2007 | 58.44       | INGEBORG FRITZE   | GER | 2001 | 2:04.68     | SETSUOKO NISHIMURA | JPN | 2007 |
| 7:59.87      | ELSA DE LEEUW     | CAN | 2004 | 58.51       | JOAN KIDD         | GBR | 2007 | 2:05.80     | EIKO MORI          | JPN | 2007 |
| 8:04.20      | MARJORIE SHARPE   | USA | 1997 | 59.02       | LIZ KNUTZEN       | DEN | 2001 | 200 M. I.M. |                    |     |      |
| 8:05.44      | CANDIDA GANDOLPHO | BRA | 2001 | 59.26       | GERTRUD MEERWALD  | GER | 2000 | 4:07.66     | JEAN TROY          | USA | 2007 |
| 8:10.68      | GERTRUD MEERWALD  | GER | 2000 | 100 M. BRST |                   |     |      | 4:22.29     | LOIS KIVI NOCHMAN  | USA | 2005 |
| 800 M. FREE  |                   |     |      | 1:54.30     | SATOKO SUZUKI     | JPN | 2003 | 4:22.97     | CHIE TANI          | JPN | 2006 |
| 15:12.35     | JEAN TROY         | USA | 2007 | 2:03.93     | SAYOKO WATANABE   | JPN | 2007 | 4:36.03     | M. CUNNINGHAM      | AUS | 2005 |
| 15:30.51     | MARGERY MEYER     | USA | 2005 | 2:06.59     | EMMI PAULI        | GER | 1993 | 4:38.24     | MARGERY MEYER      | USA | 2002 |
| 15:49.21     | RITA SIMONTON     | USA | 1998 | 2:07.67     | EIKO MORI         | JPN | 2007 | 4:40.77     | MARIA LENK         | BRA | 1995 |
| 16:04.77     | VIRGINIA KETELEER | BEL | 2006 | 2:08.23     | GERTRUD MEERWALD  | GER | 2000 | 4:44.14     | ELSA DE LEEUW      | CAN | 2004 |
| 16:18.58     | MARJORIE SHARPE   | USA | 1997 | 2:09.75     | DOROTHY WILLIAMS  | GBR | 2003 | 4:45.38     | JEAN DURSTON       | USA | 1995 |
| 16:51.32     | CANDIDA GANDOLPHO | BRA | 2001 | 2:10.31     | KIMIE KANAI       | JPN | 2004 | 4:45.93     | MAXINE MERLINO     | USA | 1992 |
| 17:00.71     | LOIS KIVI NOCHMAN | USA | 2005 | 2:10.94     | MICHELE GUILLAIS  | FRA | 2003 | 4:54.25     | GERTRUD MEERWALD   | GER | 2000 |
| 17:07.13     | LIZ WALLIS        | AUS | 2007 | 2:12.79     | JOAN KIDD         | GBR | 2007 | 400 M. I.M. |                    |     |      |
| 17:13.96     | ELSA DE LEEUW     | CAN | 2005 | 2:13.23     | YOKO KOBAYASHI    | JPN | 2006 | 9:30.65     | JEAN TROY          | USA | 2007 |
| 17:22.52     | BETTY RUSS        | USA | 2007 | 200 M. BRST |                   |     |      | 9:31.73     | LOIS KIVI NOCHMAN  | USA | 2004 |
| 1500 M. FREE |                   |     |      | 4:29.24     | EIKO MORI         | JPN | 2007 | 9:50.43     | MAXINE MERLINO     | USA | 1992 |
| 28:55.09     | JEAN TROY         | USA | 2007 | 4:38.57     | DOROTHY WILLIAMS  | GBR | 2003 | 9:54.68     | BETTY RUSS         | USA | 2007 |
| 29:39.08     | MARGERY MEYER     | USA | 2002 | 4:47.03     | JOAN KIDD         | GBR | 2007 | 10:09.01    | JEAN DURSTON       | USA | 1994 |
| 29:48.75     | RITA SIMONTON     | USA | 1998 | 4:49.62     | RITA SIMONTON     | USA | 1998 | 10:56.37    | JAE HOWELL         | USA | 2003 |
| 30:32.06     | VIRGINIA KETELEER | BEL | 2005 | 4:53.38     | MICHIKO HAMURO    | JPN | 1999 | 11:05.81    | KAY SCHMPF         | USA | 1997 |
| 30:59.09     | MARJORIE SHARPE   | USA | 1997 | 4:53.77     | BARBARA VICKERS   | AUS | 2006 | 11:17.91    | JUNE REYNOLDS      | USA | 2002 |
| 31:45.05     | LOIS KIVI NOCHMAN | USA | 2004 | 4:54.39     | DOROTHY WESTON    | GBR | 1993 | 11:18.33    | KALIS RASMUSSEN    | CAN | 2006 |
| 32:47.75     | ELSA DE LEEUW     | CAN | 2007 | 4:57.60     | JEAN TROY         | USA | 2007 | 11:19.93    | ELSA MATTILA       | USA | 1991 |
| 32:59.62     | BETTY RUSS        | USA | 2007 | 4:59.96     | MICHELE GILLAIS   | FRA | 2002 |             |                    |     |      |
| 33:55.61     | FUMI MURATA       | JPN | 2004 | 5:00.63     | MAXINE MERLINO    | USA | 1992 |             |                    |     |      |
| 34:06.51     | JEAN DURSTON      | USA | 1995 | 50 M. FLY   |                   |     |      |             |                    |     |      |
| 50 M. BACK   |                   |     |      | 55.65       | LOIS KIVI NOCHMAN | USA | 2004 |             |                    |     |      |
| 48.82        | KERSTIN GJORES    | SWE | 2007 | 56.51       | CHIE TANI         | JPN | 2006 |             |                    |     |      |
| 50.03        | MARGERY MEYER     | USA | 2002 | 1:01.24     | GERTRUD MEERWALD  | GER | 2000 |             |                    |     |      |
| 51.19        | ANNELIESE POKER   | GER | 2001 | 1:01.56     | JEAN TROY         | USA | 2007 |             |                    |     |      |
| 51.55        | BETTY LORENZI     | USA | 2007 | 1:02.58     | MARIA LENK        | BRA | 1995 |             |                    |     |      |
| 52.13        | BETTY STERN       | AUS | 2001 | 1:02.68     | UMeko KUWAHARA    | JPN | 2005 |             |                    |     |      |
| 52.24        | DORIS STEADMAN    | USA | 2004 | 1:03.16     | HARUE INOUE       | JPN | 2007 |             |                    |     |      |
| 53.00        | M. WRIGHT         | AUS | 1989 | 1:03.25     | BONNIE SMITH      | AUS | 2000 |             |                    |     |      |
| 53.50        | RUZENA VYMAZALOVA | CZE | 2006 | 1:03.26     | JEAN DURSTON      | USA | 1994 |             |                    |     |      |
| 53.82        | MITSUKO KURASHIGE | JPN | 2006 | 1:04.52     | NORA RONAI        | BRA | 2004 |             |                    |     |      |
| 53.97        | BUNNY CEDERLUND   | USA | 2003 | 100 M. FLY  |                   |     |      |             |                    |     |      |
| 100 M. BACK  |                   |     |      | 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 | 2:22.05     | GERTRUD MEERWALD  | GER | 2000 |             |                    |     |      |
| 1:55.79      | MARGERY MEYER     | USA | 2002 | 2:22.89     | BETTY RUSS        | USA | 2007 |             |                    |     |      |
|              |                   |     |      | 2:28.34     | JEAN DURSTON      | USA | 1994 |             |                    |     |      |

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## WOMEN 85-89

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### 50 M. FREE

|             |                 |     |      |
|-------------|-----------------|-----|------|
| 46.31       | OLGA JOHNSON    | NZL | 2006 |
| 49.12       | MARGERY MEYER   | USA | 2007 |
| 49.14       | FUSAKO YAMANAKA | JPN | 2005 |
| 49.48       | HISAKO KOGA     | JPN | 2003 |
| 49.92       | RITA SIMONTON   | USA | 2003 |
| 51.34       | BUNNY CEDERLUND | USA | 2006 |
| 51.99       | JULIA DOLCE     | USA | 1995 |
| 52.17       | JOYCE FAUNCE    | AUS | 2006 |
| 52.77       | YONE MURATA     | JPN | 2007 |
| 52.89       | MARJORIE SHARPE | USA | 2003 |
| 100 M. FREE |                 |     |      |
| 1:48.55     | OLGA JOHNSON    | NZL | 2006 |
| 1:49.64     | RITA SIMONTON   | USA | 2003 |
| 1:50.16     | MARGERY MEYER   | USA | 2007 |



# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 1:54.41 HISAKO KOGA       | JPN 2002 | 2:23.98 ANNE WALKER       | USA 2002 | 5:19.48 ELFIE STEVENIN    | USA 2007 |
| 1:55.38 MARJORIE SHARPE   | USA 2002 | 2:24.11 MAXINE MERLINO    | USA 1998 | 200 M. FLY                |          |
| 1:58.86 FUSAKO YAMANAKA   | JPN 2005 | 2:25.46 HIDEKO HANADA     | JPN 2004 | 5:42.80 JEAN DURSTON      | USA 1999 |
| 2:00.31 AUDREY ETIENNE    | USA 2001 | 200 M. BACK               |          | 6:01.46 MAXINE MERLINO    | USA 1998 |
| 2:02.93 JOYCE FAUNCE      | AUS 2006 | 4:18.50 EDITH THEIN       | ISR 2003 | 6:26.75 JAE HOWELL        | USA 2007 |
| 2:04.10 TERU USHIKI       | JPN 2004 | 4:36.48 BUNNY CEDERLUND   | USA 2006 | 6:45.75 JUNE REYNOLDS     | USA 2007 |
| 2:04.80 BUNNY CEDERLUND   | USA 2006 | 4:41.34 MARIA LENK        | BRA 2000 | 7:12.95 JEWEL COOKE       | USA 1996 |
| 200 M. FREE               |          | 4:41.38 PERSIS RAE        | AUS 2005 | 7:15.07 KATHERINE PELTON  | USA 1990 |
| 3:54.18 MARGERY MEYER     | USA 2007 | 4:46.44 WILLY VAN RYSEL   | GBR 2001 | 16:41.57 GERDA VOSS       | CAN 2004 |
| 3:57.48 RITA SIMONTON     | USA 2003 | 4:53.35 MARJORIE SHARPE   | USA 2002 | 100 M. I.M.               |          |
| 4:05.82 OLGA JOHNSON      | NZL 2006 | 4:57.09 ANNE WALKER       | USA 2001 | 2:12.85 JEWEL COOKE       | USA 1995 |
| 4:10.40 HISAKO KOGA       | JPN 2002 | 4:58.10 OLGA JOHNSON      | NZL 2006 | 2:19.98 MARGERY MEYER     | USA 2007 |
| 4:16.84 MARJORIE SHARPE   | USA 2003 | 5:00.12 HIDEKO HANADA     | JPN 2004 | 2:21.11 RITA SIMONTON     | USA 2003 |
| 4:24.20 MAURINE KORNFELD  | USA 2006 | 5:07.85 MAURINE KORNFELD  | USA 2007 | 2:22.10 MARIA LENK        | BRA 2000 |
| 4:26.28 CANDIDA GANDOLPHO | BRA 2006 | 50 M. BRST                |          | 2:23.05 MARIANNA BERKLEY  | USA 2007 |
| 4:32.73 URSULA OEHMKE     | GER 2004 | 1:04.29 MICHELE GUILLAIS  | FRA 2006 | 2:25.02 JEAN DURSTON      | USA 1999 |
| 4:36.42 MARIA LENK        | BRA 2000 | 1:07.06 LIS KNUTZEN       | DEN 2006 | 2:26.58 MICHELE GUILLAIS  | FRA 2006 |
| 4:37.43 EDITH THEIN       | ISR 2004 | 1:07.09 INGEBORG FRITZE   | GER 2007 | 2:27.70 MAXINE MERLINO    | USA 1998 |
| 400 M. FREE               |          | 1:08.15 FUSAKO TOMINARI   | JPN 2004 | 2:32.74 DOROTHY WESTON    | GBR 1998 |
| 8:17.82 RITA SIMONTON     | USA 2003 | 1:08.39 MARIA LENK        | BRA 2000 | 2:34.00 MICHIKO HAMURO    | JPN 2004 |
| 8:45.92 MARJORIE SHARPE   | USA 2002 | 1:09.22 EMMI PAULI        | GER 1998 | 200 M. I.M.               |          |
| 8:59.25 OLGA JOHNSON      | NZL 2006 | 1:09.70 MARTI GOGNIAT     | USA 1995 | 5:09.92 MARIA LENK        | BRA 2000 |
| 9:10.49 MAURINE KORNFELD  | USA 2006 | 1:10.04 GERTRUD ZINT      | USA 2002 | 5:12.01 JEAN DURSTON      | USA 1999 |
| 9:27.75 MARIA LENK        | BRA 2000 | 1:10.37 MARIANNA BERKLEY  | USA 2007 | 5:12.13 MAXINE MERLINO    | USA 1998 |
| 9:29.01 JEAN DURSTON      | USA 1999 | 1:10.47 DOROTHY WESTON    | GBR 1998 | 5:26.90 RITA SIMONTON     | USA 2004 |
| 9:34.27 MAXINE MERLINO    | USA 1998 | 100 M. BRST               |          | 5:36.16 MARIANNA BERKLEY  | USA 2007 |
| 9:55.19 WILLY VAN RYSEL   | GBR 2001 | 2:28.12 LIS KNUTZEN       | DEN 2006 | 5:44.41 JAE HOWELL        | USA 2007 |
| 9:57.25 CANDIDA GANDOLPHO | BRA 2005 | 2:29.90 MARIA LENK        | BRA 2000 | 6:10.88 JEWEL COOKE       | USA 1995 |
| 10:19.41 JULIA DOLCE      | USA 1995 | 2:33.87 EMMI PAULI        | GER 1998 | 6:12.63 GERTRUD ZINT      | USA 2002 |
| 800 M. FREE               |          | 2:36.99 INGEBORG FRITZE   | GER 2007 | 6:18.36 MAURINE KORNFELD  | USA 2007 |
| 16:49.43 RITA SIMONTON    | USA 2003 | 2:37.44 FUSAKO TOMINARI   | JPN 2002 | 6:25.11 EDITH GLUSAC      | USA 2003 |
| 18:02.38 MAURINE KORNFELD | USA 2007 | 2:37.57 MICHIO HAMURO     | JPN 2004 | 400 M. I.M.               |          |
| 19:41.58 MAXINE MERLINO   | USA 1998 | 2:38.48 MARTI GOGNIAT     | USA 1995 | 10:55.73 JEAN DURSTON     | USA 1999 |
| 20:28.81 MARJORIE SHARPE  | USA 2003 | 2:38.91 DOROTHY WESTON    | GBR 1998 | 11:02.02 MAXINE MERLINO   | USA 1998 |
| 20:31.49 WILLY VAN RYSEL  | GBR 2001 | 2:45.96 MAXINE MERLINO    | USA 1998 | 12:24.66 JAE HOWELL       | USA 2007 |
| 21:02.41 MARIA LENK       | BRA 2001 | 2:46.38 JEAN DURSTON      | USA 1999 | 12:30.12 JUNE REYNOLDS    | USA 2007 |
| 21:38.16 LILLIAN WARREN   | CAN 2004 | 200 M. BRST               |          | 13:24.08 JEWEL COOKE      | USA 1996 |
| 21:44.00 KAY SCHIMPF      | USA 2002 | 5:33.41 MICHIO HAMURO     | JPN 2004 | 13:32.12 GERTRUD ZINT     | USA 2003 |
| 22:22.74 JULIA DOLCE      | USA 1995 | 5:39.33 MARIA LENK        | BRA 2000 | 15:34.06 KATHERINE PELTON | USA 1991 |
| 22:23.51 KIKU ONO         | JPN 2002 | 5:45.85 LIS KNUTZEN       | DEN 2007 | 21:51.74 GERDA VOSS       | CAN 2004 |
| 1500 M. FREE              |          | 5:46.07 MARIANNA BERKLEY  | USA 2007 | *****                     |          |
| 31:44.50 RITA SIMONTON    | USA 2003 | 5:59.36 MARTI GOGNIAT     | USA 1997 | WOMEN 90-94               |          |
| 33:03.30 MARGERY MEYER    | USA 2007 | 6:08.18 JAE HOWELL        | USA 2007 | *****                     |          |
| 37:28.53 MAXINE MERLINO   | USA 1998 | 6:15.58 INGEBORG FRITZE   | GER 2007 | 50 M. FREE                |          |
| 39:25.76 WILLY VAN RYSEL  | GBR 2001 | 6:18.17 GERTRUD ZINT      | USA 2003 | 55.53 HISAKO KOGA         | JPN 2007 |
| 41:11.16 KAY SCHIMPF      | USA 2002 | 6:20.38 CHARLOTTE SANDDAL | USA 2007 | 1:05.20 WILLY VAN RYSEL   | GBR 2006 |
| 42:10.95 JULIA DOLCE      | USA 1995 | 6:30.68 BARBARA BOHM      | GER 2007 | 1:09.85 JEWEL COOKE       | USA 2000 |
| 42:54.05 KIKU ONO         | JPN 2002 | 50 M. FLY                 |          | 1:10.19 MARIA LENK        | BRA 2005 |
| 48:02.60 KATH JOHNSTONE   | NZL 2003 | 1:07.35 JEAN DURSTON      | USA 1999 | 1:10.26 DOROTHY WESTON    | GBR 2003 |
| 50 M. BACK                |          | 1:11.38 MARIA LENK        | BRA 2000 | 1:10.74 SHIZUE SHIMIZU    | JPN 2002 |
| 57.62 BUNNY CEDERLUND     | USA 2006 | 1:16.71 MAXINE MERLINO    | USA 1998 | 1:10.83 ANNE WALKER       | USA 2006 |
| 58.02 NOEL MORROW         | CAN 2004 | 1:19.27 JUNE REYNOLDS     | USA 2007 | 1:11.85 MARGO BATES       | AUS 2000 |
| 58.38 MASA SHIGEMITSU     | JPN 2000 | 1:23.85 JAE HOWELL        | USA 2007 | 1:13.90 M.GOTTSCHALK      | GER 1999 |
| 59.67 WILLY VAN RYSEL     | GBR 2001 | 1:24.22 JEWEL COOKE       | USA 1996 | 1:14.25 SUMI SHIMOI       | JPN 2004 |
| 1:00.12 MARGERY MEYER     | USA 2007 | 1:24.51 DOROTHY WESTON    | GBR 2002 | 100 M. FREE               |          |
| 1:00.39 MARJORIE SHARPE   | USA 2002 | 1:24.53 KATHERINE PELTON  | USA 1990 | 2:23.66 WILLY VAN RYSEL   | GBR 2006 |
| 1:00.71 FUSAKO TOMINARI   | JPN 2003 | 1:26.72 RITA SIMONTON     | USA 2006 | 2:35.08 MARIA LENK        | BRA 2005 |
| 1:01.06 MARIA LENK        | BRA 2000 | 1:29.04 EDITH GLUSAC      | USA 2003 | 2:35.08 JEWEL COOKE       | USA 2000 |
| 1:01.72 ANNE WALKER       | USA 2001 | 100 M. FLY                |          | 2:47.04 KIKU ONO          | JPN 2007 |
| 1:02.13 OLGA JOHNSON      | NZL 2006 | 2:36.50 JEAN DURSTON      | USA 1999 | 2:52.25 MIEKO NAGAOKA     | JPN 2007 |
| 100 M. BACK               |          | 2:51.00 MAXINE MERLINO    | USA 1998 | 2:52.61 MARIE KELLEHER    | USA 2005 |
| 2:10.33 BUNNY CEDERLUND   | USA 2006 | 2:59.72 JUNE REYNOLDS     | USA 2007 | 2:54.96 KATH JOHNSTONE    | NZL 2007 |
| 2:11.03 WILLY VAN RYSEL   | GBR 2001 | 3:05.69 JAE HOWELL        | USA 2007 | 2:55.47 MARGO BATES       | AUS 2000 |
| 2:11.09 PERSIS RAE        | AUS 2005 | 3:20.81 JEWEL COOKE       | USA 1996 | 3:00.08 RINA DAVOGLIO     | ITA 2003 |
| 2:11.54 MARIA LENK        | BRA 2000 | 3:22.29 EDITH GLUSAC      | USA 2003 | 3:08.17 MASAKO MATSUNO    | JPN 2006 |
| 2:13.95 NOEL MORROW       | CAN 2004 | 3:29.58 KATHERINE PELTON  | USA 1990 | 200 M. FREE               |          |
| 2:16.59 MARJORIE SHARPE   | USA 2002 | 4:21.96 EDIE GOLDMAN      | USA 1997 | 5:11.66 WILLY VAN RYSEL   | GBR 2006 |
| 2:23.95 EDITH THEIN       | ISR 2004 | 4:35.49 KIYOMI KITAMURA   | JPN 2005 |                           |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                          |          |                           |          |                           |          |
|--------------------------|----------|---------------------------|----------|---------------------------|----------|
| 5:21.30 MARIA LENK       | BRA 2005 | 1:37.50 YOSHI KUCHIBA     | JPN 1998 | 2:00.16 SHIZUE SHIMIZU    | JPN 2006 |
| 5:34.59 MAXINE MERLINO   | USA 2002 | 1:38.63 MADELEINE MILLER  | USA 2000 | 2:04.24 ROSA SELLARES     | ESP 2005 |
| 5:45.22 JEWEL COOKE      | USA 2000 | 1:43.97 IRENE ADAMS       | CAN 2005 | 2:05.36 MARGE ANDERSON    | CAN 1998 |
| 5:51.94 KIKU ONO         | JPN 2007 | 1:46.02 LUZIA CARACCILO   | BRA 2004 | 2:10.49 BERNARDA ANGULO   | ESP 2007 |
| 5:58.43 KATH JOHNSTONE   | NZL 2007 | 1:49.01 DORRIE VANNING    | NZL 1991 | 3:36.30 ELIZABETH DZIADUS | USA 2005 |
| 6:17.39 MARY LATHRAM     | USA 2005 | 1:52.69 JEWEL COOKE       | USA 1999 | 100 M. BACK               |          |
| 6:23.75 MARGO BATES      | AUS 2000 | 100 M. BRST               |          | 3:25.37 EDITH HENDRY      | USA 2006 |
| 6:36.62 SUMI SHIMOI      | JPN 2005 | 3:04.86 DOROTHY WESTON    | GBR 2003 | 4:12.61 SHIZUE SHIMIZU    | JPN 2006 |
| 6:39.34 MADELEINE MILLER | USA 2000 | 3:05.60 MARIA LENK        | BRA 2005 | 4:36.75 ROSA SELLARES     | ESP 2005 |
| 400 M. FREE              |          | 3:25.74 M.GOTTSCHALK      | GER 1999 | 4:44.29 BERNARDA ANGULO   | ESP 2007 |
| 10:01.56 HISAKO KOGA     | JPN 2007 | 4:05.59 DORRIE VANNING    | NZL 1991 | 5:12.32 MARGO BATES       | AUS 2007 |
| 10:29.76 WILLY VAN RYSEL | GBR 2006 | 4:06.89 JEWEL COOKE       | USA 1999 | 200 M. BACK               |          |
| 10:45.34 MAXINE MERLINO  | USA 2002 | 4:15.28 MADELEINE MILLER  | USA 2000 | 7:36.62 EDITH HENDRY      | USA 2006 |
| 11:10.67 MARIA LENK      | BRA 2005 | 4:35.76 KATH JOHNSTONE    | NZL 2007 | 9:37.39 ROSA SELLARES     | ESP 2005 |
| 12:35.51 KIKU ONO        | JPN 2007 | 6:13.66 MARGOT LENIGK     | USA 2001 | 9:40.04 BERNARDA ANGULO   | ESP 2007 |
| 12:36.38 KATH JOHNSTONE  | NZL 2007 | 6:29.78 HILDA BUEL        | USA 2005 | 11:55.69 MARGO BATES      | AUS 2007 |
| 13:24.06 MARY LATHRAM    | USA 2006 | 200 M. BRST               |          | *****                     |          |
| 14:06.61 MASAKO MATSUNO  | JPN 2006 | 6:37.73 MARIA LENK        | BRA 2005 | M E N 25-29               |          |
| 14:16.35 ANNA BAUSCHER   | USA 1993 | 9:03.85 JEWEL COOKE       | USA 1999 | *****                     |          |
| 17:59.61 BERNARDA ANGULO | ESP 2004 | 10:00.45 KATH JOHNSTONE   | NZL 2007 | 50 M. FREE                |          |
| 800 M. FREE              |          | 10:23.13 MADELEINE MILLER | USA 2000 | 22.48 ED WAGNER           | USA 1996 |
| 21:16.76 WILLY VAN RYSEL | GBR 2006 | 14:53.20 HILDA BUEL       | USA 2004 | 22.48 ROBERT PEEL         | USA 1993 |
| 22:18.84 MAXINE MERLINO  | USA 2002 | 50 M. FLY                 |          | 22.78 ANDREW MANLEY       | GBR 2003 |
| 25:03.34 MARIA LENK      | BRA 2007 | 1:34.61 DOROTHY WESTON    | GBR 2003 | 22.78 BJORN ZIKARSKY      | USA 1995 |
| 25:12.44 KATH JOHNSTONE  | NZL 2007 | 1:35.56 MAXINE MERLINO    | USA 2002 | 22.80 RYAN LAURIN         | CAN 2003 |
| 28:45.45 ANNA BAUSCHER   | USA 1993 | 1:48.46 MARIE KELLEHER    | USA 2006 | 22.81 SCOTT GREENWOOD     | USA 2002 |
| 1500 M. FREE             |          | 1:49.08 JEWEL COOKE       | USA 2000 | 22.83 ERIK OSBORN         | USA 1995 |
| 41:20.62 WILLY VAN RYSEL | GBR 2006 | 4:00.74 HILDA BUEL        | USA 2004 | 22.92 STEFAN HERBST       | GER 2005 |
| 44:27.18 MAXINE MERLINO  | USA 2002 | 4:45.13 ANNA BAUSCHER     | USA 1993 | 22.93 ALEXANDER KAHL      | GER 2005 |
| 48:36.59 KATH JOHNSTONE  | NZL 2007 | 100 M. FLY                |          | 23.00 SVEN GUSKE          | GER 2001 |
| 50 M. BACK               |          | 3:21.00 DOROTHY WESTON    | GBR 2003 | 100 M. FREE               |          |
| 1:05.70 WILLY VAN RYSEL  | GBR 2006 | 4:06.32 JEWELL COOK       | USA 1999 | 48.58 S.KUNZELMANN        | GER 2005 |
| 1:13.75 MARIA LENK       | BRA 2005 | 100 M. I.M.               |          | 49.58 ANDREW MANLEY       | GBR 2003 |
| 1:15.02 M.GOTTSCHALK     | GER 1999 | 3:06.08 DOROTHY WESTON    | GBR 2003 | 49.91 BJORN ZIKARSKY      | USA 1995 |
| 1:16.60 ANNE WALKER      | USA 2006 | 3:06.87 MAXINE MERLINO    | USA 2004 | 50.13 HERMAN LOUW         | USA 2000 |
| 1:19.85 MIEKO NAGAOKA    | JPN 2006 | 3:13.87 JEWEL COOKE       | USA 1999 | 50.55 DAN WEGNER          | USA 2000 |
| 1:22.64 JEWEL COOKE      | USA 2000 | 3:31.92 MARIE KELLEHER    | USA 2006 | 50.60 KLAUS HUEZ          | ITA 2003 |
| 1:22.70 MARY LATHRAM     | USA 2005 | 4:43.61 DOROTHY RIORDAN   | USA 2004 | 50.88 JESPER LEVANDER     | SWE 2006 |
| 1:23.51 RINA DAVOGLIO    | ITA 2002 | 5:08.94 BERNARDA ANGULO   | ESP 2004 | 50.88 MARK STEVENS        | GBR 2001 |
| 1:25.62 EDITH HENDRY     | USA 2003 | 5:58.92 HILDA BUEL        | USA 2005 | 50.93 CHRISTIAN HEIN      | GER 2007 |
| 1:27.24 KATH JOHNSTONE   | NZL 2007 | 200 M. I.M.               |          | 51.05 EDUARDO SCHIESARI   | BRA 2002 |
| 100 M. BACK              |          | 6:25.12 MAXINE MERLINO    | USA 2003 | 200 M. FREE               |          |
| 2:26.64 WILLY VAN RYSEL  | GBR 2006 | 6:56.70 JEWEL COOKE       | USA 1999 | 1:48.81 JOHN KEPPELER     | USA 1995 |
| 2:43.99 MARIA LENK       | BRA 2005 | 11:57.44 HILDA BUEL       | USA 2004 | 1:49.94 ANDREW MANLEY     | GBR 2003 |
| 2:45.49 M.GOTTSCHALK     | GER 1999 | 400 M. I.M.               |          | 1:50.19 SYLVAIN CROS      | FRA 2007 |
| 2:47.71 ANNE WALKER      | USA 2006 | 14:55.37 JEWEL COOKE      | USA 1999 | 1:50.99 EDUARDO SCHIESARI | BRA 2002 |
| 2:56.37 DOROTHY WESTON   | GBR 2003 | *****                     |          | 1:51.11 HERMAN LOUW       | USA 2000 |
| 2:59.60 RINA DAVOGLIO    | ITA 2002 | WOMEN 95-99               |          | 1:51.34 STEVEN MELLOR     | GBR 2000 |
| 3:00.20 MIEKO NAGAOKA    | JPN 2006 | *****                     |          | 1:51.65 FERNANDO SAEZ     | BRA 2002 |
| 3:05.96 JEWEL COOKE      | USA 1999 | 50 M. FREE                |          | 1:51.87 AURELIEN COQ      | FRA 2004 |
| 3:08.02 MARY LATHRAM     | USA 2006 | 1:13.87 SHIZUE SHIMIZU    | JPN 2006 | 1:51.92 DAN WEGNER        | USA 2000 |
| 3:15.44 KIKU ONO         | JPN 2007 | 1:58.55 BERNARDA ANGULO   | ESP 2007 | 1:52.55 JENS BUNGER       | GER 1994 |
| 200 M. BACK              |          | 2:02.50 MARGE ANDERSON    | CAN 1998 | 400 M. FREE               |          |
| 5:02.82 WILLY VAN RYSEL  | GBR 2006 | 2:08.68 ROSA SELLARES     | ESP 2006 | 3:53.60 SYLVAIN CROS      | FRA 2007 |
| 5:56.27 ANNE WALKER      | USA 2006 | 4:05.96 ELIZABETH DZIADUS | USA 2005 | 3:56.53 A.ANGELOTTI       | BRA 2001 |
| 6:24.54 MARY LATHRAM     | USA 2006 | 100 M. FREE               |          | 3:56.66 AURELIEN COQ      | FRA 2004 |
| 6:32.92 JEWEL COOKE      | USA 1999 | 4:32.42 ROSA SELLARES     | ESP 2006 | 3:57.24 STEVEN MELLOR     | GBR 2000 |
| 6:38.29 MIEKO NAGAOKA    | JPN 2006 | 4:35.42 BERNARDA ANGULO   | ESP 2007 | 3:58.23 ALEX KOSTICH      | USA 1997 |
| 6:57.85 KATH JOHNSTONE   | NZL 2007 | 4:35.98 MARGE ANDERSON    | CAN 1998 | 3:59.78 GAVIN LILLEY      | GBR 1993 |
| 7:16.44 MADELEINE MILLER | USA 2000 | 200 M. FREE               |          | 4:00.64 G.ORPHANIDES      | GBR 2003 |
| 7:43.30 EDITH HENDRY     | USA 2003 | 9:32.52 ROSA SELLARES     | ESP 2006 | 4:02.17 DAN WEGNER        | USA 2000 |
| 7:47.79 BERNARDA ANGULO  | ESP 2002 | 9:40.96 BERNARDA ANGULO   | ESP 2007 | 4:02.52 YOTA ARASE        | JPN 2007 |
| 10:16.22 HILDA BUEL      | USA 2005 | 400 M. FREE               |          | 4:03.27 MIKAEL ROSEN      | SWE 2003 |
| 50 M. BRST               |          | 19:20.68 BERNARDA ANGULO  | ESP 2007 | 800 M. FREE               |          |
| 1:15.48 FUSAKO TOMINARI  | JPN 2007 | 19:24.06 ROSA SELLARES    | ESP 2006 | 8:07.91 A.ANGELOTTI       | BRA 2001 |
| 1:21.91 DOROTHY WESTON   | GBR 2003 | 50 M. BACK                |          | 8:13.81 G.ORPHANIDES      | GBR 2003 |
| 1:24.48 MARIA LENK       | BRA 2005 | 1:27.92 EDITH HENDRY      | USA 2006 | 8:14.75 ALEX KOSTICH      | USA 1997 |
| 1:25.24 M.GOTTSCHALK     | GER 1999 |                           |          |                           |          |

|          |                  |     |      |         |                   |     |      |         |                   |     |      |
|----------|------------------|-----|------|---------|-------------------|-----|------|---------|-------------------|-----|------|
| 8:21.79  | G.SPLITTGERBER   | GER | 2000 | 1:02.79 | STEFAN FUHRMANN   | GER | 2007 | 2:06.84 | J HORKY           | CZE | 1997 |
| 8:25.06  | JASON NIELSON    | USA | 1996 | 1:02.83 | JEFF COMMINGS     | USA | 2003 | 2:06.96 | EDUARDO SCHIESARI | BRA | 2004 |
| 8:26.37  | CRAIG PICKERING  | USA | 2006 | 1:02.87 | HIDEAKI TOGO      | JPN | 1999 | 2:07.07 | JEFF COMMINGS     | USA | 2003 |
| 8:28.33  | ANDREA MARCATO   | ITA | 2002 | 1:03.03 | RYOSUKE IMAI      | JPN | 2007 | 400 M.  | I.M.              |     |      |
| 8:28.96  | M.MICHAELSEN     | GER | 2002 | 1:03.07 | SHIGENORI SATO    | JPN | 2007 | 4:20.94 | DEAN KENT         | NZL | 2005 |
| 8:29.19  | TONY LENNANSSON  | SWE | 1992 | 200 M.  | BRST              |     |      | 4:26.79 | JOHN KEPPELER     | USA | 1995 |
| 8:35.16  | JULIEN BAILLOD   | SUI | 2005 | 2:14.44 | CHRISTOPHER JONES | GBR | 2007 | 4:26.97 | ALEX KOSTICH      | USA | 1997 |
| 1500 M.  | FREE             |     |      | 2:15.42 | SIMON LEIGHFIELD  | AUS | 2002 | 4:28.68 | JULIEN BAILLOD    | SUI | 2007 |
| 15:29.68 | G.ORPHANIDES     | GBR | 2003 | 2:18.21 | FABIO SILVA       | BRA | 2006 | 4:30.99 | MARCEL RINZLER    | USA | 2000 |
| 15:41.81 | ALEX KOSTICH     | USA | 1997 | 2:19.40 | S.YOSHIKURA       | JPN | 2006 | 4:33.17 | JEROME FRENTSOS   | USA | 1995 |
| 16:15.61 | CRAIG PICKERING  | USA | 2006 | 2:19.76 | OLIVER VINENZETTI | GER | 2005 | 4:34.06 | G.ORPHANIDES      | GBR | 2003 |
| 16:16.13 | JOHN CALNAN      | CAN | 2006 | 2:20.30 | AUDY OKTAVIAN     | USA | 2003 | 4:34.11 | A.ANGELOTTI       | BRA | 2000 |
| 16:23.21 | ROB J MACKLE     | USA | 1992 | 2:20.38 | C.BRUNSON         | USA | 2006 | 4:36.12 | CRAIG PICKERING   | USA | 2006 |
| 16:26.54 | TONY DAY         | GBR | 1991 | 2:20.40 | STUART NOTMAN     | GBR | 2004 | 4:36.69 | DAVID GENET       | FRA | 2007 |
| 16:29.14 | RICCARDO RUSSO   | ITA | 2006 | 2:20.43 | ABRAHAM SOLANO    | USA | 1996 |         |                   |     |      |
| 16:31.71 | BERND FELDVOSS   | GER | 1994 | 2:21.23 | SCOTT CAMPEA      | USA | 2000 |         |                   |     |      |
| 16:35.98 | JOHNNY HEWERDINE | CAN | 2005 | 50 M.   | FLY               |     |      |         |                   |     |      |
| 16:36.12 | FUMIO AMANO      | JPN | 2003 | 24.24   | D. BURGESS LAIRD  | USA | 1989 |         |                   |     |      |
| 50 M.    | BACK             |     |      | 24.29   | STEFAN HERBST     | GER | 2004 | 50 M.   | FREE              |     |      |
| 25.05    | STEV THELOKE     | GER | 2004 | 24.66   | LASSE FRANK       | GER | 2007 | 22.68   | AUSTYN SHORTMAN   | GBR | 2003 |
| 25.15    | KEVIN DOAK       | USA | 2007 | 24.68   | NAOKI NAGURA      | JPN | 2007 | 22.76   | ED WAGNER         | USA | 2002 |
| 25.22    | TERO RATY        | FIN | 2004 | 24.80   | ARAKEN MOREIRA    | BRA | 2005 | 22.82   | ROWDY GAINES      | JPN | 1989 |
| 25.43    | MARTIN HARRIS    | GBR | 1994 | 24.84   | LEONARDO FRANCA   | BRA | 2005 | 22.99   | MICHAEL PICOTTE   | USA | 2003 |
| 25.62    | JIRI LEPOLA      | FIN | 2002 | 24.89   | JOAKIM DAHL       | SWE | 2002 | 23.08   | BRIAN JACOBSON    | USA | 2006 |
| 26.00    | MICHAEL KANNER   | USA | 1995 | 24.91   | FRANCIS NASSAR    | BRA | 2002 | 23.15   | LARS-OVE JANSSON  | SWE | 1999 |
| 26.11    | TAKAFUMI OISHI   | JPN | 2005 | 24.95   | S.KUNZELMANN      | GER | 2007 | 23.21   | M.GIALDI          | ITA | 2002 |
| 26.14    | KENTARO NAKAMURA | JPN | 2002 | 24.98   | OSWALDO QUEVEDO   | USA | 2005 | 23.24   | CHRISTOPH BUHLER  | SUI | 2004 |
| 26.21    | JOHN KEPPELER    | USA | 1995 | 100 M.  | FLY               |     |      | 23.27   | ANDRE CORDEIRO    | BRA | 2006 |
| 26.22    | KEITARO KONNAI   | JPN | 2004 | 53.93   | STEFAN HERBST     | GER | 2004 | 23.28   | ANDREW MANLEY     | GBR | 2007 |
| 100 M.   | BACK             |     |      | 54.83   | JASON EADDY       | USA | 2002 | 100 M.  | FREE              |     |      |
| 55.04    | STEFAN HERBST    | GER | 2005 | 54.89   | JEFF DASH         | USA | 2006 | 50.24   | ANDREW MANLEY     | GBR | 2007 |
| 55.15    | TERO RATY        | FIN | 2004 | 54.94   | MARIO MARSHALL    | USA | 2007 | 50.51   | ROWDY GAINES      | JPN | 1989 |
| 55.42    | TAKAFUMI OISHI   | JPN | 2005 | 54.98   | CURTIS SAWIN      | USA | 2000 | 50.53   | KLAUS HUEZ        | ITA | 2004 |
| 55.65    | KEVIN DOAK       | USA | 2007 | 55.03   | YUSUKE ATHARA     | JPN | 2007 | 50.64   | STEPHANE MEYER    | FRA | 2007 |
| 55.76    | JOHN KEPPELER    | USA | 1995 | 55.21   | ARAKEN MOREIRA    | BRA | 2005 | 50.71   | MICHAEL PICOTTE   | USA | 2003 |
| 55.97    | MARTIN HARRIS    | GBR | 1994 | 55.24   | S.KUNZELMANN      | GER | 2007 | 50.94   | JOCHEN BRUHA      | GER | 2001 |
| 56.02    | JIRI LEPOLA      | FIN | 2002 | 55.36   | LASSE FRANK       | GER | 2007 | 50.97   | JOHN KEPPELER     | USA | 1999 |
| 56.24    | DAVID VAN ACKER  | EST | 2007 | 55.48   | HIROAKI AKEBE     | JPN | 2007 | 51.05   | ED WAGNER         | USA | 2002 |
| 56.48    | TAKUMA YAMAOKA   | JPN | 2003 | 200 M.  | FLY               |     |      | 51.37   | OZZIE QUEVEDO     | USA | 2007 |
| 56.51    | MASAKAZU HINATA  | JPN | 2002 | 2:01.72 | YOHEI KATO        | JPN | 2007 | 51.37   | AUSTYN SHORTMAN   | GBR | 2003 |
| 200 M.   | BACK             |     |      | 2:01.74 | LOIC LEROY        | FRA | 2006 | 200 M.  | FREE              |     |      |
| 1:56.22  | STEFAN HERBST    | GER | 2006 | 2:02.05 | KIMITAKA MINOBE   | JPN | 2003 | 1:49.00 | CHRISTOPH HILMER  | GER | 2006 |
| 2:01.14  | DEAN KENT        | NZL | 2005 | 2:02.72 | LASSE FRANK       | GER | 2007 | 1:50.91 | ROWDY GAINES      | JPN | 1989 |
| 2:01.78  | MARTIN HARRIS    | GBR | 1994 | 2:03.59 | JASON EADDY       | USA | 2002 | 1:51.97 | ANDREW MANLEY     | GBR | 2007 |
| 2:02.63  | JOHN KEPPELER    | USA | 1995 | 2:04.83 | SHOTA YAMAGUCHI   | JPN | 2005 | 1:52.04 | JOHN KEPPELER     | USA | 1999 |
| 2:03.19  | SYLVAIN CROS     | FRA | 2007 | 2:05.26 | STEVEN MELLOR     | GBR | 2000 | 1:52.42 | JOCHEN BRUHA      | GER | 2001 |
| 2:03.69  | SHINYA HAYASHI   | JPN | 2006 | 2:05.92 | J.LIPAVSKY        | CZE | 2002 | 1:52.83 | BRUCE HAYES       | USA | 1994 |
| 2:04.07  | DARRYL FOLLOWS   | NZL | 1993 | 2:05.97 | GAVIN LILLEY      | GBR | 1993 | 1:53.66 | DAN STEPHENSON    | USA | 1989 |
| 2:04.62  | TAKUMA YAMAOKA   | JPN | 2007 | 2:06.13 | JEFF DASH         | USA | 2006 | 1:53.69 | BERNIE ZERUHN     | USA | 2005 |
| 2:05.18  | C.SHEPPARD       | USA | 2006 | 100 M.  | I.M.              |     |      | 1:53.81 | NORBERT AGH       | USA | 2001 |
| 2:05.18  | ALEXANDER KAHL   | GER | 2005 | 55.20   | STEFAN HERBST     | GER | 2004 | 1:53.87 | TADAO INEYAMA     | JPN | 2003 |
| 50 M.    | BRST             |     |      | 56.65   | JEFF COMMINGS     | USA | 2003 | 400 M.  | FREE              |     |      |
| 27.69    | RUSS PATRICK     | CAN | 2003 | 56.76   | ATTILA CZENE      | USA | 2001 | 3:58.40 | ALEX KOSTICH      | USA | 2000 |
| 27.76    | EDUARDO FISCHER  | BRA | 2005 | 56.85   | NAOKI NAGURA      | JPN | 2007 | 3:59.83 | BRUCE HAYES       | USA | 1994 |
| 28.11    | NAOKI NAGURA     | JPN | 2006 | 57.04   | JACOB CARSTENSEN  | DEN | 2007 | 4:00.26 | SEBASTIAN WIESE   | GER | 2004 |
| 28.26    | MATTHIAS RUMPF   | GER | 2005 | 57.33   | TERO RATY         | FIN | 2004 | 4:02.66 | ROWDY GAINES      | JPN | 1989 |
| 28.28    | NICOLAS CANIVET  | FRA | 2004 | 57.39   | DEAN KENT         | NZL | 2005 | 4:03.85 | GLAUCO RANGEL     | BRA | 2002 |
| 28.60    | JEFF COMMINGS    | USA | 2003 | 57.40   | ANDREW MANLEY     | GBR | 2003 | 4:05.17 | ROLAND LEE        | GBR | 1996 |
| 28.69    | HIDEAKI TOGO     | JPN | 1999 | 57.57   | JESPER LEVANDER   | SWE | 2006 | 4:05.71 | JEFF UTSCH        | USA | 1997 |
| 28.81    | GUY FARROW       | AUS | 1990 | 57.58   | MARTIN HARRIS     | GBR | 1994 | 4:06.01 | IGOR PIOVESAN     | ITA | 2007 |
| 28.86    | JEREMY LINN      | USA | 2001 | 200 M.  | I.M.              |     |      | 4:06.14 | JOSE CARLOS BAEZ  | ESP | 2007 |
| 28.94    | FABIANO BORGES   | BRA | 2002 | 2:00.56 | STEFAN HERBST     | GER | 2006 | 4:06.26 | FABIEN CZACHOR    | FRA | 2006 |
| 100 M.   | BRST             |     |      | 2:01.58 | DEAN KENT         | NZL | 2005 | 800 M.  | FREE              |     |      |
| 1:00.28  | EDUARDO FISCHER  | BRA | 2005 | 2:03.28 | AURELIEN COQ      | FRA | 2004 | 8:17.06 | ALEX KOSTICH      | USA | 2000 |
| 1:02.31  | MATTHIAS RUMPF   | GER | 2005 | 2:04.17 | YOHEI KATO        | JPN | 2007 | 8:19.13 | SEBASTIAN WIESE   | GER | 2004 |
| 1:02.49  | SIMON LEIGHFIELD | AUS | 2002 | 2:05.66 | ANDREW MANLEY     | GBR | 2004 | 8:19.44 | BRUCE HAYES       | USA | 1994 |
| 1:02.51  | NICOLAS CANIVET  | FRA | 2004 | 2:05.93 | JOHN KEPPELER     | USA | 1995 | 8:32.66 | ANDREA MARCATO    | ITA | 2006 |
| 1:02.61  | RUSS PATRICK     | CAN | 2003 | 2:05.98 | KAZUYA KUROSU     | JPN | 2003 | 8:33.18 | FABIEN CZACHOR    | FRA | 2007 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 8:34.26 DAN STEPHENSON    | USA 1989 | 1:04.10 RYUTARO MORITA    | JPN 2007 | 2:08.43 LORENZO BENUCCI   | USA 1999 |
| 8:34.46 ANTONIO D'ARAI    | ITA 2005 | 1:04.23 FRANK VIJVER      | NED 1994 | 400 M. I.M.               |          |
| 8:34.69 FABIO AFFRICANO   | ITA 2005 | 1:04.33 DAVID GUTHRIE     | USA 1993 | 4:26.74 ROQUE SANTOS      | USA 1999 |
| 8:35.17 TONY LENNARTSSON  | SWE 1995 | 200 M. BRST               |          | 4:29.07 ALEX KOSTICH      | USA 2000 |
| 8:38.75 DAN GOERKE        | USA 1989 | 2:15.72 TOMASZ DUSZYNSKI  | POL 2007 | 4:32.23 JEROME FRENTSOS   | USA 1999 |
| 1500 M. FREE              |          | 2:16.60 NICK GILLINGHAM   | GBR 2001 | 4:34.73 C.SORRENTINO      | ITA 2007 |
| 15:51.07 ALEX KOSTICH     | USA 2000 | 2:17.56 ROQUE SANTOS      | USA 1999 | 4:35.97 BRUCE HAYES       | USA 1994 |
| 16:11.71 ANDREA MARCATO   | ITA 2004 | 2:20.53 ABRAHAM SOLANO    | USA 1999 | 4:38.26 SHIGEO SHIRAISHI  | JPN 2006 |
| 16:15.49 MIKE SHAFFER     | USA 1995 | 2:21.42 JONATHAN BANVILLE | SUI 2003 | 4:40.29 DIEDERIK ROUFFAER | NED 2002 |
| 16:20.43 FABIAN CZACHOR   | FRA 2006 | 2:22.56 SIMONE BATTISTON  | ITA 2006 | 4:40.67 MIGUEL ALCALDE    | ESP 2007 |
| 16:21.25 BRUCE HAYES      | USA 1994 | 2:23.34 RAFFAELE NOTTE    | ITA 2005 | 4:40.91 JOHN MUNRO        | GBR 2006 |
| 16:26.83 JEFF UTSCH       | USA 1997 | 2:24.18 FABRICE BEAUNOIR  | FRA 2007 | 4:41.44 LORENZO BENUCCI   | USA 1999 |
| 16:31.60 FABIO AFFRICANO  | ITA 2007 | 2:24.31 DAISUKE MAEHIRA   | JPN 2007 | *****                     |          |
| 16:36.85 COLIN OVINGTON   | GBR 2001 | 2:24.40 STEPHAN JOE       | USA 2006 | M E N 35-39               |          |
| 16:39.54 FUMIO AMANO      | JPN 2004 | 50 M. FLY                 |          | *****                     |          |
| 16:47.64 EDWIN NORDEN     | NED 1995 | 24.36 HAJIME ITOI         | JPN 2003 | 50 M. FREE                |          |
| 50 M. BACK                |          | 24.64 BRIAN ALDERMAN      | USA 1999 | 21.53 MARK FOSTER         | GBR 2007 |
| 25.54 MARTIN ZUBERO       | USA 2001 | 24.65 OSWALDO QUEVEDO     | USA 2007 | 22.47 JOHN MIRANDA        | SWE 2000 |
| 25.67 HAJIME ITOI         | JPN 2001 | 24.67 ALEXANDER KAHL      | GER 2007 | 23.04 M.GIALDI            | ITA 2004 |
| 25.95 DEREK ROBINSON      | USA 2000 | 24.75 JON WINTER          | NZL 2002 | 23.12 JAN KARLSSON        | SWE 2003 |
| 26.03 MARTIN HARRIS       | GBR 2000 | 24.86 MICHAEL PICOTTE     | USA 2003 | 23.44 MICHAEL ROSS        | USA 2004 |
| 26.13 STEFFEN SCHMOLKE    | GER 2001 | 25.04 STEPHANE MEYER      | FRA 2007 | 23.64 JANNE VIRTANEN      | FIN 2000 |
| 26.20 T.TAKEMURA          | JPN 2007 | 25.06 MICHAEL BOTTOM      | USA 1989 | 23.70 PAULO TRINDADE      | POR 2003 |
| 26.20 TAKAFUMI OISHI      | JPN 2006 | 25.16 PABLO ABAL          | PUR 2007 | 23.75 DAN WEGNER          | USA 2006 |
| 26.27 JON WINTER          | NZL 2002 | 25.20 MASATERU IKEDA      | JPN 2006 | 23.80 MARIYEAR JIMENEZ    | ESP 2007 |
| 26.44 SEBASTIEN BILLON    | FRA 2007 | 100 M. FLY                |          | 23.80 BRUCE STAHL         | USA 1994 |
| 26.58 JAY YARID           | USA 1994 | 54.82 HIROSHI MIURA       | JPN 1996 | 100 M. FREE               |          |
| 100 M. BACK               |          | 54.85 BRIAN ALDERMAN      | USA 1999 | 49.53 JOHN MIRANDA        | SWE 2000 |
| 55.19 MARTIN ZUBERO       | USA 2003 | 55.78 OZZIE QUEVEDO       | USA 2006 | 51.01 RON KARNAUGH        | USA 2003 |
| 55.78 MARTIN HARRIS       | GBR 2000 | 55.82 STEPHANE MEYER      | FRA 2006 | 51.31 MICHAEL ROSS        | USA 2004 |
| 56.14 TAKAFUMI OISHI      | JPN 2006 | 56.01 HIROKI NAKAZONO     | JPN 2007 | 51.43 JOCHEN BRUHA        | GER 2004 |
| 56.25 JOHN KEPPELER       | USA 1999 | 56.02 ANDREW MANLEY       | GBR 2007 | 51.44 JIM HARVEY          | USA 2001 |
| 56.83 JAY YARID           | USA 1993 | 56.08 CURTIS SAWIN        | USA 2001 | 51.79 M.GIALDI            | ITA 2005 |
| 57.02 SEBASTIEN BILLON    | FRA 2007 | 56.35 PETER EGAN          | USA 1995 | 51.98 ERIK HOCHSTEIN      | USA 2003 |
| 57.11 KENTARO NAKAMURA    | JPN 2005 | 56.38 ALEXANDER KAHL      | GER 2006 | 52.23 EDWIN VAN NORDEN    | NED 1999 |
| 57.48 MARK VOGEL          | DEN 2001 | 56.43 MICHAEL BOTTOM      | USA 1989 | 52.50 JEAN-LUC SDRULIG    | BEL 2007 |
| 57.49 NICOLAS GRANGER     | FRA 2001 | 200 M. FLY                |          | 52.64 MARK MORGAN         | AUS 1994 |
| 57.57 PETER OBERGLOCK     | GER 1999 | 2:00.21 HIROSHI MIURA     | JPN 2000 | 200 M. FREE               |          |
| 200 M. BACK               |          | 2:04.59 MIKE SHAFFER      | USA 1995 | 1:51.31 ERIK HOCHSTEIN    | USA 2003 |
| 2:00.43 MARTIN ZUBERO     | USA 2001 | 2:05.68 ERIK HOCHSTEIN    | USA 2002 | 1:51.47 JOCHEN BRUHA      | GER 2004 |
| 2:02.84 TAKAFUMI OISHI    | JPN 2007 | 2:05.93 IAN BECK          | GBR 1995 | 1:51.54 MICHAEL ROSS      | USA 2004 |
| 2:02.91 JOHN KEPPELER     | USA 1999 | 2:06.03 PETER EGAN        | USA 1995 | 1:52.90 RON KARNAUGH      | USA 2002 |
| 2:03.77 JEROME FAROUZE    | FRA 2007 | 2:06.86 SHIGEO SHIRAISHI  | JPN 2006 | 1:53.66 EDWIN VAN NORDEN  | NED 1998 |
| 2:04.63 JAY YARID         | USA 1993 | 2:08.25 JEROME FRENTSOS   | USA 1999 | 1:54.51 MIKE SHAFFER      | USA 2000 |
| 2:04.92 Y.NAKAHARA        | JPN 2000 | 2:08.87 MIGUEL ALCALDE    | ESP 2007 | 1:55.07 F.SILVESTRI       | ITA 2002 |
| 2:05.06 JARED SCHEFFEL    | CAN 2000 | 2:09.03 BERNIE ZERUHN     | USA 2005 | 1:55.28 NICOLAS GRANGER   | FRA 2006 |
| 2:05.57 CHRIS JONES       | GBR 2002 | 2:09.38 JIMMY CHO         | CAN 2006 | 1:55.50 STUART CROMARTY   | USA 2002 |
| 2:05.82 JEFF WELECHUK     | CAN 2003 | 100 M. I.M.               |          | 1:55.56 JUAN C VALLEJO    | ESP 2000 |
| 2:06.10 DARRYL FOLLOWS    | NZL 1999 | 56.36 ATTILA CZENE        | SWE 2004 | 400 M. FREE               |          |
| 50 M. BRST                |          | 56.66 MARTIN ZUBERO       | USA 2003 | 3:57.77 ERIK HOCHSTEIN    | USA 2003 |
| 28.30 JEFF COMMINGS       | USA 2006 | 57.06 SEBASTIEN BILLON    | FRA 2007 | 3:58.50 F.SILVESTRI       | ITA 2002 |
| 28.31 HIDEAKI TOGO        | JPN 2003 | 57.57 JEFF COMMINGS       | USA 2006 | 4:01.78 RON KARNAUGH      | USA 2003 |
| 28.56 ALAN PESSOTTI       | BRA 2007 | 57.84 HIROSHI MIURA       | JPN 1996 | 4:02.35 SEBASTIAN WIESE   | GER 2007 |
| 29.00 NICK POLKINGHORNE   | GBR 2004 | 58.06 C.SORRENTINO        | ITA 2007 | 4:02.52 MIKE SHAFFER      | USA 2000 |
| 29.04 RAFFAELE NOTTE      | ITA 2005 | 58.09 MARTIN HARRIS       | GBR 2000 | 4:03.90 NICOLAS GRANGER   | FRA 2002 |
| 29.10 TOMASZ DUSZYNSKI    | POL 2006 | 58.38 BRIAN JACOBSON      | USA 2005 | 4:06.72 TONY LENNARTSSON  | SWE 2002 |
| 29.14 S. BROWN            | AUS 1990 | 58.40 ENRICO COLLIVA      | ITA 2007 | 4:07.10 DAVID HOUILLON    | FRA 2007 |
| 29.21 DEAN PUTTERMAN      | USA 1996 | 58.54 JONATHAN CHURINS    | USA 2005 | 4:07.22 EDWIN VAN NORDEN  | NED 1998 |
| 29.26 MARTIN JURCO        | GBR 2006 | 200 M. I.M.               |          | 4:07.99 STUART CROMARTY   | USA 2002 |
| 29.31 SEBASTIEN MUFF      | FRA 2006 | 2:04.01 ATTILA CZENE      | SWE 2004 | 800 M. FREE               |          |
| 100 M. BRST               |          | 2:05.59 HIROSHI MIURA     | JPN 2000 | 8:23.06 ERIK HOCHSTEIN    | USA 2003 |
| 1:01.62 JEFF COMMINGS     | USA 2006 | 2:06.15 NICOLAS GRANGER   | FRA 2001 | 8:26.43 MIKE SHAFFER      | USA 2000 |
| 1:02.85 NICK POLKINGHORNE | GBR 2004 | 2:06.32 ROQUE SANTOS      | USA 1999 | 8:29.31 BOBBY PATTEN      | USA 1999 |
| 1:03.47 ALAN PESSOTTI     | BRA 2006 | 2:07.28 ENRICO COLLIVA    | ITA 2007 | 8:32.29 JUAN C VALLEJO    | ESP 2000 |
| 1:03.64 ROQUE SANTOS      | USA 1999 | 2:07.28 JEFF COMMINGS     | USA 2006 | 8:33.28 SEBASTIAN WIESE   | GER 2007 |
| 1:03.66 TOMASZ DUSZYNSKI  | POL 2006 | 2:08.33 BRIAN OLVER       | USA 2007 | 8:33.92 DAVID CASTRO      | BRA 2000 |
| 1:04.00 NICK GILLINGHAM   | GBR 2001 | 2:08.41 EDWIN VAN NORDEN  | NED 1996 | 8:34.62 DAVID HOUILLON    | FRA 2007 |
| 1:04.02 HIDEAKI TOGO      | JPN 2006 | 2:08.42 JEROME FRENTSOS   | USA 1999 |                           |          |



# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                            |          |                           |          |                          |          |
|----------------------------|----------|---------------------------|----------|--------------------------|----------|
| 8:38.57 NICOLAS GRANGER    | FRA 2006 | 1:05.58 RAFFAELE NOTTE    | ITA 2007 | 4:24.36 RON KARNAUGH     | USA 2003 |
| 8:39.00 COLIN OVINGTON     | GBR 2004 | 200 M. BRST               |          | 4:34.06 JEROME FRENTSOS  | USA 2000 |
| 8:39.50 F.SILVESTRI        | ITA 2001 | 2:16.49 NICK GILLINGHAM   | GBR 2004 | 4:37.47 MARCEL RINZLER   | USA 2006 |
| 1500 M. FREE               |          | 2:17.96 RON KARNAUGH      | USA 2002 | 4:39.42 EDWIN VAN NORDEN | NED 1999 |
| 15:58.20 BOBBY PATTEN      | USA 1999 | 2:20.26 WALLY DICKS       | USA 2000 | 4:39.97 DARIUSZ WOLNY    | POL 1999 |
| 16:03.47 MIKE SHAFFER      | USA 2000 | 2:20.49 HAJIME MORIMOTO   | JPN 2003 | 4:40.30 F.SILVESTRI      | ITA 2002 |
| 16:12.88 ERIK HOCHSTEIN    | USA 2003 | 2:20.99 ALBERTO MONTINI   | ITA 2005 | 4:40.84 ROBIN BREW       | GBR 1997 |
| 16:17.38 DANIEL SERRA      | ESP 2007 | 2:22.64 SERGE SCORE       | CAN 1996 | 4:41.25 A.TIBERTI        | ITA 2001 |
| 16:20.54 NICOLAS GRANGER   | FRA 2006 | 2:24.48 JONATHAN BANVILLE | USA 2005 | 4:41.94 ROQUE SANTOS     | USA 2006 |
| 16:36.00 COLIN OVINGTON    | GBR 2004 | 2:24.58 ROQUE SANTOS      | USA 2005 | 4:43.45 LORENZO BENUCCI  | USA 2005 |
| 16:42.96 RANDY EICKHOFF    | USA 2000 | 2:24.93 RAFFAELE NOTTE    | ITA 2007 |                          |          |
| 16:44.80 JIMMY FURRER      | SUI 1996 | 2:25.62 NIGEL MASTERS     | GBR 2007 | *****                    |          |
| 16:46.20 ANTONIO D'ARIA    | ITA 2006 | 50 M. FLY                 |          | M E N 40-44              |          |
| 16:50.44 MICHAEL KLEIBER   | GER 2001 | 24.48 JAN KARLSSON        | SWE 2003 | *****                    |          |
| 50 M. BACK                 |          | 25.20 EIJI NOMURA         | JPN 2007 | 50 M. FREE               |          |
| 25.86 MICHAEL ROSS         | USA 2004 | 25.23 BRIAN ALDERMAN      | USA 2005 | 23.68 R.ALVES SANTOS     | BRA 2003 |
| 26.84 CLAY BRITT           | USA 1996 | 25.29 MICHAEL ROSS        | USA 2004 | 23.75 JOAKIM SJOHOLM     | SWE 2003 |
| 26.87 RON KARNAUGH         | USA 2002 | 25.30 HIDEYUKI CHIGIRA    | JPN 2006 | 23.83 METELLO SAVINO     | ITA 2006 |
| 27.02 MARTIN HARRIS        | NZL 2005 | 25.32 WADE KING           | USA 2002 | 23.87 CYRO DELGADO       | BRA 2005 |
| 27.13 TAKURO KOJIMA        | JPN 2003 | 25.41 MASATERU IKEDA      | JPN 2007 | 23.90 JANNE VIRTANEN     | FIN 2004 |
| 27.14 DEREK ROBINSON       | USA 2004 | 25.41 RON KARNAUGH        | USA 2002 | 23.99 HEBERT HENRY       | CAN 2007 |
| 27.14 JIM HARVEY           | USA 2001 | 25.44 JIM HARVEY          | USA 2001 | 24.00 PAUL SMITH         | USA 2001 |
| 27.17 KLAUS ECKHOF         | AUS 1995 | 25.55 KAZUHIKO YAMAKAWA   | JPN 2004 | 24.09 BRENT BARNES       | JPN 1999 |
| 27.18 GIUSEPPE TIANO       | ITA 2006 | 100 M. FLY                |          | 24.18 CHUCK PONTHER      | USA 2005 |
| 27.30 MARCO ORSINI         | ITA 2005 | 55.85 JIM HARVEY          | USA 2001 | 24.18 ROBERTO TARRICONE  | ITA 2003 |
| 100 M. BACK                |          | 56.28 EIJI NOMURA         | JPN 2007 | 100 M. FREE              |          |
| 55.95 MICHAEL ROSS         | USA 2004 | 56.32 MICHAEL ROSS        | USA 2004 | 52.07 KAI DITZEL         | GER 2004 |
| 56.93 RON KARNAUGH         | USA 2002 | 56.59 TAIHEI SAKA         | JPN 2003 | 52.07 CYRO DELGADO       | BRA 2002 |
| 57.69 CHRIS JONES          | GBR 2006 | 56.62 HIROYUKI NAKAMURA   | JPN 2006 | 52.39 JOAKIM SJOHOLM     | SWE 2004 |
| 58.20 JIM HARVEY           | USA 2001 | 56.73 MIKE SHAFFER        | USA 2000 | 52.44 PAUL SMITH         | USA 2001 |
| 58.25 CLAY BRITT           | USA 1996 | 56.82 MASATERU IKEDA      | JPN 2007 | 52.85 MARK REYNOLDS      | GBR 2005 |
| 58.30 MATTHEW O'CONNOR     | ESP 2006 | 56.86 JOCHEN BRUHA        | GER 2004 | 52.91 METELLO SAVINO     | ITA 2007 |
| 58.36 GIUSEPPE TIANO       | ITA 2007 | 57.02 WILLIAM SPECHT      | USA 1993 | 53.04 MARCEL EKKELBOOM   | GER 2005 |
| 58.50 NICOLAS GRANGER      | FRA 2002 | 57.12 CHARLIE JOHNSON     | USA 2001 | 53.20 JACK GROSELLE      | USA 1998 |
| 58.51 JEFF WELECHUK        | CAN 2007 | 200 M. FLY                |          | 53.25 RICK ABBOTT        | USA 1995 |
| 58.69 MARTIN HARRIS        | NZL 2005 | 2:04.50 BOBBY PATTEN      | USA 1999 | 53.39 PETER MCKINNON     | CAN 2005 |
| 200 M. BACK                |          | 2:05.84 MIKE SHAFFER      | USA 2000 | 53.39 RICARDO SANTOS     | BRA 2003 |
| 2:00.34 RON KARNAUGH       | USA 2002 | 2:06.23 ERIK HOCHSTEIN    | USA 2003 | 200 M. FREE              |          |
| 2:04.21 CHRIS JONES        | GBR 2006 | 2:06.48 WILLIAM SPECHT    | USA 1994 | 1:53.03 KAI DITZEL       | GER 2004 |
| 2:06.95 YOSHIHITO NAKAHARA | JPN 2005 | 2:06.87 TAIHEI SAKA       | JPN 2003 | 1:55.11 F.SILVESTRI      | ITA 2003 |
| 2:07.12 JEROME FRENTSOS    | USA 2000 | 2:07.20 CHARLIE JOHNSON   | USA 1999 | 1:56.06 CYRO DELGADO     | BRA 2005 |
| 2:07.80 MARK VOGEL         | DEN 2006 | 2:08.16 HIROYUKI NAKAMURA | JPN 2005 | 1:56.44 PAUL SMITH       | USA 2001 |
| 2:07.89 JEFF WELECHUK      | CAN 2007 | 2:08.75 JEROME FRENTSOS   | USA 2000 | 1:57.76 BRADLEY HOWE     | USA 2004 |
| 2:08.54 MARCEL RINZLER     | USA 2006 | 2:08.86 DENNIS BAKER      | USA 2000 | 1:57.83 HESS YNTEMA      | USA 1995 |
| 2:08.57 JOHN KEPPELER      | USA 2003 | 2:09.45 MARK MAGEE        | USA 2006 | 1:57.88 MARK REYNOLDS    | GBR 2007 |
| 2:08.97 DARRYL FOLLOWS     | NZL 2002 | 100 M. I.M.               |          | 1:57.92 MICHAEL PRUFERT  | GER 2005 |
| 2:09.45 GIUSEPPE TIANO     | ITA 2006 | 56.94 RON KARNAUGH        | USA 2003 | 1:58.07 DAVID BOATWRIGHT | USA 2003 |
| 50 M. BRST                 |          | 58.36 MICHAEL ROSS        | USA 2006 | 1:58.17 EDWIN VAN NORDEN | NED 2003 |
| 28.75 RON KARNAUGH         | USA 2002 | 58.36 JIM HARVEY          | USA 2001 | 400 M. FREE              |          |
| 28.77 WALLY DICKS          | USA 1998 | 58.97 NICOLAS GRANGER     | FRA 2002 | 4:00.67 KAI DITZEL       | GER 2004 |
| 28.87 GERALD MORKEN        | GER 1997 | 59.05 PETER BERMEL        | GER 2002 | 4:05.30 F.SILVESTRI      | ITA 2003 |
| 28.95 RON DEKKER           | NED 2003 | 59.11 JEROME FRENTSOS     | USA 2000 | 4:06.12 NICOLAS GRANGER  | FRA 2007 |
| 29.05 ANDREA AGOSTINONE    | ITA 2006 | 59.28 CLAY BRITT          | USA 1998 | 4:08.39 MIKE SHAFFER     | USA 2005 |
| 29.37 NICK GILLINGHAM      | GBR 2004 | 59.29 EDWIN VAN NORDEN    | NED 1999 | 4:09.10 WILLIAM SPECHT   | USA 1999 |
| 29.59 JOHANN HOHL          | AUT 2006 | 59.43 HASSE NILSSON       | SWE 2004 | 4:09.31 HESS YNTEMA      | USA 1995 |
| 29.70 EITA TSUMURA         | JPN 2006 | 59.58 JEAN-LUC SDRAULIG   | BEL 2007 | 4:09.81 MICHAEL KLEIBER  | GER 2003 |
| 29.89 HAJIME MORIMOTO      | JPN 2004 | 200 M. I.M.               |          | 4:10.07 MICHAEL PRUFERT  | GER 2005 |
| 29.90 FABIO CAVALLI        | ITA 2005 | 2:03.29 RON KARNAUGH      | USA 2002 | 4:11.94 GRAHAM WELBOURN  | CAN 2003 |
| 100 M. BRST                |          | 2:07.21 JIM HARVEY        | USA 2001 | 4:13.17 RICARDO VALDIVIA | USA 2006 |
| 1:02.57 RON KARNAUGH       | USA 2002 | 2:07.31 NICOLAS GRANGER   | FRA 2004 | 800 M. FREE              |          |
| 1:02.62 NICK GILLINGHAM    | GBR 2004 | 2:07.60 PETER BERMEL      | GER 2002 | 8:31.69 KAI DITZEL       | GER 2005 |
| 1:02.79 WALLY DICKS        | USA 2000 | 2:08.21 EDWIN VAN NORDEN  | NED 1999 | 8:33.16 F.SILVESTRI      | ITA 2003 |
| 1:04.02 GERALD MORKEN      | GER 1997 | 2:08.34 JEROME FRENTSOS   | USA 2000 | 8:33.19 MICHAEL KLEIBER  | GER 2003 |
| 1:04.37 RON DEKKER         | NED 2003 | 2:08.79 CHRIS JONES       | GBR 2006 | 8:36.66 NICOLAS GRANGER  | FRA 2007 |
| 1:04.38 HAJIME MORIMOTO    | JPN 2004 | 2:09.92 LORENZO BENUCCI   | USA 2005 | 8:38.31 MICHAEL PRUFERT  | GER 2004 |
| 1:04.68 ALBERTO MONTINI    | ITA 2003 | 2:09.93 MARCEL RINZLER    | USA 2007 | 8:40.40 RICARDO VALDIVIA | USA 2007 |
| 1:04.84 ANDREA AGOSTINONE  | ITA 2007 | 2:10.84 ROBIN BREW        | GBR 1997 | 8:41.16 MIKE SHAFFER     | USA 2006 |
| 1:04.89 EITA TSUMURA       | JPN 2006 | 400 M. I.M.               |          | 8:46.43 GRAHAM WELBOURN  | CAN 2003 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                          |          |
|---------------------------|----------|---------------------------|----------|--------------------------|----------|
| 8:46.71 DENNIS BAKER      | USA 2004 | 1:07.81 MARCO BOBBIO      | ITA 2004 | 4:35.57 NICOLAS GRANGER  | FRA 2007 |
| 8:46.89 BRETT PHILLIPS    | USA 2001 | 200 M. BRST               |          | 4:37.02 DARIUSZ WOLNY    | POL 2000 |
| 1500 M. FREE              |          | 2:25.58 RON SCHAFFER      | USA 1997 | 4:43.28 HESS YNTEMA      | USA 1995 |
| 16:23.95 F.SILVESTRI      | ITA 2003 | 2:26.59 WALLY DICKS       | USA 2006 | 4:44.06 LORENZO BENUCCI  | USA 2007 |
| 16:28.84 MIKE SHAFFER     | USA 2005 | 2:26.93 PLAMEN ALEXANDROV | USA 2002 | 4:44.38 DENNIS BAKER     | USA 2005 |
| 16:37.00 KAI DITZEL       | GER 2005 | 2:27.09 EDWIN VAN NORDEN  | NED 2003 | 4:47.16 MIKE SHAFFER     | USA 2005 |
| 16:37.00 MICHAEL KLEIBER  | GER 2003 | 2:28.17 CHRIS WEISSMAN    | USA 2003 | 4:47.23 LEN GUSHE        | CAN 2005 |
| 16:42.00 GEORGE TIDMARSH  | USA 2003 | 2:29.12 SEAN FRAMPTON     | USA 2006 | 4:47.32 F.SILVESTRI      | ITA 2003 |
| 16:51.71 HESS YNTEMA      | USA 1995 | 2:29.20 JEAN MELLADO      | FRA 2007 | 4:48.90 WOJTECH BLECHAR  | GER 2005 |
| 16:52.71 BOBBY PATTEN     | USA 2003 | 2:29.86 A.O DRISCOLL      | GBR 2000 | 4:49.57 LINCOLN DJANG    | USA 2003 |
| 17:04.30 A.LAVEGLIA       | ITA 2006 | 2:30.67 SPRNCER ELDRED    | USA 1996 |                          |          |
| 17:05.50 STEFANO SEGUITI  | ITA 2002 | 2:30.67 THOMAS KIPP       | GER 2005 | *****                    |          |
| 17:05.75 LEN GUSHE        | CAN 2005 | 50 M. FLY                 |          | M E N 45-49              |          |
| 50 M. BACK                |          | 25.13 HARTMUT BERNER      | GER 2005 | *****                    |          |
| 26.80 CHRIS STEVENSON     | USA 2007 | 25.43 ROBERTO TARRICONE   | ITA 2004 | 50 M. FREE               |          |
| 27.28 ERIC ERICSON        | USA 2002 | 25.84 STEVE HILTABIDDLE   | USA 2007 | 24.02 BRENT BARNES       | JPN 2006 |
| 27.44 J CLAY BRITT        | USA 2001 | 25.88 TAIHEI SAKA         | JPN 2004 | 24.09 V.GALAVTINE        | RUS 1998 |
| 27.46 FRITZ LEHMAN        | USA 2002 | 25.89 WILLIAM SPECHT      | USA 1998 | 24.23 DMITRI KHODKO      | RUS 2006 |
| 27.49 CRAIG NORREY        | SUI 2005 | 25.90 CHUCK PONTHER       | USA 2005 | 24.29 PAUL SMITH         | USA 2007 |
| 27.56 SHUJI AZUMA         | JPN 2007 | 25.93 JIM HARVEY          | USA 2007 | 24.41 JIM SORENSEN       | USA 2007 |
| 27.58 JIM HARVEY          | USA 2007 | 26.00 FRANK STUWE         | GER 2007 | 24.42 JOE REINHARDT      | USA 2006 |
| 27.69 ROSS DAVIS          | USA 2007 | 26.01 PAUL SMITH          | USA 2001 | 24.49 MARK NOETZEL       | USA 2007 |
| 27.78 HIROYOSHI MAETOGE   | JPN 2005 | 26.02 GABRIELE MAINI      | ITA 2005 | 24.50 HODDING CARTER     | USA 2007 |
| 27.80 ANDREA TOJA         | ITA 2006 | 100 M. FLY                |          | 24.68 CYRO DELGADO       | BRA 2006 |
| 100 M. BACK               |          | 56.18 WILLIAM SPECHT      | USA 1998 | 24.70 JAN KOEN ANTHONI   | NED 1995 |
| 57.47 CHRIS STEVENSON     | USA 2007 | 56.50 JIM HARVEY          | USA 2007 | 100 M. FREE              |          |
| 57.66 ERIC ERICSON        | USA 2002 | 56.62 HARTMUT BERNER      | GER 2005 | 52.54 PAUL SMITH         | USA 2007 |
| 58.28 J CLAY BRITT        | USA 2003 | 56.82 TAIHEI SAKA         | JPN 2004 | 53.04 MARCO COLOMBO      | ITA 2005 |
| 59.26 WILLIAM SPECHT      | USA 1998 | 57.53 ROBERTO TARRICONE   | ITA 2003 | 53.61 BRENT BARNES       | JPN 2006 |
| 59.91 HIROYOSHI MAETOGE   | JPN 2005 | 57.56 MARCEL EKKELBOOM    | GER 2005 | 53.76 DAVID BOATWRIGHT   | USA 2006 |
| 59.94 EDWIN VAN NORDEN    | NED 2003 | 57.65 ANDREA TOJA         | ITA 2006 | 54.13 HODDING CARTER     | USA 2007 |
| 59.99 SHUJI AZUMA         | JPN 2007 | 57.70 MIKE SHAFFER        | USA 2007 | 54.13 V.GALAVTINE        | RUS 1998 |
| 1:00.04 JIM HARVEY        | USA 2007 | 57.77 PAUL CARTER         | USA 2001 | 54.21 CRAIG NORREY       | GBR 2007 |
| 1:00.39 JAY YARID         | USA 2006 | 58.05 ROBERTO CLAUSI JR   | BRA 2004 | 54.34 JACK GROSELLE      | USA 2003 |
| 1:00.46 PETER MCKINNON    | CAN 2005 | 200 M. FLY                |          | 54.43 G.GIGLIETTI        | ITA 2007 |
| 200 M. BACK               |          | 2:02.97 WILLIAM SPECHT    | USA 1998 | 54.43 MARK NOETZEL       | USA 2007 |
| 2:06.11 CHRIS STEVENSON   | USA 2007 | 2:06.48 DENNIS BAKER      | USA 2005 | 54.47 CYRO DELGADO       | BRA 2006 |
| 2:08.26 ERIC ERICSON      | USA 2002 | 2:07.64 MIKE SHAFFER      | USA 2006 | 200 M. FREE              |          |
| 2:09.61 WILLIAM SPECHT    | USA 1998 | 2:08.46 JAMES BELARDI     | USA 1997 | 1:56.00 PAUL SMITH       | USA 2007 |
| 2:10.51 EDWIN VAN NORDEN  | NED 2004 | 2:09.09 HESS YNTEMA       | USA 1995 | 1:56.74 MARCUS MATTIOLI  | BRA 2006 |
| 2:10.73 LEN GUSHE         | CAN 2005 | 2:11.10 A.LAVEGLIA        | ITA 2007 | 1:57.32 MARCO COLOMBO    | ITA 2007 |
| 2:11.17 FRITZ LEHMAN      | USA 2002 | 2:11.34 TAIHEI SAKA       | JPN 2007 | 1:59.53 JIM SORENSEN     | USA 2007 |
| 2:13.35 N.LECHEVALIER     | FRA 2007 | 2:12.65 A.TIBERTI         | ITA 2004 | 2:00.13 TIM BRODERICK    | USA 1996 |
| 2:13.44 DAVE TOWN         | CAN 2002 | 2:13.12 OLIVIER GALLET    | FRA 2006 | 2:00.16 DAVID BOATWRIGHT | USA 2006 |
| 2:13.93 PETER MCKINNON    | CAN 2005 | 2:13.20 MARC CHALANSONNET | FRA 2006 | 2:01.47 BOB BUGG         | USA 2004 |
| 2:14.20 PETER BERMEI      | GER 2007 | 100 M. I.M.               |          | 2:01.89 BRENT BARNES     | JPN 2003 |
| 50 M. BRST                |          | 59.57 ROBERTO TARRICONE   | ITA 2003 | 2:01.98 LEE MENCH        | USA 1997 |
| 29.49 WOLFGANG JARMER     | GER 2006 | 59.66 PETER BERMEI        | GER 2007 | 2:02.31 ANDERS HAGLUND   | SWE 2007 |
| 29.50 GERHARD AMMER       | GER 1999 | 59.78 JIM HARVEY          | USA 2007 | 400 M. FREE              |          |
| 29.90 PLAMEN ALEXANDROV   | USA 2001 | 59.95 SHUJI AZUMA         | JPN 2007 | 4:08.93 MARCUS MATTIOLI  | BRA 2005 |
| 29.92 WALLY DICKS         | USA 2007 | 1:00.43 NICOLAS GRANGER   | FRA 2007 | 4:11.02 MARCO COLOMBO    | ITA 2007 |
| 30.14 MARCO BOBBIO        | ITA 2004 | 1:00.43 JOAKIM SJOHOLM    | SWE 2004 | 4:14.73 JIM MCCONICA     | USA 1999 |
| 30.15 ROBERTO TARRICONE   | ITA 2004 | 1:00.44 EDWIN VAN NORDEN  | NED 2003 | 4:15.62 B.BORDONALI      | ITA 2007 |
| 30.16 PEDRO HERNANDEZ     | PUR 2005 | 1:00.54 J CLAY BRITT      | USA 2001 | 4:18.03 JIMMY FURRER     | SUI 2004 |
| 30.18 CHRIS WEISSMAN      | USA 2003 | 1:00.80 MARCEL EKKELBOOM  | GER 2005 | 4:18.44 TIM BRODERICK    | USA 1996 |
| 30.29 SEAN FRAMPTON       | USA 2006 | 1:00.90 HARTMUT BERNER    | GER 2005 | 4:20.22 MICHAEL SCHMIDT  | USA 2007 |
| 30.31 MAKOTO ONODERA      | JPN 2007 | 200 M. I.M.               |          | 4:20.25 STEVE SUSSEX     | USA 2000 |
| 30.31 DON SMITH           | USA 2001 | 2:07.96 PETER BERMEI      | GER 2007 | 4:20.85 MARK DRENNEN     | USA 2005 |
| 100 M. BRST               |          | 2:08.77 NICOLAS GRANGER   | FRA 2007 | 4:21.20 WILLIAM SPECHT   | USA 2003 |
| 1:05.79 PLAMEN ALEXANDROV | USA 2002 | 2:10.41 LORENZO BENUCCI   | USA 2007 | 800 M. FREE              |          |
| 1:05.84 WALLY DICKS       | USA 2006 | 2:12.25 JIM SORENSEN      | USA 1998 | 8:52.40 GERRY RODRIGUES  | USA 2007 |
| 1:06.21 CHRIS WEISSMAN    | USA 2003 | 2:12.86 EDWIN VAN NORDEN  | NED 2006 | 8:53.58 B.BORDONALI      | ITA 2007 |
| 1:06.50 RON SCHAFFER      | USA 1997 | 2:13.04 DARIUSZ WOLNY     | POL 2000 | 8:56.08 TIM BRODERICK    | USA 1996 |
| 1:06.51 PEDRO HERNANDEZ   | PUR 2005 | 2:13.33 DAVE TOWN         | CAN 2003 | 8:59.81 MARK DRENNEN     | USA 2005 |
| 1:06.56 SEAN FRAMPTON     | USA 2006 | 2:13.92 STEPHEN SMITH     | USA 2006 | 9:01.57 JIMMY FURRER     | SUI 2004 |
| 1:06.62 SHUJI AZUMA       | JPN 2007 | 2:14.70 GILLES DESCHENES  | CAN 2007 | 9:07.19 MICHAEL SCHMIDT  | USA 2007 |
| 1:07.43 FABIO CAVALLI     | ITA 2007 | 2:15.01 ANDERS RASMUSSEN  | USA 2004 | 9:07.63 STEVE SUSSEX     | USA 2000 |
| 1:07.78 THOMAS LIGL       | GER 2005 | 400 M. I.M.               |          | 9:07.81 PASCAL MURCURI   | FRA 2006 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 9:07.88 FRANK CHRISTIAN   | AUS 2005 | 200 M. BRST               |          | 4:53.84 DAVE TOWN         | CAN 2007 |
| 9:08.02 MATTHEW BAILEY    | USA 2006 | 2:26.17 DAVID GUTHRIE     | USA 2007 | 4:54.89 SIMON VEALE       | GBR 2004 |
| 1500 M. FREE              |          | 2:29.89 CHRIS WEISSMAN    | USA 2007 | 4:56.40 PAUL CARTER       | USA 2004 |
| 16:43.02 MARCUS MATTIOLI  | BRA 2006 | 2:30.67 GLENN MILLS       | USA 2007 | 4:57.31 GREG DOZER        | USA 2002 |
| 16:51.21 JIM MCCONICA     | USA 1999 | 2:31.41 GREGORY OXLEY     | USA 2003 | 4:57.34 TOM REUDY         | USA 1999 |
| 16:52.13 B.BORDONALI      | ITA 2007 | 2:31.73 GLEN CHRISTIANSEN | SWE 2002 | 4:57.94 LORENZO MARUGO    | ITA 1998 |
| 16:56.31 MARK DRENNEN     | USA 2004 | 2:32.29 JON BLANK         | USA 2005 | 4:59.16 MICHAEL SCHMIDT   | USA 2007 |
| 17:00.23 JIMMY FURRER     | SUI 2004 | 2:33.37 SPENCER ELDRED    | USA 2003 | 4:59.97 MARK DRENNEN      | USA 2005 |
| 17:13.48 DJAN MADRUGA     | BRA 2006 | 2:33.67 A.O'DRISCOLL      | GBR 2004 | 5:00.60 B.BORDONALI       | ITA 2006 |
| 17:17.47 GERRY RODRIGUES  | USA 2007 | 2:33.83 PAT ALLENDER      | USA 2003 |                           |          |
| 17:19.87 TIM BRODERICK    | USA 1996 | 2:34.24 RICK COLELLA      | USA 2000 | *****                     |          |
| 17:25.27 FRANK CHRISTIAN  | AUS 2005 | 50 M. FLY                 |          | M E N 50-54               |          |
| 17:32.60 STEFANO SEGUITI  | ITA 2004 | 25.82 PAUL SMITH          | USA 2007 | *****                     |          |
| 50 M. BACK                |          | 25.84 PAUL CARTER         | USA 2003 | 50 M. FREE                |          |
| 27.24 CLAY BRITT          | USA 2006 | 26.52 MARCO COLOMBO       | ITA 2006 | 24.26 PAUL TREVISAN       | USA 2003 |
| 27.58 CRAIG NORREY        | SUI 2006 | 26.55 RAMON VOLCAN        | VEN 2006 | 24.74 V.GALAVTINE         | FRA 2003 |
| 27.99 STEVE WOOD          | USA 2005 | 26.79 HODDING CARTER      | USA 2007 | 24.86 PHILIPPE MORELLE    | BEL 2006 |
| 28.40 FRITZ LEHMAN        | USA 2003 | 26.82 BRENT BARNES        | JPN 2003 | 25.00 LARRY KRAUSER       | USA 2003 |
| 28.52 MARCO COLOMBO       | ITA 2007 | 26.84 MARIO LLORET        | ESP 2004 | 25.09 EMIL PLESNIK        | GER 1993 |
| 28.73 HIROSHI SHIBUYA     | JPN 2005 | 26.84 RICK ABBOTT         | USA 2003 | 25.14 BARRY ROTH          | USA 2005 |
| 28.80 V.GALAVTINE         | FRA 2001 | 26.87 WILLIAM SPECHT      | USA 2003 | 25.21 JOHN FERRIS         | USA 2000 |
| 28.81 CASEY CLAFLIN       | USA 1999 | 26.88 CRAIG NORREY        | GBR 2007 | 25.27 JACK GROSELLE       | USA 2005 |
| 28.94 WILLIAM SPECHT      | USA 2004 | 100 M. FLY                |          | 25.29 ROGER HAWKINS       | USA 2000 |
| 28.98 HODDING CARTER      | USA 2007 | 57.17 PAUL CARTER         | USA 2003 | 25.42 MIKE MCINTYRE       | CAN 2004 |
| 100 M. BACK               |          | 58.02 PAUL SMITH          | USA 2007 | 100 M. FREE               |          |
| 58.48 CLAY BRITT          | USA 2006 | 58.10 WILLIAM SPECHT      | USA 2004 | 54.61 PAUL TREVISAN       | USA 2003 |
| 1:00.09 FRITZ LEHMAN      | USA 2003 | 58.35 DENNIS BAKER        | USA 2006 | 55.35 JACK GROSELLE       | USA 2007 |
| 1:01.57 MARCO COLOMBO     | ITA 2007 | 59.63 PAUL MORRIS         | GBR 2004 | 55.37 LEE MENCH           | USA 2003 |
| 1:01.60 CRAIG NORREY      | SUI 2006 | 1:00.01 JAMES BALLARD     | USA 2003 | 55.51 LARRY KRAUSER       | USA 2003 |
| 1:01.81 WIESLAW MUSIAL    | CAN 2003 | 1:00.07 MARCUS MATTIOLI   | BRA 2007 | 55.71 BRUCE ROBERTSON     | CAN 2003 |
| 1:02.16 PETER WIESE       | GER 2006 | 1:00.09 JOHN VAN BUUREN   | CAN 2003 | 55.81 JIM MC CONICA       | USA 2001 |
| 1:02.19 STEVE WOOD        | USA 2007 | 1:00.53 JIM SORENSEN      | USA 2007 | 55.81 TERRY DOWNES        | RSA 1999 |
| 1:02.31 V.GALAVTINE       | FRA 2000 | 1:00.71 V.GALAVTINE       | RUS 1998 | 55.83 PHILIPPE MORELLE    | BEL 2006 |
| 1:02.63 PHILIPP DJANG     | USA 2000 | 200 M. FLY                |          | 55.95 JOHN VAN BUUREN     | CAN 2005 |
| 1:03.19 CASEY CLAFLIN     | USA 2000 | 2:06.40 DENNIS BAKER      | USA 2006 | 55.95 ALEXANDER MILLS     | GBR 2005 |
| 200 M. BACK               |          | 2:09.06 WILLIAM SPECHT    | USA 2003 | 200 M. FREE               |          |
| 2:12.10 WIESLAW MUSIAL    | CAN 2003 | 2:09.58 MARCUS MATTIOLI   | BRA 2006 | 1:58.37 JIM MCCONICA      | USA 2000 |
| 2:13.36 FRITZ LEHMAN      | USA 2003 | 2:14.85 DAMIANO NANETTI   | ITA 2007 | 2:02.87 BOB BUGG          | USA 2007 |
| 2:13.42 DJAN MADRUGA      | BRA 2005 | 2:15.14 HUGO BREGMAN      | NED 2006 | 2:03.10 LARRY KRAUSER     | USA 2003 |
| 2:15.08 MARCO COLOMBO     | ITA 2007 | 2:16.86 JOHN CRAIG        | USA 2000 | 2:03.74 JACK GROSELLE     | USA 2007 |
| 2:16.30 PETER WIESE       | GER 2006 | 2:17.30 PAUL MORRIS       | GBR 2004 | 2:03.80 LEE MENCH         | USA 2003 |
| 2:16.39 WILLIAM SPECHT    | USA 2004 | 2:17.31 MICHAEL SCHMIDT   | USA 2007 | 2:03.94 MARK DRENNEN      | USA 2006 |
| 2:16.48 JAMES BALLARD     | USA 2003 | 2:18.31 DAVID VANDAM      | USA 2000 | 2:04.46 BRUCE ROBERTSON   | CAN 2003 |
| 2:17.11 DARIUSZ WOLNY     | POL 2005 | 2:18.88 FRANK CHRISTIAN   | AUS 2005 | 2:04.63 FRANCIS CHRISTIAN | AUS 2007 |
| 2:17.63 HIROSHI SHIBUYA   | JPN 2007 | 100 M. I.M.               |          | 2:04.73 BRADFORD GANDEE   | USA 2006 |
| 2:18.86 SHAWN O'GORMAN    | USA 2005 | 1:00.29 MARCO COLOMBO     | ITA 2006 | 2:05.27 SIMON VEALE       | GBR 2006 |
| 50 M. BRST                |          | 1:00.66 CLAY BRITT        | USA 2006 | 400 M. FREE               |          |
| 30.13 GLEN CHRISTIANSEN   | SWE 2002 | 1:00.84 PAUL SMITH        | USA 2007 | 4:07.99 JIM MCCONICA      | USA 2000 |
| 30.39 DAVID GUTHRIE       | USA 2007 | 1:01.67 CHRIS WEISSMAN    | USA 2007 | 4:18.96 MARK DRENNEN      | USA 2006 |
| 30.48 FALTMAN MAGNUS      | SWE 2004 | 1:02.20 GREGORY OXLEY     | USA 2003 | 4:22.77 FRANCIS CHRISTIAN | AUS 2007 |
| 30.77 CHRIS WEISSMAN      | USA 2007 | 1:02.33 CRAIG NORREY      | GBR 2007 | 4:26.37 LARRY KRAUSER     | USA 2003 |
| 30.83 GREGORY OXLEY       | USA 2003 | 1:02.47 FRITZ LEHMAN      | USA 2005 | 4:27.55 JIM CLEMMONS      | USA 2002 |
| 30.85 MASAAKI OTSUKI      | JPN 2006 | 1:02.92 CYRO DELGADO      | BRA 2006 | 4:28.64 LEE MENCH         | USA 2003 |
| 30.94 GLENN MILLS         | USA 2007 | 1:02.99 TOM REUDY         | USA 1999 | 4:28.84 R TOD SPIEKER     | USA 1999 |
| 31.13 RONNY OLTNER        | SWE 2005 | 1:03.01 JOE REINHARDT     | USA 2006 | 4:29.87 SIMON VEALE       | GBR 2006 |
| 31.14 ANDREAS DIEHL       | GER 2007 | 200 M. I.M.               |          | 4:30.71 TIM ERICKSON      | USA 2006 |
| 31.24 LEE RIDER           | USA 2001 | 2:15.31 MARCO COLOMBO     | ITA 2007 | 4:32.57 J.CLAUDE CHATARD  | FRA 2005 |
| 100 M. BRST               |          | 2:16.53 DAVE TOWN         | CAN 2006 | 800 M. FREE               |          |
| 1:06.39 CHRIS WEISSMAN    | USA 2007 | 2:16.56 PAUL SMITH        | USA 2004 | 8:44.51 JIM MCCONICA      | USA 2000 |
| 1:06.44 DAVID GUTHRIE     | USA 2007 | 2:16.68 PETER WIESE       | GER 2006 | 8:53.48 MARK DRENNEN      | USA 2006 |
| 1:06.48 GLEN CHRISTIANSEN | SWE 2004 | 2:16.97 TOM REUDY         | USA 1999 | 9:08.63 FRANCIS CHRISTIAN | AUS 2007 |
| 1:07.76 GLENN MILLS       | USA 2007 | 2:17.15 JIM SORENSEN      | USA 2007 | 9:11.92 JIM CLEMMONS      | USA 2002 |
| 1:07.77 GREGORY OXLEY     | USA 2003 | 2:18.40 MARCUS MATTIOLI   | BRA 2005 | 9:12.81 R TOD SPIEKER     | USA 1998 |
| 1:07.88 JON BLANK         | USA 2007 | 2:18.75 GREGORY OXLEY     | USA 2003 | 9:17.45 SIMON VEALE       | GBR 2006 |
| 1:08.09 LEE RIDER         | USA 2001 | 2:18.76 KLAUS SPRANZ      | GER 2005 | 9:24.76 LARRY KRAUSER     | USA 2003 |
| 1:08.54 THOMAS LIGL       | GER 2006 | 2:19.18 GREG DOZER        | USA 2002 | 9:27.32 MARC JOUANDON     | FRA 2007 |
| 1:08.80 A.O'DRISCOLL      | GBR 2005 | 400 M. I.M.               |          | 9:29.60 J.CLAUDE CHATARD  | FRA 2005 |
| 1:09.21 DOUG MALCOLM      | USA 2005 | 4:48.97 LINCOLN DJANG     | USA 2004 | 9:30.09 EDDIE RIACH       | GBR 2004 |

|                            |          |             |                   |          |         |               |          |
|----------------------------|----------|-------------|-------------------|----------|---------|---------------|----------|
| 1500 M. FREE               |          | 2:34.71     | ROBERT STRAND     | USA 1996 | 5:03.99 | TOM REUDY     | USA 2006 |
| 16:33.02 JIM MCCONICA      | USA 2000 | 2:35.88     | TOM REUDY         | USA 2006 | 5:04.49 | SIMON VEALE   | GBR 2006 |
| 17:14.75 MARK DRENNEN      | USA 2007 | 2:36.57     | TIMOTHY SHEAD     | RSA 2002 | 5:05.09 | GREG SHAW     | USA 2003 |
| 17:32.20 JIM CLEMMONS      | USA 2001 | 2:36.78     | GLEN CHRISTIANSEN | SWE 2007 | 5:06.89 | JIM CLEMMONS  | USA 2003 |
| 17:34.08 SIMON VEALE       | GBR 2007 | 2:37.34     | SPENCER ELDRED    | USA 2007 | 5:09.10 | VOLKER MENDE  | GER 2007 |
| 17:36.51 R TOD SPIEKER     | USA 1999 | 2:39.39     | PETER KAUCH       | GER 2007 | 5:11.33 | ROB WEYHENKE  | NED 2003 |
| 17:40.72 FRANCIS CHRISTIAN | AUS 2007 | 2:40.39     | BARRY O'BRIEN     | GBR 2007 | 5:12.31 | R TOD SPIEKER | USA 1999 |
| 17:48.71 LARRY KRAUSER     | USA 2003 | 2:40.66     | TAKEO HIRAMOTO    | JPN 2003 |         |               |          |
| 17:58.01 LARRY WOOD        | USA 2004 | 2:40.78     | ROBERT WEYHENKE   | NED 2005 |         |               |          |
| 18:04.37 STEVEN PRESCOTT   | NZL 2004 | 50 M. FLY   |                   |          |         |               |          |
| 18:07.49 MIKE SHERRILL     | USA 2001 | 26.12       | PAUL CARTER       | USA 2007 |         |               |          |
| 50 M. BACK                 |          | 26.79       | GREG SHAW         | USA 2003 |         |               |          |
| 28.96 V.GALAVTINE          | FRA 2004 | 27.04       | DONALD GRAHAM     | USA 2006 |         |               |          |
| 29.20 MIKE MCINTYRE        | CAN 2004 | 27.28       | MARIO LLORET      | ESP 2007 |         |               |          |
| 29.23 JOHN VAN BUUREN      | CAN 2004 | 27.30       | JOHN VAN BUUREN   | CAN 2004 |         |               |          |
| 29.30 TOM WOLF             | USA 2004 | 27.45       | PHILIPPE MORELLE  | BEL 2007 |         |               |          |
| 29.38 WIESLAW MUSIAL       | CAN 2007 | 27.49       | FREDERICK EHMKE   | USA 2004 |         |               |          |
| 29.50 HUGH WILDER          | USA 1997 | 27.52       | RICK ABBOTT       | USA 2005 |         |               |          |
| 29.56 JONATHAN KLEIN       | USA 2007 | 27.55       | STEVE BOROWSKI    | USA 1998 |         |               |          |
| 29.68 MARIO LLORET         | ESP 2007 | 27.62       | MARK PUGLIESE     | USA 2003 |         |               |          |
| 29.73 SIMON VEALE          | GBR 2007 | 100 M. FLY  |                   |          |         |               |          |
| 29.84 MARK PUGLIESE        | USA 2003 | 57.29       | PAUL CARTER       | USA 2007 |         |               |          |
| 100 M. BACK                |          | 1:00.08     | JOHN MCCALL       | USA 2003 |         |               |          |
| 1:01.48 TOM WOLF           | USA 2004 | 1:00.32     | GREG SHAW         | USA 2005 |         |               |          |
| 1:02.39 V.GALAVTINE        | FRA 2004 | 1:00.82     | JOHN VAN BUUREN   | CAN 2005 |         |               |          |
| 1:02.92 WIESLAW MUSIAL     | CAN 2007 | 1:01.40     | ROBERT HANSEN     | USA 2004 |         |               |          |
| 1:03.77 PHILIPP DJANG      | USA 2006 | 1:01.60     | MARIO LLORET      | ESP 2007 |         |               |          |
| 1:04.17 HUGH WILDER        | USA 1997 | 1:01.64     | SCOTT LAUTMAN     | USA 2005 |         |               |          |
| 1:04.31 MARIO LLORET       | ESP 2007 | 1:02.21     | FRED SCHLICHER    | USA 2001 |         |               |          |
| 1:04.52 JOHN VAN BUUREN    | CAN 2005 | 1:02.28     | LEONARD BIELICZ   | SWE 2003 |         |               |          |
| 1:05.05 TIM BIRNIE         | USA 1997 | 1:02.46     | V.GALAVTINE       | FRA 2004 |         |               |          |
| 1:05.06 JOHN MARCH         | CAN 2003 | 200 M. FLY  |                   |          |         |               |          |
| 1:05.14 MIKE MCINTYRE      | CAN 2004 | 2:18.02     | SCOTT LAUTMAN     | USA 2004 |         |               |          |
| 200 M. BACK                |          | 2:18.88     | JOHN CRAIG        | USA 2004 |         |               |          |
| 2:13.51 WIESLAW MUSIAL     | CAN 2007 | 2:19.51     | FRANCIS CHRISTIAN | AUS 2007 |         |               |          |
| 2:14.03 TOM WOLF           | USA 2004 | 2:20.26     | GREG SHAW         | USA 2003 |         |               |          |
| 2:20.01 PHILIPP DJANG      | USA 2005 | 2:20.86     | JIM OCONNOR       | USA 2003 |         |               |          |
| 2:20.42 R TOD SPIEKER      | USA 1999 | 2:21.58     | BOO GRANER GALLAS | USA 1997 |         |               |          |
| 2:20.86 JIM MC CONICA      | USA 2002 | 2:21.64     | SEIICHI YARITA    | JPN 2007 |         |               |          |
| 2:22.12 MIKE MCINTYRE      | CAN 2004 | 2:21.70     | BART MCDERMOTT    | USA 2006 |         |               |          |
| 2:22.59 V.GALAVTINE        | FRA 2004 | 2:22.20     | JIM O'CONNOR      | USA 2006 |         |               |          |
| 2:22.81 JOHN MARCH         | CAN 2003 | 2:22.36     | FRED SCHLICHER    | USA 2002 |         |               |          |
| 2:23.80 TIM BIRNIE         | USA 1998 | 100 M. I.M. |                   |          |         |               |          |
| 2:24.36 ALAN GODFREY       | AUS 2007 | 1:03.32     | MARIO LLORET      | ESP 2007 |         |               |          |
| 50 M. BRST                 |          | 1:03.54     | TIMOTHY SHEAD     | RSA 2002 |         |               |          |
| 31.06 RONNY OLTNER         | SWE 2007 | 1:03.57     | TOM WOLF          | USA 2004 |         |               |          |
| 31.24 DON MC KENZIE        | USA 1997 | 1:03.61     | JOHN VAN BUUREN   | CAN 2005 |         |               |          |
| 31.63 GLEN CHRISTIANSEN    | SWE 2007 | 1:03.65     | TOM REUDY         | USA 2006 |         |               |          |
| 31.72 TIMOTHY SHEAD        | RSA 2002 | 1:03.75     | GREG SHAW         | USA 2003 |         |               |          |
| 31.76 EDWARD PINHEIRO      | BRA 2001 | 1:04.35     | PAUL CARTER       | USA 2007 |         |               |          |
| 31.81 SPENCER ELDRED       | USA 2007 | 1:04.45     | RONNY OLTNER      | SWE 2006 |         |               |          |
| 31.95 ROBERT STRAND        | USA 1998 | 1:04.47     | DERRICK HAMILTON  | CAN 2007 |         |               |          |
| 32.23 PAUL HENNE           | USA 1997 | 1:04.53     | ALBERT BOONSTRA   | NED 2007 |         |               |          |
| 32.24 ALEXANDER MILLS      | GBR 2005 | 200 M. I.M. |                   |          |         |               |          |
| 32.32 HENRIQUE JOCHIMS     | BRA 2001 | 2:17.48     | PAUL CARTER       | USA 2007 |         |               |          |
| 100 M. BRST                |          | 2:18.68     | SIMON VEALE       | GBR 2006 |         |               |          |
| 1:08.97 RONNY OLTNER       | SWE 2007 | 2:19.27     | TOM WOLF          | USA 2004 |         |               |          |
| 1:09.01 GLEN CHRISTIANSEN  | SWE 2007 | 2:19.63     | TOM REUDY         | USA 2006 |         |               |          |
| 1:09.88 TIMOTHY SHEAD      | RSA 2002 | 2:20.35     | GREG SHAW         | USA 2003 |         |               |          |
| 1:09.96 ROBERT STRAND      | USA 1996 | 2:20.68     | JOHN FERRIS       | USA 2000 |         |               |          |
| 1:10.23 DON MC KENZIE      | USA 1997 | 2:21.49     | ROBERT WEYHENKE   | NED 2005 |         |               |          |
| 1:10.53 SPENCER ELDRED     | USA 2007 | 2:22.04     | JIM MC CONICA     | USA 2002 |         |               |          |
| 1:11.09 JACK GROSELLE      | USA 2007 | 2:22.23     | TIMOTHY SHEAD     | RSA 2002 |         |               |          |
| 1:12.00 ALBERT BOONSTRA    | NED 2007 | 2:22.96     | WIESLAW MUSIAL    | CAN 2007 |         |               |          |
| 1:12.15 YUJIRO YOSHIDA     | JPN 2007 | 400 M. I.M. |                   |          |         |               |          |
| 1:12.37 BARRY O'BRIEN      | GBR 2007 | 4:57.52     | LORENZO MARUGO    | ITA 2004 |         |               |          |
| 200 M. BRST                |          | 4:58.93     | JIM MC CONICA     | USA 2001 |         |               |          |
| 2:33.71 LORENZO MARUGO     | ITA 2004 | 4:59.39     | MARK DRENNEN      | USA 2006 |         |               |          |
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# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|             |                   |     |      |             |                  |     |      |              |                  |     |      |
|-------------|-------------------|-----|------|-------------|------------------|-----|------|--------------|------------------|-----|------|
| 17:35.21    | TOD SPIEKER       | USA | 2003 | 2:40.52     | ROBERT WEYHENKE  | NED | 2007 | 5:14.10      | JIM CLEMMONS     | USA | 2005 |
| 17:56.15    | J.CHATARD         | FRA | 2006 | 2:44.00     | HIROKAZU AOYAMA  | JPN | 2007 | 5:23.15      | RON ARMSTRONG    | CAN | 2006 |
| 18:02.40    | JIM CLEMMONS      | USA | 2005 | 2:44.17     | TAKEO HIRAMOTO   | JPN | 2007 | 5:26.62      | MIKE MORROW      | CAN | 2005 |
| 18:27.16    | D.UIJTENBOGAART   | NED | 2002 | 2:45.16     | JOHN GORDON      | GBR | 2001 | 5:28.51      | D.UIJTENBOGAART  | NED | 2002 |
| 18:33.73    | RICK WALKER       | USA | 2007 | 2:46.00     | GRAHAM PEARSON   | GBR | 2007 | 5:29.09      | SANDY GALLETTY   | GBR | 1997 |
| 18:43.40    | JACK MARTIN       | USA | 2006 | 2:46.29     | JIM CLEMMONS     | USA | 2005 | 5:30.62      | DRURY GALLAGHER  | USA | 1995 |
| 18:51.69    | JAMES MCCLEERY    | USA | 2003 | 2:46.36     | ALLEN STARK      | USA | 2007 |              |                  |     |      |
| 18:51.83    | SANDY GALLETTY    | GBR | 1998 | 2:46.48     | LORENZO MARUGO   | ITA | 2007 | *****        |                  |     |      |
| 19:10.28    | WILLIAM PENN      | USA | 2007 | 50 M. FLY   | M E N 60-64      |     |      |              |                  |     |      |
| 50 M. BACK  |                   |     |      | 26.96       | GREG SHAW        | USA | 2007 | *****        |                  |     |      |
| 30.25       | HUGH WILDER       | USA | 2003 | 27.21       | STEVE BOROWSKI   | USA | 2002 | 50 M. FREE   |                  |     |      |
| 30.35       | ROBERT SMITH      | USA | 1999 | 27.74       | RICH ABRAHAMS    | USA | 2001 | 24.90        | RICH ABRAHAMS    | USA | 2006 |
| 30.40       | TIM BIRNIE        | USA | 2000 | 28.19       | LEONARD BIELICZ  | SWE | 2006 | 26.31        | JEFF FARRELL     | USA | 2000 |
| 30.56       | HEINZ BOKNECHT    | GER | 1995 | 28.24       | DAVE WILKIN      | CAN | 2007 | 26.52        | ROBERT SMITH     | USA | 2003 |
| 30.72       | JIM ADAMS         | IRL | 2007 | 28.31       | TOM GEIMAN       | USA | 2004 | 26.74        | RICHARD ABRAHAMS | USA | 2007 |
| 30.84       | MARK PUGLIESE     | USA | 2007 | 28.37       | JOEL BURNS       | USA | 2001 | 27.03        | VINUS VANBAALEN  | USA | 2003 |
| 30.96       | DAVE WILKIN       | CAN | 2007 | 28.57       | JIM DRAGON       | USA | 1999 | 27.04        | IAN SMITH        | CAN | 2005 |
| 30.96       | ALAIN VANACKER    | FRA | 2007 | 28.65       | MARK PUGLIESE    | USA | 2007 | 27.06        | JIM DRAGON       | USA | 2007 |
| 30.96       | TAKEO HIRAMOTO    | JPN | 2005 | 28.78       | C.STARZEC        | FRA | 2006 | 27.06        | KATSUKI ISHIHARA | JPN | 2000 |
| 31.57       | J.CLAUDE LESTIDEA | FRA | 2004 | 100 M. FLY  |                  |     |      |              |                  |     |      |
| 100 M. BACK |                   |     |      | 1:00.35     | GREG SHAW        | USA | 2006 | 27.27        | ALAN BROWN       | AUS | 2006 |
| 1:04.89     | TIM BIRNIE        | USA | 2000 | 1:02.74     | STEVE BOROWSKI   | USA | 2002 | 27.42        | PETER BERGENGREN | SWE | 1999 |
| 1:05.53     | JIM ADAMS         | IRL | 2007 | 1:03.51     | LEONARD BIELICZ  | SWE | 2006 | 27.42        | CAV CAVANAUGH    | USA | 1998 |
| 1:05.56     | HUGH WILDER       | USA | 2002 | 1:03.72     | SHIGEO ASANO     | JPN | 2004 | 100 M. FREE  |                  |     |      |
| 1:07.74     | TIM SHEAD         | RSA | 2007 | 1:03.78     | RICH ABRAHAMS    | USA | 2001 | 57.22        | RICH ABRAHAMS    | USA | 2006 |
| 1:07.76     | MARK PUGLIESE     | USA | 2007 | 1:04.00     | TIM SHEAD        | USA | 2007 | 59.90        | DAVID QUIGGIN    | USA | 2004 |
| 1:08.34     | RICHARD BURNS     | USA | 1998 | 1:04.37     | ERIC HENDERSON   | GBR | 2005 | 1:00.24      | JEFF FARRELL     | USA | 2000 |
| 1:08.48     | R TOD SPIEKER     | USA | 2003 | 1:04.55     | C.STARZEC        | FRA | 2005 | 1:01.05      | DUNCAN MCCREADIE | GBR | 2005 |
| 1:08.53     | JOHN CALVERT      | USA | 2000 | 1:04.64     | JOEL BURNS       | USA | 2001 | 1:01.15      | ALAN BROWN       | AUS | 2006 |
| 1:08.85     | DAVE WILKIN       | CAN | 2007 | 1:04.67     | KEVIN MCCORMACK  | USA | 2007 | 1:01.23      | JEAN LESTIDEAU   | FRA | 2007 |
| 1:08.85     | ALAIN VANACKER    | FRA | 2007 | 200 M. FLY  |                  |     |      |              |                  |     |      |
| 200 M. BACK |                   |     |      | 2:21.90     | GREG SHAW        | USA | 2007 | 1:01.50      | TONY STRAHAN     | AUS | 2003 |
| 2:20.59     | JAMES MCCONICA    | USA | 2005 | 2:22.13     | JAMES MCCONICA   | USA | 2005 | 1:01.51      | PETER BERGENGREN | SWE | 2000 |
| 2:21.80     | TOD SPIEKER       | USA | 2003 | 2:22.73     | FRED SCHLICHER   | USA | 2003 | 1:01.72      | TOM LANDIS       | USA | 2002 |
| 2:22.25     | JIM ADAMS         | NED | 2006 | 2:28.52     | ROBERT POILETMAN | USA | 2001 | 1:01.94      | RICHARD BURNS    | USA | 2007 |
| 2:24.72     | TIM BIRNIE        | USA | 2000 | 2:31.04     | TAKEO HIRAMOTO   | JPN | 2006 | 200 M. FREE  |                  |     |      |
| 2:26.64     | JOHN CALVERT      | USA | 2000 | 2:33.27     | DOUGLAS MILLER   | USA | 2005 | 2:11.78      | DUNCAN MCCREADIE | GBR | 2006 |
| 2:29.11     | TIM SHEAD         | RSA | 2007 | 2:33.74     | JIM CLEMMONS     | USA | 2005 | 2:12.18      | JOHN CALVERT     | USA | 2005 |
| 2:29.64     | HUGH WILDER       | USA | 2004 | 2:35.30     | JOEL BURNS       | USA | 2001 | 2:14.22      | RICH ABRAHAMS    | USA | 2006 |
| 2:32.73     | RICHARD BURNS     | USA | 1998 | 2:36.70     | KOJI IWAMOTO     | JPN | 2000 | 2:15.84      | TOM LANDIS       | USA | 2002 |
| 2:33.21     | BARRY YOUNG       | NZL | 1994 | 2:37.43     | CLAUS KOCH       | CAN | 2001 | 2:17.16      | JEAN LESTIDEAU   | FRA | 2007 |
| 2:33.59     | ALAIN VANACKER    | FRA | 2007 | 100 M. I.M. |                  |     |      |              |                  |     |      |
| 50 M. BRST  |                   |     |      | 1:03.53     | TIM SHEAD        | RSA | 2007 | 2:17.36      | DRURY GALLAGHER  | USA | 1998 |
| 32.18       | ROBERT STRAND     | USA | 2001 | 1:03.81     | GREG SHAW        | USA | 2006 | 2:18.44      | TONY CHERRINGTON | GBR | 2002 |
| 32.44       | ALEXANDER MILLS   | GBR | 2006 | 1:04.34     | ROBERT WEYHENKE  | NED | 2007 | 2:18.58      | JEFF FARRELL     | USA | 2001 |
| 32.76       | TIM SHEAD         | RSA | 2007 | 1:06.13     | ALEXANDER MILLS  | GBR | 2006 | 2:18.84      | RICHARD BURNS    | USA | 2004 |
| 33.03       | C.STARZEC         | FRA | 2005 | 1:06.45     | DANIEL ROGACKI   | USA | 2002 | 2:19.03      | DAVID QUIGGIN    | USA | 2006 |
| 33.17       | HIROSHI KOTEGAWA  | JPN | 1993 | 1:06.71     | DAVE WILKIN      | CAN | 2007 | 400 M. FREE  |                  |     |      |
| 33.28       | STUART ELLICOTT   | AUS | 2007 | 1:07.15     | ROBERT STRAND    | USA | 2001 | 4:40.45      | DUNCAN MCCREADIE | GBR | 2006 |
| 33.54       | PETER ANDERSEN    | USA | 1999 | 1:07.42     | LEONARD BIELICZ  | SWE | 2006 | 4:43.69      | JOHN CALVERT     | USA | 2005 |
| 33.56       | ROBERT WEYHENKE   | NED | 2007 | 1:07.54     | C.STARZEC        | FRA | 2005 | 4:47.16      | JEAN LESTIDEAU   | FRA | 2007 |
| 33.73       | ALLEN STARK       | USA | 2007 | 1:07.62     | GEORGE SCHMIDT   | USA | 2005 | 4:47.93      | SANDY GALLETTY   | GBR | 2002 |
| 33.77       | TOSHIHARU FUJII   | JPN | 2005 | 200 M. I.M. |                  |     |      |              |                  |     |      |
| 33.77       | MANUEL SANGUILY   | USA | 1989 | 2:21.05     | GREG SHAW        | USA | 2006 | 4:51.98      | VITTORIO ERMIRIO | ITA | 2003 |
| 100 M. BRST |                   |     |      | 2:23.49     | ROBERT WEYHENKE  | NED | 2007 | 4:54.94      | DRURY GALLAGHER  | USA | 1998 |
| 1:10.50     | TIM SHEAD         | RSA | 2007 | 2:24.64     | TIM SHEAD        | RSA | 2007 | 4:55.70      | D.UIJTENBOGAART  | NED | 2007 |
| 1:11.53     | ROBERT STRAND     | USA | 2001 | 2:26.70     | JAMES MCCONICA   | USA | 2005 | 4:56.07      | DON DAVIS        | USA | 2005 |
| 1:13.54     | C.STARZEC         | FRA | 2005 | 2:27.19     | JOHN CALVERT     | USA | 2000 | 4:56.47      | EDWARD CAZALET   | USA | 2003 |
| 1:14.53     | DANIEL ROGACKI    | USA | 2002 | 2:27.94     | FRED SCHLICHER   | USA | 2003 | 4:56.69      | GRAHAM JOHNSTON  | USA | 1995 |
| 1:14.88     | HIROKAZU AOYAMA   | JPN | 2007 | 2:29.17     | DANIEL ROGACKI   | USA | 2002 | 800 M. FREE  |                  |     |      |
| 1:15.25     | TOSHIHARU FUJII   | JPN | 2005 | 2:30.83     | TAKEO HIRAMOTO   | JPN | 2005 | 9:43.83      | DUNCAN MCCREADIE | GBR | 2005 |
| 1:15.26     | ALLEN STARK       | USA | 2007 | 2:31.33     | C.STARZEC        | FRA | 2006 | 9:51.72      | SANDY GALLETTY   | GBR | 2002 |
| 1:15.33     | GRAHAM PEARSON    | GBR | 2007 | 2:31.79     | JIM CLEMMONS     | USA | 2006 | 9:58.02      | VITTORIO ERMIRIO | ITA | 2005 |
| 1:15.49     | STUART ELLICOTT   | AUS | 2007 | 400 M. I.M. |                  |     |      |              |                  |     |      |
| 1:15.80     | JOHN DERR         | USA | 2004 | 5:05.40     | LORENZO MARUGO   | ITA | 2007 | 9:58.99      | JAMES MCCLEERY   | USA | 2006 |
| 200 M. BRST |                   |     |      | 5:08.15     | JAMES MCCONICA   | USA | 2005 | 10:01.28     | GEORGE WENDT     | USA | 2007 |
| 2:38.76     | ROBERT STRAND     | USA | 2001 | 5:11.49     | GREG SHAW        | USA | 2007 | 10:06.73     | JEAN LESTIDEAU   | FRA | 2007 |
| 2:38.90     | TIM SHEAD         | RSA | 2007 | 5:13.29     | R TOD SPIEKER    | USA | 2003 | 10:09.96     | D.UIJTENBOGAART  | NED | 2007 |
|             |                   |     |      |             |                  |     |      | 10:10.78     | DRURY GALLAGHER  | USA | 1998 |
|             |                   |     |      |             |                  |     |      | 10:17.45     | EDWARD CAZALET   | USA | 2003 |
|             |                   |     |      |             |                  |     |      | 10:22.45     | JOACHIM HINTZE   | GER | 2003 |
|             |                   |     |      |             |                  |     |      | 1500 M. FREE |                  |     |      |
|             |                   |     |      |             |                  |     |      | 18:50.59     | JAMES MCCLEERY   | USA | 2007 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 18:54.83 DUNCAN MCCREADIE | GBR 2005 | 2:53.21 DAVID GILDEA      | USA 2003 | 5:39.61 GEORGE WENDT      | USA 2007 |
| 19:01.87 SANDY GALLETTY   | GBR 2002 | 2:53.45 KENNETH FROST     | USA 2004 | 5:40.51 DOUG MILLER       | USA 2006 |
| 19:03.57 VITTORIO ERMIRIO | ITA 2003 | 2:53.65 PETER ANDERSEN    | USA 2003 | 5:42.86 DUNCAN MCCREADIE  | GBR 2005 |
| 19:05.60 JEAN LESTIDEAU   | FRA 2007 | 2:55.92 PAUL WYATT        | AUS 2006 | 5:45.51 D.UIJTENBOGAART   | NED 2007 |
| 19:15.89 EDWARD CAZALET   | USA 2003 | 2:56.18 MICHAEL MOLONEY   | AUS 1999 | 5:46.43 PAUL WYATT        | AUS 2006 |
| 19:23.14 D.UIJTENBOGAART  | NED 2007 | 2:56.26 GEOFFREY THWAITES | GBR 2007 | *****                     |          |
| 19:48.44 GRAHAM JOHNSTON  | USA 1995 | 2:56.90 RAINER OPITZ      | GER 2002 | M E N 65-69               |          |
| 19:55.05 BARRY SEYMOUR    | AUS 2007 | 50 M. FLY                 |          | *****                     |          |
| 20:08.21 TOM LANDIS       | USA 2006 | 28.31 RICH ABRAHAMS       | USA 2006 | 50 M. FREE                |          |
| 50 M. BACK                |          | 29.04 JIM DRAGON          | USA 2007 | 26.73 VINUS VAN BAALEN    | CAN 2007 |
| 30.87 HUGH WILDER         | USA 2007 | 29.13 JOSEP CLARET        | ESP 2004 | 27.05 JEFF FARRELL        | USA 2002 |
| 31.31 ROBERT SMITH        | USA 2004 | 29.48 ALBERT BACKES       | GER 1995 | 27.36 IAN SMITH           | CAN 2006 |
| 31.65 RICHARD BURNS       | USA 2003 | 29.68 KOJI IWAMOTO        | JPN 2002 | 27.68 CAV CAVANAUGH       | USA 2000 |
| 32.03 JEAN LESTIDEAU      | FRA 2007 | 29.81 CHITOSHI KONISHI    | JPN 2000 | 27.80 PETER BERGENGREN    | SWE 2003 |
| 32.23 J.LESTIDEAU         | FRA 2006 | 29.88 DAVID QUIGGIN       | USA 2004 | 28.02 RONALD JOHNSON      | USA 1998 |
| 32.56 VINUS VAN BAALEN    | CAN 2002 | 30.20 J.LESTIDEAU         | FRA 2006 | 28.04 KATSUKI ISHIHARA    | JPN 2004 |
| 33.07 RICHARD ALEXANDER   | USA 2004 | 30.22 HORST LEHMANN       | GER 2007 | 28.24 BOB BAILIE          | USA 2001 |
| 33.09 JOSEF CSIKANY       | HUN 2005 | 30.25 PETER BERGENGREN    | SWE 2000 | 28.25 GEORGES KOESSLER    | FRA 2006 |
| 33.12 LUCIEN GAUCHE       | FRA 2002 | 100 M. FLY                |          | 28.32 NEIL MACKINNON      | GBR 2006 |
| 33.14 LUIZ FIGUEIREDO     | BRA 2004 | 1:03.76 RICH ABRAHAMS     | USA 2006 | 100 M. FREE               |          |
| 100 M. BACK               |          | 1:06.70 J.LESTIDEAU       | FRA 2006 | 1:01.36 JEFF FARRELL      | USA 2002 |
| 1:07.37 HUGH WILDER       | USA 2007 | 1:06.74 ROBERT POILETMAN  | USA 2003 | 1:02.12 TOM LANDIS        | USA 2007 |
| 1:08.85 RICHARD BURNS     | USA 2003 | 1:06.89 KOJI IWAMOTO      | JPN 2002 | 1:02.24 PETER BERGENGREN  | SWE 2003 |
| 1:09.20 ROBERT SMITH      | USA 2004 | 1:06.96 JOSEP CLARET      | ESP 2007 | 1:02.41 CAV CAVANAUGH     | USA 2000 |
| 1:12.06 GARY CHASE        | USA 2002 | 1:08.33 DON MCINTOSH      | USA 2003 | 1:02.50 VINUS VAN BAALEN  | CAN 2007 |
| 1:12.56 J.LESTIDEAU       | FRA 2006 | 1:09.00 HORST LEHMANN     | GER 2007 | 1:02.65 LUIZ FIGUEIREDO   | BRA 2006 |
| 1:13.49 KURT FREI         | SUI 2006 | 1:09.39 DEREK PARR        | GBR 2007 | 1:02.77 ROBERTO ALBERICHE | ESP 1996 |
| 1:13.55 JACK BEATTIE      | USA 1994 | 1:09.50 CHITOSHI KONISHI  | JPN 2001 | 1:02.84 IAN SMITH         | CAN 2006 |
| 1:13.66 BARRY YOUNG       | NZL 2001 | 1:10.83 DOUG MILLER       | USA 2006 | 1:04.08 HIROSHI MARUYAMA  | JPN 2007 |
| 1:13.91 LUCIEN GAUCHE     | FRA 2003 | 200 M. FLY                |          | 1:04.30 RONALD JOHNSON    | USA 1998 |
| 1:14.33 JOHN SMITH        | USA 2001 | 2:32.76 JEAN LESTIDEAU    | FRA 2007 | 200 M. FREE               |          |
| 200 M. BACK               |          | 2:34.65 ROBERT POILETMAN  | USA 2003 | 2:18.71 JEFF FARRELL      | USA 2002 |
| 2:30.96 JOHN CALVERT      | USA 2005 | 2:37.79 DEREK PARR        | GBR 2005 | 2:21.65 VITTORIO ERMIRIO  | ITA 2007 |
| 2:34.17 RICHARD BURNS     | USA 2003 | 2:37.97 KOJI IWAMOTO      | JPN 2002 | 2:22.07 GRAHAM JOHNSTON   | USA 1997 |
| 2:34.71 HUGH WILDER       | USA 2007 | 2:39.25 DOUGLAS MILLER    | USA 2007 | 2:22.13 ROBERTO ALBERICHE | ESP 1996 |
| 2:36.88 EDWARD CAZALET    | USA 2003 | 2:46.18 GUNTER SCHOPKE    | GER 2000 | 2:22.15 TOM LANDIS        | USA 2007 |
| 2:37.11 DON MCINTOSH      | USA 2003 | 2:47.52 HUGH RODDIN       | USA 2002 | 2:24.37 TONY CHERRINGTON  | GBR 2007 |
| 2:37.23 JOSEF CSIKANY     | HUN 2005 | 2:47.61 RICHARD KITCHELL  | USA 2004 | 2:24.45 KAZUYA NISHINO    | JPN 2002 |
| 2:37.63 BARRY YOUNG       | NZL 2001 | 2:49.56 DRURY GALLAGHER   | USA 1998 | 2:25.34 CAV CAVANAUGH     | USA 2002 |
| 2:40.75 JACK BEATTIE      | USA 1994 | 2:51.76 BARRY YOUNG       | NZL 2003 | 2:26.70 DAVID HARRISON    | USA 2002 |
| 2:42.44 MICHAEL MCCOLLY   | USA 2006 | 100 M. I.M.               |          | 2:27.03 RAYMOND STOKES    | GBR 2006 |
| 2:42.77 IVAN MYALL        | GBR 2007 | 1:08.70 ROBERT STRAND     | USA 2006 | 400 M. FREE               |          |
| 50 M. BRST                |          | 1:09.39 ROBERT SMITH      | USA 2003 | 4:55.56 TOM LANDIS        | USA 2007 |
| 33.11 ROBERT STRAND       | USA 2007 | 1:09.72 RICH ABRAHAMS     | USA 2006 | 4:59.03 VITTORIO ERMIRIO  | ITA 2007 |
| 33.64 YOSHIHIKO OSAKI     | JPN 2000 | 1:09.93 JACK KELSO        | CAN 1999 | 5:06.60 FABRIZIO MOMONI   | ITA 2003 |
| 33.71 PETER ANDERSEN      | USA 2003 | 1:09.95 DRURY GALLAGHER   | USA 1998 | 5:09.09 GRAHAM JOHNSTON   | USA 1996 |
| 34.24 GERSHON SHEFA       | ISR 2003 | 1:10.34 BRUCE MOHL        | USA 2006 | 5:09.96 RAYMOND STOKES    | GBR 2004 |
| 34.41 HIROSHI KOTEGAWA    | JPN 1996 | 1:10.91 JEAN LESTIDEAU    | FRA 2007 | 5:11.98 DAVID HARRISON    | USA 2002 |
| 34.54 AKIO SUGIYAMA       | JPN 1995 | 1:11.10 KOJI IWAMOTO      | JPN 2002 | 5:12.03 JOACHIM HINTZE    | GER 2007 |
| 34.55 JOZEF KLUKOWSKI     | POL 2007 | 1:11.21 GERSHON SHEFA     | ISR 2003 | 5:12.62 DICK STEWART      | USA 2006 |
| 34.68 DIETER HOFEL        | GER 2006 | 1:11.25 RICHARD BURNS     | USA 2003 | 5:16.00 RAFAEL PEREZ      | ESP 2004 |
| 34.76 OSAMU MAEDA         | JPN 2006 | 200 M. I.M.               |          | 5:17.17 NIC GEERS         | NED 2003 |
| 34.88 EGON HENNINGER      | GER 2000 | 2:30.48 JOHN CALVERT      | USA 2005 | 800 M. FREE               |          |
| 100 M. BRST               |          | 2:34.30 JEAN LESTIDEAU    | FRA 2007 | 10:16.06 VITTORIO ERMIRIO | ITA 2007 |
| 1:14.02 ROBERT STRAND     | USA 2007 | 2:35.04 JACK KELSO        | CAN 1999 | 10:27.01 TOM LANDIS       | USA 2007 |
| 1:15.92 ALBERT KOSTITSIN  | FIN 2002 | 2:35.12 DUNCAN MCCREADIE  | GBR 2005 | 10:35.13 GRAHAM JOHNSTON  | USA 1996 |
| 1:16.56 PETER ANDERSEN    | USA 2003 | 2:35.95 EDWARD CAZALET    | USA 2003 | 10:40.13 JOACHIM HINTZE   | GER 2007 |
| 1:16.89 DAVID GILDEA      | USA 2003 | 2:37.14 GERSHON SHEFA     | ISR 2003 | 10:44.95 DAVID HARRISON   | USA 2002 |
| 1:17.30 JOZEF KLUKOWSKI   | POL 2007 | 2:37.28 ROBERT STRAND     | USA 2007 | 10:45.50 DICK STEWART     | USA 2006 |
| 1:17.85 JACK KELSO        | CAN 1999 | 2:38.74 BRUCE MOHL        | USA 2007 | 10:50.08 RAYMOND STOKES   | GBR 2004 |
| 1:17.97 GERSHON SHEFA     | ISR 2003 | 2:40.02 KOJI IWAMOTO      | JPN 2002 | 10:56.30 FABRIZIO MOMONI  | ITA 2003 |
| 1:18.08 DRURY GALLAGHER   | USA 1998 | 2:40.14 DRURY GALLAGHER   | USA 1998 | 11:06.67 BURWELL JONES    | USA 2002 |
| 1:18.35 KENNETH FROST JR  | USA 2005 | 400 M. I.M.               |          | 11:08.89 DAN WILLERT      | USA 2007 |
| 1:18.77 JOHN KORTHEUER    | USA 1991 | 5:25.65 NICK LECLERCQ     | USA 2006 | 1500 M. FREE              |          |
| 200 M. BRST               |          | 5:34.43 EDWARD CAZALET    | USA 2003 | 19:32.78 TOM LANDIS       | USA 2007 |
| 2:44.90 ROBERT STRAND     | USA 2006 | 5:35.46 J.LESTIDEAU       | FRA 2006 | 19:41.85 VITTORIO ERMIRIO | ITA 2007 |
| 2:50.91 GEORGE WENDT      | USA 2007 | 5:38.91 SANDY GALLETTY    | GBR 2002 | 19:53.18 GRAHAM JOHNSTON  | USA 1996 |
| 2:53.05 DRURY GALLAGHER   | USA 1998 | 5:39.12 DRURY GALLAGHER   | USA 1999 |                           |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                           |          |
|---------------------------|----------|---------------------------|----------|---------------------------|----------|
| 20:36.17 DICK STEWART     | USA 2006 | 3:03.31 TOM WALKER        | GBR 2000 | 6:23.74 ALFRED JACOB      | BRA 2007 |
| 20:49.25 ERNIE LESKOVITZ  | USA 2003 | 3:05.19 TONY GOODWIN      | AUS 2002 | 6:27.80 ERIK LOKENSGARD   | USA 2007 |
| 20:54.80 BURWELL JONES    | USA 2002 | 3:05.24 PETER BELL        | CAN 2000 | 6:28.87 CHARLES MOSS      | USA 1993 |
| 20:56.70 FABRIZIO MOMONI  | ITA 2003 | 3:06.13 NICK TEMPLEMAN    | CAN 1996 | *****                     |          |
| 20:58.60 DAVID HARRISON   | USA 2002 | 3:07.25 BERND WUNSCH      | GER 2003 | M E N 70-74               |          |
| 21:03.09 TONY CHERRINGTON | GBR 2007 | 50 M. FLY                 |          | *****                     |          |
| 21:18.33 ALEX GALLETTY    | GBR 2007 | 30.54 GEORGES KOESSLER    | FRA 2007 | 50 M. FREE                |          |
| 50 M. BACK                |          | 30.62 TOMOYASU IIDA       | JPN 2006 | 28.00 JEFF FARRELL        | USA 2007 |
| 32.35 LUIZ FIGUEIREDO     | BRA 2006 | 30.70 BOB BAILIE          | USA 2001 | 28.55 RON JOHNSON         | USA 2003 |
| 32.48 VINUS VAN BAALEN    | CAN 2007 | 30.71 BERT PETERSEN       | USA 2003 | 28.76 CAV CAVANAUGH       | USA 2005 |
| 33.38 YOSHI OYAKAWA       | USA 1999 | 31.27 PETER BERGENGREN    | SWE 2003 | 29.00 WOLFRAM GOTTFRIED   | GER 2003 |
| 33.90 GARY CHASE          | USA 2005 | 31.28 KOJI IWAMOTO        | JPN 2007 | 29.77 CHARLES BALDWIN     | USA 2000 |
| 34.43 FRANS VAN ENST      | NED 2005 | 31.28 MIKE FRESHLEY       | USA 2006 | 29.77 DAVID RADCLIFF      | USA 2004 |
| 34.59 LUCIEN GAUCHE       | FRA 2007 | 31.37 IAN SMITH           | CAN 2006 | 29.80 BOB BAILIE          | USA 2006 |
| 34.71 KARL DONOGHUE       | CAN 2005 | 31.39 CHITOSHI KONISHI    | JPN 2005 | 29.87 H. TAKAHASHI        | JPN 2006 |
| 34.74 MASAO KIJIMA        | JPN 2007 | 31.50 FRANTISEK POKORNY   | CZE 2006 | 30.01 SHINGO YAMAMOTO     | JPN 2001 |
| 34.75 S.SEKIKAWA          | JPN 1998 | 100 M. FLY                |          | 30.04 ROBERT GROBLER      | GBR 2000 |
| 35.06 RON JOHNSON         | USA 1996 | 1:10.81 KOJI IWAMOTO      | JPN 2007 | 100 M. FREE               |          |
| 100 M. BACK               |          | 1:11.89 TOMOYASU IIDA     | JPN 2007 | 1:03.33 JEFF FARRELL      | USA 2007 |
| 1:12.36 BERND HORSTMANN   | GER 2007 | 1:12.41 CHITOSHI KONISHI  | JPN 2005 | 1:04.58 CAV CAVANAUGH     | USA 2005 |
| 1:14.04 BARRY YOUNG       | NZL 2004 | 1:13.32 BERT PETERSEN     | USA 2003 | 1:06.26 GRAHAM JOHNSTON   | USA 2001 |
| 1:14.66 YOSHI OYAKAWA     | USA 1998 | 1:13.93 YOICHI AOKI       | JPN 2006 | 1:06.50 DAVID RADCLIFF    | USA 2004 |
| 1:14.69 LUIZ FIGUEIREDO   | BRA 2006 | 1:14.44 BARRY YOUNG       | NZL 2004 | 1:06.70 CHARLES BALDWIN   | USA 2000 |
| 1:15.54 VINUS VAN BAALEN  | USA 2007 | 1:14.91 TAISUKE MIYAZAKI  | JPN 2005 | 1:07.47 RONALD JOHNSON    | USA 2001 |
| 1:16.12 S.SEKIKAWA        | JPN 1998 | 1:15.09 JOAQUIN CANALES   | ESP 2007 | 1:07.84 WOLFRAM GOTTFRIED | GER 2001 |
| 1:16.77 BURWELL JONES     | USA 2002 | 1:15.52 LUIS R. SIMI      | BRA 2002 | 1:08.36 SHINGO YAMAMOTO   | JPN 2001 |
| 1:16.97 LUCIEN GAUCHE     | FRA 2007 | 1:16.42 GUNTER SCHOPKE    | GER 2006 | 1:08.72 JOHN CRISP        | AUS 2007 |
| 1:17.75 PEKKA LUNDBERG    | FIN 2001 | 200 M. FLY                |          | 1:08.95 BOB BAILIE        | USA 2006 |
| 1:18.02 RICHARD TODD      | USA 2007 | 2:48.78 RICHARD KITCHELL  | USA 2005 | 200 M. FREE               |          |
| 200 M. BACK               |          | 2:49.56 KOJI IWAMOTO      | JPN 2007 | 2:24.31 GRAHAM JOHNSTON   | USA 2001 |
| 2:41.56 BERND HORSTMANN   | GER 2007 | 2:57.23 TAISUKE MIYAZAKI  | JPN 2004 | 2:28.41 CAV CAVANAUGH     | USA 2005 |
| 2:44.62 LUIZ FIGUEIREDO   | BRA 2006 | 2:59.62 DAVID CUMMING     | GBR 2004 | 2:30.27 BURWELL JONES     | USA 2004 |
| 2:45.56 GARY CHASE        | USA 2005 | 3:00.83 D MCLACHLAN       | RSA 2002 | 2:30.45 DAVID RADCLIFF    | USA 2007 |
| 2:47.59 S.SEKIKAWA        | JPN 1998 | 3:01.54 LUIS R. SIMI      | BRA 2002 | 2:33.22 NELIO VILLASBOAS  | BRA 2002 |
| 2:48.33 RICHARD TODD      | USA 2007 | 3:04.59 WILLIAM LETCH     | GBR 2007 | 2:33.66 THEO ENDERES      | GER 1999 |
| 2:50.75 BOB BARRY         | AUS 1996 | 3:06.32 WERNER MULLER     | GER 1999 | 2:34.46 JOHN CRISP        | AUS 2005 |
| 2:52.11 KARL DONOGHUE     | CAN 2005 | 3:06.43 RON JOHNSON       | USA 1996 | 2:34.64 WILLIAM PHILLIPS  | USA 1998 |
| 2:52.12 ALAN JACKSON      | GBR 2004 | 3:07.80 RAYMOND LOEWE     | USA 2007 | 2:36.63 N.MIYAMOTO        | JPN 2006 |
| 2:52.77 ROGER FRANKS      | USA 1994 | 100 M. I.M.               |          | 2:36.88 BOB BARRY         | AUS 2002 |
| 2:53.17 MIKLOS KOVATS     | HUN 2005 | 1:12.51 JEFF FARRELL      | USA 2002 | 400 M. FREE               |          |
| 50 M. BRST                |          | 1:12.63 KOJI IWAMOTO      | JPN 2007 | 5:09.75 GRAHAM JOHNSTON   | USA 2002 |
| 35.46 HIROSHI KOTEGAWA    | JPN 2001 | 1:14.42 HIROSHI NONAKA    | JPN 2007 | 5:15.88 BURWELL JONES     | USA 2003 |
| 36.07 MANUEL SANGUILY     | USA 1998 | 1:14.91 VINUS VAN BAALEN  | CAN 2007 | 5:18.28 DAVID RADCLIFF    | USA 2007 |
| 36.32 EGON HENNINGER      | GER 2005 | 1:14.93 JACK KELSO        | CAN 2007 | 5:29.16 JOHN CRISP        | AUS 2005 |
| 36.33 NICK TEMPLEMAN      | CAN 1996 | 1:14.93 BERND HORSTMANN   | GER 2007 | 5:30.42 CAV CAVANAUGH     | USA 2005 |
| 36.38 AKIO SUGIYAMA       | JPN 1999 | 1:14.99 MIKE FRESHLEY     | USA 2006 | 5:34.86 IKURO SHIMONO     | JPN 2007 |
| 36.80 W.BUCZKOWSKI        | POL 2007 | 1:15.44 PETER BERGENGREN  | SWE 2003 | 5:35.49 FRANK PIEMME      | USA 1995 |
| 36.90 FRANTISEK POKORNY   | CZE 2006 | 1:15.61 RON JOHNSON       | USA 1996 | 5:37.26 WILLIAM PHILLIPS  | USA 1998 |
| 36.92 BERND WUNSCH        | GER 2003 | 1:15.82 BURWELL JONES     | USA 2002 | 5:40.04 MARTY MENNEN      | USA 2007 |
| 36.96 JACK KELSO          | CAN 2007 | 200 M. I.M.               |          | 5:43.31 N.MIYAMOTO        | JPN 2006 |
| 37.17 JOHN KORTHEUER      | USA 2000 | 2:43.49 MIKE FRESHLEY     | USA 2006 | 800 M. FREE               |          |
| 100 M. BRST               |          | 2:44.51 KOJI IWAMOTO      | JPN 2007 | 10:52.68 GRAHAM JOHNSTON  | USA 2001 |
| 1:20.36 THOMAS JOHNSON    | GBR 2007 | 2:46.35 JEFF FARRELL      | USA 2002 | 11:01.38 DAVID RADCLIFF   | USA 2007 |
| 1:20.71 RICHARD TODD      | USA 2007 | 2:49.00 JACK KELSO        | CAN 2007 | 11:23.10 ERNIE LESKOVITZ  | USA 2006 |
| 1:21.34 NICK TEMPLEMAN    | CAN 1996 | 2:49.10 ROBERTO ALBERICHE | ESP 1996 | 11:25.65 JOHN CRISP       | AUS 2005 |
| 1:21.55 BERND WUNSCH      | GER 2003 | 2:50.00 RICHARD TODD      | USA 2007 | 11:30.41 IKURO SHIMONO    | JPN 2007 |
| 1:22.10 HANS REICHELT     | GER 2004 | 2:50.95 BURWELL JONES     | USA 2002 | 11:38.41 FRANK PIEMME     | USA 1995 |
| 1:22.11 JACK KELSO        | CAN 2007 | 2:51.68 GRAHAM JOHNSTON   | USA 1997 | 11:55.21 WILLIAM PHILLIPS | USA 1998 |
| 1:22.23 YOSHIKI AOKI      | JPN 2005 | 2:51.72 RON JOHNSON       | USA 1997 | 12:00.70 DON BLAND        | GBR 2001 |
| 1:22.34 MANUEL SANGUILY   | USA 1998 | 2:52.71 HITOSHI KATO      | JPN 1996 | 12:02.50 MARTY MENNEN     | USA 2007 |
| 1:22.44 MIKE FRESHLEY     | USA 2006 | 400 M. I.M.               |          | 12:02.67 HANS LINDSTROM   | SWE 2007 |
| 1:22.83 TONY GOODWIN      | AUS 2002 | 5:58.93 MIKE FRESHLEY     | USA 2006 | 1500 M. FREE              |          |
| 200 M. BRST               |          | 6:04.40 GRAHAM JOHNSTON   | USA 1996 | 20:54.56 GRAHAM JOHNSTON  | USA 2001 |
| 2:59.11 RICHARD TODD      | USA 2007 | 6:07.00 ROBERTO ALBERICHE | ESP 1996 | 21:17.81 JOHN CRISP       | AUS 2005 |
| 2:59.55 YOSHIKI AOKI      | JPN 2005 | 6:10.33 MASAO KIJIMA      | JPN 2007 | 21:24.18 DAVID RADCLIFF   | USA 2007 |
| 3:00.13 MIKE FRESHLEY     | USA 2006 | 6:14.67 DICK STEWART      | USA 2005 | 22:30.87 WILLIAM PHILLIPS | USA 1998 |
| 3:00.27 MICHAEL MOLONEY   | AUS 2004 | 6:21.88 TADASHI IWAMOTO   | JPN 2005 | 22:44.45 FRANK PIEMME     | USA 1995 |
| 3:02.15 HANS REICHELT     | GER 2004 | 6:23.63 GUNTER BEILSTEIN  | GER 2001 |                           |          |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                           |          |                            |          |
|---------------------------|----------|---------------------------|----------|----------------------------|----------|
| 22:45.32 DON BLAND        | GBR 2001 | 3:14.83 BOB PATTEN        | USA 2004 | 6:50.22 RON JOHNSON        | USA 2002 |
| 22:55.92 HANS LINDSTROM   | SWE 2007 | 3:15.42 HARTMUT LEMCKE    | GER 2005 |                            |          |
| 23:11.67 ROGER FRANKS     | USA 1999 | 3:16.44 KARL HAUTER       | GER 1995 | *****                      | *****    |
| 23:21.30 KIYOJI AMANO     | JPN 2001 | 50 M. FLY                 |          | M E N 75-79                |          |
| 23:20.27 LARRY GOOD       | USA 2004 | 32.07 HIROSHI MATSUMOTO   | JPN 2007 | *****                      | *****    |
| 50 M. BACK                |          | 32.57 RONALD JOHNSON      | USA 2001 | 50 M. FREE                 |          |
| 33.90 YOSHI OYAKAWA       | USA 2003 | 33.36 JEFF FARRELL        | USA 2007 | 31.06 FRANK PIEMME         | USA 2001 |
| 35.44 S.SEKIKAWA          | JPN 2003 | 33.61 BOB BAILIE          | USA 2006 | 31.33 SHINGO YAMAMOTO      | JPN 2006 |
| 35.71 PAUL HUTINGER       | USA 1994 | 33.79 DAVID COSTILL       | USA 2007 | 31.64 ALDO EMINENTE        | FRA 2006 |
| 35.75 BURWELL JONES       | USA 2004 | 34.09 DAVID MCINTYRE      | USA 2007 | 32.09 KEIJIRO NAKAMURA     | JPN 1999 |
| 36.88 GUNTER KOBOW        | GER 2007 | 34.23 WOLFGANG SIEBER     | GER 2007 | 32.15 EDWARD BREISACHER    | USA 2007 |
| 37.00 RON JOHNSON         | USA 2003 | 34.36 GENICHI IGARASHI    | JPN 2006 | 32.19 BOB BEST             | USA 2007 |
| 37.02 ERIC FORSLUND       | SWE 2006 | 34.40 MASAYASU KAMIYA     | JPN 2002 | 32.20 TAKAHIKO NOMA        | JPN 2003 |
| 37.06 MAMPEI SEINO        | JPN 2003 | 34.54 WOLFRAM GOTTFRIED   | GER 2004 | 32.30 CLARKE MITCHELL      | USA 2007 |
| 37.53 KEIJIRO NAKAMURA    | JPN 1995 | 100 M. FLY                |          | 32.42 RON JOHNSON          | USA 2006 |
| 37.70 DAVID MCINTYRE      | USA 2007 | 1:19.47 LUIS SIMI         | BRA 2007 | 32.48 JACK HALE            | GBR 1997 |
| 100 M. BACK               |          | 1:19.51 RONALD JOHNSON    | USA 2001 | 100 M. FREE                |          |
| 1:15.85 YOSHI OYAKAWA     | USA 2003 | 1:20.31 HIROSHI MATSUMOTO | JPN 2006 | 1:10.71 SHINGO YAMAMOTO    | JPN 2006 |
| 1:16.73 BURWELL JONES     | USA 2003 | 1:20.35 DAVID COSTILL     | USA 2007 | 1:11.53 GRAHAM JOHNSTON    | USA 2007 |
| 1:18.73 S.SEKIKAWA        | JPN 2003 | 1:21.60 WOLFRAM GOTTFRIED | GER 2001 | 1:11.55 FRANK PIEMME       | USA 2000 |
| 1:19.09 MARTY MENNEN      | USA 2007 | 1:22.37 TAKASHI HAYASHI   | JPN 2005 | 1:12.98 EDWARD BREISACHER  | USA 2007 |
| 1:20.94 MAMPEI SEINO      | JPN 2003 | 1:23.14 MASAYASU KAMIYA   | JPN 2002 | 1:13.35 JACK HALE          | GBR 1997 |
| 1:21.50 ROGER FRANKS      | USA 1997 | 1:24.63 WALLY DOBLER      | USA 2004 | 1:13.47 RAYMOND TAFT       | USA 1995 |
| 1:21.74 PAUL HUTINGER     | USA 1994 | 1:25.24 SEYMOUR BANNING   | GBR 2003 | 1:13.69 ARAM BOGHOSSIAN    | BRA 2004 |
| 1:22.33 CLARKE MITCHELL   | USA 2002 | 1:25.54 MASARU IGARASHI   | JPN 2005 | 1:14.06 SHOICHI SHIDA      | JPN 2001 |
| 1:22.77 RON JOHNSON       | USA 2002 | 200 M. FLY                |          | 1:14.29 FUMIO EGAMI        | JPN 2005 |
| 1:23.61 KEIJIRO NAKAMURA  | JPN 1996 | 3:08.60 TAKASHI HAYASHI   | JPN 2003 | 1:14.82 KIYOJI AMANO       | JPN 2006 |
| 200 M. BACK               |          | 3:13.57 JESUS DOMINGUEZ   | ESP 2000 | 200 M. FREE                |          |
| 2:51.24 BURWELL JONES     | USA 2003 | 3:15.19 RON JOHNSON       | USA 2002 | 2:37.71 GRAHAM JOHNSTON    | USA 2006 |
| 2:53.22 S.SEKIKAWA        | JPN 2003 | 3:18.59 ROBERT PFERSDORFF | GER 1995 | 2:42.21 SHINGO YAMAMOTO    | JPN 2006 |
| 2:53.59 YOSHI OYAKAWA     | USA 2003 | 3:18.87 KARL-HEINZ KNOPS  | GER 1995 | 2:46.17 ARAM BOGHOSSIAN    | BRA 2004 |
| 2:54.36 MARTY MENNEN      | USA 2007 | 3:20.07 DAVE MCLACHIAN    | RSA 2007 | 2:47.41 HIROSHI YOSHIMURA  | JPN 2004 |
| 2:55.73 ROGER FRANKS      | USA 1998 | 3:20.14 CLAUDIO NEGRI     | ITA 2006 | 2:47.43 FRANK PIEMME       | USA 2000 |
| 2:58.91 MAMPEI SEINO      | JPN 2003 | 3:22.72 SEYMOUR BANNING   | GBR 2003 | 2:47.65 KIYOJI AMANO       | JPN 2006 |
| 2:59.92 PAUL HUTINGER     | USA 1994 | 3:24.27 HEINZ KRAUSS      | GER 2002 | 2:48.67 RAYMOND TAFT       | USA 1994 |
| 3:01.57 DAVID COSTILL     | USA 2007 | 3:25.51 MARIAN RACZYNSKI  | POL 2006 | 2:49.10 ROGER FRANKS       | USA 2002 |
| 3:02.37 E.NODENSCHNEIDER  | FRA 2006 | 100 M. I.M.               |          | 2:49.36 FUMIO EGAMI        | JPN 2005 |
| 3:05.12 BOB BARRY         | AUS 2002 | 1:15.92 RONALD JOHNSON    | USA 2001 | 2:49.89 MASAYASU KAMIYA    | JPN 2007 |
| 50 M. BRST                |          | 1:16.05 JEFF FARRELL      | USA 2007 | 400 M. FREE                |          |
| 37.26 JEFF FARRELL        | USA 2007 | 1:17.22 BURWELL JONES     | USA 2003 | 5:40.14 GRAHAM JOHNSTON    | USA 2006 |
| 37.44 HANS REICHEL        | GER 2007 | 1:18.44 WOLFRAM GOTTFRIED | GER 2001 | 5:45.47 HIROSHI YOSHIMURA  | JPN 2004 |
| 37.47 NICK TEMPLEMAN      | CAN 2001 | 1:19.43 CHARLES BALDWIN   | USA 2000 | 6:01.32 FRANK PIEMME       | USA 2000 |
| 37.68 AKIO SUGIYAMA       | JPN 2005 | 1:19.84 HANS REICHEL      | GER 2007 | 6:02.95 RAYMOND TAFT       | USA 1995 |
| 37.71 MANUEL SANGUILY     | USA 2004 | 1:20.35 JOHN KORTHEUER    | USA 2001 | 6:04.20 KARL HAUTER        | GER 2000 |
| 38.12 TONY GOODWIN        | AUS 2007 | 1:20.43 JOHN CRISP        | AUS 2007 | 6:07.86 ARAM BOGHOSSIAN    | BRA 2004 |
| 38.15 JOHN KORTHEUER      | USA 2001 | 1:20.99 FRANK PIEMME      | USA 1995 | 6:09.54 KIYOJI AMANO       | JPN 2006 |
| 38.25 RINALDO FERREIRA    | BRA 2007 | 1:21.48 IKURO SHIMONO     | JPN 2007 | 6:19.79 MASAYASU KAMIYA    | JPN 2007 |
| 38.41 TETSUO NAKAMARU     | JPN 2005 | 200 M. I.M.               |          | 6:20.11 ALDO DA ROSA       | USA 1993 |
| 38.50 PETER BELL          | CAN 2007 | 2:51.73 BURWELL JONES     | USA 2003 | 6:20.12 ROGER FRANKS       | USA 2002 |
| 100 M. BRST               |          | 2:55.51 RON JOHNSON       | USA 2002 | 800 M. FREE                |          |
| 1:23.70 HANS REICHEL      | GER 2007 | 2:55.58 GRAHAM JOHNSTON   | USA 2002 | 12:00.94 GRAHAM JOHNSTON   | USA 2006 |
| 1:24.13 TONY GOODWIN      | AUS 2007 | 2:57.74 JEFF FARRELL      | USA 2007 | 12:02.87 HIROSHI YOSHIMURA | JPN 2004 |
| 1:24.13 TETSUO NAKAMARU   | JPN 2005 | 2:59.87 IKURO SHIMONO     | JPN 2007 | 12:13.28 FRANK PIEMME      | USA 2000 |
| 1:25.11 RON JOHNSON       | USA 2003 | 3:00.88 JESUS DOMINGUEZ   | ESP 1996 | 12:45.40 RAYMOND TAFT      | USA 1994 |
| 1:25.49 PETER BELL        | CAN 2007 | 3:03.20 JOHN CRISP        | AUS 2005 | 13:05.48 ED KERSWILL       | USA 2001 |
| 1:27.10 JOHN KORTHEUER    | USA 2001 | 3:04.85 CHARLES BALDWIN   | USA 2000 | 13:14.50 C.BRUNELLESCHI    | ITA 1998 |
| 1:27.25 BOB PATTEN        | USA 2004 | 3:05.96 FRANK PIEMME      | USA 1995 | 13:15.02 ALDO DA ROSA      | USA 1993 |
| 1:27.38 NICK TEMPLEMAN    | CAN 2001 | 3:08.13 RAY TAFT          | USA 1989 | 13:16.92 MAURICE LUSIEN    | FRA 2001 |
| 1:27.42 THOMAS WALKER     | GBR 2005 | 400 M. I.M.               |          | 13:17.26 DEXTER WOODFORD   | USA 1989 |
| 1:27.58 SHUNSAKU TAKAHIRA | JPN 2003 | 6:21.46 BURWELL JONES     | USA 2003 | 13:25.16 KEVIN VICKERY     | AUS 1998 |
| 200 M. BRST               |          | 6:23.43 GRAHAM JOHNSTON   | USA 2002 | 1500 M. FREE               |          |
| 3:05.27 HANS REICHEL      | GER 2007 | 6:38.98 FRANK PIEMME      | USA 1995 | 22:27.75 GRAHAM JOHNSTON   | USA 2006 |
| 3:06.16 TONY GOODWIN      | AUS 2007 | 6:39.24 JOHN CRISP        | AUS 2005 | 22:52.00 HIROSHI YOSHIMURA | JPN 2003 |
| 3:09.86 PETER BELL        | CAN 2005 | 6:44.53 E.NODENSCHNEIDER  | FRA 2006 | 24:22.70 FRANK PIEMME      | USA 2000 |
| 3:12.98 RON JOHNSON       | USA 2003 | 6:46.14 LARRY GOOD        | USA 2004 | 24:46.19 ALDO DA ROSA      | USA 1993 |
| 3:13.39 THOMAS WALKER     | GBR 2005 | 6:47.09 JESUS DOMINGUEZ   | ESP 2000 | 24:47.25 THOMAS TAYLOR     | USA 2006 |
| 3:14.52 CLAUDIO NEGRI     | ITA 2006 | 6:48.33 KARL HAUTER       | GER 1999 | 25:23.92 RAYMOND TAFT      | USA 1994 |
| 3:14.66 TSUTOMU KAJIHARA  | JPN 2003 | 6:49.75 ROGER FRANKS      | USA 1997 | 25:24.81 KARL HAUTER       | GER 2001 |



# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |     |      |                           |     |      |                           |             |      |
|---------------------------|-----|------|---------------------------|-----|------|---------------------------|-------------|------|
| 25:25.53 JURGEN SCHMIDT   | USA | 1998 | 3:34.55 ZENJI NAKAHARI    | JPN | 2005 | *****                     |             |      |
| 25:26.79 ROGER FRANKS     | USA | 2002 | 50 M. FLY                 |     |      |                           | M E N 80-84 |      |
| 25:36.04 MINORU NAGASHIMA | JPN | 2001 | 33.27 ARAM BOGHOSSIAN     | BRA | 2004 | *****                     |             |      |
| 50 M. BACK                |     |      | 34.83 FRANK PIEMME        | USA | 2000 |                           |             |      |
| 36.68 CLARKE MITCHELL     | USA | 2007 | 35.80 CLARKE MITCHELL     | USA | 2007 | 50 M. FREE                |             |      |
| 37.47 KEIJIRO NAKAMURA    | JPN | 1998 | 36.42 MASAYASU KAMIYA     | JPN | 2007 | 32.61 KEIJIRO NAKAMURA    | JPN         | 2004 |
| 38.38 PAUL HUTINGER       | USA | 1999 | 36.88 TAMON YOSHIDA       | JPN | 2001 | 32.80 FRANK PIEMME        | USA         | 2005 |
| 38.83 JACK HALE           | GBR | 1997 | 37.18 ROBERT PFERSDORFF   | GER | 1999 | 33.23 B.SCHLURIKE         | GER         | 2001 |
| 39.14 GORO TANIGUCHI      | JPN | 1997 | 37.32 ASHLEY JONES        | USA | 2006 | 34.52 FUJIO MYOJIN        | JPN         | 2007 |
| 39.56 MAMPEI SEINO        | JPN | 2007 | 37.66 YOSHIO ISHIGURO     | JPN | 2006 | 34.74 SHOICHI SHIDA       | JPN         | 2006 |
| 39.83 RAYMOND TAFT        | USA | 1994 | 38.00 JACK HALE           | GBR | 1997 | 34.90 TOSHIMI INATOMI     | JPN         | 2007 |
| 40.40 SHOUICHI SAKAMOTO   | JPN | 1994 | 38.28 RON JOHNSON         | USA | 2006 | 35.11 SHOICHI SAKAMOTO    | JPN         | 2001 |
| 40.93 HORACE KNOWLTON     | USA | 2004 | 100 M. FLY                |     |      | 35.16 RENATO SALATI       | RSA         | 2007 |
| 41.01 DUANE DRAVES        | USA | 2001 | 1:30.09 MASAYASU KAMIYA   | JPN | 2007 | 35.16 WOODROW BOWERSOCK   | USA         | 1993 |
| 100 M. BACK               |     |      | 1:32.07 ROBERT PFERSDORFF | GER | 2000 | 35.31 TOSHIO TAJIMA       | JPN         | 2005 |
| 1:23.81 CLARKE MITCHELL   | USA | 2007 | 1:32.31 RON JOHNSON       | USA | 2006 | 100 M. FREE               |             |      |
| 1:24.21 KEIJIRO NAKAMURA  | JPN | 1998 | 1:32.41 KARL HAUTER       | GER | 2001 | 1:16.09 KEIJIRO NAKAMURA  | JPN         | 2003 |
| 1:25.13 PAUL HUTINGER     | USA | 2000 | 1:33.15 HEINZ KRAUSS      | GER | 2007 | 1:16.30 SHOICHI SHIDA     | JPN         | 2006 |
| 1:25.22 ROGER FRANKS      | USA | 2002 | 1:35.31 ASHLEY JONES      | USA | 2007 | 1:17.02 FRANK PIEMME      | USA         | 2005 |
| 1:26.10 MAMPEI SEINO      | JPN | 2007 | 1:35.41 FRANK PIEMME      | USA | 2000 | 1:18.67 B.SCHLURIKE       | GER         | 2002 |
| 1:26.40 JACK HALE         | GBR | 1997 | 1:36.80 PAUL KRUP         | USA | 1992 | 1:18.80 HIKOJI UEKI       | JPN         | 1995 |
| 1:27.41 RAYMOND TAFT      | USA | 1994 | 1:37.68 TOSHIMASA MINAMI  | JPN | 2005 | 1:20.44 TOSHIO SHIMIZU    | JPN         | 2007 |
| 1:28.03 HORACE KNOWLTON   | USA | 2004 | 1:38.40 MAX VAN GELDER    | NED | 2000 | 1:20.65 WOODROW BOWERSOCK | USA         | 1993 |
| 1:30.57 H.MIYAZAKI        | JPN | 1995 | 200 M. FLY                |     |      | 1:20.97 KARL HAUTER       | GER         | 2005 |
| 1:31.83 ROGER BURRELL     | GBR | 2006 | 3:26.72 ROBERT PFERSDORFF | GER | 1999 | 1:21.28 HIDEAKI KATO      | JPN         | 2001 |
| 200 M. BACK               |     |      | 3:27.58 KARL HAUTER       | GER | 2001 | 1:21.52 RAYMOND TAFT      | USA         | 1999 |
| 2:58.21 ROGER FRANKS      | USA | 2002 | 3:31.23 MAURICE LUSIEN    | FRA | 2001 | 200 M. FREE               |             |      |
| 3:09.22 KEIJIRO NAKAMURA  | JPN | 1999 | 3:39.51 THOMAS MAINE      | USA | 2002 | 3:00.21 KARL HAUTER       | GER         | 2005 |
| 3:10.22 RAYMOND TAFT      | USA | 1994 | 3:42.68 TOSHIMASA MINAMI  | JPN | 2005 | 3:00.63 RAYMOND TAFT      | USA         | 1999 |
| 3:11.29 MAMPEI SEINO      | JPN | 2007 | 3:42.99 MINORU NAGASHIMA  | JPN | 2001 | 3:00.86 FRANK PIEMME      | USA         | 2005 |
| 3:12.53 PAUL HUTINGER     | USA | 2000 | 3:45.50 HEINZ KRAUSS      | GER | 2007 | 3:01.42 HIKOJI UEKI       | JPN         | 1995 |
| 3:13.86 BOB BARRY         | AUS | 2006 | 3:47.05 JAN ZIEGLER       | CZE | 2000 | 3:01.91 TOSHIO SHIMIZU    | JPN         | 2007 |
| 3:14.41 HORACE KNOWLTON   | USA | 2004 | 3:47.63 BOB BEST          | USA | 2007 | 3:07.37 JIRO KOBAYASHI    | JPN         | 2005 |
| 3:14.51 CLARKE MITCHELL   | USA | 2007 | 3:48.09 HERB KERN         | USA | 2007 | 3:08.98 JAN ZIEGLER       | CZE         | 2006 |
| 3:17.07 ROGER BURRELL     | GBR | 2006 | 3:48.09 LEN GOLDSTONE     | USA | 2004 | 3:09.57 KEVIN VICKERY     | AUS         | 2003 |
| 3:17.47 KARL HAUTER       | GER | 2002 | 100 M. I.M.               |     |      | 3:10.03 HIDEAKI KATO      | JPN         | 2001 |
| 50 M. BRST                |     |      | 1:24.42 FRANK PIEMME      | USA | 2000 | 3:10.15 ALDO DA ROSA      | USA         | 1998 |
| 39.97 TOSHIO TAJIMA       | JPN | 2000 | 1:25.36 KARL HAUTER       | GER | 2000 | 400 M. FREE               |             |      |
| 40.17 ROBERT PFERSDORFF   | GER | 1999 | 1:25.68 MASAYASU KAMIYA   | JPN | 2007 | 6:27.60 RAY TAFT          | USA         | 1999 |
| 40.62 JOHN KORTHEUER      | USA | 2006 | 1:27.24 BOB BEST          | USA | 2007 | 6:30.21 KARL HAUTER       | GER         | 2006 |
| 41.61 SHUNSAKU TAKAHIRA   | JPN | 2007 | 1:27.43 RAYMOND TAFT      | USA | 1994 | 6:35.25 TOSHIO SHIMIZU    | JPN         | 2007 |
| 42.13 ZENJI NAKAHARI      | JPN | 2003 | 1:27.60 EDWARD BREISACHER | USA | 2007 | 6:38.17 JAN ZIEGLER       | CZE         | 2005 |
| 42.14 CHARLES URSTADT     | USA | 2004 | 1:28.97 BIRCH DAVIDSON    | USA | 1994 | 6:38.23 FRANK PIEMME      | USA         | 2005 |
| 42.30 WALTER MINNICH      | GER | 1994 | 1:29.03 SHOICHI SHIDA     | JPN | 2001 | 6:47.71 JURGEN SCHMIDT    | USA         | 2005 |
| 42.30 AUGUSTO ROMANO      | ITA | 1993 | 1:29.15 ASHLEY JONES      | USA | 2007 | 6:54.21 RYUJI FUJIKAWA    | JPN         | 1998 |
| 42.33 GERHARD GIERA       | GER | 2003 | 1:29.21 CHARLES BALDWIN   | USA | 2005 | 6:55.19 ALDO DA ROSA      | USA         | 1998 |
| 42.53 BOB BEST            | USA | 2007 | 200 M. I.M.               |     |      | 7:00.11 KEVIN VICKERY     | AUS         | 2003 |
| 100 M. BRST               |     |      | 3:10.06 KARL HAUTER       | GER | 2000 | 7:03.26 ROBERT JOHNSTON   | USA         | 1997 |
| 1:28.61 ROBERT PFERSDORFF | GER | 1999 | 3:16.44 FRANK PIEMME      | USA | 2000 | 800 M. FREE               |             |      |
| 1:28.72 SHUNSAKU TAKAHIRA | JPN | 2007 | 3:19.32 BOB BEST          | USA | 2007 | 13:29.27 RAYMOND TAFT     | USA         | 1999 |
| 1:32.85 ERICH NEUMANN     | GER | 2005 | 3:20.29 GRAHAM JOHNSTON   | USA | 2006 | 13:34.55 KARL HAUTER      | GER         | 2007 |
| 1:33.20 ZENJI NAKAHARI    | JPN | 2006 | 3:20.35 RAYMOND TAFT      | USA | 1994 | 13:41.19 FRANK PIEMME     | USA         | 2005 |
| 1:34.60 KARL HAUTER       | GER | 2000 | 3:21.65 MASAYASU KAMIYA   | JPN | 2007 | 14:05.05 JURGEN SCHMIDT   | USA         | 2003 |
| 1:35.01 IWAO NARUSE       | JPN | 2007 | 3:22.14 ALDO V DA ROSA    | USA | 1992 | 14:35.51 NILS KLING       | SWE         | 2004 |
| 1:35.73 TOSHIO TAJIMA     | JPN | 2002 | 3:22.71 HORACE KNOWLTON   | USA | 2004 | 14:36.00 KEVIN VICKERY    | AUS         | 2003 |
| 1:35.82 BOB BEST          | USA | 2007 | 3:26.29 DUANE DRAVES      | USA | 2001 | 14:37.33 HIROSHI IMAIZUMI | JPN         | 2005 |
| 1:35.87 ROBERT MACDONALD  | USA | 2003 | 3:26.32 ROGER BURRELL     | FRA | 2007 | 14:46.09 NORBERT ARTUS    | CAN         | 1997 |
| 1:36.39 CHARLES BALDWIN   | USA | 2005 | 400 M. I.M.               |     |      | 14:49.24 ROBERT JOHNSTON  | USA         | 1997 |
| 200 M. BRST               |     |      | 6:52.62 KARL HAUTER       | GER | 2001 | 14:50.91 WILLARD LAMB     | USA         | 2006 |
| 3:21.50 KARL HAUTER       | GER | 2000 | 6:59.68 FRANK PIEMME      | USA | 2000 | 1500 M. FREE              |             |      |
| 3:24.84 ROBERT PFERSDORFF | GER | 1999 | 7:07.64 GRAHAM JOHNSTON   | USA | 2006 | 25:35.01 RAY TAFT         | USA         | 1999 |
| 3:28.02 ESKO SALONEN      | FIN | 2001 | 7:08.53 RAYMOND TAFT      | USA | 1994 | 26:41.69 ALDO DA ROSA     | USA         | 1998 |
| 3:29.54 AL CRAIG          | USA | 2003 | 7:17.67 BOB BEST          | USA | 2007 | 27:03.64 JURGEN SCHMIDT   | USA         | 2005 |
| 3:30.52 FRANK PIEMME      | USA | 2000 | 7:20.86 ALDO V DA ROSA    | USA | 1992 | 27:33.01 ROBERT JOHNSTON  | USA         | 1997 |
| 3:31.43 SHUNSAKU TAKAHIRA | JPN | 2007 | 7:27.62 FRANK TANNER      | USA | 2006 | 27:33.43 HIROSHI IMAIZUMI | JPN         | 2005 |
| 3:32.66 ERICH NEUMANN     | GER | 2005 | 7:31.50 JAN ZIEGLER       | CZE | 2001 | 27:56.50 LEE ARTH         | USA         | 2005 |
| 3:34.29 ALDO DA ROSA      | USA | 1993 | 7:32.85 DUANE DRAVES      | USA | 2002 | 28:07.58 RYUJI FUJIKAWA   | JPN         | 1999 |
| 3:34.40 AUGUSTO ROMANO    | ITA | 1994 | 7:35.36 LEN GOLDSTONE     | USA | 2004 | 28:21.48 NORBERT ARTUS    | CAN         | 1997 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                          |     |      |                           |     |      |                           |          |
|--------------------------|-----|------|---------------------------|-----|------|---------------------------|----------|
| 28:43.31 DEXTER WOODFORD | USA | 1994 | 50 M. FLY                 |     |      | M E N 85-89               |          |
| 29:05.37 WILLARD LAMB    | USA | 2006 | 40.24 FRANK PIEMME        | USA | 2005 | *****                     |          |
| 50 M. BACK               |     |      | 40.25 TOSHIO TAJIMA       | JPN | 2005 | 50 M. FREE                |          |
| 38.26 KEIJIRO NAKAMURA   | JPN | 2003 | 40.40 TAMON YOSHIDA       | JPN | 2007 | 36.51 WILLARD LAMB        | USA 2007 |
| 41.31 SHOICHI SHIDA      | JPN | 2006 | 41.87 ANDREW HOLDEN       | USA | 1999 | 36.61 JIM EUBANK          | USA 2000 |
| 41.58 PAUL HUTINGER      | USA | 2004 | 42.14 MAX VON ISSER       | USA | 1999 | 37.08 SHOICHI SAKAMOTO    | JPN 2003 |
| 42.11 DALE WEBSTER       | USA | 2006 | 42.50 JAN ZIEGLER         | CZE | 2005 | 37.16 WOODROW BOWERSOCK   | USA 1998 |
| 42.16 SHOICHI SAKAMOTO   | JPN | 1998 | 42.96 SILVANO DANIELI     | ITA | 2007 | 37.85 ANDREW HOLDEN       | USA 2004 |
| 42.96 RAY TAFT           | USA | 1999 | 44.75 Y.MIYAMOTO          | JPN | 1997 | 37.96 WILLIAM JOHNSTON    | USA 2003 |
| 43.66 WILLIAM ROWE       | USA | 1997 | 45.44 KAKUICHI YANAGAWA   | JPN | 2001 | 38.46 ROGER HALIMI        | FRA 2007 |
| 43.71 OTTO CLAUS         | GER | 1995 | 45.55 PAUL KRUP           | USA | 1998 | 38.52 GORO KOBAYASHI      | JPN 2002 |
| 43.92 EDWARD SHEA        | USA | 1994 | 100 M. FLY                |     |      | 38.82 R.REINSTADTLER      | GER 1997 |
| 44.04 GORO KOBAYASHI     | JPN | 1998 | 1:36.53 KARL HAUTER       | GER | 2005 | 39.19 ISAMU TAMURA        | JPN 2004 |
| 100 M. BACK              |     |      | 1:41.82 JAN ZIEGLER       | CZE | 2005 | 100 M. FREE               |          |
| 1:25.77 KEIJIRO NAKAMURA | JPN | 2003 | 1:43.20 MAX VAN GELDER    | NED | 2004 | 1:23.20 JIM EUBANK        | USA 2000 |
| 1:33.27 PAUL HUTINGER    | USA | 2004 | 1:44.29 THOMAS MAINE      | USA | 2007 | 1:25.28 WILLARD LAMB      | USA 2007 |
| 1:33.58 RAY TAFT         | USA | 1999 | 1:47.17 FRANK PIEMME      | USA | 2005 | 1:27.00 HIKOJI UEKI       | JPN 2000 |
| 1:34.16 ROGER FRANKS     | USA | 2007 | 1:48.41 MINORU NAGASHIMA  | JPN | 2006 | 1:29.62 WOODY BOWERSOCK   | USA 1998 |
| 1:35.25 JAN ZIEGLER      | CZE | 2005 | 1:49.06 SILVANO DANIELI   | ITA | 2007 | 1:29.92 GORO KOBAYASHI    | JPN 2003 |
| 1:36.13 KARL HAUTER      | GER | 2006 | 1:50.39 ANTON CERER       | USA | 1997 | 1:34.08 TOKUSHI KOMEDA    | JPN 2000 |
| 1:36.41 ALDO DA ROSA     | USA | 1998 | 1:52.51 WALT PFEIFFER     | USA | 1994 | 1:34.55 ARTHUR THOMAS     | AUS 2002 |
| 1:37.17 EDWARD SHEA      | USA | 1994 | 1:53.80 RAYMOND TAFT      | USA | 1999 | 1:35.00 ISAMU TAMURA      | JPN 2005 |
| 1:38.01 DALE WEBSTER     | USA | 2006 | 200 M. FLY                |     |      | 1:35.43 ALDO DA ROSA      | USA 2002 |
| 1:38.04 TOSHIJI SATO     | JPN | 1996 | 3:52.41 THOMAS MAINE      | USA | 2007 | 1:35.66 SHIGEMASA OKAJIMA | JPN 2006 |
| 200 M. BACK              |     |      | 4:00.64 ANTON CERER       | USA | 1997 | 200 M. FREE               |          |
| 3:10.06 KEIJIRO NAKAMURA | JPN | 2003 | 4:17.12 PAUL KRUP         | USA | 1997 | 3:12.85 WILLARD LAMB      | USA 2007 |
| 3:23.73 RAY TAFT         | USA | 1999 | 4:17.29 MINORU NAGASHIMA  | JPN | 2006 | 3:13.45 JIM EUBANK        | USA 2000 |
| 3:25.46 ROGER FRANKS     | USA | 2007 | 4:18.70 HIRONARI UEDA     | JPN | 2002 | 3:15.87 HIKOJI UEKI       | JPN 2000 |
| 3:32.87 KARL HAUTER      | GER | 2005 | 4:25.99 WALTER PFEIFFER   | USA | 1994 | 3:29.01 TOKUSHI KOMEDA    | JPN 2000 |
| 3:33.60 JAN ZIEGLER      | CZE | 2006 | 4:37.61 PAUL HUTINGER     | USA | 2005 | 3:39.35 SABURO IWASAKI    | JPN 2001 |
| 3:33.91 EDWARD SHEA      | USA | 1994 | 4:44.45 LEE ARTH          | USA | 2005 | 3:42.64 STEVE CARLSON     | USA 2006 |
| 3:39.12 PAUL HUTINGER    | USA | 2004 | 4:50.00 JACQUES AMYOT     | CAN | 2004 | 3:43.53 RYUJI FUJIKAWA    | JPN 2003 |
| 3:40.02 G.SHIMOMOTO      | JPN | 2007 | 4:52.61 DON LEADER        | GBR | 2004 | 3:43.55 KISABURO WADA     | JPN 2002 |
| 3:40.75 C.SCHERER        | GER | 1995 | 100 M. I.M.               |     |      | 3:44.09 R.REINSTADTLER    | GER 1997 |
| 3:43.98 JOHN MERRILL     | USA | 1998 | 1:31.77 SHOICHI SHIDA     | JPN | 2006 | 3:45.82 ARTHUR THOMAS     | AUS 2002 |
| 50 M. BRST               |     |      | 1:32.25 KARL HAUTER       | GER | 2005 | 400 M. FREE               |          |
| 41.42 TOSHIO TAJIMA      | JPN | 2005 | 1:32.65 FRANK PIEMME      | USA | 2005 | 7:19.94 JIM EUBANK        | USA 2000 |
| 43.99 Y.KAWABATA         | JPN | 2006 | 1:33.50 JAN ZIEGLER       | CZE | 2006 | 7:27.29 TOKUSHI KOMEDA    | JPN 1999 |
| 44.56 Y.MIYAMOTO         | JPN | 1997 | 1:35.31 RAY TAFT          | USA | 1999 | 7:47.75 ALDO DA ROSA      | USA 2002 |
| 45.13 HORST FRITSCH      | GER | 2006 | 1:35.60 MAX VAN GELDER    | NED | 2004 | 7:49.70 RYUJI FUJIKAWA    | JPN 2002 |
| 45.40 MAX VON ISSER      | USA | 1999 | 1:38.31 ALDO DA ROSA      | USA | 1998 | 7:54.24 GUS LANGNER       | USA 1988 |
| 45.52 WATARU ASAOKA      | JPN | 2005 | 1:38.56 ANDREW HOLDEN     | USA | 1999 | 7:58.36 NILS FERM         | SWE 2002 |
| 45.52 KARL WITTENBERG    | GER | 1990 | 1:40.43 SADAYUKI WAKAI    | JPN | 2003 | 8:04.16 HIROSHI SAIGO     | JPN 2001 |
| 45.63 BARTON GREENBERG   | USA | 2004 | 1:42.52 HIROSHI IMAIZUMI  | JPN | 2005 | 8:10.74 ARTHUR THOMAS     | AUS 2004 |
| 45.78 FRANK PIEMME       | USA | 2005 | 200 M. I.M.               |     |      | 8:13.18 STEVE CARLSON     | USA 2004 |
| 45.82 MAX VAN GELDER     | NED | 2004 | 3:26.48 KARL HAUTER       | GER | 2006 | 8:19.50 HAROLD DODD       | GBR 2004 |
| 100 M. BRST              |     |      | 3:37.04 RAYMOND TAFT      | USA | 1999 | 800 M. FREE               |          |
| 1:36.91 KARL HAUTER      | GER | 2005 | 3:39.84 ALDO DA ROSA      | USA | 1998 | 15:15.68 JIM EUBANK       | USA 2000 |
| 1:39.85 TOSHIO TAJIMA    | JPN | 2005 | 3:44.29 THOMAS MAINE      | USA | 2005 | 16:19.95 TOKUSHI KOMEDA   | JPN 1999 |
| 1:42.05 FRANK PIEMME     | USA | 2005 | 3:46.96 ANTON CERER       | USA | 1997 | 16:28.13 HAROLD DODD      | GBR 2001 |
| 1:43.54 MAX VON ISSER    | USA | 1999 | 3:48.14 FRANK PIEMME      | USA | 2007 | 16:35.66 DICK GUIDO       | USA 2002 |
| 1:43.70 JAN ZIEGLER      | CZE | 2006 | 3:50.06 HIROSHI IMAIZUMI  | JPN | 2005 | 16:38.41 NILS FERM        | SWE 2003 |
| 1:43.91 Y.MIYAMOTO       | JPN | 1997 | 3:50.55 WOODROW BOWERSOCK | USA | 1994 | 16:53.90 GUS LANGNER      | USA 1988 |
| 1:45.09 ALDO DA ROSA     | USA | 1998 | 3:59.52 WALT PFEIFFER     | USA | 1994 | 16:53.91 RYUJI FUJIKAWA   | JPN 2002 |
| 1:45.51 BARTON GREENBERG | USA | 2004 | 3:59.82 JACQUES AMYOT     | CAN | 2004 | 17:32.11 ARTHUR THOMAS    | AUS 2004 |
| 1:45.93 WATARU ASAOKA    | JPN | 2005 | 400 M. I.M.               |     |      | 17:47.94 AUSTIN NEWMAN    | USA 2003 |
| 1:46.48 HIROMU YOSHIMOTO | JPN | 1995 | 7:26.06 KARL HAUTER       | GER | 2005 | 18:06.10 OLE LARSON       | USA 2007 |
| 200 M. BRST              |     |      | 7:37.58 RAY TAFT          | USA | 1999 | 1500 M. FREE              |          |
| 3:40.73 KARL HAUTER      | GER | 2005 | 7:49.23 FRANK PIEMME      | USA | 2005 | 29:55.69 JIM EUBANK       | USA 2000 |
| 3:47.50 JAN ZIEGLER      | CZE | 2006 | 7:53.88 ALDO DA ROSA      | USA | 1998 | 30:31.85 TOKUSHI KOMEDA   | JPN 1999 |
| 3:47.87 FRANK PIEMME     | USA | 2005 | 7:55.53 THOMAS MAINE      | USA | 2007 | 31:05.09 RYUJI FUJIKAWA   | JPN 2002 |
| 3:50.86 MAX VAN GELDER   | NED | 2004 | 8:00.81 ANTON CERER       | USA | 1997 | 32:11.96 HAROLD DODD      | GBR 2004 |
| 3:56.33 ISAO FUNAMOTO    | JPN | 2002 | 8:33.86 JURGEN SCHMIDT    | USA | 2003 | 32:20.20 GUS LANGNER      | USA 1988 |
| 3:57.72 FERNANDO NAJERA  | MEX | 2003 | 8:34.45 WALTER PFEIFFER   | USA | 1994 | 32:43.03 NILS FERM        | SWE 2003 |
| 3:58.96 ALDO DA ROSA     | USA | 1998 | 8:36.45 TED ROACH         | CAN | 2005 | 33:50.15 ARTHUR THOMAS    | AUS 2002 |
| 4:00.80 WATARU ASAOKA    | JPN | 2005 | 8:38.45 JACQUES AMYOT     | CAN | 2004 | 34:02.37 RICHARD SMITH    | USA 2005 |
| 4:02.12 HANS MORSCHER    | AUT | 1996 | *****                     |     |      | 35:02.69 AUSTIN NEWMAN    | USA 2004 |
| 4:02.90 JACQUES AMYOT    | CAN | 2004 |                           |     |      | 35:27.51 OLE LARSON       | USA 2006 |

# FINA WORLD MASTERS TOP 10 - SHORT COURSE METERS - ALL TIME (1986-2007)

|                           |          |                            |          |                           |          |
|---------------------------|----------|----------------------------|----------|---------------------------|----------|
| 50 M. BACK                |          | 47.89 ANDREW HOLDEN        | USA 2004 | 45.03 R.REINSTADTLER      | GER 2002 |
| 43.80 GORO KOBAYASHI      | JPN 2001 | 50.51 Y.MIYAMOTO           | JPN 2002 | 45.92 MASAHISA KANEKO     | JPN 2002 |
| 46.08 TOSHIJI SATO        | JPN 2000 | 52.74 WALT PFEIFFER        | USA 1998 | 46.23 MASAO UEDA          | JPN 2002 |
| 46.35 SHOICHI SAKAMOTO    | JPN 2003 | 53.00 PAUL KRUP            | USA 2004 | 46.94 GASTAO FIGUEIREDO   | BRA 2000 |
| 47.17 R.REINSTADTLER      | GER 1997 | 53.41 LUDWIG GEBURZI       | GER 2006 | 48.47 NILS FERM           | SWE 2007 |
| 47.34 ALDO DA ROSA        | USA 2002 | 54.74 ALDO DA ROSA         | USA 2002 | 49.37 HEINZ SIEGEL        | GER 2004 |
| 48.79 EDWARD SHEA         | USA 1999 | 56.72 KAKUICHI YANAGAWA    | JPN 2006 | 100 M. FREE               |          |
| 49.24 ANDREW HOLDEN       | USA 2004 | 57.12 WILLIAM JOHNSTON     | USA 2003 | 1:39.26 WOODY BOWERSOCK   | USA 2003 |
| 49.65 WILLARD LAMB        | USA 2007 | 57.69 MIRIO VISENTIN       | ARG 2006 | 1:41.47 TOKUSHI KOMEDA    | JPN 2004 |
| 49.75 C.SCHERER           | GER 1999 | 100 M. FLY                 |          | 1:45.28 GORO KOBAYASHI    | JPN 2007 |
| 49.86 NILS FERM           | SWE 2003 | 2:01.65 ANDREW HOLDEN      | USA 2004 | 1:47.51 MASAHISA KANEKO   | JPN 2002 |
| 100 M. BACK               |          | 2:04.50 WALT PFEIFFER      | USA 1998 | 1:51.96 HEINZ SIEGEL      | GER 2004 |
| 1:39.08 GORO KOBAYASHI    | JPN 2002 | 2:13.39 ALDO DA ROSA       | USA 2002 | 1:54.87 R.REINSTADTLER    | GER 2002 |
| 1:40.25 TOSHIJI SATO      | JPN 2000 | 2:15.51 LUDWIG GEBURZI     | GER 2007 | 1:56.86 ARTHUR THOMAS     | AUS 2007 |
| 1:48.79 ALDO DA ROSA      | USA 2002 | 2:15.74 PAUL KRUP          | USA 2003 | 1:56.88 GASTAO FIGUEIREDO | BRA 2000 |
| 1:48.95 EDWARD SHEA       | USA 1999 | 2:23.30 R.REINSTADTLER     | GER 1997 | 1:57.38 KAZUNAGA AKUTSU   | JPN 2004 |
| 1:50.96 R.REINSTADTLER    | GER 2000 | 2:25.92 ALDO CAPUTI        | ITA 2003 | 1:58.42 GUS LANGNER       | USA 1993 |
| 1:52.69 H.REITEMEYER      | GER 2006 | 2:26.79 HIRONARI UEDA      | JPN 2006 | 200 M. FREE               |          |
| 1:54.18 HIROMICHI MIYAZAK | JPN 2005 | 2:28.43 KAKUICHI YANAGAWA  | JPN 2006 | 3:39.65 TOKUSHI KOMEDA    | JPN 2004 |
| 1:54.47 RYUJI FUJIKAWA    | JPN 2002 | 2:37.89 WILLIAM JOHNSTON   | USA 2003 | 3:48.53 GORO KOBAYASHI    | JPN 2007 |
| 1:55.25 JOHN MERRILL      | USA 2006 | 200 M. FLY                 |          | 3:59.28 WOODY BOWERSOCK   | USA 2003 |
| 1:55.35 TOKUSHI KOMEDA    | JPN 2000 | 4:49.10 WALT PFEIFFER      | USA 1998 | 4:20.43 GASTAO FIGUEIREDO | BRA 2000 |
| 200 M. BACK               |          | 5:01.50 PAUL KRUP          | USA 2002 | 4:23.15 MASAHISA KANEKO   | JPN 2003 |
| 3:37.45 GORO KOBAYASHI    | JPN 2002 | 5:33.83 HIRONARI UEDA      | JPN 2006 | 4:26.25 ARTHUR THOMAS     | AUS 2007 |
| 4:00.80 ALDO DA ROSA      | USA 2002 | 6:10.72 WILLIAM JOHNSTON   | USA 2003 | 4:27.02 NILS FERM         | SWE 2007 |
| 4:02.65 RYUJI FUJIKAWA    | JPN 2002 | 7:59.16 JAY CHARLES        | USA 2007 | 4:27.70 GUS LANGNER       | USA 1993 |
| 4:05.07 JOHN MERRILL      | USA 2005 | 8:26.16 ROY BODINE         | USA 1997 | 4:41.18 L GENE CROSSET    | USA 2003 |
| 4:05.25 C.SCHERER         | GER 1999 | 100 M. I.M.                |          | 4:43.45 AUSTIN NEWMAN     | USA 2005 |
| 4:06.86 EDWARD SHEA       | USA 2000 | 1:32.47 HEINZ SIEGEL       | GER 2003 | 400 M. FREE               |          |
| 4:09.25 NILS FERM         | SWE 2003 | 1:48.23 ANDREW HOLDEN      | USA 2004 | 8:50.65 GUS LANGNER       | USA 1993 |
| 4:09.66 R.REINSTADTLER    | GER 1999 | 1:55.20 LUDWIG GEBURZI     | GER 2006 | 9:05.71 JOHN MERRILL      | USA 2007 |
| 4:16.04 HIROMICHI MIYAZAK | JPN 2005 | 1:55.35 MAX VON ISSER      | USA 2004 | 9:16.99 NILS FERM         | SWE 2007 |
| 4:17.43 JOHN HARRISON     | GBR 1999 | 1:56.26 R.REINSTADTLER     | GER 1997 | 9:23.13 AUSTIN NEWMAN     | USA 2005 |
| 50 M. BRST                |          | 1:59.34 ISAMU TAMURA       | JPN 2004 | 9:34.51 TOKUSHI KOMEDA    | JPN 2006 |
| 47.70 Y.MIYAMOTO          | JPN 2002 | 2:01.14 TOKUSHI KOMEDA     | JPN 2001 | 9:37.35 WOODY BOWERSOCK   | USA 2003 |
| 48.82 HIROMU YOSHIMOTO    | JPN 2000 | 2:06.07 M.FUKUSHIMA        | JPN 2001 | 9:41.12 R.REINSTADTLER    | GER 2003 |
| 50.04 SEIJI TAKAHASHI     | JPN 2000 | 2:06.37 FRANK GRIFFITHS    | AUS 1994 | 9:47.46 JIM TRILO         | USA 2004 |
| 50.25 R.REINSTADTLER      | GER 2000 | 2:08.81 ISAO FUNAMOTO      | JPN 2007 | 10:02.86 JOHN HARRISON    | GBR 2004 |
| 50.44 WALTER MINNICH      | GER 2004 | 200 M. I.M.                |          | 10:07.77 L GENE CROSSET   | USA 2003 |
| 50.69 H.REITEMEYER        | GER 2006 | 4:07.59 ALDO DA ROSA       | USA 2002 | 800 M. FREE               |          |
| 50.99 PAUL KRUP           | USA 2002 | 4:19.20 ANDREW HOLDEN      | USA 2004 | 18:37.14 NILS FERM        | SWE 2007 |
| 51.17 KARL WITTENBERG     | GER 1995 | 4:24.58 WALT PFEIFFER      | USA 1998 | 18:49.01 AUSTIN NEWMAN    | USA 2005 |
| 51.54 MAX VON ISSER       | USA 2004 | 4:42.38 TOKUSHI KOMEDA     | JPN 1999 | 19:31.83 WOODY BOWERSOCK  | USA 2003 |
| 52.09 LUDWIG GEBURZI      | GER 2006 | 4:51.91 WILLIAM JOHNSTON   | USA 2003 | 20:48.59 JOHN HARRISON    | GBR 2004 |
| 100 M. BRST               |          | 4:56.70 HIRONARI UEDA      | JPN 2006 | 23:32.20 GUS LANGNER      | USA 1998 |
| 1:50.32 HIROMU YOSHIMOTO  | JPN 2000 | 5:02.31 HERB EISENSCHMIDT  | USA 1991 | 25:36.41 EUGENE LEHMAN    | CAN 2004 |
| 1:56.21 ALDO DA ROSA      | USA 2002 | 5:08.19 ALDO CAPUTI        | ITA 2003 | 26:55.55 ROMAN JEZEK      | CAN 2004 |
| 1:59.82 Y.MIYAMOTO        | JPN 2002 | 5:23.70 LUIGI DAVOGLIO     | ITA 1995 | 27:22.19 HOWARD HOLMES    | NZL 2007 |
| 2:00.02 H.REITEMEYER      | GER 2006 | 5:25.65 TOM MC CALL        | USA 2007 | 1500 M. FREE              |          |
| 2:01.87 LUDWIG GEBURZI    | GER 2006 | 400 M. I.M.                |          | 35:20.36 AUSTIN NEWMAN    | USA 2005 |
| 2:03.83 MAX VON ISSER     | USA 2004 | 9:32.65 WALT PFEIFFER      | USA 1998 | 38:17.40 NILS FERM        | SWE 2007 |
| 2:04.45 PAUL KRUP         | USA 2002 | 9:36.09 ANDREW HOLDEN      | USA 2004 | 39:33.78 WOODY BOWERSOCK  | USA 2004 |
| 2:04.71 SEIJI TAKAHASHI   | JPN 2000 | 10:26.11 HIRONARI UEDA     | JPN 2006 | 40:43.49 JOHN HARRISON    | GBR 2004 |
| 2:06.89 GIORDANO RAGGI    | ITA 1999 | 10:47.13 HERB EISENSCHMIDT | USA 1991 | 44:48.99 GUS LANGNER      | USA 1996 |
| 2:07.15 ALFRED SCHULHOF   | CAN 2004 | 11:07.74 WILLIAM JOHNSTON  | USA 2003 | 47:19.71 EUGENE LEHMAN    | CAN 2004 |
| 200 M. BRST               |          | 11:48.29 TOM MC CALL       | USA 2007 | 51:43.20 PAUL E. SPANGLER | USA 1990 |
| 4:16.20 ALDO DA ROSA      | USA 2002 | 12:21.27 JAY CHARLES       | USA 2007 | 50 M. BACK                |          |
| 4:20.43 HIROMU YOSHIMOTO  | JPN 2001 | 12:53.77 DON MCCULLOUGH    | USA 2001 | 53.24 R.REINSTADTLER      | GER 2002 |
| 4:28.38 Y.MIYAMOTO        | JPN 2002 | 13:01.15 ROY BODINE        | USA 1996 | 53.32 TOSHIJI SATO        | JPN 2005 |
| 4:36.88 PAUL KRUP         | USA 2002 | *****                      |          | 55.25 JOHN MERRILL        | USA 2007 |
| 4:44.32 WALT PFEIFFER     | USA 1998 | M E N 90-94                |          | 55.47 KAZUNAGA AKUTSU     | JPN 2003 |
| 4:45.69 GIORDANO RAGGI    | ITA 1999 | *****                      |          | 56.02 NILS FERM           | SWE 2007 |
| 4:49.45 ALFRED SCHULHOF   | CAN 2004 | 50 M. FREE                 |          | 56.15 MASAHISA KANEKO     | JPN 2003 |
| 4:58.98 FRANK GRIFFITHS   | AUS 1994 | 41.07 WOODY BOWERSOCK      | USA 2003 | 57.09 WOODY BOWERSOCK     | USA 2003 |
| 5:00.00 BUD JACKSON       | USA 2004 | 42.60 GORO KOBAYASHI       | JPN 2006 | 57.73 SHOGORO AZUMA       | JPN 2002 |
| 5:04.17 BRUD CLEVELAND    | USA 2002 | 42.93 TOKUSHI KOMEDA       | JPN 2004 | 59.55 JOHN HARRISON       | GBR 2004 |
| 50 M. FLY                 |          | 43.89 KAZUNAGA AKUTSU      | JPN 2002 | 59.92 TOKUSHI KOMEDA      | JPN 2006 |
| 43.35 MAX VON ISSER       | USA 2004 |                            |          | 100 M. BACK               |          |



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