FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

WOMEN 25-29

50 M. FREE
26.20 ALISON SHEPPARD GBR
27.65 HEATHER HAGEMAN USA
27.67 MANUELA SHUBERT GER
28.08 ANNE VANNER GBR
28.27 CORINNA KLEFF GER
28.30 BIRGIT JUS AUT
28.41 LISA SUMMERS USA
28.44 VIVIENNE RIGNALL GER
28.71 T.ESTRADA-DERBEZ MEX
28.73 JNNA GLUSHENKO UKR

100 M. FREE
58.22 ALISON SHEPPARD GBR
59.87 MANUELA SHUBERT GER
1:00.88 SUSIE GEYER USA
1:01.97 DANIELA IMMELMANN GER
1:02.21 ANNE VANNER GBR
1:02.22 SUSAN HILL GBR
1:02.29 INES HARTMANN GER
1:02.32 LISA SUMMERS USA
1:02.56 HEATHER HAGEMAN USA
1:02.58 VIVIENNE RIGNALL GER

200 M. FREE
2:11.48 CHRISTINE JEFFREY USA
2:13.01 MANUELA SHUBERT GER
2:14.66 SUSAN HILL GBR
2:16.11 DANIELA IMMELMANN GER
2:17.16 LISA SUMMERS USA
2:17.27 INES HARTMANN GER
2:17.65 VALESCA CRUZ BRA
2:18.07 ANDREA HALBACH GER
2:18.50 G.SIGSGAARD DEN
2:19.02 SILVIA PARERA ESP

400 M. FREE
4:36.04 CHRISTINE JEFFREY USA
4:45.93 JENNIFER RIDGE USA
4:47.03 SUSAN HILL GBR
4:47.04 G.SIGSGAARD DEN
4:49.29 LISA SUMMERS USA
4:50.36 ANDREA HALBACH GER
4:52.30 ELLEN BAIRD USA
4:53.67 DANIELA IMMELMANN GER
4:54.10 ULRIKE ANDRESEN GER
4:59.30 BARBARA GRILLO ITA

800 M. FREE
9:48.03 G.SIGSGAARD DEN
9:53.26 KATHLEEN SMETH BEL
10:02.16 ELLEN BAIRD USA
10:10.84 ULRIKE ANDRESEN GER
10:11.73 ANDREA HALBACH GER
10:16.31 DANIELA IMMELMANN GER
10:16.60 BARBARA GRILLO ITA
10:20.93 K JANNOT FRA
10:26.11 HELEN RAMSAY GBR
10:26.32 LISA HJERPE USA

1500 M. FREE
19:16.73 JENNIFER RIDGE USA
19:33.26 LISA SUMMERS USA
19:44.31 KATHLEEN PISULA USA
19:55.29 HELEN RAMSAY GBR
20:00.47 ANN HILL USA
20:01.09 GONDA STIGTER NED
20:05.07 JULIE O HAGAN GBR
20:10.51 LINDA VISSER USA
20:36.09 HELEN BARRETT NZL
20:37.83 GABRIELLA RANCE GBR

50 M. BACK
30.73 KAORU ONO JPN
31.64 SUNNY SMILEY USA
31.88 TANYA LANE USA
32.20 ANA AZAEVEDO BRA
32.22 SUSIE GEYER USA
32.32 GISELI PEREIRA BRA
32.64 ERI NAKAMURA JPN
32.77 MANUELA SHUBERT GER
32.99 ANNETT REX GER
33.13 NATALIE VOLKER GER

100 M. BACK
1:05.02 ALISON SHEPPARD GBR
1:06.13 KAORU ONO JPN
1:09.06 TANYA LANE USA
1:09.31 ANA AZAEVEDO BRA
1:09.83 CHRISTINE JEFFREY USA
1:10.60 SUNNY SMILEY USA
1:10.78 INES HARTMANN GER
1:10.83 ANNETT RAX GER
1:10.87 SILVIA PARERA ESP
1:11.63 MANUELA SHUBERT GER

200 M. BACK
2:20.88 ALISON SHEPPARD GBR
2:28.54 TANYA LANE USA
2:29.33 CHRISTINE JEFFREY USA
2:30.39 INES HARTMANN GER
2:33.03 ANA AZEVEDO BRA
2:36.40 STEFANIA CORVO ITA
2:38.22 MARIKO TANUMA JPN
2:38.34 SILKE BLOMEYER GER
2:38.57 JO SWATTON GBR
2:39.60 ELEONORA FELICI ITA

50 M. BRST
33.98 ALISON SHEPPARD GBR
34.35 LOUISE MARTIN USA
34.39 SUSIE GEYER USA
34.76 ANNETT REX GER
35.00 HELEN DOUTHWAITE GBR
35.66 PETRA GANB GER
35.83 CORINNA KLEFF GER
36.10 A.BERTACCHE ITA
36.29 CHIFUMI YAMAGA JPN
36.38 PATRICIA OTTERO BRA

100 M. BRST
1:16.11 ALISON SHEPPARD GBR
1:16.63 ANNETT REX GER
1:16.74 HELEN DOUTHWAITE GBR
1:17.38 LOUISE MARTIN USA
1:17.39 WENKE HANSEN USA
1:18.89 PETRA GANB GER
1:20.33 CORINNA KLEFF GER
1:20.66 PATRICIA OTTERO BRA
1:20.79 KATJA BOSE GER
1:21.12 ANDREA MAECHLER USA

200 M. BRST
2:47.20 ANNETT REX GER
2:48.56 LOUISE MARTIN USA
2:51.68 PETRA GANB GER
2:54.09 TANYA LANE USA
2:55.29 KEIKO OKAMOTO JPN
2:57.49 KATJA BOSE GER
2:57.78 GLYCIA LOFEGO BRA
2:58.22 HELEN RAMSAY GBR
2:58.45 NICOLA COUCH GBR
2:58.83 LINDA VISSER USA

50 M. FLY
30.03 SUNNY SMILEY USA
30.21 A LESSARD FRA
30.39 SUSIE GEYER USA
30.74 CORINNA KLEFF GER
30.80 I SALTEL FRA
31.00 STEFANIA CORVO ITA
31.03 TRISH SHEA CAN
31.05 YUKI INOUE JPN
31.18 HEATHER HAGEMAN USA
31.21 JNNA GLUSHENKO UKR

100 M. FLY
1:07.88 DEBBIE GAUDIN CAN
1:08.54 JENNIFER RIDGE USA
1:08.84 ANDREA MAECHLER USA
1:08.94 SABINE SCHACKE GER
1:09.10 INES HARTMANN GER
1:09.17 SUNNY SMILEY USA
1:09.53 WENKE HANSEN USA
1:09.97 MARIA KELLY GBR
1:10.02 PATRIZIA DURJAK GER
1:10.13 D LEBRUN FRA

200 M. FLY
2:33.88 JENNIFER RIDGE USA
2:34.24 INES HARTMANN GER
2:36.62 MARIA KELLY GBR
2:38.70 BONNIE FRYER USA
2:39.38 CLAUDIA BROSIEN GER
2:39.45 SANDRA JOFFROY FRA
2:39.48 LINDA VISSER USA
2:40.62 SANDRA ALBRECHT GER
2:40.76 BIANCA STEINMETZ GER
2:41.69 BARBARA GRILLO ITA

200 M. I.M.
2:23.76 ALISON SHEPPARD GBR
2:26.99 WENKE HANSEN USA
2:29.68 TANYA LANE USA
2:30.96 JENNIFER RIDGE USA
2:31.37 ANDREA MAECHLER USA
2:32.28 LISA SUMMERS USA
2:32.82 CHRISTINE JEFFREY USA
2:34.49 BONNIE FRYER USA
2:35.02 MARCELA SMIDOVA CZE
2:35.72 NATALIE VOLCKER GER

400 M. I.M.
5:25.35 SABINE SCHACKE GER
5:28.33 LAUREL HILL USA
5:28.47 MARCELA SMIDOVA CZE
5:30.12 ANDREA MAECHLER USA
5:30.15 LISA SUMMERS USA
5:35.81 NATALIE VOLCKER GER
5:39.98 K JANNOT FRA
5:40.65 S LHOTELLIER FRA
5:41.15 HEIKE BESSLER GER
5:41.52 ELLEN BAIRD USA

WOMEN 30-34

50 M. FREE
26.75 TRACIE MOLL USA
27.88 JENNIFER PEASLEY USA
28.20 MURIELLE MARTIN FRA
28.25 SPAETI SIBYLLE SUI
28.47 SIOBHAN HARTLEY GBR
28.47 WILMA DANIEL RSA
28.48 KAREN JAMES GBR
28.48 JAMES KAREN GBR
28.51 NATALIE ALVEY USA
28.65 JUTTA LENGAUER GER

100 M. FREE
58.38 TRACIE MOLL USA
1:00.84 WILMA DANIEL RSA
1:01.30 LISA HAZEN USA
1:01.53 MURIELLE MARTIN FRA
1:01.67 JENNIFER PEASLEY USA
1:02.19 MICHELLE CHOW USA
1:02.50 NATALIE ALVEY USA
1:02.56 ANN CHRISTIANSEN SWE
1:02.74 LAUREEN WELTING USA
1:02.99 KIRSTEEN BUTLER AUS

200 M. FREE
2:09.68 TRACIE MOLL USA
2:13.39 LISA HAZEN USA
2:13.44 WILMA DANIEL RSA
2:13.47 ANN CHRISTIANSEN SWE
2:14.41 LAUREEN WELTING USA
2:16.68 HIDEKA KOSHIMIZU JPN
2:16.80 NANCY NORTH USA
2:18.00 JANE WEST USA
2:18.13 CHARLOT PETERSEN USA
2:18.13 TATIANA KALIVINA RUS

400 M. FREE
4:40.23 LISA HAZEN USA
4:43.22 HIDEKA KOSHIMIZU JPN
4:43.45 LAUREEN WELTING USA
4:43.83 ANN CHRISTIANSEN SWE
4:45.83 LISE LOTHE NOR
4:48.20 JANE WEST USA
4:49.95 KIRSTEEN BUTLER AUS
4:50.48 CHARLOT PETERSEN USA
4:50.58 NANCY NORTH USA
4:51.72 TATIANA KALIVINA RUS

800 M. FREE
9:29.91 LISA HAZEN USA
9:45.44 ANN CHRISTIANSEN SWE
9:51.33 JANE WEST USA
9:54.97 NANCY NORTH USA
10:08.73 DONNA JOHNSON USA
10:14.78 DAWN HEWITT USA
10:16.09 N.MUIR-COCHRANE GBR
10:16.22 ANGELIKA SCHULTE GER
10:16.65 HEIDI HARRIS USA
10:16.74 JOLANDA OUDKERK GER

1500 M. FREE
18:07.68 LISA HAZEN USA
18:46.01 LAUREEN WELTING USA
19:11.63 DONNA JOHNSON USA
19:34.75 N.MUIR-COCHRANE GBR
19:39.69 NANCY NORTH USA
19:50.82 JERRI FREIMUTH USA
20:05.00 MARGA VAN SETTEN NED
20:17.90 ANGELA FOX USA
20:21.24 ERICA KUIPER NED
20:31.00 K.VAN CAUTEREN BEL

50 M. BACK
32.37 LISE LOTHE NOR
33.07 LN NEMECKOVA CZE
33.10 C.BERNARDINI ITA
33.25 CSILLA CSIKA'NY HUN
33.53 JUTTA LENGAUER GER
33.64 HIROKO TAKUWA JPN
33.74 TINA SANDLIN USA
33.77 JOAN SCHRIGER USA
33.80 SILVA PANDIMIGLIO ITA
33.95 KATHERINE VEALE GBR

100 M. BACK
1:09.67 LISE LOTHE NOR
1:12.15 JOAN SCHRIGER USA
1:12.21 A LUALLEN-SCHOLZ USA
1:13.00 DAWN HEWITT USA
1:13.14 KATHERINE VEALE GBR
1:13.18 JUTTA LENGAUER GER
1:13.38 LAURA MCKEEVER USA
1:13.57 MARY GARDNER USA
1:13.62 A. BILBROUGH-TOKA AUS
1:13.70 C.BERNARDINI ITA

200 M. BACK
2:29.58 LISE LOTHE NOR
2:33.89 DAWN HEWITT USA
2:35.55 NIAMH BYRNE IRL
2:36.09 JOAN SCHRIGER USA
2:36.70 C.ESCATLLAR ESP
2:37.50 KATHERINE VEALE GBR
2:38.35 LISA HJERPE USA
2:38.46 R.LANZAROTTI ITA
2:38.86 MIKI NAMAI JPN
2:39.07 HIROKO TAKUWA JPN

50 M. BRST
36.21 SIOBHAN HARTLEY GBR
36.55 JENNIFER WECHSLER USA
37.00 MARTINA HOMEYER GER
37.17 IRIS SCHLUETTER GER
37.19 ELKE SCHARP GER
37.29 TOMOMI MIYAZONO JPN
37.58 PAOLA BORRELLI ITA
37.75 KRISTINA QUAISSER GER
37.79 JANI DORKEN CAN
37.82 JANA BEHLIKOVA SVK

100 M. BRST
1:20.41 HIDEKA KOSHIMIZU JPN
1:21.55 JENNIFER WECHSLER USA
1:21.57 MARZENA KULIS ITA
1:21.89 ELKE SCHARP GER
1:22.00 SIOBHAN HARTLEY GBR
1:22.41 JERRI FREIMUTH USA
1:22.68 RENATE MARTENS GER
1:22.74 LISA HJERPE USA
1:22.83 LORRAINE WHEATLEY GBR
1:22.98 KRISTINA QUAISSER GER

200 M. BRST
2:48.39 HIDEKA KOSHIMIZU JPN
2:52.72 NIAMH BYRNE IRL
2:56.05 LORRAINE WHEATLEY GBR
2:56.27 MARZENA KULIS ITA
2:56.79 JERRI FREIMUTH USA
2:57.79 SUSANNE KUPER GER
2:58.09 RENATE MARTENS GER
2:58.81 ELKE SCHARP GER
2:59.26 JENNIFER WECHSLER USA
3:00.47 JANI DORKEN CAN

50 M. FLY
28.77 TRACIE MOLL USA
30.20 MURIELLE MARTIN FRA
30.42 JENNIFER PEASLEY USA
30.70 SILVA PAROCCHI ITA
30.79 NATALIE ALVEY USA
30.92 TINA SANDLIN USA
30.94 KAREN JAMES GBR
30.94 JAMES KAREN GBR
30.96 SPAETI SIBYLLE SUI

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

30.98 HIDEKA KOSHIMIZU JPN

100 M. FLY

1:03.93 TRACIE MOLL USA
1:08.08 HIDEKA KOSHIMIZU JPN
1:09.33 KAREN JAMES GBR
1:09.33 JAMES KAREN GBR
1:09.81 MICHELLE CHOW USA
1:09.94 NATALIE ALVEY USA
1:09.98 JENNIFER PEASLEY USA
1:10.02 KATHERINE VEALE GBR
1:10.11 MARZENA KULIS ITA
1:10.18 JOLANDA OUDKERK GER

200 M. FLY

2:27.00 TRACIE MOLL USA
2:34.37 NANCY NORTH USA
2:34.77 HEIKE RUCKER GER
2:38.98 MARZENA KULIS ITA
2:39.18 C.ESCATLLAR ESP
2:39.64 JOLANDA OUDKERK GER
2:39.76 LENE RODSHAGEN DEN
2:40.78 E.GAILLANDE FRA
2:42.83 LUISA CABA¥ERO ESP
2:43.03 SIMONE NAKANO BRA

200 M. I.M.

2:29.17 HIDEKA KOSHIMIZU JPN
2:34.10 LAUREEN WELTING USA
2:34.38 C.BLEUL-GEHLKE GER
2:34.74 NIAMH BYRNE IRL
2:35.54 LISA HJERPE USA
2:35.76 SOPHIE MONGINET BRA
2:36.67 C.ESCATLLAR ESP
2:37.17 LISA HAZEN USA
2:37.42 TATIANA KALIVINA RUS
2:37.45 MICHELLE CHOW USA

400 M. I.M.

5:23.66 LAUREEN WELTING USA
5:28.04 C.ESCATLLAR ESP
5:35.06 LISA HJERPE USA
5:36.26 KATHERINE VEALE GBR
5:37.16 SOPHIE MONGINET BRA
5:37.66 ANN CHRISTIANSEN SWE
5:37.87 MARZENA KULIS ITA
5:38.50 TATIANA KALIVINA RUS
5:40.77 DEBBIE SCHULTZ USA
5:40.97 C.BLEUL-GEHLKE GER

****

WOMEN 35-39

****

50 M. FREE

27.61 K PIPES-NEILSEN USA
27.87 VERBAUWEN PSCALE BEL
28.08 KARIN SEICK GER
28.14 BARBARA GELLRICH GER
28.26 MARY ROEBUCK USA
28.52 CATHY SHONKWILER USA
29.01 MAUREEN O'TOOLE USA
29.15 NANCY RICHARDS AUS
29.19 KATHY GARNIER USA
29.22 KAREN ANDREWS USA

100 M. FREE

1:00.57 K PIPES-NEILSEN USA
1:00.64 PASCALE VERBAUWEN BEL
1:02.06 MARY ROEBUCK USA
1:02.87 CATHY SHONKWILER USA
1:02.91 BARBARA GELLRICH GER
1:02.96 LESLEIGH MAYES AUS
1:03.19 BETH KNIGHT USA
1:03.66 SHIZUKO HIRAISHI JPN
1:03.71 ROBYNN MASTERS USA
1:03.85 LEISSA MILLS USA

200 M. FREE

2:06.62 K PIPES-NEILSEN USA
2:16.66 MARY ROEBUCK USA
2:17.26 BARBARA GELLRICH GER
2:17.27 LEISSA MILLS USA
2:18.26 MARGEE CURRAN USA
2:19.33 LYNN MARSHALL CAN
2:19.42 CATHY SHONKWILER USA
2:19.55 INEKE HOND-RAN NED
2:19.87 HEIKE HANDEL GER
2:20.21 JEANETTE BRITS AUS

400 M. FREE

4:27.43 K PIPES-NEILSEN USA
4:41.34 PENNY BOND AUS
4:46.68 MARY ROEBUCK USA
4:48.42 LYNN MARSHALL CAN
4:50.90 BARBARA GELLRICH GER
4:51.08 ROSELI SILVA BRA
4:51.70 H VAUGHAN-EDMONDS USA
4:52.41 LEISSA MILLS USA
4:53.23 BETH KNIGHT USA
4:53.87 ROBYNN MASTERS USA

800 M. FREE

9:20.74 K PIPES-NEILSEN USA
9:25.54 PENNY BOND AUS
9:50.34 ROSELI SILVA BRA
9:51.02 SUZAN HEIM-BOWEN USA
9:52.15 MARGEE CURRAN USA
9:53.33 MARY ROEBUCK USA
9:55.92 MARGUERITE MEYER USA
9:56.66 H VAUGHAN-EDMONDS USA
9:58.42 ROBYNN MASTERS USA
10:07.65 FRANCOISE THEATE BEL

1500 M. FREE

18:06.70 K PIPES-NEILSEN USA
18:52.00 ROBYNN MASTERS USA
19:15.70 TRUDY WARREN AUS
19:17.64 MARGUERITE MEYER USA
19:30.30 AMY POPE USA
19:32.23 REBECCA PERROTT NZL
19:34.04 NANCY ROSE USA
19:56.84 I.VAN DER LAAN NED
19:59.78 JANICE MCASLAN CAN
20:25.07 PAT PENNOCK CAN

50 M. BACK

32.07 K PIPES-NEILSEN USA
32.57 KAREN ANDREWS USA
32.75 KARIN SEICK GER
33.46 CHERYL GIBSON CAN
33.60 SHIZUKO HIRAISHI JPN
33.71 BETH BAKER USA
33.78 V SWANSON USA
34.22 CATHY SHONKWILER USA
34.42 JUDITH RANDLES AUS
34.46 CLAUDIA LIPSKI GER

100 M. BACK

1:06.29 K PIPES-NEILSEN USA
1:09.37 PASCALE VERBAUWEN BEL
1:10.43 KAREN ANDREWS USA
1:11.72 V SWANSON USA
1:11.88 BETH BAKER USA
1:13.07 MASAMI HIGURASHI JPN
1:13.48 MARY ANDERS USA
1:14.09 SHIZUKO HIRAISHI JPN
1:14.63 JACQUELINE GRACE GBR
1:14.97 LESLEY WILDE GBR

200 M. BACK

2:18.37 K PIPES-NEILSEN USA
2:24.52 PASCALE VERBAUWEN BEL
2:35.56 ROBYNN MASTERS USA
2:37.99 LESLEY WILDE GBR
2:39.12 KAREN ANDREWS USA
2:40.01 MARY ANDERS USA
2:40.15 MASAMI HIGURASHI JPN
2:40.50 V SWANSON USA
2:42.29 NAOKO SHIDE JPN
2:42.54 JACQUELINE GRACE GBR

50 M. BRST

36.20 MO CHARLES FRA
36.25 MONICA CORO' ITA
36.60 PATTY POWIS USA
36.64 K PIPES-NEILSEN USA
37.55 BARBARA GELLRICH GER
37.67 CAROLYN HARRIGAN AUS
38.15 G MCCARNEY RSA
38.19 MAUD ORLANDO USA
38.21 KARIN WEIMER GER
38.25 BETH SCHEIMANN USA

100 M. BRST

1:18.76 MO CHARLES FRA
1:20.22 K PIPES-NEILSEN USA
1:22.96 MONICA CORO' ITA
1:23.31 MAUREEN O'TOOLE USA
1:23.84 M KULIS FRA
1:23.86 MAUD ORLANDO USA
1:24.09 PATTY POWIS USA
1:24.28 G MCCARNEY RSA
1:24.38 CLAUDIA LIPSKI GER
1:24.67 JANN GIRARD USA

200 M. BRST

2:56.28 K PIPES-NEILSEN USA
2:59.27 SILKE GODDE GER
2:59.92 BRITTA OLSCHOWKA GER
2:59.97 MO CHARLES FRA
3:00.96 JANN GIRARD USA
3:01.78 B.SILVA BRA
3:01.81 MAUD ORLANDO USA
3:02.59 PATTY POWIS USA
3:03.52 DARA WILBER USA
3:03.93 INEKE HOND-RAN NED

50 M. FLY

29.37 PASCALE VERBAUWEN BEL
29.75 K PIPES-NEILSEN USA
29.82 KARIN SEICK GER
29.82 BARBARA GELLRICH GER
31.10 MARIE SADLER GBR
31.15 BETH BAKER USA
31.15 MARTINA OCIK GER
31.36 CATHY SHONKWILER USA
31.43 SHIZUKO HIRAISHI JPN
31.49 S.BOSSERHOFF GER

100 M. FLY

1:04.34 K PIPES-NEILSEN USA
1:05.87 PASCALE VERBAUWEN BEL
1:07.11 BARBARA GELLRICH GER
1:08.73 BETH BAKER USA
1:09.85 MARTINA OCIK GER
1:09.94 ANDREA BLOCK USA
1:10.12 B.SILVA BRA
1:10.31 MARIE SADLER GBR
1:10.78 CATHY SHONKWILER USA
1:11.20 LESLEIGH MAYES AUS

200 M. FLY

2:22.97 K PIPES-NEILSEN USA
2:34.07 B.SILVA BRA
2:35.31 PENNY BOND AUS
2:35.65 BARBARA GELLRICH GER
2:40.08 ANDREA BLOCK USA
2:40.57 KETRINA CLARKE AUS
2:42.34 NANCY ROSE USA
2:46.63 ALISON PEGG AUS
2:48.98 K. MAIDMENT-WOOD AUS
2:50.63 M.MAUNSBACH DEN

200 M. I.M.

2:24.76 K PIPES-NEILSEN USA
2:34.44 MARY ROEBUCK USA
2:34.80 BARBARA GELLRICH GER
2:34.99 JANN GIRARD USA
2:38.34 BETH BAKER USA
2:38.54 V SWANSON USA
2:40.98 CECILIA STANFORD RSA
2:41.80 SHIZUKO HIRAISHI JPN
2:42.27 BEATRIZ BERTANI BRA
2:42.37 LYNN MARSHALL CAN

400 M. I.M.

5:02.67 K PIPES-NEILSEN USA
5:28.72 PENNY BOND AUS
5:36.85 ROBYNN MASTERS USA
5:37.36 JANN GIRARD USA
5:39.57 BETH BAKER USA
5:40.69 ROSELI SILVA BRA
5:43.38 BARBARA GELLRICH GER
5:45.29 PETRA KATZUR GER
5:46.09 B.SILVA BRA
5:49.91 SUZAN HEIM-BOWEN USA

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WOMEN 40-44

****

50 M. FREE

28.09 S NEILSON-BELL USA
28.42 G.BERGER-TALOCHIN FRA
28.91 JENNY WHITELEY AUS
29.32 KARLENE WISE USA
29.41 S LE NOACH BOZON FRA
29.42 JILL QUIRK CAN
29.64 MARIA STEENMETZ PER
29.78 ANGELA ZINGLER GER
30.05 DEBBIE GLASSMAN USA
30.10 ALISON NYE GBR

100 M. FREE

1:01.72 G.BERGER-TALOCHIN FRA
1:02.78 S NEILSON-BELL USA
1:03.33 JENNY WHITELEY AUS
1:03.85 JUDY WOODWARD CAN
1:04.24 JILL QUIRK CAN
1:04.67 KARLENE WISE USA
1:06.48 ANGELA ZINGLER GER
1:06.59 ESTHER ISEPPI SUI
1:06.70 ALISON NYE GBR
1:06.79 MARIA STEENMETZ PER

200 M. FREE

2:16.00 SUZ HEIM-BOWEN USA
2:17.97 JENNY WHITELEY AUS
2:19.55 G.BERGER-TALOCHIN FRA
2:20.89 S NEILSON-BELL USA
2:23.85 ESTER ISEPPI SUI
2:26.41 JILL QUIRK CAN
2:26.44 KARLENE WISE USA
2:26.68 KARIN MILGER GER
2:26.75 SUSAN SKIFF USA
2:27.48 MARTHA STANTON GBR

400 M. FREE

4:42.71 SUZ HEIM-BOWEN USA
4:55.30 JENNY WHITELEY AUS
5:02.10 CHARLENE O'BRIEN USA
5:02.66 GLENISE GALE AUS
5:03.85 A.KUCHENBUCH-SCHI GER
5:06.78 JANET BOLTON AUS
5:08.91 ESTER ISEPPI SUI
5:12.08 MARTHA STANTON GBR
5:13.95 JANE BURKS USA
5:15.04 LINDA BUCHANAN USA

800 M. FREE

9:37.13 SUZ HEIM-BOWEN USA
10:24.88 JENNY WHITELEY AUS
10:26.79 A.KUCHENBUCH-SCHI GER
10:49.18 JANET BOLTON AUS
10:49.53 MARTHA STANTON GBR
10:55.00 C TARANTINO ITA
10:56.19 MEG MAY USA
10:56.54 SUE KEARNEY AUS
10:56.62 CHARLENE O'BRIEN USA
11:02.87 TRACY GRILLI USA

1500 M. FREE

18:14.34 SUZ HEIM-BOWEN USA
20:20.09 JANE BURKS USA
20:23.91 ESTHER ISEPPI SUI
20:32.33 WANDA BROWN USA
20:52.57 MEG MAY USA
21:07.77 LISA BENNETT USA
21:20.45 TRACY GRILLI USA
21:20.90 MARTHA STANTON GBR
21:21.82 JUDY LAMBERT USA
21:30.92 KARLENE WISE USA

50 M. BACK

34.04 AROMA MARTORELL BRA
35.02 KARLENE WISE USA
35.17 EILEEN LUTHER GBR
35.28 PATTY LANDERS USA
35.63 JENNY WHITELEY AUS
35.91 UTE CIMDINS GER
36.52 JULIE LOWE GBR
36.60 V PREISLEROVA CZE
36.96 MARTHA STANTON GBR
36.97 IRIS MEIER GER
36.97 JANICE BOOTH GBR

100 M. BACK

1:14.85 PATTY LANDERS USA
1:15.38 AROMA MARTORELL BRA
1:16.59 UTE CIMDINS GER
1:17.30 V PREISLEROVA CZE
1:17.94 KARLENE WISE USA
1:18.12 JENNY WHITELEY AUS
1:18.16 JILL QUIRK CAN
1:18.42 MARTHA STANTON GBR
1:19.02 GLENISE GALE AUS
1:19.42 FERNANDA PRADO BRA

200 M. BACK

2:43.17 AROMA MARTORELL BRA
2:44.39 PATTY LANDERS USA
2:47.11 GLENISE GALE AUS
2:49.21 EDIE FISHER CAN
2:50.53 UTE CIMDINS GER
2:50.83 KARLENE WISE USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

2:51.67 MARTHA STANTON GBR
2:52.40 C TARANTINO ITA
2:52.86 C DAVIE RSA
2:53.88 CHARLENE O'BRIEN USA
50 M. BRST
35.71 DAGMAR HILBIG GER
36.55 JENNY WHITELEY AUS
37.04 ALISON NYE GBR
37.29 JULIE LOWE GBR
37.31 JUDY WOODWARD CAN
37.73 DAGMAR FRESE GER
38.15 LISA BENNETT USA
38.43 AMANDA HEATH GBR
38.56 URSULA RICHTER GER
38.61 ELKE OSTWALD GER
100 M. BRST
1:18.34 DAGMAR HILBIG GER
1:21.51 JUDY WOODWARD CAN
1:22.13 HIROKO ISHII JPN
1:22.52 JENNY WHITELEY AUS
1:22.64 AMANDA HEATH GBR
1:23.23 ALISON NYE GBR
1:23.26 DAGMAR FRESE GER
1:25.27 URSULA RICHTER GER
1:25.27 GLENISE GALE AUS
1:25.29 RENE STARRATT CAN
200 M. BRST
2:51.96 DAGMAR HILBIG GER
2:57.16 HIROKO ISHII JPN
2:57.68 AMANDA HEATH GBR
3:00.82 GLENISE GALE AUS
3:05.13 COLETTE CRABBE USA
3:05.17 JUDY TIBMA USA
3:05.52 JENNY WHITELEY AUS
3:05.98 DAGMAR FRESE GER
3:06.48 LISA BENNETT USA
3:07.12 GAIL RICE USA
50 M. FLY
31.35 DAGMAR HILBIG GER
31.72 CHARLENE O'BRIEN USA
31.89 S NEILSON-BELL USA
31.98 JENNY WHITELEY AUS
32.12 ANGELA ZINGLER GER
32.33 ALISON NYE GBR
32.36 DEBBIE GLASSMAN USA
32.44 JILL QUIRK CAN
32.56 MAGDA CAMPS ESP
32.64 PAM MARTIN USA
100 M. FLY
1:11.02 JENNY WHITELEY AUS
1:11.97 SUZAN HEIM-BOWEN USA
1:12.11 S NEILSON-BELL USA
1:13.00 CHARLENE O'BRIEN USA
1:13.92 ESTHER ISEPPI SUI
1:14.07 PAM MARTIN USA
1:14.48 JILL QUIRK CAN
1:14.79 DEBBIE FLANSBURG USA
1:14.85 SUSAN SKIFF USA
1:15.00 DEBBIE GLASSMAN USA
200 M. FLY
2:33.27 SUZ HEIM-BOWEN USA
2:40.17 GAIL RICE USA
2:43.75 JENNY WHITELEY AUS
2:44.79 DEBBIE FLANSBURG USA
2:46.98 ESTHER ISEPPI SUI
2:55.24 LAURA WORDEN USA
2:56.01 HARUMI SUGINUMA JPN
2:57.88 MELON DASH USA
3:00.22 GERTI WALLENTIN GER
3:00.38 ANNIE GIRERD FRA
200 M. I.M.
2:39.94 JENNY WHITELEY AUS
2:41.01 JUDY WOODWARD CAN
2:41.32 DAGMAR HILBIG GER
2:42.15 S NEILSON-BELL USA
2:42.80 ESTER ISEPPI SUI
2:43.43 AROMA MARTORELL BRA
2:45.42 SUZAN HEIM-BOWEN USA
2:46.78 ALISON NYE GBR
2:47.20 AMANDA HEATH GBR
2:47.76 CHARLENE O'BRIEN USA
400 M. I.M.
5:39.98 SUZ HEIM-BOWEN USA
5:43.60 JENNY WHITELEY AUS
5:46.83 GLENISE GALE AUS
5:47.81 ESTER ISEPPI SUI
5:49.42 GAIL RICE USA
5:50.86 AROMA MARTORELL BRA
5:56.94 AMANDA HEATH GBR
6:01.42 CHARLENE O'BRIEN USA
6:03.66 EDIE FISHER CAN
6:07.51 COLETTE CRABBE USA

****
WOMEN 45-49
****

50 M. FREE
28.30 JACKI HIRSTY USA
28.91 LAURA VAL USA
29.69 M VON RICHTHOFEN GER
30.15 REGULA STEIGER SUI
30.58 CATHY MERRITT CAN
30.88 C NIEUWENHUIS NED
31.30 SHARON YAKE CAN
31.32 YURI SUETSUGU JPN
31.40 KAYE VALLANCE AUS
31.44 M.ZIMBEHL-STEEB GER
100 M. FREE
1:02.75 LAURA VAL USA
1:02.86 JACKI HIRSTY USA
1:06.03 DANIELLE OGIER USA
1:07.23 CATHY MERRITT CAN
1:07.47 M VON RICHTHOFEN GER
1:08.66 KAYE VALLANCE AUS
1:08.91 BENEDICTE DUPREZ FRA
1:09.15 R BRITTINGHAM USA
1:09.22 REGULA STEIGER SUI
1:09.39 C NIEUWENHUIS NED
200 M. FREE
2:17.12 LAURA VAL USA
2:20.59 DANIELLE OGIER USA
2:20.74 JACKI HIRSTY USA
2:30.88 CATHY MERRITT CAN
2:31.60 LAURA VACA MEX
2:32.39 BARBARA DUNBAR USA
2:34.46 M VON RICHTHOFEN GER
2:35.02 JONELLE SCHMIDT USA
2:36.02 MARCIA BARRY USA
2:36.12 KAYE VALLANCE AUS
400 M. FREE
4:50.82 MARIA BRANCO BRA
4:59.29 JACKI HIRSTY USA
4:59.58 DANIELLE OGIER USA
5:11.71 LAURA VACA MEX
5:16.66 KATHRYN BULLOCK USA
5:17.88 BARBARA DUNBAR USA
5:19.89 DEB WALKER USA
5:24.24 PRISC KAWAKAMI USA
5:26.60 TERRY GAULT USA
5:27.93 BENEDICTE DUPREZ FRA
800 M. FREE
10:08.23 LAURA VAL USA
10:25.87 DANIELLE OGIER USA
10:36.65 LAURA VACA MEX
10:40.33 BARBARA DUNBAR USA
11:08.52 TERRY GAULT USA
11:08.54 JACKI HIRSTY USA
11:13.24 PRISCILL KAWAKAMI USA
11:19.26 MARCIA BARRY USA
11:28.89 SHERRY KITTRELL USA
11:29.97 LORRAINE KENT NZL
1500 M. FREE
19:26.97 LAURA VAL USA
20:01.55 DANIELLE OGIER USA
20:11.73 BARBARA DUNBAR USA
21:09.08 TERRY GAULT USA
21:15.70 PRISC KAWAKAMI USA
21:35.66 SHERRY KITTRELL USA
21:43.90 MARCIA BARRY USA
21:49.38 MARY ANN STEVENS USA
22:02.66 MARY WINDRATH USA
22:34.24 CYNTHIA JONES USA
50 M. BACK
33.13 LAURA VAL USA
34.58 BENEDICTE DUPREZ FRA
35.13 ANN GUINS USA
35.78 SUSIE ATWOOD USA
35.95 MORAG BROMFIELD RSA
36.17 CAROL PFLUGHEBER USA
36.67 KIMIKO ENOMOTO JPN
36.90 ANNE CORK GBR
37.35 KAYE VALLANCE AUS
37.36 DENISE KIRWAN USA
100 M. BACK
1:13.98 LAURA VAL USA
1:14.70 SUSIE ATWOOD USA
1:15.18 BENEDICTE DUPREZ FRA
1:19.82 ANNE CORK GBR
1:20.16 ANN GUINS USA
1:20.74 CAROL PFLUGHEBER USA
1:21.42 B.STATKEVICIENE LIT
1:21.82 MORAG BROMFIELD RSA
1:22.76 MARY ANN STEVENS USA
1:22.79 JONELLE SCHMIDT USA
200 M. BACK
2:47.64 SUSIE ATWOOD USA
2:47.70 BENEDICTE DUPREZ FRA
2:50.76 ANNE CORK GBR
2:53.68 DENISE KIRWAN USA
2:54.08 B.STATKEVICIENE LIT
2:56.42 TERI HENDRYX USA
2:57.13 KATHRYN BULLOCK USA
2:57.38 ULRIKE URBANIAK GER
2:58.78 CAROL PFLUGHEBER USA
3:00.48 TAKAKO NAKAHARA JPN
50 M. BRST
38.37 REGULA STEIGER SUI
38.67 PETRA SCHROER GER
38.97 DEB WALKER USA
39.19 ULRIKE URBANIAK GER
39.59 DANIELLE OGIER USA
39.63 UTA HOFFMANN GER
39.63 CHRISTY HARTMAN USA
39.81 BRIGITTE KUHL GER
39.98 JENNIFER MERRITT GBR
40.02 SUSAN HARBOTTLE AUS
100 M. BRST
1:23.88 ULRIKE URBANIAK GER
1:25.75 DEB WALKER USA
1:28.41 JENNIFER MERRITT GBR
1:28.43 SUSAN HARBOTTLE AUS
1:28.45 REGULA STEIGER SUI
1:28.49 CHRISTIANE HEEREN GER
1:28.54 ELIZABETH CUTTER USA
1:28.93 KRISSY MAC CURDY USA
1:29.25 CARMEN CORRES ESP
1:29.40 UTA HOFFMANN GER
200 M. BRST
2:57.38 ULRIKE URBANIAK GER
3:03.28 DEB WALKER USA
3:07.98 CHRISTIANE HEEREN GER
3:10.21 JENNIFER MERRITT GBR
3:10.45 DANIELLE OGIER USA
3:11.75 PETRA SCHROER GER
3:14.96 A WRIGHT-BELKNAP USA
3:15.20 ELIZABETH CUTTER USA
3:15.78 ANNE CORK GBR
3:16.19 CATHY MERRITT CAN
50 M. FLY
30.78 LAURA VAL USA
32.67 JACKI HIRSTY USA
32.77 LIZ RUTHERFORD GBR
33.70 MARY ANN STEVENS USA
33.76 JUDY CLARKE AUS
34.07 REGULA STEIGER SUI
34.12 SUSAN HARBOTTLE AUS
34.18 C NIEUWENHUIS NED
34.25 R BRITTINGHAM USA
34.29 CAROL PFLUGHEBER USA
100 M. FLY
1:08.02 LAURA VAL USA
1:14.43 MARY ANN STEVENS USA
1:19.60 JUDY CLARKE AUS
1:20.24 TERRY GAULT USA
1:21.55 CATHY MANCINO USA
1:21.73 LIZ RUTHERFORD GBR
1:21.96 R BRITTINGHAM USA
1:22.28 REGULA STEIGER SUI
1:22.71 JANET ZANN USA
1:23.57 JOAN PRIOR CAN
200 M. FLY
2:31.37 LAURA VAL USA
2:51.04 BARBARA DUNBAR USA
2:57.15 CATHY MANCINO USA
3:01.30 TERRY GAULT USA
3:05.09 KATHRYN BULLOCK USA
3:07.83 CLAUDIA KOCH GER
3:12.75 SUSAN CURE AUS
3:14.12 S.MORCHE-BLOCH GER
3:19.44 JUDITH CLARKE AUS
3:22.18 CAROLE SMITH ITA
200 M. I.M.
2:42.67 DANIELLE OGIER USA
2:45.53 LAURA VAL USA
2:46.75 ROSER CASTILLO ESP
2:48.15 JACKI HIRSTY USA
2:50.48 LAURA VACA MEX
2:51.19 MARY ANN STEVENS USA
2:51.75 B.STATKEVICIENE LIT
2:52.43 CATHY MERRITT CAN
2:52.87 DEB WALKER USA
2:53.55 ANNE CORK GBR
400 M. I.M.
5:47.17 DANIELLE OGIER USA
5:56.63 LAURA VACA MEX
5:58.76 ULRIKE URBANIAK GER
6:09.84 KATHRYN BULLOCK USA
6:11.13 BARBARA DUNBAR USA
6:25.74 CLAUDIA KOCH GER
6:26.63 SUSAN CURE AUS
6:26.82 KRISSY MAC CURDY USA
6:29.63 PRISC KAWAKAMI USA
6:35.68 MARILYN EARP AUS

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WOMEN 50-54
****

50 M. FREE
31.03 CAROL FELLOWS GBR
31.68 MICHIKO KIHARA JPN
31.70 JUDY WILSON GBR
31.88 ANNE PAGE USA
32.15 SUSANA BARKLEY ESP
32.17 MAGDOLNA PATO'H HUN
32.60 F WILLIAMSON USA
32.62 BRIGITTE MERTEN GER
32.63 MARILYN BROWN GBR
32.71 YOKO NAKAMURA JPN
100 M. FREE
1:10.09 CAROL FELLOWS GBR
1:10.25 F WILLIAMSON USA
1:11.55 BRIGITTE MERTEN GER
1:12.09 JUDY WILSON GBR
1:13.46 ANNE PAGE USA
1:13.98 A JONES RSA
1:14.06 K. LANGTHORNE AUS
1:14.08 LESLEY GOUGH AUS
1:14.25 JEAN TURNER USA
1:14.91 SUSANA BARKLEY ESP
200 M. FREE
2:30.83 DIANNE FOSTER CAN
2:34.74 F WILLIAMSON USA
2:34.94 SUSANA BARKLEY ESP
2:36.60 BRIGITTE MERTEN GER
2:37.27 SANDRA O NEIL GBR
2:37.47 ANNE GRAMS USA
2:41.55 LESLEY GOUGH AUS
2:42.71 JEAN TURNER USA
2:43.20 K. LANGTHORNE AUS
2:44.46 SALLY DILLON USA
400 M. FREE
5:12.02 DIANNE FOSTER CAN
5:32.05 SANDRA O NEIL GBR
5:32.69 F WILLIAMSON USA
5:35.42 SUSANA BARKLEY ESP
5:39.03 K. LANGTHORNE AUS
5:40.79 ANNE GRAMS USA
5:47.79 JEAN TURNER USA
5:52.04 BRIGITTE MERTEN GER
5:53.17 BERNICE WILKINS GER
5:53.32 NATALIA MIKHALOVA RUS
800 M. FREE
10:36.52 DIANNE FOSTER CAN
11:22.29 F WILLIAMSON USA
11:29.53 K. LANGTHORNE AUS
11:36.05 SANDRA O NEIL GBR

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

11:48.77 JEAN TURNER USA
12:03.84 SALLY DILLON USA
12:08.06 BERNICE WILKINS GER
12:13.32 NATALIA MIKHALOVA RUS
12:15.30 PAULINE COOKE GBR
12:16.45 KATHY HYDE NZL

1500 M. FREE

22:35.13 SANDRA O NEIL GBR
22:43.97 SALLY DILLON USA
22:48.92 SUZANNE DILLS USA
23:01.20 KATHY HYDE NZL
23:29.66 LYNN CARTEE USA
23:31.06 ANNE PAGE USA
23:47.64 PAULINE COOKE GBR
23:48.34 CHRISTIE HAYES USA
24:11.43 MARY POHLMANN USA
24:27.59 JOANNE MENARD USA

50 M. BACK

35.84 MICHIKO KIHARA JPN
35.85 CAROL FELLOWS GBR
36.60 MARILYN BROWN GBR
37.88 MIMI FRANK USA
38.84 MAGDOLNA PATO'H HUN
39.10 M BALLA FRA
39.58 CHIKAKO FUKAI JPN
39.67 BRIGITTE MERTEN GER
40.00 STEFFI SOLLNER GER
40.14 CLARY MUNNS AUS

100 M. BACK

1:22.72 BRIGITTE MERTEN GER
1:22.80 DIANNE FOSTER CAN
1:22.83 SANDRA O NEIL GBR
1:24.06 M BALLA FRA
1:24.20 CAROL FELLOWS GBR
1:26.44 NATALIA MIKHALOVA RUS
1:26.62 JILL WHYMAN GBR
1:26.91 BERNICE WILKINS GER
1:27.03 MIMI FRANK USA
1:29.24 HELEN TRIPPE GBR

200 M. BACK

2:57.59 SANDRA O NEIL GBR
3:01.24 BRIGITE MERTEN GER
3:03.99 DIANNE FOSTER CAN
3:07.10 NATALIA MIKHALOVA RUS
3:10.44 MIMI FRANK USA
3:13.23 MARY POHLMANN USA
3:13.84 MASAKO AKITA JPN
3:13.88 CHRISTINE ZIMMET USA
3:14.11 KATHRINE CASEY USA
3:14.71 ANDREA HAINES USA

50 M. BRST

39.16 JAN MACLEOD AUS
40.09 EMMA GIER GER
40.20 GINGER PIERSON USA
40.93 SHIRLEY TURNER RSA
41.22 MARTINA KRAUSE GER
41.42 MARGOT PETTIJOHN USA
41.65 P.HARRINGTON GBR
41.89 VLASTA OEHL GER
41.94 CHRISTIE HAYES USA
41.96 JULIE CRAYFORD GBR

100 M. BRST

1:28.05 SHIRLEY TURNER RSA
1:30.20 JAN MACLEOD AUS
1:30.71 P.HARRINGTON GBR
1:31.15 EMMA GIER GER
1:31.89 VLASTA OEHL GER
1:32.62 CHRISTIE HAYES USA
1:33.39 GINGER PIERSON USA
1:33.64 KAYAKO HIROSE JPN
1:34.58 DANIELA BARNEA USA
1:34.60 YOSHIE OGASAWARA JPN

200 M. BRST

3:15.18 P.HARRINGTON GBR
3:22.76 MARGOT PETTIJOHN USA
3:23.12 CHRISTIE HAYES USA
3:23.92 ANNEGRET VOLCKER GER
3:24.19 VLASTA OEHL GER
3:24.24 DANIELA BARNEA USA
3:25.41 YOSHIE OGASAWARA JPN
3:26.88 JULIE CRAYFORD GBR
3:27.57 GINGER PIERSON USA
3:28.10 HITOKO KERKHOF USA

50 M. FLY

33.99 JUDY WILSON GBR
34.09 SUSANA BARKLEY ESP
34.13 CAROL FELLOWS GBR
34.24 ANNE GRAMS USA
34.78 JAN MACLEOD AUS
36.04 BRIGITTE MERTEN GER
36.11 ANNE PAGE USA
36.12 MICHIKO MOTEGI JPN
36.14 SANDI ROUSSEAU USA
36.16 JOANNE AYRES AUS

100 M. FLY

1:16.82 JUDY WILSON GBR
1:17.18 ANNE GRAMS USA
1:18.35 SUSANA BARKLEY ESP
1:18.73 DIANNE FOSTER CAN
1:23.14 BERNICE WILKINS GBR
1:23.14 LESLEY GOUGH AUS
1:25.15 BRIGITTE MERTEN GER
1:25.31 JEAN TURNER USA
1:27.48 JOANNE AYRES AUS
1:29.23 KEIKO HONDA JPN

200 M. FLY

2:59.46 ANNE GRAMS USA
3:03.69 SUSANA BARKLEY ESP
3:14.01 JEAN TURNER USA
3:24.90 GINGER PIERSON USA
3:27.81 JOANNE AYRES AUS
3:28.75 HARRIET BURE SWE
3:29.71 PATRICIA DAVIS CAN
3:30.48 PAT JACKSON GBR
3:30.79 LILIAN MORAES BRA
3:31.80 CHRISTINE ZIMMET USA

200 M. I.M.

2:55.82 BRIGITTE MERTEN GER
2:56.61 SANDRA O NEIL GBR
2:58.52 ANNE GRAMS USA
3:02.32 LYNN CARTEE USA
3:06.26 F WILLIAMSON USA
3:09.45 CHRISTIE HAYES USA
3:11.00 MIMI FRANK USA
3:11.95 JULIE CRAYFORD GBR
3:12.33 MASAKO AKITA JPN
3:13.11 HARRIET BERGER GER

400 M. I.M.

6:15.82 BRIGITTE MERTEN GER
6:45.87 CHRISTIE HAYES USA
6:48.24 LYNN CARTEE USA
6:48.26 JULIE CRAYFORD GBR
6:53.56 NATALIA MIKHALOVA RUS
6:54.47 CHRIS WEBER USA
6:55.14 ANNE PAGE USA
6:59.90 KATHRINE CASEY USA
7:04.36 ANNEGRET VOLCKER GER
7:04.94 PAT JACKSON GBR

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WOMEN 55-59

****

50 M. FREE

31.09 NANCY RIDOUT USA
32.14 CHRISTEL SCHULZ GER
32.59 JACKIE MARR USA
32.93 JEN THOMASSON AUS
33.48 RENATA BASTEK POL
33.51 SILVANA ABREU BRA
33.82 SANDRA HOLDSWORTH AUS
34.16 PHYLIS WARD USA
34.22 W ROSSER RSA
34.43 BARBARA FRID USA

100 M. FREE

1:11.63 JEN THOMASSON AUS
1:11.80 NANCY RIDOUT USA
1:11.95 JACKIE MARR USA
1:14.03 CHRISTEL SCHULZ GER
1:17.11 RENATA BASTEK POL
1:17.37 JAYNE LAMBKE USA
1:18.05 S LEUNER RSA
1:19.37 W ROSSER RSA
1:19.77 BARBARA FRID USA
1:19.89 JILL COMPLIN GBR

200 M. FREE

2:38.35 JEN THOMASSON AUS
2:41.63 NANCY RIDOUT USA
2:44.53 JACKIE MARR USA
2:50.84 CAROL WANNELL AUS
2:53.03 JAYNE LAMBKE USA
2:53.75 JILL COMPLIN GBR
2:54.77 EDNA DE SARACHO MEX
2:55.35 JV BERKEL-DE NIJS NED
2:55.91 HELENA MORRIS AUS
2:56.97 S LEUNER RSA

400 M. FREE

5:33.61 JEN THOMASSON AUS
5:44.56 NANCY RIDOUT USA
5:50.42 CAROL WANNELL AUS
5:52.99 JACKIE MARR USA
5:59.87 HANNELORE ROSE GER
6:04.75 RENATE LEMCKE GER
6:12.25 JAYNE LAMBKE USA
6:12.35 EDNA DE SARACHO MEX
6:13.14 JILL COMPLIN GBR
6:14.21 JV BERKEL-DE NIJS NED

800 M. FREE

11:46.03 JEN THOMASSON AUS
11:55.00 CAROL WANNELL AUS
12:24.99 SARAH BROUGHER USA
12:26.02 HANNELORE ROSE GER
12:41.64 EDNA DE SARACHO MEX
12:49.39 BARBARA FRID USA
12:54.14 ANNE KREISEL GER
12:56.03 S LEUNER RSA
12:59.39 DOREEN GORDON GBR
13:01.99 ALISON LEACH NZL

1500 M. FREE

22:57.70 CAROL WANNELL AUS
25:00.82 JAYNE LAMBKE USA
25:04.72 HELENA MORRIS AUS
25:59.12 ELAINE BROMWICH USA
26:00.43 JUNE FLETCHER AUS
26:08.81 LYNNE LUND USA
26:31.91 M.DI-CESARE NZL
26:45.64 SUSAN LIVINGSTON USA
27:02.30 SALLY BOLAR USA
27:15.96 ELIZABETH JOHNSON USA

50 M. BACK

36.08 SATOKO TAKEUJI JPN
37.21 SILVANA ABREU BRA
38.29 HIROMI SATO JPN
38.30 MARGARET WILDING GBR
39.72 BETTY BENNETT USA
40.12 CHRISTEL SCHULZ GER
40.12 RENATA BASTEK POL
40.37 ANNA RAGAZ USA
40.40 SATOKO KAWADA JPN
41.00 MA'RTA EGERVA'RY HUN

100 M. BACK

1:24.97 SILVANA ABREU BRA
1:27.33 BETTY BENNETT USA
1:28.74 BONNIE PRONK CAN
1:28.78 CHRISTEL SCHULZ GER
1:30.68 MA'RTA EGERVA'RY HUN
1:31.42 JEN THOMASSON AUS
1:31.72 SATOKO KAWADA JPN
1:31.86 BARBARA FRID USA
1:32.84 RENATE ZSCHOCKELT GER
1:32.89 NORIKO YOSHIDA JPN

200 M. BACK

3:03.23 SILVANA ABREU BRA
3:03.84 BONNIE PRONK CAN
3:09.41 BETTY BENNETT USA
3:13.60 SARAH BROUGHER USA
3:14.34 GERDA WILLIAMS AUS
3:20.47 HEIDI GUHL GER
3:21.05 RENATE ZSCHOCKELT GER
3:24.40 JV BERKEL-DE NIJS NED
3:25.79 PHYLIS WARD USA
3:25.85 MICHIKO SHINOHARA JPN

50 M. BRST

39.42 MONIKA SENFTLEBEN GER
40.18 BONNIE PRONK CAN
40.98 JOANN LEILICH USA
41.94 DIANE FORD GBR
43.84 JEN THOMASSON AUS
43.97 IVANA FELGROVA CZE
44.53 ROSA-MARIA HOFFT GER
44.75 NANCY BROOKS USA
44.76 KAZUKO KAJIWARA JPN
44.83 GLORIA HARDY AUS

100 M. BRST

1:29.26 HANNELORE ROSE GER
1:30.65 BONNIE PRONK CAN
1:30.97 MONIKA SENFTLEBEN GER
1:31.92 DIANE FORD GBR
1:33.14 JEN THOMASSON AUS
1:34.78 JOANN LEILICH USA
1:37.26 LUISE KNOPFLE GER
1:38.21 GLORIA HARDY AUS
1:38.93 NANCY BROOKS USA
1:39.06 BARBARA FRID USA

200 M. BRST

3:14.40 HANNELORE ROSE GER
3:14.78 JEN THOMASSON AUS
3:16.00 NORMA SUTHERLAND AUS
3:17.39 BONNIE PRONK CAN
3:19.16 JOANN LEILICH USA
3:21.88 DIANE FORD GBR
3:26.78 MONIKA SENFTLEBEN GER
3:32.00 LUISE KNOPFLE GER
3:34.87 GERDA WILLIAMS AUS
3:35.25 JACKIE MARR USA

50 M. FLY

35.77 SARAH BROUGHER USA
35.91 CHRISTEL SCHULZ GER
36.51 SILVANA ABREU BRA
36.96 BARBARA FRID USA
37.79 JACKIE MARR USA
38.44 BONNIE PRONK CAN
39.35 TOYOKO SAITO JPN
39.40 JAYNE LAMBKE USA
39.69 S LEUNER RSA
39.69 HELENA MORRIS AUS

100 M. FLY

1:24.32 NANCY RIDOUT USA
1:32.83 JEN THOMASSON AUS
1:35.59 LYNNE LUND USA
1:35.60 MARIA H.PADILLA BRA
1:35.60 MARIA COSTA BRA
1:35.70 MONIKA SENFTLEBEN GER
1:37.64 YOKO UOZU JPN
1:38.84 CARROL WANNELL AUS
1:39.17 JAYNE LAMBKE USA
1:39.93 UTE FEHLING GER

200 M. FLY

3:14.39 HANNELORE ROSE GER
3:36.74 MONIKA SENFTLEBEN GER
3:38.44 MARIA H.PADILLA BRA
3:41.48 PAM FLETCHER AUS
3:44.47 LYNNE LUND USA
3:44.62 YOKO UOZU JPN
3:46.50 REIKO NAGASAKU JPN
3:49.02 SUSAN LIVINGSTON USA
3:50.95 SALLY BOLAR USA
3:54.33 GEORGIE HAMILTON GBR

200 M. I.M.

3:00.80 JEN THOMASSON AUS
3:02.40 SILVANA ABREU BRA
3:05.03 HANNELORE ROSE GER
3:07.45 BONNIE PRONK CAN
3:07.96 JACKIE MARR USA
3:17.32 GERDA WILLIAMS AUS
3:19.79 JV BERKEL-DE NIJS NED
3:20.19 M.DI-CESARE NZL
3:21.64 BETTY BENNETT USA
3:21.65 KAZUKO ITO JPN

400 M. I.M.

6:25.02 JEN THOMASSON AUS
6:32.90 HANNELORE ROSE GER
6:50.60 JACKIE MARR USA
6:57.09 GERDA WILLIAMS AUS
7:00.39 BETTY BENNETT USA
7:14.39 MARIA H.PADILLA BRA
7:23.70 LYNNE LUND USA
7:23.98 M.DI-CESARE NZL
7:24.33 CARROL WANNELL AUS
7:32.37 JV BERKEL-DE NIJS NED

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WOMEN 60-64

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50 M. FREE

33.44 YOSHIKO OSAKI JPN
33.50 JAYNE BRUNER USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

34.91 OLGA KREJCI SUI
34.93 BARBARA ZAREMSKI USA
35.42 PAM HUTCHINGS AUS
35.47 VIRGINIA RIDPATH CAN
36.01 HISAKO SATO JPN
36.03 TSUNEKO YONEKURA JPN
36.04 FUSAKO HIROOKA JPN
36.14 FUSAKO YAMAWAKI JPN

100 M. FREE

1:14.12 YOSHIKO OSAKI JPN
1:19.02 PAM HUTCHINGS AUS
1:19.76 JAYNE BRUNER USA
1:21.36 MARGA SCHULZE GER
1:22.20 VIRGINIA RIDPATH CAN
1:22.50 KEIKO YAMADA JPN
1:22.75 BARBARA ZAREMSKI USA
1:23.18 DIANE STOWELL USA
1:23.66 BARBARA FENTIMAN GBR
1:23.73 TAYO FUJIEDA JPN

200 M. FREE

2:43.85 YOSHIKO OSAKI JPN
2:58.02 MARGA SCHULZE GER
2:59.54 PAM HUTCHINGS AUS
2:59.61 BETSY JORDAN USA
3:00.01 REIKO ISHIZAKI JPN
3:00.16 LINDA MACPHERSON CAN
3:02.11 BARBARA FENTIMAN GBR
3:02.89 DIANE STOWELL USA
3:05.08 JAYNE BRUNER USA
3:06.65 G WILLIAMSON RSA

400 M. FREE

5:46.79 YOSHIKO OSAKI JPN
6:08.91 REIKO ISHIZAKI JPN
6:16.47 MARGA SCHULZE GER
6:17.16 DIANE STOWELL USA
6:22.15 LINDA MACPHERSON CAN
6:22.48 BETSY JORDAN USA
6:23.23 JUTTA SEIDL GER
6:26.24 HELGA REICH GER
6:26.47 BARBARA FENTIMAN GBR
6:36.50 LOTTIE GEURTS NED

800 M. FREE

12:35.18 REIKO ISHIZAKI JPN
12:48.86 MARGA SCHULZE GER
13:03.69 JUTTA SEIDL GER
13:06.22 LINDA MACPHERSON CAN
13:11.01 HELGA REICH GER
13:20.29 SUSAN BRADLEY-COX USA
13:23.74 BARBARA FENTIMAN GBR
13:30.17 LOTTIE GEURTS NED
13:57.80 RENATA MARTING ITA
14:07.41 KATI KNIGHT-PERRY USA

1500 M. FREE

25:07.30 BARBARA FENTIMAN GBR
25:10.66 SUSAN BRADLEY-COX USA
25:56.18 BETSY JORDAN USA
26:50.47 RONNIE KAMPHAUSEN USA
26:54.10 KATI KNIGHT-PERRY USA
27:07.00 BARBARA ZAREMSKI USA
27:50.72 DONNA MONROE USA
28:02.56 SUMIRE ISHIHARA JPN
28:04.56 JENNY BALL GBR
28:08.57 SHIRLEY DACEY USA

50 M. BACK

41.29 PAM HUTCHINGS AUS
41.31 BETSY JORDAN USA
42.60 HAIKE HOLER GER
42.80 ULLA KASTNER GER
43.12 SHOKO YONEZAWA JPN
43.26 TSUNEKO YONEKURA JPN
43.36 KEIKO YAMADA JPN
43.88 ALICE KINNAIRD AUS
44.01 INGRID LANGE GER
44.05 MARCIA BORELLI BRA

100 M. BACK

1:30.69 BETSY JORDAN USA
1:32.71 PAM HUTCHINGS AUS
1:34.16 ALICE KINNAIRD AUS
1:34.70 ULLA KASTNER GER
1:35.63 TSUNEKO YONEKURA JPN
1:35.70 SUSAN LIVINGSTON USA
1:36.29 HAIKE HOLER GER
1:36.90 SHOKO YONEZAWA JPN
1:36.99 KEIKO YAMADA JPN
1:38.17 INGRID LANGE GER

200 M. BACK

3:22.26 BETSY JORDAN USA
3:25.42 HAIKE HOLER GER
3:27.35 ALICE KINNAIRD AUS
3:30.30 SUSAN LIVINGSTON USA
3:30.96 MARGA SCHULZE GER
3:31.53 BRENDA WALKER GBR
3:31.82 INGRID LANGE GER
3:31.87 HARUMI SUGIMOTO JPN
3:35.86 EVA JAROSOVA CZE
3:36.29 URSULA FROHLICH GER

50 M. BRST

41.43 JAYNE BRUNER USA
43.85 OLGA KREJCI SUI
44.80 SHOKO YONEZAWA JPN
45.16 MASAYO AZUMA JPN
45.30 GABRIELLA TUCCI ITA
45.46 SALLY NEWELL USA
45.53 ELEONORE OTTO GER
45.62 MARCELA STASTNA CZE
45.77 KEIKO YAMADA JPN
46.34 LILO HOHLFELD GER

100 M. BRST

1:36.54 MASAYO AZUMA JPN
1:39.13 ELEONORE OTTO GER
1:39.28 SHOKO YONEZAWA JPN
1:40.52 TAYO FUJIEDA JPN
1:41.28 MARCELA STASTNA CZE
1:41.68 SALLY NEWELL USA
1:42.39 GABRIELLA TUCCI ITA
1:42.56 MIYUKI SAKASHITA JPN
1:42.98 KEIKO YAMADA JPN
1:43.24 MARGIT JEBE USA

200 M. BRST

3:26.29 MASAYO AZUMA JPN
3:34.50 ELEONORE OTTO GER
3:35.62 TAYO FUJIEDA JPN
3:37.80 SHOKO YONEZAWA JPN
3:43.27 SALLY NEWELL USA
3:43.28 MARGIT JEBE USA
3:44.17 GABRIELLA TUCCI ITA
3:46.58 SUE MAYNE AUS
3:46.80 GISELA SCHEFFLER GER
3:47.00 ANNEMARIE LUDICKE GER

50 M. FLY

37.39 YOSHIKO OSAKI JPN
39.16 HAIKE HOLER GER
40.05 JAYNE BRUNER USA
40.84 HISAKO SATO JPN
41.39 ANN KAY USA
42.25 SHOKO YONEZAWA JPN
42.34 LINDA MACPHERSON CAN
42.54 OLGA KREJCI SUI
42.56 SHOKO YAMADA JPN
42.56 JEANNE LITTLE USA

100 M. FLY

1:28.65 YOSHIKO OSAKI JPN
1:34.17 HAIKE HOLER GER
1:37.88 JAYNE BRUNER USA
1:39.25 ENEDINA PEREIRA BRA
1:40.40 GABRIELLA TUCCI ITA
1:40.53 HISAKO SATO JPN
1:40.82 HELGA REICH GER
1:41.06 MARCELA STASTNA CZE
1:43.39 ELEONORE OTTO GER
1:43.79 MARGIT JEBE USA

200 M. FLY

3:37.14 HELGA REICH GER
3:37.78 LINDA MACPHERSON CAN
3:38.24 JUTTA SEIDL GER
3:38.26 ENEDINA PEREIRA BRA
3:45.45 ELEONORE OTTO GER
3:47.58 SUSAN LIVINGSTON USA
3:51.40 JANICE MILLER USA
4:04.56 ANNIE DE VOS NED
4:04.96 MASUNO MASUDA JPN
4:05.22 KYOKO HIGURASHI JPN

200 M. I.M.

3:05.96 YOSHIKO OSAKI JPN
3:23.46 KEIKO YAMADA JPN
3:24.51 JUTTA SEIDL GER
3:24.68 ELEONORE OTTO GER
3:26.40 SHOKO YONEZAWA JPN
3:27.84 MARGA SCHULZE GER
3:33.50 MARGIT JEBE USA
3:34.08 BETSY JORDAN USA
3:36.15 TAYO FUJIEDA JPN
3:36.29 BEVERLY MYERS USA

400 M. I.M.

6:50.29 YOSHIKO OSAKI JPN
7:14.89 JUTTA SEIDL GER
7:15.35 ELEONORE OTTO GER
7:31.48 SUSAN LIVINGSTON USA
7:37.30 HELGA REICH GER
7:49.33 ANNIE DE VOS NED
7:50.79 INGRID SIEGERT GER
7:51.30 RENATA MARTING ITA
7:53.96 TRICIA LEGGE AUS
7:54.81 BARBARA ZAREMSKI USA

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WOMEN 65-69
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50 M. FREE

35.58 JANE ASHER GBR
36.47 A.LEENE-RODAHL NZL
38.61 LIDA GASCHKE USA
38.79 HIDEKO HARAKAWA JPN
39.03 KAZUKO OKAMOTO JPN
39.07 KEIKO FUJIMOTO JPN
39.13 REIKO NAWATA JPN
39.27 MARIANNE GRANE SWE
39.30 SADAKO KOYA JPN
39.62 KIMIKO YOSHINAGA JPN

100 M. FREE

1:20.10 LAVELLE STOINOFF USA
1:21.36 JANE ASHER GBR
1:24.02 ELIANE PELLIS BEL
1:28.32 MITSUKO KOMURO JPN
1:28.89 LIDA GASCHKE USA
1:30.51 HIDEKO HARAKAWA JPN
1:30.78 D VD MERWE RSA
1:31.73 PATRICIA NIBLETT CAN
1:32.09 LOREEN MCKELLAR CAN
1:32.93 BARBARA CALLISON USA

200 M. FREE

2:54.02 LAVELLE STOINOFF USA
3:11.61 ELIANE PELLIS BEL
3:14.26 JANE ASHER GBR
3:18.96 ANN HIRSCH USA
3:21.30 LIDA GASCHKE USA
3:22.37 D VD MERWE RSA
3:23.63 MARLENE MENDES BRA
3:24.60 MARIANNE GRANE SWE
3:25.59 YASUKO GOTO JPN
3:26.41 KIMIKO NAGAO JPN

400 M. FREE

5:54.90 LAVELLE STOINOFF USA
6:29.81 JANE ASHER GBR
6:57.44 LIDA GASCHKE USA
7:04.69 ANN HIRSCH USA
7:12.48 DIANE REED USA
7:14.28 MIEKO MATSUKAWA JPN
7:16.20 ELIANE PELLIS BEL
7:18.85 YASUKO GOTO JPN
7:19.32 MALCHIA OLSHAN USA
7:21.57 JOAN CAMPBELL USA

800 M. FREE

12:23.32 LAVELLE STOINOFF USA
14:17.32 LIDA GASCHKE USA
14:32.54 GRETHE BENDTSEN DEN
14:39.41 ANN HIRSCH USA
14:47.68 ELIANE PELLIS BEL
15:08.78 MALCHIA OLSHAN USA
15:08.90 JOAN CAMPBELL USA
15:09.19 MIEKO MATSUKAWA JPN
15:27.25 EDIE GRUENDER USA
15:29.88 TAMIKO SASAGAWA JPN

1500 M. FREE

23:42.01 LAVELLE STOINOFF USA
26:57.53 LIDA GASCHKE USA
28:05.14 MALCHIA OLSHAN USA
28:51.43 JOAN CAMPBELL USA
29:51.52 PATRICIA NIBLETT CAN
30:43.07 FRANCES MCINTOSH CAN
30:46.68 DOROTHY WILKIE GBR
30:50.95 NANCY DURSTEIN USA
31:10.21 BETTY MC MILLAN USA
31:30.95 MARTY BARRY USA

50 M. BACK

42.32 GRETHE BENDTSEN DEN
44.14 A.LEENE-RODAHL NZL
44.79 JANE ASHER GBR
46.03 KAZUKO KABASAWA JPN
46.03 LAVELLE STOINOFF USA
46.04 MARLENE MENDES BRA
46.43 BARBARA JACKSON USA
46.63 KIMIKO OOKA JPN
47.52 ERIKA WUNSCH GER
48.28 DENISE WANGEL AUS

100 M. BACK

1:36.33 GRETHE BENDTSEN DEN
1:36.58 LAVELLE STOINOFF USA
1:40.67 JANE ASHER GBR
1:41.22 MARLENE MENDES BRA
1:42.81 KIMIKO OOKA JPN
1:43.16 BARBARA JACKSON USA
1:43.36 DENISE WANGEL AUS
1:44.50 SUMIKO KADOTA JPN
1:46.58 SYLVIA NEUHAUSER AUT
1:48.00 ERIKA WUNSCH GER

200 M. BACK

3:16.02 LAVELLE STOINOFF USA
3:21.90 GRETHE BENDTSEN DEN
3:24.65 FLORA CONNOLLY GBR
3:36.07 TAMAE YAMADA JPN
3:37.65 MARLENE MENDES BRA
3:41.87 KIMIKO OOKA JPN
3:43.85 SUMIKO KADOTA JPN
3:46.31 SYLVIA NEUHAUSER AUT
3:49.17 BARBARA JACKSON USA
3:52.46 NANCY MACBETH USA

50 M. BRST

44.29 ELIANE PELLIS BEL
44.60 A.LEENE-RODAHL NZL
46.89 FLORA CONNOLLY GBR
48.61 NORMA POWELL CAN
48.65 L.MOTSCHIEDLER GER
48.88 ANN HIRSCH USA
49.91 SYLVIA NEUHAUSER AUT
49.97 LAVELLE STOINOFF USA
50.47 ELSA METZGER GER
50.67 MIRA GRYPINK CAN

100 M. BRST

1:39.51 A.LEENE-RODAHL NZL
1:39.98 FLORA CONNOLLY GBR
1:40.36 ELIANE PELLIS BEL
1:46.04 NORMA POWELL CAN
1:46.93 SYLVIA NEUHAUSER AUT
1:47.38 ANN HIRSCH USA
1:47.68 L.MOTSCHIEDLER GER
1:51.46 ELSA METZGER GER
1:52.42 LILLY KRON USA
1:53.58 JESSIE CALLEBAUT BEL

200 M. BRST

3:30.95 FLORA CONNOLLY GBR
3:38.12 ELIANE PELLIS BEL
3:38.60 A.LEENE-RODAHL NZL
3:47.24 ANN HIRSCH USA
3:51.10 LAVELLE STOINOFF USA
3:52.46 SYLVIA NEUHAUSER AUT
3:53.47 L.MOTSCHIEDLER GER
4:00.41 LILLY KRON USA
4:07.01 JESSIE CALLEBAUT BEL
4:10.29 A.DERKSE-DEN BOER NED

50 M. FLY

41.05 JANE ASHER GBR
46.55 NORMA POWELL CAN
47.05 BARBARA CALLISON USA
47.37 REIKO NAWATA JPN
47.62 HIROKO KATANO JPN
48.63 ELVERA DUNN AUS
49.18 SYLVIA NEUHAUSER AUT
49.80 ANN HIRSCH USA
49.94 NANCY MACBETH USA
50.18 BOBBIE LEA AUS

100 M. FLY

1:40.35 FLORA CONNOLLY GBR
1:42.85 NORMA POWELL CAN
1:50.00 SYLVIA NEUHAUSER AUT
1:50.31 ANN HIRSCH USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

1:59.88 HIROKO KATANO JPN
2:00.59 KII SAITO JPN
2:00.76 ELVERA DUNN AUS
2:01.36 NANCY MACBETH USA
2:02.13 BARBARA CALLISON USA
2:03.61 BIRTHE JENSEN DEN

200 M. FLY

3:33.04 FLORA CONNOLLY GBR
3:57.79 SYLVIA NEUHAUSER AUT
4:08.41 ANN HIRSCH USA
4:37.29 JOAN CAMPBELL USA
4:43.00 FRANCES LEA AUS
4:45.47 AILSA DUNCAN AUS
4:45.84 MALCHIA OLSHAN USA
4:50.89 ELVERA DUNN AUS
5:01.98 NANCY DURSTEIN USA
5:05.78 YOKO UCHIDA JPN

200 M. I.M.

3:24.08 FLORA CONNOLLY GBR
3:39.39 NORMA POWELL CAN
3:41.71 GRETHE BENDTSEN DEN
3:42.66 ANN HIRSCH USA
3:50.42 ELSA METZGER GER
3:50.87 NANCY MACBETH USA
3:54.39 DENISE WANGEL AUS
3:58.04 BARBARA CALLISON USA
4:01.65 D VD MERWE RSA
4:02.42 YOSHIKO ITO JPN

400 M. I.M.

7:06.75 FLORA CONNOLLY GBR
8:03.98 SYLVIA NEUHAUSER AUT
8:08.22 ANN HIRSCH USA
8:13.87 NANCY MACBETH USA
8:24.70 MARLENE MENDES BRA
8:40.87 BARBARA CALLISON USA
8:45.58 JOAN CAMPBELL USA
8:58.34 MALCHIA OLSHAN USA
9:04.29 YOSHIKO ITO JPN
9:07.34 ELVERA DUNN AUS

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WOMEN 70-74

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50 M. FREE

36.54 ODETTE LUSIEN FRA
37.64 KERSTIN GJORES SWE
38.31 IRMA HEYTING AUS
38.50 JEAN TROY USA
39.06 L PARRINGTON RSA
39.35 BRITT GRILLI SWE
39.43 CHIYOKO OKURA JPN
39.86 FUMIKO HIROOKA JPN
40.21 EIKO MORI JPN
40.34 M. CUNNINGHAM AUS

100 M. FREE

1:27.89 JEAN TROY USA
1:30.75 JUNE KRAUSER USA
1:30.84 LIZ WALLIS AUS
1:31.79 BRITT GRILLI SWE
1:32.09 CHISE IBE JPN
1:32.82 FUMIKO HIROOKA JPN
1:32.95 IRMA HEYTING AUS
1:33.37 M. CUNNINGHAM AUS
1:33.38 HIDEKO NAITO JPN
1:33.60 CHIYOKO OKURA JPN

200 M. FREE

3:09.59 JUNE KRAUSER USA
3:10.43 JEAN TROY USA
3:22.83 BRITT GRILLI SWE
3:25.47 LIZ WALLIS AUS
3:26.70 HIDEKO NAITO JPN
3:28.24 EDIE GRUENDER USA
3:28.35 FUMIKO HIROOKA JPN
3:29.11 JOAN PARNELL CAN
3:30.13 G. MCKENZIE-HICKS AUS
3:32.62 CHISE IBE JPN

400 M. FREE

6:36.63 JUNE KRAUSER USA
6:55.22 JEAN TROY USA
7:05.81 LIZ WALLIS AUS
7:21.71 BRITT GRILLI SWE
7:23.62 FUMIKO HIROOKA JPN
7:24.44 MAXINE SMITH USA
7:29.77 G. MCKENZIE-HICKS AUS
7:30.95 HIDEKO NAITO JPN
7:32.38 BETTY RUSS USA
7:32.41 CHISE IBE JPN

800 M. FREE

13:28.02 JUNE KRAUSER USA
14:51.34 LIZ WALLIS AUS
15:13.39 FUMIKO HIROOKA JPN
15:26.74 EDIE GRUENDER USA
15:38.72 TOMIKO MAKITA JPN
15:55.47 CLARA AURIK RSA
16:03.60 LOIS NOCHMAN USA
16:04.72 BETTY RUSS USA
16:15.36 GRACE ALTUS USA
16:29.02 CHRISTINE JEFFS AUS

1500 M. FREE

26:22.14 JUNE KRAUSER USA
29:36.31 G. MCKENZIE-HICKS AUS
30:15.74 LOIS NOCHMAN USA
30:43.91 BETTY RUSS USA
31:06.02 RUTH MANFREDI USA
31:22.10 GRACE ALTUS USA
31:58.89 FLORENCE CARR USA
32:34.58 ANITA HAZEN USA
34:59.92 CLARA SOTAK USA
35:19.23 NANCY REED USA

50 M. BACK

42.83 DORIS STEADMAN USA
44.18 JOAN PARNELL CAN
45.90 EDITH BOEHM GER
47.56 KERSTIN GJORES SWE
48.92 REGAN KENNER USA
48.96 UMEKO KUWAHARA JPN
49.07 BRITT GRILLI SWE
49.32 JOAN MONAHAN NZL
49.49 ERIKA LANGE GER
49.52 MASUMI TANI JPN

100 M. BACK

1:38.66 JOAN PARNELL CAN
1:44.99 KERSTIN GJORES SWE
1:47.41 REGAN KENNER USA
1:50.07 JOAN MONAHAN NZL
1:50.10 JUNE KRAUSER USA
1:51.23 DELLA SEHORN USA
1:51.71 BETTY LORENZI USA
1:51.96 ERIKA LANGE GER
1:52.39 EDIE GRUENDER USA
1:54.78 R VYMAZALOVA CZE

200 M. BACK

3:40.23 JOAN PARNELL CAN
3:47.36 KERSTIN GJORES SWE
3:49.58 JUNE KRAUSER USA
3:51.10 REGAN KENNER USA
4:00.30 ERIKA LANGE GER
4:00.41 JOAN MONAHAN NZL
4:01.42 DELLA SEHORN USA
4:03.37 VIRGINIA KETELEER BEL
4:03.57 BETTY LORENZI USA
4:05.70 AGNES PLISSON FRA

50 M. BRST

45.11 EDITH BOEHM GER
46.91 ODETTE LUSIEN FRA
46.93 ERIKA LANGE GER
50.29 JOAN PARNELL CAN
51.65 TERUKO ONO JPN
52.03 REGAN KENNER USA
53.92 P.JODJANA FRA
54.08 M AMSBARY USA
54.14 HERTA SOMMERMEIER GER
54.19 JOAN MONAHAN NZL

100 M. BRST

1:44.09 EDITH BOEHM GER
1:47.89 ERIKA LANGE GER
1:51.82 JOAN PARNELL CAN
1:52.14 TERUKO ONO JPN
1:54.69 CHIYOKO OKURA JPN
1:57.96 NEL VAN VLIET NED
1:58.81 REGAN KENNER USA
1:59.31 AGNES PLISSON FRA
1:59.84 YOKO KOBAYASHI JPN
2:00.31 G.SCHOBEL-GRAB GER

200 M. BRST

3:56.03 ERIKA LANGE GER
3:57.75 EDITH BOEHM GER
3:59.38 TERUKO ONO JPN
4:06.27 JUNE KRAUSER USA
4:10.95 CHIYOKO OKURA JPN
4:15.92 AGNES PLISSON FRA
4:18.18 REGAN KENNER USA
4:18.92 EIKO MORI JPN
4:19.26 BARBARA VICKERS AUS
4:20.77 P.JODJANA FRA

50 M. FLY

45.01 ODETTE LUSIEN FRA
46.73 JUNE KRAUSER USA
48.55 EDITH BOEHM GER
48.98 EDIE GRUENDER USA
50.07 JEAN TROY USA
50.84 LOIS NOCHMAN USA
52.64 CHIE TANI JPN
52.74 DELLA SEHORN USA
53.07 FLORENCE CARR USA
53.31 MASAKO HOTEHAMA JPN

100 M. FLY

1:46.12 JUNE KRAUSER USA
1:58.92 BETTY RUSS USA
2:01.33 LOIS NOCHMAN USA
2:01.58 JEAN TROY USA
2:02.03 DELLA SEHORN USA
2:04.09 EDIE GRUENDER USA
2:04.74 CHIE TANI JPN
2:10.23 ERIKA LANGE GER
2:14.87 AGNES PLISSON FRA
2:18.21 G.SCHOBEL-GRAB GER

200 M. FLY

3:55.37 JUNE KRAUSER USA
4:26.46 BETTY RUSS USA
4:37.40 ERIKA LANGE GER
4:44.04 G.SCHOBEL-GRAB GER
5:15.98 GLADYS OLSEN USA
5:16.60 MARIAN WOLLE USA
5:36.09 BEP VAN DER HEYDT CAN
5:38.47 MARGARET WELLS USA
5:46.23 RUTH MANFREDI USA
6:02.62 R HOLSHAUSEN RSA

200 M. I.M.

3:40.92 JUNE KRAUSER USA
4:01.96 DELLA SEHORN USA
4:05.06 JEAN TROY USA
4:05.89 CHISE IBE JPN
4:07.12 AGNES PLISSON FRA
4:08.29 ERIKA LANGE GER
4:11.94 G.SCHOBEL-GRAB GER
4:12.27 FUMIKO HIROOKA JPN
4:13.20 CHIE TANI JPN
4:14.07 LOIS NOCHMAN USA

400 M. I.M.

7:43.32 JUNE KRAUSER USA
8:40.71 BETTY RUSS USA
8:43.23 JEAN TROY USA
9:00.56 LOIS NOCHMAN USA
9:06.13 EDIE GRUENDER USA
9:18.69 AGNES PLISSON FRA
9:20.42 FUMIKO HIROOKA JPN
9:43.73 MARIAN WOLLE USA
9:57.22 ELFRIEDE ROGERS USA
10:18.58 GLADYS OLSEN USA

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WOMEN 75-79

****

50 M. FREE

40.70 OLGA JOHNSON NZL
41.32 MARGERY MEYER USA
41.54 J. DRAKE-BROCKMAN AUS
41.70 DOROTHY DONNELLY USA
42.54 BETTY CHRISTIAN USA
42.62 RUTH BAAR USA
42.76 GRETE PFANNMULLER GER
44.28 OLGA KOKORINA RUS
44.63 MITSUKO MITSUNAGA JPN
45.18 SUGAKO KUWAYAMA JPN

100 M. FREE

1:33.25 MARGERY MEYER USA
1:38.12 RUTH BAAR USA
1:39.55 J. DRAKE-BROCKMAN AUS
1:40.33 DOROTHY DONNELLY USA
1:42.81 OLGA JOHNSON NZL
1:44.04 GRETE PFANNMULLER GER
1:44.49 SUGAKO KUWAYAMA JPN
1:44.73 RITA SIMONTON USA
1:44.77 NANCYE MITCHELL AUS
1:47.69 MASAE SHIMURA JPN

200 M. FREE

3:24.84 MARGERY MEYER USA
3:46.29 RUTH BAAR USA
3:47.49 DOROTHY DONNELLY USA
3:50.38 RITA SIMONTON USA
3:50.82 OLGA JOHNSON NZL
3:55.60 SUGAKO KUWAYAMA JPN
3:55.80 MARJORIE STONE USA
3:56.49 CANDIDA GANDOLPHO BRA
3:58.15 NANCYE MITCHELL AUS
4:01.94 NATSU OKI JPN

400 M. FREE

7:16.82 MARGERY MEYER USA
7:51.14 RITA SIMONTON USA
8:10.83 CANDIDA GANDOLPHO BRA
8:14.31 OLGA JOHNSON NZL
8:22.93 MARJORIE STONE USA
8:26.39 BUNNY CEDERLUND USA
8:28.77 GERTRUD MEERWALD GER
8:31.15 NANCYE MITCHELL AUS
8:32.47 NORMA RUDOLPH AUS
8:37.63 E.LUBBBERS NZL

800 M. FREE

14:57.03 MARGERY MEYER USA
16:51.42 OLGA JOHNSON NZL
17:02.73 GERTRUD MEERWALD GER
17:39.66 NORMA RODOLPH AUS
17:53.77 MAURINE KORNFELD USA
17:53.93 GRE S-DE HOOGE NED
18:01.41 E.LUBBBERS NZL
18:52.66 B BURRILL USA
19:34.77 DOROTHY WILLISON AUS
19:51.17 WALTRAUT KUNST GER

1500 M. FREE

28:38.34 MARGERY MEYER USA
33:55.37 FUMI MURATA JPN
34:33.64 LIZ LUBBERS NZL
34:44.92 GRE S-DE HOOGE NED
34:52.79 BUNNY CEDERLUND USA
37:45.38 DOROTHY WILLISON AUS
39:23.62 NANCY AYRES AUS
40:29.52 JOYCE O'FARRELL AUS
41:41.18 PERSIS RAE AUS
42:36.71 PAULINE BENJAMIN AUS

50 M. BACK

50.06 BUNNY CEDERLUND USA
50.32 J. DRAKE-BROCKMAN AUS
50.91 BETTY STERN AUS
51.14 BETTY CONDON GBR
51.20 GRETE PFANNMULLER GER
51.80 MARGERY MEYER USA
52.87 NATSU OKI JPN
53.60 BETTY CHRISTIAN USA
53.91 OLGA JOHNSON NZL
54.31 DOROTHY WILLIAMS GBR

100 M. BACK

1:55.93 J. DRAKE-BROCKMAN AUS
1:57.46 NATSU OKI JPN
2:00.28 DOROTHY WILLIAMS GBR
2:00.40 IRENE ATHANS CAN
2:00.63 BETTY STERN AUS
2:01.52 BETTY CONDON GBR
2:01.64 BUNNY CEDERLUND USA
2:02.87 MARGERY MEYER USA
2:05.05 OLGA JOHNSON NZL
2:08.71 GRE S-DE HOOGE NED

200 M. BACK

4:11.84 J. DRAKE-BROCKMAN AUS
4:12.72 NATSU OKI JPN
4:21.47 DOROTHY WILLIAMS GBR
4:25.69 BETTY STERN AUS
4:26.54 BUNNY CEDERLUND USA
4:27.45 MARGERY MEYER USA
4:30.04 DIANA SILVA USA
4:38.20 GERTRUD MEERWALD GER
4:38.87 GRE S-DE HOOGE NED
4:41.78 WALTRAUT KUNST GER

50 M. BRST

53.67 OLGA KOKORINA RUS
54.12 BETTY CHRISTIAN USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

54.78 MAUD POVEY GBR
56.59 M GUILLAIS FRA
57.20 INGEBORG FRITZE GER
58.48 MITSUKO MITSUNAGA JPN
59.25 JAE HOWELL USA
59.38 HILDEGARD MESSING GER
59.46 SUMIKO YANAGISAWA JPN
1:00.02 MURIEL FLYNN USA

100 M. BRST

2:00.42 OLGA KOKORINA RUS
2:07.26 BETTY CHRISTIAN USA
2:08.75 M GUILLAIS FRA
2:09.95 INGEBORG FRITZE GER
2:10.18 DOROTHY WILLIAMS GBR
2:10.80 HILDEGARD MESSING GER
2:11.68 MAUD POVEY GBR
2:11.93 SUMIKO YANAGISAWA JPN
2:12.33 MARJORIE STONE USA
2:16.15 MURIEL FLYNN USA

200 M. BRST

4:34.16 BETTY CHRISTIAN USA
4:35.26 DOROTHY WILLIAMS GBR
4:44.21 MICHIKO HAMURO JPN
4:44.34 HILDEGARD MESSING GER
4:44.54 SUMIKO YANAGISAWA JPN
4:45.88 GERTRUD MEERWALD GER
4:47.17 INGEBORG FRITZE GER
4:51.13 MAUD POVEY GBR
4:52.73 IRENE ATHANS CAN
4:57.73 MURIEL FLYNN USA

50 M. FLY

1:00.38 SUGAKO KUWAYAMA JPN
1:00.66 DOROTHY DONNELLY USA
1:02.41 GERTRUD MEERWALD GER
1:02.90 HIROKO MURATA JPN
1:02.97 JUNE REYNOLDS USA
1:03.15 BERYL GRACE AUS
1:03.53 FUMI MURATA JPN
1:03.87 DIANA SILVA USA
1:07.87 JAE HOWELL USA
1:09.45 HIDEKO MORI JPN

100 M. FLY

2:21.09 GERTRUD MEERWALD GER
2:26.88 JAE HOWELL USA
2:32.03 JUNE REYNOLDS USA
2:39.40 DIANA SILVA USA
2:41.84 FUMI MURATA JPN
2:44.90 NORMA RUDOLPH AUS
2:51.87 JEAN ZULICH USA
3:07.41 EDITH GLUSAC USA
3:07.83 EILEEN PRICE AUS
3:13.70 DOROTHY KIMMEL USA

200 M. FLY

5:11.31 GERTRUD MEERWALD GER
5:12.06 JAE HOWELL USA
5:19.02 DIANA SILVA USA
5:33.86 JUNE REYNOLDS USA
5:41.73 NORMA RUDOLPH AUS
5:56.72 FUMI MURATA JPN
6:15.80 HILDEGARD HUGGINS USA
6:30.34 EILEEN PRICE AUS
6:52.91 DOROTHY KIMMEL USA
7:53.55 ZADA TAFT USA

200 M. I.M.

4:39.30 DOROTHY DONNELLY USA
4:45.59 GERTRUD MEERWALD GER
4:48.66 FUMI MURATA JPN
4:48.72 MICHIKO HAMURO JPN
4:51.98 JUNE REYNOLDS USA
4:52.55 MURIEL FLYNN USA
4:57.87 DIANA SILVA USA
4:58.75 MARGE BOWDON USA
4:59.32 JAE HOWELL USA
5:01.57 E.LUBBBERS NZL

400 M. I.M.

9:42.99 GERTRUD MEERWALD GER
9:55.26 FUMI MURATA JPN
10:03.45 JAE HOWELL USA
10:42.11 NORMA RUDOLPH AUS
10:43.85 JUNE REYNOLDS USA
11:32.91 NORMA RODOLPH AUS
12:06.44 EILEEN PRICE AUS
12:56.67 EDITH GLUSAC USA
14:50.41 ZADA TAFT USA
16:24.23 AKIYO TANAKA JPN

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WOMEN 80-84

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50 M. FREE

45.65 MARJORIE SHARPE USA
47.48 RITA SIMONTON USA
48.52 AUDREY ETIENNE USA
49.34 URSULA OEHMKE GER
51.85 EDNA FARRELL NZL
52.42 ANNE WALKER USA
52.72 MASA SHIGEMITSU JPN
53.63 SUMIKO KOIZUMI JPN
54.11 MARGARET NAGLE USA
55.56 CHARLOTTE THIEL GER

100 M. FREE

1:43.72 RITA SIMONTON USA
1:48.16 MARJORIE SHARPE USA
1:54.84 AUDREY ETIENNE USA
2:00.23 URSULA OEHMKE GER
2:00.95 EDNA FARRELL NZL
2:03.66 MASA SHIGEMITSU JPN
2:04.31 ANNE WALKER USA
2:08.74 KAY SCHIMPF USA
2:11.95 MARGARET NAGLE USA
2:12.65 JEAN CHENAUX USA

200 M. FREE

3:44.24 RITA SIMONTON USA
3:54.76 HISAKO KOGA JPN
4:00.71 MARJORIE SHARPE USA
4:32.82 MARIA LENK BRA
4:43.00 JEAN CHENAUX USA
4:46.40 KAY SCHIMPF USA
4:53.72 MARY JANE REEVES USA
4:55.74 MARGARET NAGLE USA
4:58.91 WILLY VAN RYSEL GBR
5:01.18 ALMA BRECKNOCK AUS

400 M. FREE

7:57.89 RITA SIMONTON USA
8:08.01 MARJORIE SHARPE USA
8:19.76 HISAKO KOGA JPN
8:43.04 EDITH THEIN ISR
8:58.78 AUDREY ETIENNE USA
9:33.64 MARIA LENK BRA
9:51.69 JEAN CHENAUX PUR
9:52.25 ANNE WALKER USA
10:05.94 KAY SCHIMPF USA
10:10.28 WILLY VAN RYSEL GBR

800 M. FREE

16:05.85 RITA SIMONTON USA
17:56.60 EDITH THEIN ISR
19:41.95 MARIA LENK BRA
19:44.23 JEAN DURSTON USA
19:58.91 ANNE WALKER USA
20:00.12 KAY SCHIMPF USA
20:54.48 FRANCES MCWHIRTER CAN
23:14.54 KIKU ONO JPN
24:07.38 MARY LATHRAM USA
25:00.69 KATH JOHNSTONE NZL

1500 M. FREE

30:54.56 RITA SIMONTON USA
32:12.16 MARJORIE SHARPE USA
37:03.23 MARIA LENK ZIGLER USA
39:49.97 WILLY VAN RYSEL GBR
45:01.53 MARY LATHRAM USA
50:56.67 KATH JOHNSTONE NZL
67:26.40 ROSE STEWARD USA
75:07.48 MAY TROMP AUS

50 M. BACK

56.44 EDITH THEIN ISR
56.78 MASA SHIGEMITSU JPN
57.32 MARIA LENK ZIGLER USA
59.15 ANNE WALKER USA
59.83 WILLY VAN RYSEL GBR
1:00.31 CHARLOTTE THIEL GER
1:03.32 SUMIKO KOIZUMI JPN
1:03.38 AUDREY ETIENNE USA
1:05.66 EDNA FARRELL NZL
1:06.78 SACHIKO UDA JPN

100 M. BACK

2:00.39 EDITH THEIN ISR
2:04.36 MARJORIE SHARPE USA
2:10.77 CHARLOTTE THIEL GER
2:11.43 ANNE WALKER USA
2:12.70 WILLY VAN RYSEL GBR
2:14.03 SUMIKO KOIZUMI JPN
2:26.19 EDNA FARRELL NZL
2:28.42 AUDREY ETIENNE USA
2:31.30 SACHIKO UDA JPN
2:31.64 SALLY JOY USA

200 M. BACK

4:12.86 EDITH THEIN ISR
4:31.23 MARIA LENK BRA
4:33.29 MARJORIE SHARPE USA
4:52.82 ANNE WALKER USA
4:56.88 WILLY VAN RYSEL GBR
5:17.76 SALLY JOY USA
5:26.21 ANNCHEN REILE GER
5:38.01 MARY LATHRAM USA
6:00.09 CHIYOKO ISHIKAWA JPN
6:08.83 NANCY RITTSON AUS

50 M. BRST

1:03.69 CHARLOTTE THIEL GER
1:05.67 KATHRYN ANSON USA
1:07.95 RITA SIMONTON USA
1:08.22 SALLY JOY USA
1:11.50 KAY SCHIMPF USA
1:11.59 ALMA BRECKNOCK AUS
1:15.00 K.STAVENHAGEN GER
1:15.49 HIROKO TSUCHIYA JPN
1:19.69 ELSA PIGULLA GER
1:20.69 KAREN-MARGRETHE DEN

100 M. BRST

2:24.06 RITA SIMONTON USA
2:31.40 CHARLOTTE THIEL GER
2:36.24 MARIA LENK ZIGLER USA
2:38.47 SALLY JOY USA
2:40.06 ALMA BRECKNOCK AUS
2:50.19 HARUKO KOBAYASHI JPN
3:02.23 EDNA FARRELL NZL
3:04.89 MARY JANE REEVES USA
3:21.91 HILDA BUEL USA
3:26.78 JEAN CHENAUX PUR

200 M. BRST

5:06.58 RITA SIMONTON USA
5:30.31 MARIA LENK ZIGLER USA
5:32.19 ALMA BRECKNOCK AUS
5:43.59 HARUKO KOBAYASHI JPN
5:45.75 MARIA LENK BRA
5:58.56 SALLY JOY USA
6:13.23 ANNCHEN REILE GER
6:42.44 MARY JANE REEVES USA
7:02.92 MARY GARTON AUS
7:25.75 HILDA BUEL USA

50 M. FLY

1:08.62 MARIA LENK BRA
1:09.93 KAY SCHIMPF USA
1:16.10 SALLY JOY USA
1:19.06 AUDREY ETIENNE USA
1:40.08 ROBERTA SUGDEN USA
1:42.29 MARY GARTON AUS
1:42.72 PAT MATTHIESEN USA
1:48.76 TOSHI KUBO JPN
2:13.07 ANNE WILDER USA
2:15.90 BUZ CATLIN USA

100 M. FLY

2:46.96 JEAN DURSTON USA
5:56.84 ROSE-ANN LECLERC CAN

200 M. FLY

6:04.85 JEAN DURSTON USA

200 M. I.M.

5:08.07 MARIA LENK ZIGLER USA
5:17.19 JEAN DURSTON USA
5:27.19 KAY SCHIMPF USA
6:47.20 MARY GARTON AUS
7:16.44 HILDA BUEL USA
7:45.43 ROBERTA SUGDEN USA
9:05.57 ROSE STEWARD USA
10:31.69 ROSE-ANN LECLERC CAN

400 M. I.M.

11:18.60 JEAN DURSTON USA

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WOMEN 85-89

****

50 M. FREE

58.21 DOROTHY WESTON GBR
1:03.10 TAYO FURUYA JPN
1:08.29 WIN KENNEDY USA
1:10.79 MARGO BATES AUS
1:12.27 SHIZUE SHIMIZU JPN
1:13.77 KIYOKO MOCHIZUKI JPN
1:16.24 ELLEN TAIT USA
1:21.01 EDITH HENDRY USA
1:26.71 MADELEINE MILLER USA
1:30.67 DOROTHY BULLEN CAN

100 M. FREE

2:41.44 MARGO BATES AUS
2:47.49 KIYOKO MOCHIZUKI JPN
2:56.85 ELLEN TAIT USA
2:59.89 MADELEINE MILLER USA
3:24.79 BERNARDA ANGULO ESP
3:35.78 DOROTHY BULLEN CAN

200 M. FREE

6:19.41 ELLEN TAIT USA
7:03.72 BETTY JONES AUS
7:07.70 BERNARDA ANGULO ESP
7:57.15 DOROTHY BULLEN CAN
9:07.05 MARGOT LENIGK USA

400 M. FREE

11:36.45 RINA DAVOGLIO ITA
13:23.02 ELLEN TAIT USA
14:26.18 BERNARDA ANGULO ESP
15:54.39 DOROTHY BULLEN CAN

800 M. FREE

35:29.75 BERNARDA ANGULO ESP

50 M. BACK

1:13.40 RINA DAVOGLIO ITA
1:14.07 WIN KENNEDY USA
1:15.24 M.GOTTSCHALK GER
1:20.19 EDITH HENDRY USA
1:22.75 KIYOKO KANO JPN
1:23.46 MADELEINE MILLER USA
1:24.54 TAYO FURUYA JPN
1:32.97 DOROTHY BULLEN CAN
1:33.58 NOBUKO KOIBUCHI JPN
1:37.97 SHIZUE SHIMIZU JPN

100 M. BACK

2:37.63 EVA MULLER USA
2:42.56 RINA DAVOGLIO ITA
3:10.09 MADELEINE MILLER USA
3:11.19 WIN KENNEDY USA
3:17.12 EDITH HENDRY USA
3:25.16 DOROTHY BULLEN CAN
3:28.67 SHIZUE SHIMIZU JPN
3:49.63 BERNARDA ANGULO ESP
3:53.70 MARGO BATES AUS
3:57.95 KIYOKO MOCHIZUKI JPN

200 M. BACK

5:36.20 RINA DAVOGLIO ITA
5:42.32 EVA MULLER USA
6:41.83 EDITH HENDRY USA
7:20.14 MADELEINE MILLER USA
7:43.12 DOROTHY BULLEN CAN
7:43.55 BERNARDA ANGULO ESP

50 M. BRST

1:30.53 M.GOTTSCHALK GER
1:34.97 EVA MULLER USA
1:37.68 MADELEINE MILLER USA
1:44.90 WIN KENNEDY USA
2:05.67 ALICE SIMOES BRA
2:13.84 BETTY JONES AUS
2:48.23 OSCARINA SANTOS BRA

100 M. BRST

2:34.97 DOROTHY WESTON GBR
3:40.87 MADELEINE MILLER USA
5:09.39 MARGOT LENIGK USA
5:46.68 ALICE SIMOES BRA

200 M. BRST

5:36.62 EMMI PAULI GER
8:32.90 MADELEINE MILLER USA

50 M. FLY

1:52.09 WIN KENNEDY USA

100 M. FLY

2:45.28 DOROTHY WESTON GBR
3:24.81 JEWEL COOKE USA

200 M. FLY

6:35.26 MAXINE MERLINO USA

200 M. I.M.

6:24.76 JEWEL COOKE USA
8:04.55 WIN KENNEDY USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

400 M. I.M.
13:25.03 JEWEL COOKE USA

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WOMEN 90-94
****
50 M. FREE
3:13.52 DEL ROWLEY AUS
50 M. BACK
1:33.47 TSUNE HIRASE JPN
2:13.18 DEL ROWLEY AUS
50 M. BRST
1:35.23 YOSHI KUCHIBA JPN
2:40.58 DEL ROWLEY AUS

****
WOMEN 95-99
****
50 M. FREE
1:55.57 MARGE ANDERSON CAN
100 M. FREE
4:06.70 MARGE ANDERSON CAN
50 M. BACK
1:57.79 MARGE ANDERSON CAN
100 M. BACK
4:16.79 MARGE ANDERSON CAN

****
WOMEN 100-104
****

****
M E N 25-29
****
50 M. FREE
23.55 HANS BIJLEMANS BEL
23.58 DANIEL SUMMERLIN USA
23.84 GRAHAM GINN USA
23.93 JEFF MURRAY USA
24.44 HIROSHI OIGAWA JPN
24.45 V.HAVILICEK CZE
24.51 FREDERIC TONUS BEL
24.58 KAZUO DOMEKI JPN
24.77 JOHN WOODWORTH USA
24.80 ANDRE NAUJOK GER
100 M. FREE
52.17 HANS BIJLEMANS BEL
52.62 JEFF MURRAY USA
52.74 FREDERIC TONUS BEL
52.96 BART REYMEN BEL
53.31 DIRK BLUDAU GER
54.04 JON WINTER NZL
54.10 KAZUO DOMEKI JPN
54.27 T LE LEUCH FRA
54.30 RICHARD DREWELOW USA
54.77 JEFF WELECHUK CAN
54.77 KEIZO ARAMAKI JPN
200 M. FREE
1:54.68 BART REYMEN BEL
1:58.55 JEFF MURRAY USA
1:59.57 RICARDO SPERR BRA
2:00.43 BRENT WALKER AUS
2:00.55 JON WINTER NZL
2:00.63 FRANK LAMODKE GER
2:01.00 J-LUC SDRAULIG BEL
2:01.35 DIRK BLUDAU GER
2:01.36 RICHARD DREWELOW USA
2:02.31 JEFF WELECHUK CAN
400 M. FREE
4:02.95 BART REYMEN BEL
4:17.49 FREDERIC MATHIEU BEL
4:19.67 FRANK LAMODKE GER
4:19.83 DIMITAR PETROV USA
4:20.82 BRENT WALKER AUS
4:23.04 WILLIAM ZOLNA USA
4:25.25 BRAM TESTER USA
4:26.12 SANDRA HEREK BRA
4:26.70 Y CORDIER FRA
4:27.78 RICARDO SPERR BRA
800 M. FREE
8:36.82 ALEX KOSTICH USA
8:49.44 DIMITAR PETROV USA
9:00.39 FREDERIC MATHIEU BEL
9:03.18 FRANK LAMODKE GER
9:18.05 LUKE HARDY USA
9:19.44 MASAHIKO ADACHI JPN
9:19.54 DARREN DUTTO USA
9:28.80 WILLIAM SMITH USA
9:29.69 BRENT WALKER AUS
9:30.20 JUSTIN PALFREY GBR
1500 M. FREE
17:30.65 FREDERIC MATHIEU BEL
17:37.23 MASAHIKO ADACHI JPN
17:59.02 KOJI ASADA JPN
18:02.25 Y CORDIER FRA
18:16.91 CARLOS OCHOA USA
18:18.30 PEER OLE JACOBSEN GER
18:20.15 G.SPLITTGERBER GER
18:27.86 ANDREAS GLASENAPP GER
18:31.70 MAURO VERLICCHI ITA
18:32.83 MICHAEL TISCHNER GER
50 M. BACK
27.39 HANS BIJLEMANS BEL
28.18 MARK ROSE GBR
28.42 CURTIS SAWIN USA
28.53 RICARDO FE SILVA BRA
28.60 J-LUC SDRAULIG BEL
28.65 JEFF WELECHUK CAN
28.76 ANDRE NAUJOK GER
28.93 LIZANDRO CARVALHO BRA
28.98 STEFAN MARK GER
29.16 RICARDO SILVA BRA
100 M. BACK
59.90 J-LUC SDRAULIG BEL
1:01.41 BRENT WALKER AUS
1:01.84 JEFF WELECHUK CAN
1:01.99 T LE LEUCH FRA
1:02.05 JOHANN PAPILLON FRA
1:02.51 CURTIS SAWIN USA
1:02.60 SCOTT TRIPPS USA
1:02.90 DANIEL SPERB BRA
1:02.93 STEFAN MARK GER
1:03.42 SEIGO SATO JPN
200 M. BACK
2:12.29 J-LUC SDRAULIG BEL
2:14.50 JOHANN PAPILLON FRA
2:14.93 JEFF WELECHUK CAN
2:18.42 BRENT WALKER AUS
2:18.95 PAUL GRIFFITHS GBR
2:19.08 LIZANDRO CARVALHO BRA
2:19.16 MARCEL RINZLER USA
2:21.45 K.SEKIGUCHI JPN
2:22.35 SCOTT TRIPPS USA
2:22.44 IAIN TEAZ GBR
50 M. BRST
29.64 KAZUO SHIN JPN
29.78 HANS BIJLEMANS BEL
30.40 FILIPPO BERTINI ITA
30.56 ROB BUTCHER USA
30.58 MARK ROSE GBR
30.60 EITA TSUMURA JPN
30.64 TONY REZEK USA
30.68 MITSUGU HIRANO JPN
30.68 J.MONTALVAN PER
30.70 K CAWOOD RSA
100 M. BRST
1:04.78 KAZUO SHIN JPN
1:06.56 ROB BUTCHER USA
1:07.69 MATTHEW WRIGHT AUS
1:08.06 EITA TSUMURA JPN
1:08.35 J.MONTALVAN PER
1:08.42 CRAIG CRAWFORD USA
1:08.54 TONY REZEK USA
1:09.00 ABRAHAM SOLANO USA
1:09.10 K CAWOOD RSA
1:09.24 MARK ROSE GBR
200 M. BRST
2:26.01 EITA TSUMURA JPN
2:29.45 MATTHEW WRIGHT AUS
2:31.01 ABRAHAM SOLANO USA
2:31.07 JONATHAN BANVILLE USA
2:32.10 ROB BUTCHER USA
2:32.23 DAVID RUSSELL GBR
2:32.87 J.MONTALVAN PER
2:33.00 TONY REZEK USA
2:33.72 CRAIG CRAWFORD USA
2:34.22 NEIL KEMP GBR
50 M. FLY
24.88 JON WINTER NZL
25.43 KARNEY MCNEAR USA
25.48 FREDERIC TONUS BEL
25.56 MASATERU IKEDA JPN
25.90 V.HAVILICEK CZE
25.97 HANS BIJLEMANS BEL
26.00 MAKIO ENDO JPN
26.20 JEFF MURRAY USA
26.26 CURTIS SAWIN USA
26.29 TAKESHI DANNO JPN
100 M. FLY
56.31 FREDERIC TONUS BEL
56.57 JON WINTER NZL
56.65 KARNEY MCNEAR USA
57.40 BART REYMEN BEL
57.68 JIRI MIKULA CZE
57.70 BRIAN ALDERMAN USA
57.76 V.HAVILICEK CZE
58.10 DANIEL SUMMERLIN USA
58.24 CURTIS SAWIN USA
58.51 JEFF MURRAY USA
200 M. FLY
2:07.56 KARNEY MCNEAR USA
2:10.66 BRENT WALKER AUS
2:11.33 WILLIAM ZOLNA USA
2:12.58 DANIEL SPERB BRA
2:13.46 KYLE KIMBALL USA
2:14.53 DAVID RUSSELL GBR
2:14.56 CARLTON DEVOOGHT USA
2:17.62 BJORN FRIEDRICH GER
2:17.70 RYAN DUGGAN CAN
2:18.33 DANIEL SUMMERLIN USA
200 M. I.M.
2:14.21 DANIEL SUMMERLIN USA
2:15.90 RICARDO SPERR BRA
2:15.95 DAVID RUSSELL GBR
2:16.69 ABRAHAM SOLANO USA
2:16.73 CRAIG CRAWFORD USA
2:17.41 WILLIAM ZOLNA USA
2:17.66 KYLE KIMBALL USA
2:18.21 J PAPILLON FRA
2:20.35 FABIO SAVOCA ITA
2:20.54 JACK THOMAS USA
400 M. I.M.
4:39.97 ALEX KOSTICH USA
4:50.21 DAVID RUSSELL GBR
4:54.67 WILLIAM ZOLNA USA
4:55.24 FREDERIC MATHIEU BEL
4:59.09 DANIEL SPERB BRA
4:59.45 CARLTON DEVOOGHT USA
5:00.83 LUKE HARDY USA
5:01.71 BJORN FRIEDRICH GER
5:02.54 RICHARD DREWELOW USA
5:03.10 A.JANITZKI GER

****
M E N 30-34
****
50 M. FREE
23.27 TODD PACE USA
24.20 KEITH KAPLAN USA
24.30 MICHAEL HALFAST USA
24.57 M.GIALDI ITA
24.70 KEITH ANDERSON USA
24.72 THOMAS FLEMMING GER
24.85 KAZUHIKO YAMAKAWA JPN
24.86 OLAF AHLERS GER
24.90 MARCEL EKKELBOOM GER
24.93 NEILL WILLIAMS USA
100 M. FREE
53.52 THOMAS FLEMMING GER
53.96 KEITH KAPLAN USA
54.04 MICHAEL HALFAST USA
54.19 KEITH ANDERSON USA
54.55 THOMAS ZETZMANN GER
54.89 STEVE REED USA
55.04 STUART BARTON USA
55.09 L.MICHELOTTI ITA
55.27 M.GIALDI ITA
55.33 ANDREW EDMONDSON USA
200 M. FREE
2:01.86 RENATO RAMALHO BRA
2:03.11 MICHAEL HALFAST USA
2:03.33 IGOR VAZHENIN USA
2:03.57 RENE SCHAFFGANS GER
2:04.39 THOMAS ZETZMANN GER
2:04.86 UWE LIEBERMANN GER
2:05.18 ANDREW EDMONDSON USA
2:05.24 FRANCIS MAGNAN FRA
2:05.33 DARREN DUTTO USA
2:05.62 F VIALE FRA
400 M. FREE
4:16.84 DANIEL VEATCH USA
4:22.08 UWE LIEBERMANN GER
4:23.55 IGOR VAZHENIN USA
4:26.46 DOUGLAS STEWART USA
4:29.10 TODD CLARK USA
4:29.97 STUART CROMARTY USA
4:31.00 MARCO TENDERINI ITA
4:32.01 STEPHEN STAHL USA
4:32.59 TOBIAS LERCH GER
4:32.73 MARCO HERR SUI
800 M. FREE
9:07.05 ALEJANDRO MORENO MEX
9:07.30 DARREN TURNER AUS
9:07.76 UWE LIEBERMANN GER
9:13.14 TAKASHI SUGISAWA JPN
9:13.36 IGOR VAZHENIN USA
9:15.86 DOUGLAS STEWART USA
9:19.54 DARREN DUTTO USA
9:19.81 TODD CLARK USA
9:21.32 STEPHEN STAHL USA
9:23.10 MARCO TENDERINI ITA
1500 M. FREE
16:38.24 JEFF ERWIN USA
17:15.08 DARREN TURNER AUS
17:27.05 TAKASHI SUGISAWA JPN
17:34.66 TODD CLARK USA
17:49.73 UWE LIEBERMANN GER
17:57.47 STEPHEN STAHL USA
18:03.03 TOBIAS LERCH GER
18:19.54 ROBERT GEISE USA
18:26.20 MARTIN HAWLEY GBR
18:27.26 I ORDINARTSEV FRA
50 M. BACK
28.34 S.MARUYAMA JPN
28.68 THOMAS SENN USA
28.93 MARKUS FOLLMANN GER
29.12 TOSHIHIRO KONDO JPN
29.14 THOMAS FLEMMING GER
29.19 RENATO RAMALHO BRA
29.21 STEVE REED USA
29.45 HIROYOSHI MAETOGE JPN
29.74 BERND POHL GER
29.87 THOMAS DOCKHORN GER
100 M. BACK
1:00.68 DANIEL VEATCH USA
1:00.72 S.MARUYAMA JPN
1:01.30 VADIM FORAFONOV RUS
1:01.99 THOMAS FLEMMING GER
1:02.01 STEVE REED USA
1:02.26 THOMAS SENN USA
1:03.09 HIROYOSHI MAETOGE JPN
1:03.17 MARKUS FOLLMANN GER
1:03.20 TOSHIHIRO KONDO JPN
1:03.80 DARREN DUTTO USA
200 M. BACK
2:13.00 DANIEL VEATCH USA
2:17.88 VADIM FORAFONOV RUS
2:19.57 THOMAS SENN USA
2:19.78 MAURO TORRI ITA
2:20.36 SVEN GRUNERT GER
2:22.02 ROB BERRY USA
2:22.15 TOSHIHIRO KONDO JPN
2:22.34 HORST NIEHAUS USA
2:24.29 UWE LIEBERMANN GER
2:26.71 PETER BRAUCH GER
50 M. BRST
29.54 SETH VAN NEERDEN USA
30.00 JAKUB ANDEL CZE
30.27 TODD PACE USA
30.37 THOMAS ZETZMANN GER
31.15 NEWTON KAMINSKI BRA
31.21 KENICHI NAKAO JPN
31.38 TSUYOSHI KATO JPN
31.61 MARK STORI USA
31.72 HAJIME MORIMOTO JPN
31.79 P.WAWRZYNKIEWICZ POL

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

100 M. BRST
1:05.64 SETH VAN NEERDEN USA
1:08.33 THOMAS ZETZMANN GER
1:08.79 NEILL WILLIAMS USA
1:10.78 MICHAEL HEIMSOTH GER
1:10.94 YASUO NARUSHIMA JPN
1:11.07 HAJIME MORIMOTO JPN
1:11.07 NEWTON KAMINSKI BRA
1:11.44 MARK STORI USA
1:11.52 JAKUB ANDEL CZE
1:11.57 S VAN KUILENBURG USA
200 M. BRST
2:34.00 MICHAEL HEIMSOTH GER
2:34.08 THOMAS KIPP GER
2:34.80 SVEN GRUNERT GER
2:34.81 KENICHI NAKAO JPN
2:35.26 D.COUDENYS BEL
2:35.56 MARK STORI USA
2:37.83 NEILL WILLIAMS USA
2:38.20 NEWTON KAMINSKI BRA
2:39.28 S VAN KUILENBURG USA
2:39.99 GUY LACONTAL FRA
50 M. FLY
25.86 FLAVIO LYRA BRA
26.22 KEITH ANDERSON USA
26.22 TYLER JOURDONNAIS USA
26.38 KEITH KAPLAN USA
26.44 ANDREW EDMONDSON USA
26.56 RENE SCHAFFGANS GER
26.56 NEILL WILLIAMS USA
26.67 STEVE REED USA
26.69 KAZUHIKO YAMAKAWA JPN
26.78 SHAWN JONES USA
100 M. FLY
57.65 STEVE REED USA
59.26 NICK VAUGHAN GBR
59.53 STUART BARTON USA
59.60 TYLER JOURDONNAIS USA
1:00.17 RENE SCHAFFGANS GER
1:00.30 ALLAN BOWMAN AUS
1:00.68 KAZUHIKO YAMAKAWA JPN
1:00.79 KEITH KAPLAN USA
1:00.93 DAVID CHANEY GBR
1:01.09 L.MICHELOTTI ITA
200 M. FLY
2:14.95 ALEXANDRE VOZNIAR RUS
2:16.01 ALEJANDRO MORENO MEX
2:16.20 TAKASHI SUGISAWA JPN
2:17.58 IGOR VAZHENIN USA
2:17.60 DAVE HOLLAND USA
2:18.03 BRUCE HOPSON USA
2:19.09 MICHAEL HALL USA
2:19.97 A.LAVEGLIA ITA
2:20.81 UWE LIEBERMANN GER
2:21.12 TODD CLARK USA
200 M. I.M.
2:14.12 VADIM FORAFONOV RUS
2:14.19 DANIEL VEATCH USA
2:15.00 RENATO RAMALHO BRA
2:17.43 MARK STORI USA
2:18.26 ALEJANDRO MORENO MEX
2:18.84 MICHAEL HALFAST USA
2:20.39 NEILL WILLIAMS USA
2:21.08 ALEXANDRE VOZNIAR RUS
2:21.31 KAZUHIKO YAMAKAWA JPN
2:21.54 TYLER JOURDONNAIS USA
400 M. I.M.
4:50.37 VADIM FORAFONOV RUS
4:53.45 RENATO RAMALHO BRA
4:57.20 MARK STORI USA
4:57.30 ALEJANDRO MORENO MEX
5:00.37 JOHAN STEINER USA
5:00.90 ALEXANDRE VOZNIAR RUS
5:01.57 UWE LIEBERMANN GER
5:03.16 SVEN GRUNERT GER
5:04.49 DOUGLAS STEWART USA
5:05.31 TODD CLARK USA

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M E N 35-39
****
50 M. FREE
24.02 JAMES LILLEY USA
24.64 F.FAVERON PER
24.94 R.SANTOS BRA
25.01 KURT WIENANTS USA
25.06 DAVID WILLIAMS USA
25.37 STEFAN VOLERY SUI
25.42 KIPP DYE USA
25.46 ROBERTO TARRICONE ITA
25.47 GORDON ANDREWS USA
25.53 ALEX BAILEY USA
100 M. FREE
54.46 F.FAVERON PER
54.66 JAMES LILLEY USA
54.72 R.SANTOS BRA
54.93 RALPH RECKE GER
55.14 MARK MASON GBR
55.39 STEFAN MADER GER
55.62 KURT WIENANTS USA
55.62 DAVID WILLIAMS USA
55.70 KIPP DYE USA
55.81 MICHAEL FELL USA
200 M. FREE
2:00.32 JAMES LILLEY USA
2:02.26 KURT WIENANTS USA
2:02.41 RALPH RECKE GER
2:03.29 DAVID WILLIAMS USA
2:04.16 EDWIN VAN NORDEN NED
2:04.29 MICHAEL KLEIBER GER
2:04.68 GORDON ANDREWS USA
2:04.79 KAI DITZEL GER
2:05.28 BOBBY PATTEN USA
2:05.46 DAMIANO NANETTI ITA
400 M. FREE
4:19.66 MICHAEL KLEIBER GER
4:23.75 DAMIANO NANETTI ITA
4:26.48 JAMES LILLEY USA
4:27.53 RALPH RECKE GER
4:29.07 BOBBY PATTEN USA
4:29.48 MIKE KECK USA
4:29.63 MURRAY ALLEN AUS
4:29.91 JOHN HAVLIK USA
4:31.16 JOSEPH RHYNE USA
4:32.52 GORDON ANDREWS USA
800 M. FREE
8:55.55 MICHAEL KLEIBER GER
9:15.95 DAMIANO NANETTI ITA
9:19.56 K.OVERBEEKE NED
9:25.90 JOHN HAVLIK USA
9:26.38 MURRAY ALLEN AUS
9:26.77 JOSEPH RHYNE USA
9:30.38 STEFANO SEGUITI ITA
9:33.83 H.ANDRESEN GER
9:34.42 RUSSELL FLETCHER AUS
9:35.43 ANTONIO SANCHEZ MEX
1500 M. FREE
17:32.80 BOB PATTEN USA
18:09.41 JOSEPH RHYNE USA
18:10.60 STEFANO SEGUITI ITA
18:15.35 THOMAS MACK USA
18:22.25 BERNHARD KOMPF GER
18:27.21 DAVID BRANCAMP USA
18:30.00 A.TIBERTI ITA
18:35.99 KJ VAN OVERBEEK NED
18:38.19 MARK JONES GBR
18:39.67 JORG HOFMANN GER
50 M. BACK
29.01 DAVID LUNDBERG USA
29.08 DARIUSZ WOLNY POL
29.09 MICHAEL FELL USA
29.20 JAY YARID USA
29.33 CURT LA COUNT USA
29.44 F.FAVERON PER
29.48 JAMES LILLEY USA
29.70 PAOLO FELOTTI ITA
29.94 ANDREAS SCHMIDT GER
29.99 JESUS VASSALLO PUR
100 M. BACK
1:01.52 JAY YARID USA
1:03.00 JAMES LILLEY USA
1:03.62 STEVE GEORGE USA
1:04.31 ANDREAS SCHMIDT GER
1:04.73 MICHAEL FELL USA
1:04.98 KELLEY ALLEN USA
1:05.16 ECKARD NEUBAUER GER
1:05.56 BRIAN PAKKALA USA
1:06.06 JOSE SANTOS BRA
1:06.08 PAOLO FELOTTI ITA
200 M. BACK
2:14.47 JAY YARID USA
2:16.03 PETER BERNDT USA
2:17.93 DARIUSZ WOLNY POL
2:19.61 STEVE GEORGE USA
2:22.21 MICHAEL FELL USA
2:22.88 HELGE KURZWEIL GER
2:23.19 KELLEY ALLEN USA
2:24.37 ARNALDO PEREZ PUR
2:24.41 CHARLIE JOHNSON USA
2:24.83 K.OVERBEEKE NED
50 M. BRST
29.09 WALLY DICKS USA
30.05 DAVID GUTHRIE USA
30.47 DAVID LUNDBERG USA
30.80 DEAN PUTTERMAN USA
30.93 ROBERT JACKSON USA
31.10 STEPHEN COOK AUS
31.23 ROMAN PETROV RUS
31.30 F.FAVERON PER
31.73 MICHAEL MUNTJES GER
32.07 RALF BUTTGEREIT GER
100 M. BRST
1:05.03 WALLY DICKS USA
1:06.21 DAVID GUTHRIE USA
1:07.52 DAVID LUNDBERG USA
1:09.57 STEPHEN COOK AUS
1:10.14 MICHAEL MUNTJES GER
1:10.51 ROMAN PETROV RUS
1:11.31 ROBERT JACKSON USA
1:12.78 HANS-J. ANDRESEN GER
1:12.82 MARK POHLKAMP USA
1:12.87 RENATO POSSANZINI ITA
1:12.87 MICHAEL CASCIATO USA
200 M. BRST
2:27.61 DAVID GUTHRIE USA
2:30.42 DAVID LUNDBERG USA
2:36.30 MICHAEL MUNTJES GER
2:37.02 STEPHEN COOK AUS
2:38.52 EDWIN VAN NORDEN NED
2:39.52 HANS-J. ANDRESEN GER
2:39.85 KAZUNORI UEMURA JPN
2:41.43 A.O DRISCOLL GBR
2:42.59 RENATO POSSANZINI ITA
2:43.33 DAN ROSENTHAL USA
50 M. FLY
26.72 RICARDO SANTOS BRA
26.75 BOBBY PATTEN USA
27.03 ROBERTO TARRICONE ITA
27.16 KURT WIENANTS USA
27.22 C FROELIGER FRA
27.23 MARK MASON GBR
27.24 BRIAN PAKKALA USA
27.25 JESUS VASSALLO PUR
27.32 DAVID EMERSON GBR
27.38 ROBERT PLACAK USA
100 M. FLY
59.21 R.SANTOS BRA
59.78 BOBBY PATTEN USA
1:00.31 KURT WIENANTS USA
1:00.39 DAVID EMERSON GBR
1:00.47 SERGUEI FESSENKO UKR
1:00.68 JAMES LILLEY USA
1:00.91 ECKARD NEUBAUER GER
1:01.80 MURRAY ALLEN AUS
1:01.89 JOHN WARING CAN
1:01.99 BRIAN PAKKALA USA
200 M. FLY
2:13.53 DAMIANO NANETTI ITA
2:15.62 BOBBY PATTEN USA
2:20.21 SCOTT HALLIBURTON USA
2:22.17 MURRAY ALLEN AUS
2:22.32 JOSEPH RHYNE USA
2:22.94 CHRISTOPHE ROTH USA
2:23.49 BERNHARD KOMPF GER
2:23.52 BILL STAEBELL USA
2:26.31 JONATHAN OLSEN USA
2:27.60 DON SKEOCH USA
200 M. I.M.
2:14.94 DARIUSZ WOLNY POL
2:15.84 DAVID LUNDBERG USA
2:16.62 PETER BERNDT USA
2:19.01 EDWIN VAN NORDEN NED
2:19.45 ALESSANDRO TIBERM ITA
2:19.54 KURT WIENANTS USA
2:19.85 SERGUEI FESSENKO UKR
2:20.37 MIKE KECK USA
2:21.35 RALPH RECKE GER
2:21.44 MARK MASON GBR
400 M. I.M.
4:46.79 DARIUSZ WOLNY POL
4:54.32 PETER BERNDT USA
4:56.55 ALESSANDRO TIBERM ITA
5:06.84 MIKE KECK USA
5:09.64 EDWIN VAN NORDEN NED
5:09.97 CHRISTIAN ROWE USA
5:10.98 ARNALDO PEREZ PUR
5:11.51 DON SKEOCH USA
5:12.05 RALPH RECKE GER
5:17.80 PAOLO VEZZOSI ITA

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M E N 40-44
****
50 M. FREE
24.25 BRENT BARES JPN
24.77 JAMES SORENSEN USA
24.80 JACK GROSELLE USA
25.39 PETER NUNAN USA
25.41 TOM MCCABE USA
25.73 JOHN PIECUCH USA
25.75 HANK OPPENBORN USA
25.79 RAMON VOLCAN VZL
25.87 PHILIPPE NOEL BEL
25.96 ERIC VAN BOER USA
100 M. FREE
53.78 JACK GROSELLE USA
54.65 JAMES SORENSEN USA
55.42 PETER NUNAN USA
55.69 PAUL BLACKBEARD GBR
56.74 JAMES BALLARD USA
57.16 TOM MCCABE USA
57.81 STEVE SUSSEX USA
57.81 L MEISENHEIMER USA
57.85 SCOTT FINDORFF USA
57.89 MICHAEL SCOTT USA
200 M. FREE
2:02.45 JAMES SORENSEN USA
2:04.45 JACK GROSELLE USA
2:04.80 SPENCER ELDRED USA
2:06.38 TOM MCCABE USA
2:06.61 PAUL BLACKBEARD GBR
2:08.04 JIM CALLAHAN USA
2:08.07 STEVE SUSSEX USA
2:08.32 PETER KAUCH GER
2:08.50 LARRY WOOD USA
2:08.51 CHARLES QUIBELL RSA
400 M. FREE
4:29.55 SCOTT SHAKE USA
4:32.20 MARCO AMIDANI ITA
4:35.05 WILLIAM SPECHT USA
4:35.41 PAUL BLACKBEARD GBR
4:35.89 STEVE SUSSEX USA
4:35.95 JIM CALLAHAN USA
4:36.49 KERRY O'BRIEN USA
4:37.01 HANK OPPENBORN USA
4:37.14 GARY QUINN USA
4:37.36 FRANCIS CHRISTIAN AUS
800 M. FREE
9:30.30 MARCO AMIDANI ITA
9:31.70 SCOTT SHAKE USA
9:33.98 THOMAS MACK USA
9:37.87 JIM CALLAHAN USA
9:42.88 GREGORY DOZER USA
9:43.31 HUGO BREGMAN NED
9:44.36 NEIL WASSERMAN USA
9:44.78 J.F.TEIXEIRA N. BRA
9:45.03 LARRY WOOD USA
9:45.58 DAVID BURLESON USA
1500 M. FREE
17:46.26 SCOTT SHAKE USA
18:07.49 TIM HARVEY USA
18:20.30 MARCO AMIDANI ITA
18:33.87 NEIL WASSERMAN USA
18:42.08 LARRY WOOD USA
18:45.58 M JOUANDON FRA
18:45.66 JIM STITES USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

18:47.16 JIM CALLAHAN USA
18:47.56 HUGO BREGMAN NED
18:56.47 WILLIAM HEMPLE GBR
50 M. BACK
28.90 WILLIAM SPECHT USA
29.33 CURT LA COUNT USA
29.66 JAMES BALLARD USA
30.09 RAMON VOLCAN VEN
30.15 BOB BURESH USA
30.23 SCOTT SHAKE USA
30.30 O.BOSQUE MEX
30.59 DANIEL ROGERS USA
30.64 OSCAR GUTIERREZ MEX
30.71 A STEYNBERG RSA
100 M. BACK
1:02.48 WILLIAM SPECHT USA
1:03.45 JAMES BALLARD USA
1:03.88 CURT LA COUNT USA
1:04.62 SCOTT SHAKE USA
1:05.11 GLENN PATCHING USA
1:05.51 GARY QUINN USA
1:05.76 DAVID BURLESON USA
1:06.12 BOB BURESH USA
1:06.87 CARLOS SANTIAGO PUR
1:07.13 DANIEL ROGERS USA
200 M. BACK
2:16.40 WILLIAM SPECHT USA
2:19.36 SCOTT SHAKE USA
2:22.78 GARY QUINN USA
2:24.88 DAVID BURLESON USA
2:25.54 BOB BURESH USA
2:27.75 DANIEL ROGERS USA
2:28.01 HUGO BREGMAN NED
2:28.38 K.FUKIDOME JPN
2:29.40 ANDREAS SEIBT USA
2:31.13 S.RODIONOV RUS
50 M. BRST
30.56 GLEN CHRISTIANSEN SWE
30.94 DOUG MALCOLM USA
31.09 GERHARD AMMER GER
31.10 MORI PAULSEN USA
31.51 DAVID GRAY USA
31.80 RON SCHAFER USA
31.96 STEPHEN RODE USA
31.99 TIMOUR PODMAREV RUS
32.18 YOSHIHIDE KAGAMI JPN
32.23 JACK GROSELLE USA
100 M. BRST
1:08.97 RON SCHAFER USA
1:09.64 GLEN CHRISTIANSEN SWE
1:09.93 TIMOUR PODMAREV RUS
1:10.08 STEPHEN RODE USA
1:11.38 GERHARD AMMER GER
1:11.39 YOSHIHIDE KAGAMI JPN
1:11.56 DAVID GRAY USA
1:11.91 STUART CORLISS USA
1:12.22 PAT ALLENDER USA
1:12.50 JACK GROSELLE USA
200 M. BRST
2:29.77 RON SCHAFER USA
2:29.99 TIMOUR PODMARER RUS
2:36.21 PAT ALLENDER USA
2:36.81 DAVID GRAY USA
2:37.50 STEPHEN RODE USA
2:38.56 YOSHIHIDE KAGAMI JPN
2:38.60 GLEN CHRISTIANSEN SWE
2:39.72 CHRIS NICOL CAN
2:40.02 WERNER RIED GER
2:42.80 WILLIAM SMIDDY USA
50 M. FLY
26.33 WILLIAM SPECHT USA
26.38 RAMON VOLCAN VZL
26.66 BRENT BARES JPN
26.67 CURT LA COUNT USA
27.07 TOM MCCABE USA
27.15 JAMES SORENSEN USA
27.43 YIT LIM USA
27.53 JAMES BALLARD USA
27.57 MICHAEL KER CAN
27.83 SCOTT FINDORFF USA
100 M. FLY
58.13 WILLIAM SPECHT USA
1:00.26 CURT LA COUNT USA
1:00.72 PAUL BLACKBEARD GBR
1:01.41 STUART CORLISS USA
1:01.43 BILL GLASSTETTER USA
1:01.99 HUGO BREGMAN NED
1:02.27 JACK GROSELLE USA
1:02.28 TOM MCCABE USA
1:02.30 KERRY O'BRIEN USA
1:03.23 ANDREAS SCHMIDT GER
200 M. FLY
2:09.47 WILLIAM SPECHT USA
2:18.45 HUGO BREGMAN NED
2:19.63 BILL GLASSTETTER USA
2:19.95 PAUL BLACKBEARD GBR
2:23.21 KERRY O'BRIEN USA
2:26.54 FRANCIS CHRISTIAN AUS
2:27.28 THOMAS ROHL GER
2:28.04 KAZUHIRO OTSUKA JPN
2:28.61 GLEN CHRISTIANSEN SWE
2:28.86 NEIL WASSERMAN USA
200 M. I.M.
2:15.53 JAMES SORENSEN USA
2:21.44 SPENCER ELDRED USA
2:22.93 SCOTT SHAKE USA
2:23.14 PAT ALLENDER USA
2:24.96 BILL GLASSTETTER USA
2:25.09 GREGORY DOZER USA
2:25.75 YASHIRO TAGUCHI JPN
2:26.80 GLEN CHRISTIANSEN SWE
2:26.91 HUGO BREGMAN NED
2:26.92 STUART CORLISS USA
400 M. I.M.
5:13.82 ANDREAS SEIBT USA
5:13.92 HUGO BREGMAN NED
5:15.31 STEVE SUSSEX USA
5:15.60 DAVID BURLESON USA
5:17.17 GREGORY DOZER USA
5:17.60 JIM CALLAHAN USA
5:17.68 GARY QUINN USA
5:18.66 NEIL WASSERMAN USA
5:19.32 PETER KAUCH GER
5:20.10 WILLIAM SMIDDY USA

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M E N 45-49
****
50 M. FREE
25.45 TOM WHATLEY USA
25.75 CRAIG BURNS USA
25.89 JOHN SPIRE USA
25.98 LEONARD BIELICZ SWE
26.06 C MILTENBERGER USA
26.08 ROBERT PUELS USA
26.17 HIROYUKI AMAZAKI JPN
26.26 JIM DUCHARME CAN
26.52 TERRY DOWNES RSA
26.52 STEVE HECK USA
100 M. FREE
57.55 CRAIG BURNS USA
57.59 C MILTENBERGER USA
57.74 RICHARD GARRETT USA
57.91 TERRY DOWNES RSA
58.08 LEE MENCH USA
58.11 JIM DUCHARME CAN
58.31 JOHN SPIRE USA
58.83 HIROYUKI AMAZAKI JPN
59.43 RICHARD PETERSON USA
59.46 LARRY KRAUSER USA
200 M. FREE
2:08.49 TODD BRYAN USA
2:10.18 JIM DUCHARME CAN
2:10.58 RICHARD GARRETT USA
2:10.84 LEE MENCH USA
2:11.44 H.VAN LIENDEN NED
2:11.62 CRAIG BURNS USA
2:12.24 LUIS PINEYRO MEX
2:12.31 JOHN SPIRE USA
2:12.31 PINEYRO LUIS MEX
2:14.49 TERRY DOWNES RSA
400 M. FREE
4:30.29 TODD BRYAN USA
4:38.97 EDDIE RIACH USA
4:42.42 LEE MENCH USA
4:44.01 JIM DUCHARME CAN
4:44.24 LUIS PINEYRO MEX
4:44.99 H.VAN LIENDEN NED
4:46.83 RICHARD GARRETT USA
4:47.80 RICK WALKER USA
4:48.41 FRANK THOMPSON USA
4:48.52 PINEYRO LUIS MEX
800 M. FREE
9:13.29 TODD BRYAN USA
9:36.85 EDDIE RIACH USA
9:52.02 LEE MENCH USA
9:59.02 FRANK THOMPSON USA
9:59.61 RICK WALKER USA
10:08.13 LUIS PINEYRO MEX
10:10.35 LARRY KRAUSER USA
10:12.36 FELIX GMUNDER SUI
10:18.46 LESLIE JESSOP GBR
10:19.47 GREG STEWART AUS
1500 M. FREE
17:31.23 TODD BRYAN USA
18:05.68 RANDY WILLIAMS USA
18:36.52 EDDIE RIACH GBR
18:51.31 MIKE SHERRILL USA
19:06.74 RICK WALKER USA
19:10.36 PAUL FETTERS USA
19:10.98 DICK STONE USA
19:27.41 FRANK THOMPSON USA
19:35.98 GREG STEWART AUS
19:39.69 STU FITCH AUS
50 M. BACK
30.57 EDDIE RIACH GBR
31.14 RICHARD BOBER USA
31.20 SHUNJI NAGAHAMA JPN
31.34 JOHN SPIRE USA
31.66 MARK PUGLIESE USA
31.77 YUKIO SHIROTA JPN
31.82 GENE HART USA
31.95 JACK COURTNEY USA
32.01 A VANACKER FRA
32.04 GERHARD BUTTNER GER
100 M. BACK
1:04.69 EDDIE RIACH GBR
1:07.14 JOHN SPIRE USA
1:07.47 RICHARD BOBER USA
1:08.54 JACK COURTNEY USA
1:08.56 SHUNJI NAGAHAMA JPN
1:09.03 CASEY CLAFLIN USA
1:09.13 MARK PUGLIESE USA
1:09.90 RICHARD GARRETT USA
1:09.90 ROB WEYHENKE GER
1:10.30 ALAIN VANACKER FRA
200 M. BACK
2:22.45 EDDIE RIACH GBR
2:28.36 PAUL FETTERS USA
2:30.61 RICHARD BOBER USA
2:31.18 TODD BRYAN USA
2:31.62 MARK PUGLIESE USA
2:31.74 JACK COURTNEY USA
2:32.09 ROB WEYHENKE GER
2:32.39 JOHN SPIRE USA
2:34.54 FRANK THOMPSON USA
2:34.83 ALAIN VANACKER FRA
50 M. BRST
31.54 C MILTENBERGER USA
32.85 RICHARD BOHAN USA
32.99 DALE KORNER USA
33.01 TIMOTHY SHEAD RSA
33.26 TOSHIHARU FUJII JPN
33.31 A CAWOOD RSA
33.59 ARMANDO BORETTO ARG
33.64 GUSTAVO SALCEDO MEX
33.79 ROBERT PUELS USA
33.89 TOM WHATLEY USA
100 M. BRST
1:13.79 C MILTENBERGER USA
1:13.99 JAY OLSON USA
1:14.28 TIMOTHY SHEAD RSA
1:14.48 DALE KORNER USA
1:15.29 RICHARD BOHAN USA
1:15.88 ROBERT PUELS USA
1:16.35 TOSHIHARU FUJII JPN
1:16.60 ALLEN STARK USA
1:16.60 GUSTAVO SALCEDO MEX
1:16.61 ARMANDO BORETTO ARG
200 M. BRST
2:41.92 DALE KORNER USA
2:44.01 GREGORY HARRISON USA
2:45.16 TIMOTHY SHEAD RSA
2:46.18 HERBERT BLOCH GER
2:47.39 RICHARD BOHAN USA
2:49.29 GUSTAVO SALCEDO MEX
2:49.60 FRANCO ARALDI ITA
2:49.62 TOSHIHARU FUJII JPN
2:51.04 ALLEN STARK USA
2:51.49 BILL PRICE GBR
50 M. FLY
27.61 CRAIG BURNS USA
28.01 KEVIN MCCORMACK USA
28.19 LEONARD BIELICZ SWE
28.47 DON MEHL USA
28.56 MARK PUGLIESE USA
28.69 TIMOTHY SHEAD RSA
28.74 TOM WHATLEY USA
28.91 STEVE HECK USA
29.07 JOHN MCCALL USA
29.29 TAKEO HIRAMOTO JPN
100 M. FLY
1:03.74 LEONARD BIELICZ SWE
1:03.85 CRAIG BURNS USA
1:04.31 KEVIN MCCORMACK USA
1:06.05 JIM OSBORN USA
1:06.11 DAVID TANNER USA
1:07.13 STEVE HECK USA
1:07.14 JOHN MCCALL USA
1:07.31 JORGE TAKEDA BRA
1:08.05 A.GONZALES-VIGIL PER
1:08.07 RUDY VAZMINA USA
200 M. FLY
2:29.28 DAVID TANNER USA
2:30.23 FRED SCHLICHER USA
2:31.79 RANDY WILLIAMS USA
2:37.08 WILL REEVES USA
2:37.40 FRANCO ARALDI ITA
2:38.58 JORGE TAKEDA BRA
2:40.38 DAVID LEVINSON USA
2:42.70 WALDYR RAMOS BRA
2:43.01 STEPHEN TWARTZ AUS
2:44.78 GARY BASTIE USA
200 M. I.M.
2:25.19 EDDIE RIACH GBR
2:30.18 ROBERT WEYHENKE GER
2:30.78 RICHARD GARRETT USA
2:31.27 TIMOTHY SHEAD RSA
2:32.11 STEVE HECK USA
2:33.89 PAUL FETTERS USA
2:34.74 CRAIG BURNS USA
2:35.61 MIKE MORROW CAN
2:35.96 FRANK THOMPSON USA
2:36.34 RICHARD HAAS USA
400 M. I.M.
5:09.11 EDDIE RIACH GBR
5:24.67 PAUL FETTERS USA
5:32.81 RICHARD GARRETT USA
5:34.45 ROBERT WEYHENKE GER
5:35.72 MIKE MORROW CAN
5:38.95 FRED SCHLICHER USA
5:39.02 FRANK THOMPSON USA
5:39.30 FRANCO ARALDI ITA
5:40.80 MARK PUGLIESE USA
5:42.27 JOEL WILSON USA

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M E N 50-54
****
50 M. FREE
24.60 RICHARD ABRAHAMS USA
26.36 ROBERT STRAND USA
26.46 STEVE BOROWSKI USA
26.55 BRYAN BATEMAN USA
26.76 PETER PRIJDEKKER GBR
26.80 DICK THOMAS USA
26.93 H.HARBRECHT GER
27.12 DAVID PADGETT USA
27.14 GREGORY CHARLTON USA
27.17 JOHN ENTERLINE USA
100 M. FREE
56.98 RICHARD ABRAHAMS USA
58.48 BRYAN BATEMAN USA
59.22 PETER PRIJDEKKER GBR
59.46 H.HARBRECHT GER
1:00.27 GREGORY CHARLTON USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

1:00.41 ROBERT STRAND USA
1:00.80 GRAHAM CROFT AUS
1:01.24 DANIEL ROGACKI USA
1:01.31 RICHARD KITTEL USA
1:01.61 DAVE QUIGGIN USA

200 M. FREE

2:07.17 FRED SCHLICHER USA
2:08.31 R TOD SPIEKER USA
2:13.87 H.HARBRECHT GER
2:14.55 PETER PRIJDEKKER GBR
2:15.04 GREGORY CHARLTON USA
2:15.04 KEITH BELL USA
2:16.09 IVAN MYALL GBR
2:16.49 RICHARD KITTEL USA
2:16.50 CHRIS DUNN GBR
2:16.98 FRANK HESBACHER GER

400 M. FREE

4:32.51 TOD SPIEKER USA
4:33.78 FRED SCHLICHER USA
4:48.09 D.UIJTENBOGAART NED
4:48.69 GREGORY CHARLTON USA
4:52.50 KEITH BELL USA
4:53.92 STEPHEN JOHNSON USA
4:54.63 CHRIS DUNN GBR
4:54.80 IVAN MYALL GBR
4:55.04 BILL DARBY USA
4:55.68 CHRIS SHAPLAND AUS

800 M. FREE

9:27.52 TOD SPIEKER USA
9:46.85 D.UIJTENBOGAART NED
10:08.64 GREGORY CHARLTON USA
10:09.63 BILL DARBY USA
10:13.93 STEPHEN JOHNSON USA
10:20.20 KEITH BELL USA
10:21.58 ERIC HENDERSON GBR
10:25.06 IVAN MYALL GBR
10:28.91 HUGH WILDER USA
10:29.22 JIM MCCLEERY USA

1500 M. FREE

18:04.63 R TOD SPIEKER USA
19:08.20 D.UIJTENBOGAART NED
19:22.09 KEITH BELL USA
19:34.99 BILL DARBY USA
19:51.26 IVAN MYALL GBR
20:26.15 BRETT SORGE USA
20:27.66 TONY PEARCE GBR
20:39.07 F.BIERING-SORENSE DEN
20:39.76 ANDY WILSON GBR
20:39.82 BOB COUCH USA

50 M. BACK

31.02 HUGH WILDER USA
31.06 DICK THOMAS USA
32.03 BRYAN BATEMAN USA
32.09 BOB KOLONKOWSKI USA
32.18 JESUS CABRERA ESP
32.52 JEAN LESTIDEAU FRA
32.86 TIM BIRNIE USA
32.98 JOHN GORDON GBR
33.19 YASUO OWADA JPN
33.33 PATRICK DEVINE AUS

100 M. BACK

1:07.67 HUGH WILDER USA
1:09.58 BOB KOLONKOWSKI USA
1:09.83 TOD SPIEKER USA
1:11.05 DICK THOMAS USA
1:11.98 DANIEL ROGACKI USA
1:12.37 JEAN LESTIDEAU FRA
1:12.47 JOHN GORDON GBR
1:15.08 C MEYER RSA
1:15.36 RICHARD KITTEL USA
1:15.67 DUKE DAHLIN USA

200 M. BACK

2:27.01 R TOD SPIEKER USA
2:33.54 HUGH WILDER USA
2:38.75 IVAN MYALL GBR
2:40.21 BOB KOLONKOWSKI USA
2:41.95 JOHN GORDON GBR
2:44.71 C MEYER RSA
2:45.59 JEAN LESTIDEAU FRA
2:48.43 HARUKI KOYAMA JPN
2:48.69 PATRICK DEVINE AUS
2:49.69 H.HARBRECHT GER
2:49.69 PEDRO GOUTERRES RUS

50 M. BRST

32.16 ROBERT STRAND USA
33.11 DON MCKENZIE USA
33.72 J SICOT FRA
33.81 YOSHITADA MAEDA JPN
34.46 JOHN LIRON GBR
34.72 KENNETH FROST USA
35.06 G MENYHARTH USA
35.28 WOLFGANG GATCKE GER
35.40 H.HARBRECHT GER
35.41 SHIGERU KANAUMI JPN
35.41 JIM DRAGON USA

100 M. BRST

1:11.90 ROBERT STRAND USA
1:16.10 DON MCKENZIE USA
1:16.88 DANIEL ROGACKI USA
1:18.57 J SICOT FRA
1:18.61 YOSHITADA MAEDA JPN
1:19.06 KENNETH FROST USA
1:19.95 BILL GRIFFITH USA
1:20.31 SEIKO OKAZAKI JPN
1:20.71 ISAMU HIRAJO JPN
1:20.85 MICHAEL MERRELL USA

200 M. BRST

2:43.37 ROBERT STRAND USA
2:52.78 DON MCKENZIE USA
2:53.12 NIKOLAI KOULAKOV RUS
2:54.30 KENNETH FROST USA
2:55.60 MICHAEL MERRELL USA
2:58.82 BILL GRIFFITH USA
3:00.26 D.UIJTENBOGAART NED
3:00.36 DENNIS MANRIQUE USA
3:00.42 DAVID UGARKOVICH USA
3:00.77 PHIL DOCKERILL CAN

50 M. FLY

27.13 RICHARD ABRAHAMS USA
27.69 STEVE BOROWSKI USA
28.12 JOEL BURNS USA
28.53 FRED SCHLICHER USA
28.94 SHIGEO ASANO JPN
29.23 ERIC HENDERSON GBR
29.32 SHINJI YAMANOUCHI JPN
29.39 JOSEP CLARET ESP
29.42 DICK THOMAS USA
29.64 S LISIONNENKO RUS

100 M. FLY

1:02.25 RICHARD ABRAHAMS USA
1:02.81 FRED SCHLICHER USA
1:03.70 JOEL BURNS USA
1:04.93 ERIC HENDERSON GBR
1:05.22 SHIGEO ASANO JPN
1:06.53 BOB KOLONKOWSKI USA
1:06.88 ROBERT POILETMAN USA
1:08.07 WILLIAM ABBOTT USA
1:08.18 NORIAKI TSUJI JPN
1:08.41 EVGUENI OUCHAKOV RUS

200 M. FLY

2:26.34 FRED SCHLICHER USA
2:32.71 BOB KOLONKOWSKI USA
2:33.48 ROBERT POILETMAN USA
2:36.54 SHIGEO ASANO JPN
2:36.56 KEITH BELL USA
2:40.87 ERIC HENDERSON GBR
2:43.93 LELAND FAUST USA
2:45.12 GUNTER PACKENIUS GER
2:47.07 GABOR CSABA HUN
2:48.23 D.UIJTENBOGAART NED

200 M. I.M.

2:31.45 ROBERT STRAND USA
2:34.56 R TOD SPIEKER USA
2:34.76 FRED SCHLICHER USA
2:38.08 DANIEL ROGACKI USA
2:40.32 PATRICK DEVINE AUS
2:40.39 PETER PRIJDEKKER GBR
2:41.23 ROBERT POILETMAN USA
2:41.26 BRUCE SUTHERLAND CAN
2:41.41 J SICOT FRA
2:41.58 EVGUENI OUCHAKOV RUS

400 M. I.M.

5:22.72 R TOD SPIEKER USA
5:38.78 BOB KOLONKOWSKI USA
5:43.15 D.UIJTENBOGAART NED
5:55.35 JURGEN ALTENHOFEN GER
5:55.62 EVGUENI OUCHAKOV RUS
5:55.84 BRETT SORGE USA
5:58.47 ANDY WILSON GBR
5:59.03 WOLFGANG DIERKES GER
5:59.91 DENNIS MANRIQUE USA
6:00.49 BOB COUCH USA

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M E N 55-59
****

50 M. FREE

26.33 STEVE CLARK USA
26.57 KEEFE LODWIG USA
26.78 JAMES ELDER USA
27.14 ROBERT SMITH USA
27.17 RYUJI TAKAMINE JPN
27.39 JERRY GREENBERG USA
27.49 BERND SCHRODER GER
27.94 RICHARD BASSI USA
28.04 HIROSHI MARUYAMA JPN
28.09 TONY STRAHAN AUS

100 M. FREE

58.41 TIMOTHY GARTON USA
58.52 KEEFE LODWIG USA
1:01.00 BERND SCHRODER GER
1:01.04 STEVE CLARK USA
1:01.12 JAMES ELDER USA
1:02.67 TONY STRAHAN AUS
1:02.69 RICHARD BURNS USA
1:03.48 ROBERT SMITH USA
1:03.70 KOJI IWAMOTO JPN
1:04.12 W WILSON RSA

200 M. FREE

2:15.35 KEEFE LODWIG USA
2:18.04 EDWARD CAZALET USA
2:20.34 SANDY GALLETLY GBR
2:20.75 TONY STRAHAN AUS
2:23.14 RICHARD BURNS USA
2:23.85 RUDOLF SMERDA CZE
2:25.42 KOJI IWAMOTO JPN
2:25.73 VITTORIO ERMIRIO ITA
2:25.74 KARL VON TAGEN USA
2:28.97 MIKE WAKE GBR

400 M. FREE

4:50.41 SANDY GALLETLY GBR
4:58.12 TIMOTHY GARTON USA
4:59.59 EDWARD CAZALET USA
5:01.87 KEEFE LODWIG USA
5:10.69 BARRY YOUNG NZL
5:13.57 TONY STRAHAN AUS
5:15.60 RUDOLF SMERDA CZE
5:19.29 KARL VON TAGEN USA
5:19.63 CARLOS CANEPA PER
5:20.30 MARIO PATERNI ITA

800 M. FREE

10:03.22 SANDY GALLETLY GBR
10:27.50 EDWARD CAZALET USA
10:35.36 TEGZE HARASZTI USA
10:58.54 MARIO PATERNI ITA
11:04.39 MIKE WAKE GBR
11:08.13 ROB HANOU NED
11:12.65 MEL GOLDSTEIN USA
11:13.69 C WILLIAM MUTER USA
11:15.68 W WILSON RSA
11:17.44 GEOFF STOKES GBR

1500 M. FREE

19:11.76 SANDY GALLETLY GBR
20:44.60 VITTORIO ERMIRIO ITA
21:22.15 MEL GOLDSTEIN USA
21:22.40 MARIO PATERNI ITA
21:30.86 ROB HANOU NED
21:51.10 FEDERICO DI CARLO ITA
21:52.90 STEVEN KOVARY USA
21:54.65 HIROYASU TAKAGI JPN
22:09.32 ROBERT TESCH USA
22:12.38 HILRICH LUPKES GER

50 M. BACK

31.52 ROBERT SMITH USA
32.43 RICHARD BURNS USA
32.47 JO'ZSEF CSIKA'NY HUN
33.25 STEVE CLARK USA
33.99 RICHARD BASSI USA
34.12 VINUS VAN BAALEN CAN
34.44 HIROSHI NONAKA JPN
34.48 LUCIEN GAUCHE FRA
34.59 JURGEN DIETZE GER
34.74 KLAUS KATZUR GER

100 M. BACK

1:11.39 RICHARD BURNS USA
1:11.75 ROBERT SMITH USA
1:11.88 JO'ZSEF CSIKA'NY HUN
1:14.57 BARRY YOUNG NZL
1:15.55 EDWARD CAZALET USA
1:16.20 RICHARD BASSI USA
1:16.51 STEVE THRASHER USA
1:16.70 LUCIEN GAUCHE FRA
1:17.56 PETER BETZER USA
1:18.02 HIROSHI NONAKA JPN

200 M. BACK

2:37.51 RICHARD BURNS USA
2:39.30 EDWARD CAZALET USA
2:40.58 JO'ZSEF CSIKA'NY HUN
2:44.11 BARRY YOUNG NZL
2:47.06 TEGZE HARASZTI USA
2:47.67 LUCIEN GAUCHE FRA
2:50.41 RICHARD BASSI USA
2:51.67 STEVE THRASHER USA
2:51.72 BRUCE CLARK USA
2:52.91 RUDI SCHULZ GER

50 M. BRST

34.48 YOSHIHIKO OSAKI JPN
34.59 KLAUS KATZUR GER
35.59 ALBERT KOSTITSYN FIN
36.10 BORIS FILIPPOLLS RUS
36.21 ROBERT SMITH USA
36.29 E.KIRJAVAIENEN FIN
36.50 BERND LORENZ GER
36.51 PETER KUNZE GER
36.69 HEINZ TEBLER GER
36.77 RAINER OPITZ GER

100 M. BRST

1:18.95 ALBERT KOSTITSYN FIN
1:19.05 TEGZE HARASZTI USA
1:19.81 KLAUS KATZUR GER
1:21.33 BORIS FILIPPOLLS RUS
1:22.42 E.KIRJAVAIENEN FIN
1:22.44 DAVID GILDEA USA
1:22.44 PHILLIP WHITTEN USA
1:22.63 ROBERT SMITH USA
1:23.13 MICHINORI TSUBOTA JPN
1:23.60 RAINER OPITZ GER

200 M. BRST

2:54.08 TEGZE HARASZTI USA
2:56.02 TIMOTHY GARTON USA
2:57.58 ALBERT KOSTITSYN FIN
2:59.15 MICHAEL MOLONEY AUS
3:00.70 KLAUS KATZUR GER
3:02.55 PHILLIP WHITTEN USA
3:03.37 ROB HANOU NED
3:05.27 DAVID GILDEA USA
3:05.74 KEITH SHAW CAN
3:06.65 BORIS FILIPPOLLS RUS

50 M. FLY

28.22 KEEFE LODWIG USA
28.82 RYUJI TAKAMINE JPN
28.89 STEVE CLARK USA
28.98 BERND SCHRODER GER
29.58 JAMES ELDER USA
29.84 ROBERT SMITH USA
29.85 KOJI IWAMOTO JPN
30.02 CHITOSHI KONISHI JPN
30.09 RICHARD BASSI USA
30.21 PETER GILMOUR AUS

100 M. FLY

1:07.17 BERND SCHRODER GER
1:08.33 PETER GILMOUR AUS
1:09.29 KOJI IWAMOTO JPN
1:10.69 C WILLIAM MUTER USA
1:10.71 CHITOSHI KONISHI JPN
1:12.31 JAMES ELDER USA
1:12.33 STEVE CLARK USA
1:13.74 ALEXEI KAMECHKOV RUS
1:14.94 S.HASEGAWA JPN
1:15.21 PETER STRAKA CAN

200 M. FLY

2:38.07 PETER GILMOUR AUS
2:45.80 KOJI IWAMOTO JPN
2:53.48 BERND SCHRODER GER
2:57.51 ROB HANOU NED
2:59.48 W.GRONKI GER

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

3:01.47 HUGH RODDIN USA
3:01.91 JAMES ELDER USA
3:04.41 HELMUT BEER GER
3:04.47 WILLIAM MUTER USA
3:04.93 P.WERMELSKIRCHEN GER
200 M. I.M.
2:32.96 TIMOTHY GARTON USA
2:38.16 EDWARD CAZALET USA
2:41.35 TEGZE HARASZTI USA
2:43.58 SANDY GALLETLY GBR
2:44.56 KLAUS KATZUR GER
2:44.64 RICHARD BURNS USA
2:45.05 BERND SCHRODER GER
2:45.17 KOJI IWAMOTO JPN
2:45.92 WILLIAM MUTER USA
2:46.00 BARRY YOUNG NZL
400 M. I.M.
5:41.81 SANDY GALLETLY GBR
5:43.33 TIMOTHY GARTON USA
5:47.60 BARRY YOUNG NZL
6:02.74 WILLIAM MUTER USA
6:04.12 BERND SCHRODER GER
6:06.08 KLAUS KATZUR GER
6:10.70 ROB HANOU NED
6:13.93 HELMUT BEER GER
6:20.74 GERARDO STEUDEL ESP
6:22.35 MIKE FRESHLEY USA

****
M E N 60-64
****
50 M. FREE
26.70 JEFF FARRELL USA
27.70 CAV CAVANAUGH USA
27.88 JERRY CLARK USA
27.94 TOSHIHIRO HAYASHI JPN
28.05 PETER BERGGENGREN SWE
28.62 JOHN SMITH USA
29.00 MASAMI TATEISHI JPN
29.04 TAI-CHUN FU HKG
29.05 JAMES KRUEGER USA
29.35 TOM VERTH CAN
100 M. FREE
1:00.11 JEFF FARRELL USA
1:02.94 CAV CAVANAUGH USA
1:03.53 PETER BERGGENGREN SWE
1:03.90 JERRY CLARK USA
1:04.20 TOSHIHIRO HAYASHI JPN
1:04.36 JOHN SMITH USA
1:05.00 TAI-CHUN FU HKG
1:05.03 DAVID RADCLIFF USA
1:05.28 WILLIAM VAN HORN USA
1:05.67 JAMES KRUEGER USA
200 M. FREE
2:20.54 JEFF FARRELL USA
2:23.73 KAZUYA NISHINO JPN
2:24.89 ERNIE LESKOVITZ USA
2:25.32 FABRIZIO MOMONI ITA
2:25.76 DAVID HARRISON USA
2:26.10 WILLIAM VAN HORN USA
2:27.03 DAVID RADCLIFF USA
2:27.37 CAV CAVANAUGH USA
2:29.30 NIC GEERS NED
2:29.65 JERRY CLARK USA
400 M. FREE
5:08.22 ERNIE LESKOVITZ USA
5:10.59 KAZUYA NISHINO JPN
5:12.36 WILLIAM VAN HORN USA
5:14.30 FABRIZIO MOMONI ITA
5:14.63 DAVID HARRISON USA
5:16.33 DAVID RADCLIFF USA
5:20.24 NIC GEERS NED
5:23.72 JERRY CLARK USA
5:34.19 M EDWARDS GBR
5:35.88 JOHN CRISP AUS
800 M. FREE
10:46.37 DAVID HARRISON USA
10:49.11 ERNIE LESKOVITZ USA
10:50.33 FABRIZIO MOMONI ITA
10:55.21 WILLIAM VAN HORN USA
11:08.61 DAVID RADCLIFF USA
11:20.22 NIC GEERS NED
11:32.56 JERRY CLARK USA
11:33.07 MIKE EDWARDS GBR
11:34.97 JOHN PUGH AUS
11:58.99 OTTO CHRISTENSEN DEN
1500 M. FREE
20:52.00 FABRIZIO MOMONI ITA
20:59.46 DAVID HARRISON USA
21:39.89 MIKE EDWARDS GBR
21:52.70 NIC GEERS NED
22:14.32 OTTO CHRISTENSEN DEN
22:26.80 ERNIE LESKOVITZ USA
22:49.26 DAVID RADCLIFF USA
22:52.97 KENT PRICE USA
22:57.17 WERNER SCHNABEL GER
22:58.86 F.ZEYER GER
50 M. BACK
33.68 JOHN SMITH USA
34.58 KOICHI SATO JPN
34.89 TOM ROBSON GBR
34.96 YOSHI OYAKAWA USA
34.97 BILL EARLEY USA
35.41 RUDI SCHWIND GER
35.72 DAVID MCINTYRE USA
35.82 PETER BERGGENGREN SWE
35.92 HUGH CUMBERFORD GBR
35.92 ISAO KOYAMA JPN
100 M. BACK
1:17.44 JOHN SMITH USA
1:18.73 YOSHI OYAKAWA USA
1:19.21 JACK BEATTIE USA
1:20.62 BILL EARLEY USA
1:21.04 KOICHI SATO JPN
1:21.61 JERRY GLANCY USA
1:22.44 HUGH CUMBERFORD GBR
1:22.85 GUNTER KOBOW GER
1:23.44 MIKIYA HATTA JPN
1:23.54 ISAO KOYAMA JPN
200 M. BACK
2:50.31 JOHN SMITH USA
2:54.79 JERRY GLANCY USA
2:58.48 E.NODENSCHNEIDER FRA
2:58.91 JACK BEATTIE RUS
3:01.21 TOM WALKER GBR
3:01.63 NIC GEERS NED
3:05.68 CHRIS BELL AUS
3:06.57 HOKAN WASSDAHL SWE
3:08.25 BILL EARLEY USA
3:08.40 ANTHONY PEPPER GBR
50 M. BRST
35.66 HIROSHI KOTEGAWA JPN
36.85 TAI-CHUN FU HKG
36.89 BE'LA FA'BIA'N HUN
37.08 GUNTER SCHMAH GER
37.11 Y.TSUKAMOTO JPN
37.29 TOSHIO KOGA JPN
37.50 GUNTER TITTES GER
37.50 AKIO SUGIYAMA JPN
37.86 STANLEY CLARKE GBR
37.91 BERND WUNSCHE GER
100 M. BRST
1:22.91 BE'LA FA'BIA'N HUN
1:23.99 GUNTER SCHMAH GER
1:24.74 BOB PATTEN USA
1:25.60 KAZUYA NISHINO JPN
1:25.69 ROLAND SCHONHAAR GER
1:25.76 TOM WALKER GBR
1:25.88 PETER BELL CAN
1:26.32 C SIBILLE FRA
1:26.45 RINALDO FERREIRA BRA
1:26.74 JURGEN SCHUBERT GER
200 M. BRST
3:07.24 KAZUYA NISHINO JPN
3:08.82 TOM WALKER GBR
3:09.06 BE'LA FA'BIA'N HUN
3:11.19 GUNTER SCHMAH GER
3:11.84 HARTMUT LEMCKE GER
3:12.25 PETER BELL CAN
3:13.30 BOB PATTEN USA
3:13.68 MAURICE DEMESSINE FRA
3:13.94 IAN CHRISTIE CAN
3:14.52 HANS REICHELT GER
50 M. FLY
30.85 BERT PETERSEN USA
31.01 JEFF FARRELL USA
31.19 JOHN SMITH USA
31.19 TAI-CHUN FU HKG
31.59 KAZUYA NISHINO JPN
32.12 CAV CAVANAUGH USA
32.14 KAZUYOSHI TAKECHI JPN
32.15 LUIS R SIMI BRA
32.20 WOLFGANG SIEBER GER
32.29 PETER BERGGENGREN SWE
100 M. FLY
1:14.25 BERT PETERSEN USA
1:15.29 WERNER SCHNABEL GER
1:15.38 ERNIE LESKOVITZ USA
1:15.61 DAVID CUMMING GBR
1:16.06 LUIS R SIMI BRA
1:16.90 WILLIAM TIMKEN USA
1:19.07 GUNTER SCHMAH GER
1:19.91 DAVID MCLACHLAN RSA
1:21.10 WILLIAM LAUER USA
1:21.46 TADAHIKO SAKATANI JPN
200 M. FLY
2:59.31 DAVID CUMMING GBR
3:01.14 DAVID MCLACHLAN RSA
3:05.53 WILLIAM TIMKEN USA
3:06.56 GUNTER SCHMAH GER
3:07.44 RUDI BECKER GER
3:12.38 MARIAN RACZYNSKI POL
3:14.68 TADAHIKO SAKATANI JPN
3:17.29 WILLIAM LAUER USA
3:22.44 HIROSHI YAMAMURA JPN
3:22.45 GIANFRANCO OLIA ITA
200 M. I.M.
2:46.41 JEFF FARRELL USA
2:50.73 HARUTOSHI KARIMA JPN
2:50.96 BE'LA FA'BIA'N HUN
2:54.37 ERNIE LESKOVITZ USA
2:54.86 TOSHIHIRO HAYASHI JPN
2:58.16 WILLIAM TIMKEN USA
2:59.08 CHRIS BELL AUS
2:59.65 DAVID MCLACHLAN RSA
3:00.16 TOM WALKER GBR
3:00.42 A.GALINDO MEX
400 M. I.M.
6:27.92 MARIAN RACZYNSKI POL
6:28.89 DAVID MCLACHLAN RSA
6:30.85 CHRIS BELL AUS
6:31.62 NIC GEERS NED
6:31.96 WILLIAM TIMKEN USA
6:33.14 RUDI BECKER GER
6:37.98 TOM WALKER GBR
6:38.58 GIANFRANCO OLIA ITA
6:41.32 WILLIAM LAUER USA
6:42.33 A.GALINDO MEX

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M E N 65-69
****
50 M. FREE
28.04 RONALD JOHNSON USA
29.49 YOSHI OYAKAWA USA
29.67 SHINGO YAMAMOTO JPN
29.77 CHUCK BALDWIN USA
30.42 JL LE DALL FRA
30.50 RUDOLF VAN ESS GER
30.68 MASAYASU KAMIYA JPN
30.68 GRAHAM JOHNSTON USA
30.76 JOHN GRAVE CAN
30.89 ILO FONSECA BRA
100 M. FREE
1:04.55 ROBERTO ALBERICHE ESP
1:07.77 SHINGO YAMAMOTO JPN
1:09.32 EROS STELLA ITA
1:10.04 CHUCK BALDWIN USA
1:10.20 YOSHI OYAKAWA USA
1:10.34 GRAHAM JOHNSTON USA
1:10.57 MIKE KRAEUTER USA
1:10.85 HITOSHI KATO JPN
1:11.43 JOHN GRAVE CAN
1:11.62 PETER VAN DIJK USA
200 M. FREE
2:26.70 GRAHAM JOHNSTON USA
2:27.73 ROBERTO ALBERICHE ESP
2:36.96 SHINGO YAMAMOTO JPN
2:37.23 EROS STELLA ITA
2:38.12 HITOSHI KATO JPN
2:40.99 BOB BARRY AUS
2:41.58 BILL KING USA
2:42.57 WERNER MULLER GER
2:44.19 HERB KERN USA
2:44.54 KIYOJI AMANO JPN
400 M. FREE
5:07.95 GRAHAM JOHNSTON USA
5:43.86 SHINGO YAMAMOTO JPN
5:47.41 HITOSHI KATO JPN
5:47.51 JOSEF KREJCI SUI
5:48.58 BILL KING USA
5:48.92 WERNER MULLER GER
6:06.65 KATSURA SUZUKI JPN
6:08.54 R BURRELL GBR
6:09.10 JL LE DALL FRA
6:12.75 GERHARD SCHOLZ GER
800 M. FREE
10:45.90 GRAHAM JOHNSTON USA
11:45.56 JOSEF KREJCI SUI
12:17.58 WERNER MULLER GER
12:22.40 EROS STELLA ITA
12:23.60 BILL KING USA
12:43.10 DAVE ANDERSON USA
12:48.23 KEN KIMBALL USA
12:53.43 ROGER CAMPBELL USA
12:56.18 STEPHEN MULLINS USA
13:00.02 MASAYASU KAMIYA JPN
1500 M. FREE
20:17.61 GRAHAM JOHNSTON USA
23:26.50 EROS STELLA ITA
23:28.73 WERNER MULLER GER
24:23.15 DAVE ANDERSON USA
24:24.23 ROGER CAMPBELL USA
24:27.76 GERHARD SCHOLZ GER
24:29.23 MASAYASU KAMIYA JPN
24:31.70 THOMAS TAYLOR USA
24:52.27 KEN KIMBALL USA
25:13.36 MISAO AMANO JPN
50 M. BACK
35.13 S.SEKIKAWA JPN
35.28 YOSHI OYAKAWA USA
35.36 RONALD JOHNSON USA
37.43 CLARKE MITCHELL USA
37.55 DONALD BROWN USA
37.96 MASAYASU KAMIYA JPN
38.30 WERNER MULLER GER
38.99 JOHN GRAVE CAN
39.02 YOSHIHISA SONODA JPN
39.12 ROLF SCHADENBERG GER
100 M. BACK
1:17.68 YOSHI OYAKAWA USA
1:18.71 S.SEKIKAWA JPN
1:23.82 GRAHAM JOHNSTON USA
1:23.94 CLARKE MITCHELL USA
1:25.21 ROBERTO ALBERICHE ESP
1:25.95 PETER VAN DIJK USA
1:26.08 HORACE KNOWLTON USA
1:26.85 ILGEN FRITZ GER
1:28.03 RONALD JOHNSON USA
1:28.16 JOHN GRAVE CAN
200 M. BACK
2:51.19 S.SEKIKAWA JPN
2:56.36 DONALD BROWN USA
2:57.55 GRAHAM JOHNSTON USA
3:07.27 BOB BARRY AUS
3:08.84 CLARKE MITCHELL USA
3:13.51 JOHN GRAVE CAN
3:14.08 HORACE KNOWLTON USA
3:14.15 MICHIO KUBOTA JPN
3:15.10 FRITZ ILGEN GER
3:15.38 MANPEI SEINO JPN
50 M. BRST
36.42 MANUEL SANGUILY USA
36.75 RONALD JOHNSON USA
37.48 WERNER MULLER GER
38.18 VITEZSLAV SVOZIL CZE
39.24 TSUTOMU KAJIHARA JPN
39.40 BOB BEST USA
39.75 RUDOLF VAN ESS GER
39.86 YASUJIRO TAKEGAKI JPN
39.95 TSUTOMU ARAKAWA JPN
39.99 MYRON LOCKEY USA
100 M. BRST
1:24.16 MANUEL SANGUILY USA
1:25.46 RONALD JOHNSON USA
1:27.05 TSUTOMU KAJIHARA JPN

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

1:27.45 WERNER MULLER GER
1:28.16 JOHN KORTHEUER USA
1:29.01 RUDOLF VAN ESS GER
1:29.56 VITEZSLAV SVOZIL CZE
1:31.93 BOB BEST USA
1:32.90 JOACHIM HEROLD GER
1:33.09 TSUTOMU ARAKAWA JPN

200 M. BRST

3:10.23 RONALD JOHNSON USA
3:12.68 TSUTOMU KAJIHARA JPN
3:14.51 MANUEL SANGUILY USA
3:18.79 WERNER MULLER GER
3:21.15 DIETER LOELIGER AUS
3:22.90 SHUNSAKU TAKAHIRA JPN
3:26.63 VITEZSLAV SVOZIL CZE
3:27.24 RUDI VAN ESS GER
3:27.97 YASUSHI TANGE JPN
3:28.15 TSUTOMU ARAKAWA JPN

50 M. FLY

30.81 RONALD JOHNSON USA
32.75 JL LE DALL FRA
33.05 HERB KERN USA
33.40 MASAYASU KAMIYA JPN
33.42 TSUTOMU KAJIHARA JPN
33.88 WERNER MULLER GER
34.44 EDUARDO LEY ESP
34.49 JOHN KORTHEUER USA
35.19 CHUCK BALDWIN USA
35.52 CLARKE MITCHELL USA

100 M. FLY

1:16.85 RONALD JOHNSON USA
1:20.76 WERNER MULLER GER
1:20.76 ROBERTO ALBERICHE ESP
1:23.05 MASAYASU KAMIYA JPN
1:25.39 HEINZ KRAUSS GER
1:26.31 SEYMOUR BANNING GBR
1:28.28 EDUARDO LEY ESP
1:28.74 NIVALDO GONCALVES BRA
1:28.87 HERB KERN USA
1:31.45 GRAHAM JOHNSTON USA

200 M. FLY

3:12.68 WERNER MULLER GER
3:20.21 SEYMOUR BANNING GBR
3:23.91 HEINZ KRAUSS GER
3:24.25 HERB KERN USA
3:29.96 MASAYASU KAMIYA JPN
3:30.42 JOSEF KREJCI SUI
3:37.29 EDUARDO LEY ESP
3:41.69 MANUEL SANGUILY USA
3:45.70 MANFRED BICKEL GER
3:46.00 JORG FAUST GER

200 M. I.M.

2:50.18 RONALD JOHNSON USA
2:56.44 GRAHAM JOHNSTON USA
3:03.00 TSUTOMU KAJIHARA JPN
3:04.19 WERNER MULLER GER
3:05.05 DIETER LOELIGER AUS
3:06.31 HERB KERN USA
3:06.47 MASAYASU KAMIYA JPN
3:09.02 BOB BEST USA
3:11.40 JOSEF KREJCI SUI
3:12.81 R BURRELL GBR

400 M. I.M.

6:21.18 GRAHAM JOHNSTON USA
6:44.98 DIETER LOELIGER AUS
6:46.20 WERNER MULLER GER
6:51.06 JOSEF KREJCI SUI
6:59.25 MASAYASU KAMIYA JPN
7:07.42 HERB KERN USA
7:09.40 HORACE KNOWLTON USA
7:11.32 HEINZ KRAUSS GER
7:20.93 JORG FAUST GER
7:24.38 JOHN BLECK USA

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M E N 70-74
****

50 M. FREE

30.19 TAKAHIKO NOMA JPN
31.21 ZENJI NAKAHARI JPN
31.88 FRANK PIEMME USA
32.27 SHOICHI SHIDA JPN
32.39 AL CRAIG USA
32.67 ROBERT BLAKE USA
32.78 RODNEY BAKER AUS
32.85 ALLEN MILES GBR
33.31 BOB HERITIER USA
33.44 JESUS DOMINGUEZ ESP

100 M. FREE

1:11.71 WILLIAM PHILLIPS USA
1:12.90 SHOICHI SHIDA JPN
1:13.24 JESUS DOMINGUEZ ESP
1:14.58 HIROSHI YOSHIMURA JPN
1:15.77 TOSHIO SHIMIZU JPN
1:15.87 TAKAHIKO NOMA JPN
1:16.39 AL CRAIG USA
1:17.00 ROBERT BLAKE USA
1:17.68 FRANK PIEMME USA
1:18.32 WILLIAM IRWIN USA

200 M. FREE

2:37.00 WILLIAM PHILLIPS USA
2:45.07 HIROSHI YOSHIMURA JPN
2:52.68 WINTHROP WILSON USA
2:54.00 TOSHIO SHIMIZU JPN
2:57.44 D.CASOLINO ITA
2:58.07 BOB HERITIER USA
2:58.12 WILLIAM IRWIN USA
2:58.97 FRANK PIEMME USA
3:00.90 RICHARD HARTLEY AUS
3:01.87 J ZIEGLER CZE

400 M. FREE

5:40.41 WILLIAM PHILLIPS USA
5:49.02 HIROSHI YOSHIMURA JPN
5:50.28 ROGER FRANKS USA
6:00.25 JESUS DOMINGUEZ ESP
6:04.22 WINTHROP WILSON USA
6:16.99 VALENTIN WEBER GER
6:18.51 D.CASOLINO ITA
6:21.25 BOB HERITIER USA
6:23.96 RICHARD HARTLEY AUS
6:24.53 FRANK PIEMME USA

800 M. FREE

12:06.30 WILLIAM PHILLIPS USA
12:08.92 ROGER FRANKS USA
13:02.07 D.CASOLINO ITA
13:04.79 VALENTIN WEBER GER
13:07.91 ROBERT HERITIER USA
13:34.12 JAN ZIEGLER CZE
13:42.33 GERHARD GROSSER GER
13:44.68 WILLIAM IRWIN USA
13:46.73 MINORU NAGASHIMA JPN
14:10.49 FRED TRASK USA

1500 M. FREE

22:59.14 ROGER FRANKS USA
24:46.94 VALENTIN WEBER GER
25:26.30 DOMENICO CASOLINO ITA
25:30.62 ROBERT HERITIER USA
26:04.33 MINORU NAGASHIMA JPN
26:35.43 GERHARD GROSSER GER
26:40.57 LEE ARTH USA
27:01.13 ELMER LUKE USA
27:08.76 TOM MAINE USA
27:22.29 FRED TRASK USA

50 M. BACK

39.43 SHOICHI SHIDA JPN
39.46 PAUL HUTINGER USA
39.64 K.KLAUSTERMEYER GER
40.35 THOMAS SMITH USA
41.00 JESUS DOMINGUEZ ESP
41.07 MAX VAN GELDER NED
41.72 FRANK CAMPBELL USA
41.80 G.SHIMOMOTO JPN
42.04 DALE WEBSTER USA
42.58 F.YANAGISAWA JPN

100 M. BACK

1:24.50 ROGER FRANKS USA
1:27.89 PAUL HUTINGER USA
1:29.21 SHOICHI SHIDA JPN
1:30.44 THOMAS SMITH USA
1:33.12 FRANK CAMPBELL USA
1:33.53 ZENJI NAKAHARI JPN
1:33.71 SHOICHI NAKAGAWA JPN
1:34.20 G.SHIMOMOTO JPN
1:35.11 J ZIEGLER CZE
1:35.45 DALE WEBSTER USA

200 M. BACK

3:23.03 HELMUT KUNZEL GER
3:23.26 SHOICHI NAKAGAWA JPN
3:25.57 G.SHIMOMOTO JPN
3:25.83 PAUL HUTINGER USA
3:26.36 KARL HAUTER GER
3:29.55 TAKEO HIROTSU JPN
3:34.60 J ZIEGLER CZE
3:35.30 FRANK CAMPBELL USA
3:35.50 TED HAARTZ USA
3:37.03 RALPH COXHEAD USA

50 M. BRST

40.35 EDUARDO MARTINEZ ARG
40.41 TOSHIO TAJIMA JPN
40.63 ZENJI NAKAHARI JPN
41.26 JIM GREEN GBR
41.33 KARL-HEINZ KNOPS GER
41.45 ROBERT PFERSDORFF GER
42.35 WERNER KRAUSE GER
42.75 ESKO SALONEN FIN
42.82 JAROSLAV HOLY SVK
42.99 KARL HAUTER GER
42.99 RYUJI HASHIMOTO JPN

100 M. BRST

1:32.46 EDUARDO MARTINEZ ARG
1:32.74 ROBERT PFERSDORFF GER
1:33.75 ZENJI NAKAHARI JPN
1:36.14 AL CRAIG USA
1:36.21 KARL-HEINZ KNOPS GER
1:36.49 KARL HAUTER GER
1:36.71 ESKO SALONEN FIN
1:37.59 JAN ZIEGLER CZE
1:37.63 TOSHIO TAJIMA JPN
1:37.95 TED HAARTZ USA

200 M. BRST

3:27.29 KARL HAUTER GER
3:30.23 ESKO SALONEN FIN
3:32.60 AL CRAIG USA
3:35.32 EDUARDO MARTINEZ ARG
3:37.31 ZENJI NAKAHARI JPN
3:38.56 KARL HEINZ KNOPS GER
3:39.55 TED HAARTZ USA
3:42.70 J ZIEGLER CZE
3:44.34 FRANK PIEMME USA
3:45.34 JAROSLAV HOLY SVK

50 M. FLY

35.91 ZENJI NAKAHARI JPN
37.50 JOSEPH KURTZMAN USA
37.71 FRANK PIEMME USA
37.78 WINTHROP WILSON USA
38.34 THOMAS SMITH USA
38.95 DONALD HUBBARD USA
38.96 TOSHIO TAJIMA JPN
39.22 FRITZ KLAPPROTH GER
39.31 EDUARDO MARTINEZ ARG
39.34 KARL-HEINZ KNOPS GER

100 M. FLY

1:30.12 WINTHROP WILSON USA
1:30.48 JESUS DOMINGUEZ ESP
1:33.53 JOSEPH KURTZMAN USA
1:35.18 ROBERT PFERSDORFF GER
1:37.80 J ZIEGLER CZE
1:38.24 JAROSLAV HOLY SVK
1:38.25 CHIH-HUA HUANG TPE
1:39.59 KARL HEINZ KNOPS GER
1:40.90 MINORU NAGASHIMA JPN
1:41.36 M LUSIEN FRA

200 M. FLY

3:36.71 VALENTIN WEBER GER
3:41.96 JOSEPH KURTZMAN USA
3:42.70 KARL HEINZ KNOPS GER
3:45.92 ROGER FRANKS USA
3:46.79 MINORU NAGASHIMA JPN
3:48.69 JAROSLAV HOLY SVK
3:57.24 TOM MAINE USA
4:07.05 LUIS ASENSI ESP
4:23.71 BRUNO WEBER USA
4:40.45 NAGAHARU SUZUKI JPN

200 M. I.M.

3:11.16 JESUS DOMINGUEZ ESP
3:16.72 ROGER FRANKS USA
3:19.49 KARL HAUTER GER
3:20.64 ZENJI NAKAHARI JPN
3:22.70 JAN ZIEGLER CZE
3:26.25 FRANK PIEMME USA
3:27.89 KARL-HEINZ KNOPS GER
3:29.37 MAURICE LUSIEN FRA
3:30.17 EDUARDO MARTINEZ ARG
3:30.56 WILLIAM PHILLIPS USA

400 M. I.M.

7:09.14 ROGER FRANKS USA
7:10.37 VALENTIN WEBER GER
7:13.56 KARL HAUTER GER
7:21.91 MAURICE LUSIEN FRA
7:26.66 KARL HEINZ KNOPS GER
7:59.49 LUMAN SUTTON USA
7:59.53 TOM MAINE USA
8:01.23 TOM LOGAN NZL
8:25.33 LUIS ASENSI ESP
8:30.91 DALE WEBSTER USA

****
M E N 75-79
****

50 M. FREE

32.07 KEIJIRO NAKAMURA JPN
32.47 C.BRUNELLESCHI ITA
32.77 JOHN FLORANCE USA
33.08 HIDEAKI KATO JPN
33.14 JOHN DARU USA
33.62 SADAYUKI WAKAI JPN
34.32 ROGERS HOLMES USA
34.33 JURGEN SCHMIDT USA
34.50 ROGER HALIMI FRA
34.60 ANDREW HOLDEN USA

100 M. FREE

1:17.70 JOHN FLORANCE USA
1:19.84 KEVIN VICKERY AUS
1:20.11 JURGEN SCHMIDT USA
1:20.71 ANDREW HOLDEN USA
1:20.72 ROGER HALIMI FRA
1:21.71 STEVE WILKES AUS
1:24.69 HANS-JOACH JUNG GER
1:25.51 GILBERT YOUNG USA
1:26.53 BOB MERRICK USA
1:26.61 SHIGEMASA OKAJIMA JPN
1:26.61 JAMES EDWARDS USA

200 M. FREE

2:58.93 KEVIN VICKERY AUS
2:59.40 C.BRUNELLESCHI ITA
3:02.86 HIDEAKI KATO JPN
3:02.91 JURGEN SCHMIDT USA
3:07.41 STEVE WILKES AUS
3:08.04 RAYMOND TAFT USA
3:10.87 JAMES EDWARDS USA
3:14.77 YAHEI SAKOTA JPN
3:16.34 SHIGEMASA OKAJIMA JPN
3:17.45 JOHN FLORANCE USA

400 M. FREE

6:22.50 C.BRUNELLESCHI ITA
6:30.36 JURGEN SCHMIDT USA
6:31.01 KEVIN VICKERY AUS
6:39.80 STEVE WILKES AUS
6:42.91 HIDEAKI KATO JPN
6:50.36 JAMES EDWARDS USA
6:56.08 GILBERT YOUNG USA
7:04.56 KARL BAYERLEIN GER
7:04.93 DOMINIK KOZA GER
7:11.17 SHIGEMASA OKAJIMA JPN

800 M. FREE

13:29.15 JURGEN SCHMIDT USA
13:46.21 KEVIN VICKERY AUS
14:12.65 JAMES EDWARDS USA
14:20.18 RAYMOND TAFT USA
14:21.01 DOMINIK KOZA GER
14:22.64 STEVE WILKES AUS
14:27.78 HIDEAKI KATO JPN
14:40.19 GILBERT YOUNG USA
14:51.58 KARL BAYERLEIN GER
14:55.37 FRED TAIOLI USA

1500 M. FREE

26:00.48 JURGEN SCHMIDT USA
26:36.90 C.BRUNELLESCHI ITA
27:27.06 HIDEAKI KATO JPN
27:35.07 JAMES EDWARDS USA
27:43.77 KARL BAYERLEIN GER
27:46.81 RAYMOND TAFT USA
28:07.23 GILBERT YOUNG USA
28:16.42 FRED TAIOLI USA
29:25.00 TERRY KELLY AUS
29:31.45 RICHARD SMITH USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

50 M. BACK
37.51 KEIJIRO NAKAMURA JPN
40.73 MASAKI INABA JPN
41.13 GORO TANIGUCHI JPN
41.95 ROGERS HOLMES USA
42.60 RAYMOND TAFT USA
42.71 HORVATH BA'NKI HUN
43.01 HIDEAKI KATO JPN
43.44 ADIN MERROW USA
43.48 H.MIYAZAKI JPN
43.62 ERICH BIERSTEDT GER

100 M. BACK
1:26.00 KEIJIRO NAKAMURA JPN
1:34.05 GORO TANIGUCHI JPN
1:36.12 H.MIYAZAKI JPN
1:36.44 RAYMOND TAFT USA
1:37.02 ADIN MERROW USA
1:39.79 HORVATH BA'NKI HUN
1:42.96 KEVIN VICKERY AUS
1:43.34 F. CALAMITA ESP
1:44.24 ALEXANDER LAYLEE GBR
1:44.99 JAMIE JENKINS AUS

200 M. BACK
3:10.64 KEIJIRO NAKAMURA JPN
3:30.07 RAYMOND TAFT USA
3:30.74 ADIN MERROW USA
3:35.59 H.MIYAZAKI JPN
3:35.65 ROGERS HOLMES USA
3:45.66 KEVIN VICKERY AUS
3:45.70 JAMIE JENKINS AUS
3:47.08 B.HORVATH HUN
3:55.55 JAMES EDWARDS USA
3:55.60 JOHN BRICKER USA

50 M. BRST
46.23 MAX VON ISSER USA
46.53 LUDWIG GEBURZI GER
47.14 WALTER MINNICH GER
47.39 ISAO FUNAMOTO JPN
47.67 BOB MERRICK USA
47.86 TAKESHI YASUKAWA JPN
48.03 YOSHIO HAYASHI JPN
48.23 H.SCHEULEN GER
48.47 ERWIN HEINZL AUT
48.63 SIEGFRIED PANKOW GER

100 M. BRST
1:46.33 ISAO FUNAMOTO JPN
1:47.71 SIEGFRIED PANKOW GER
1:48.09 BOB MERRICK USA
1:49.58 LUDWIG GEBURZI GER
1:50.82 MAX VON ISSER USA
1:51.00 NORMAN GARSOE USA
1:52.31 AKIRA SUMIDA JPN
1:52.84 H.REITEMEYER GER
1:53.44 TAKESHI YASUKAWA JPN
1:54.04 RAYMOND HAKOMAKI USA

200 M. BRST
3:48.05 ISAO FUNAMOTO JPN
3:52.39 FERNANDO NAJERA MEX
4:00.04 SIEGFRIED PANKOW GER
4:00.04 BOB MERRICK USA
4:05.93 AKIRA SUMIDA JPN
4:06.12 NORMAN GARSOE USA
4:10.55 M.FURUKAWA JPN
4:14.14 H.REITEMEYER GER
4:15.74 FUKUJIRO YAMAZAKI JPN
4:17.89 WILLI WERNER GER

50 M. FLY
39.75 ANDREW HOLDEN USA
39.86 JURGEN SCHMIDT USA
40.15 KAKUICHI YANAGAWA JPN
40.35 ROGERS HOLMES USA
43.33 MAX VON ISSER USA
45.23 LUDWIG GEBURZI GER
45.34 RAYMOND TAFT USA
47.66 STUART SOMERVILLE AUS
47.95 SHIGEMASA OKAJIMA JPN
48.29 HEINZ UFER GER

100 M. FLY
1:43.58 ANDREW HOLDEN USA
1:58.78 JURGEN SCHMIDT USA
1:59.13 KEIICHI TOKUNAGA JPN
2:01.54 BOB MERRICK USA
2:03.73 EARL WALTER USA
2:04.97 RICHARD SMITH USA
2:05.98 DOMINIK KOZA GER
2:08.93 GERHARD DEGEN GER
2:10.42 FUKUJIRO YAMAZAKI JPN
2:11.97 LOUIS GIBERSON USA

200 M. FLY
4:23.27 FERNANDO NAJERA MEX
4:28.85 KEVIN VICKERY AUS
4:29.28 HIRONARI UEDA JPN
4:31.84 RICHARD SMITH USA
4:39.40 DOMINIK KOZA GER
4:55.00 ANTONIO FIGUEREDO ESP
4:58.71 GERHARD MITSCH GER
5:08.74 DENNIS JACKSON AUS
5:33.68 WILLIAM JOHNSTON USA
5:47.87 J BRINK RSA

200 M. I.M.
3:39.84 JURGEN SCHMIDT USA
3:41.48 RAYMOND TAFT USA
3:49.33 BOB MERRICK USA
3:52.67 KEVIN VICKERY AUS
4:00.42 FERNANDO NAJERA MEX
4:00.73 EARL WALTER USA
4:02.77 IMRE JUHASZ CAN
4:04.91 RICHARD SMITH USA
4:09.14 DOMINIK KOZA GER
4:11.33 HIRONARI UEDA JPN

400 M. I.M.
8:08.05 RAYMOND TAFT USA
8:20.88 FERNANDO NAJERA MEX
8:40.31 DOMINIK KOZA GER
8:55.64 HIRONARI UEDA JPN
9:00.99 DAN MILES USA
9:03.26 RICHARD SMITH USA
9:11.10 ANTONIO FIGUREDO ESP
9:22.44 IMRE JUHASZ CAN
9:46.64 FUKUJIRO YAMAZAKI JPN
10:00.21 TERRY KELLY AUS

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M E N 80-84
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50 M. FREE
34.03 SHOICHI SAKOMOTO JPN
36.21 JERRY SIEFERT USA
36.37 ALDO DA ROSA USA
36.57 M.VISENTIN ARG
36.80 JIM EUBANK USA
36.85 HIDEYA FUJII JPN
37.94 DENIS JOY AUS
38.32 BRUD CLEAVELAND USA
38.46 M.FUKUSHIMA JPN
38.51 GOUGH WILLIAMS AUS

100 M. FREE
1:24.77 M.VISENTIN ARG
1:29.45 HIDEYA FUJII JPN
1:29.91 RYUJI FUJIKAWA JPN
1:31.12 JERRY SIEFERT USA
1:31.68 DENIS JOY AUS
1:34.00 BOB CHRISTIANS USA
1:34.38 BRUD CLEAVELAND USA
1:36.41 GOUGH WILLIAMS AUS
1:37.10 SETSUO FUKUHARA JPN
1:37.61 ARTHUR THOMAS AUS

200 M. FREE
3:09.91 ALDO DA ROSA USA
3:21.07 HIKOJI UEKI JPN
3:23.95 JIM EUBANK USA
3:24.15 RYUJI FUJIKAWA JPN
3:30.28 M.VISENTIN ARG
3:30.59 TOKUSHI KOMEDA JPN
3:38.43 JERRY SIEFERT USA
3:39.41 BARNET PHILLIPS USA
3:40.37 JIM WELCH USA
3:43.24 KISABURO WADA JPN

400 M. FREE
7:04.71 ALDO DA ROSA USA
7:18.70 RYUJI FUJIKAWA JPN
7:28.78 M.VISENTIN ARG
7:39.01 JIM EUBANK USA
7:41.85 NILS FERM SWE
7:58.37 GIOVANNI DE SILVA ITA
8:07.16 KISABURO WADA JPN
8:24.96 OTTO KUTZ GER
8:35.73 LYNN SURLES USA
8:43.04 DEXTER WOODFORD USA

800 M. FREE
14:57.66 ALDO DA ROSA USA
15:50.92 M.VISENTIN ARG
16:33.84 NILS FERM SWE
18:10.34 DEXTER WOODFORD USA
18:18.24 JIM TRIOLO USA
18:29.56 JOHN WOODS USA
19:03.14 DES SESSINGHAUS USA
19:14.38 HOWARD HOLMES NZL
19:55.69 GARY WEISENTHAL USA
21:13.44 ROBERT FREEMAN USA

1500 M. FREE
28:13.09 ALDO DA ROSA USA
32:06.80 GIOVANNI DE SILVA ITA
32:47.30 JOHN MERRILL USA
34:18.43 DEXTER WOODFORD USA
35:28.31 HOWARD HOLMES NZL
35:37.98 DES SESSINGHAUS USA
35:46.72 JOHN WOODS USA
35:52.91 ERNEST CLEMETT GBR
36:45.56 GARY WEISENTHAL USA
43:13.61 P LAIGLE FRA

50 M. BACK
40.71 SHOICHI SAKOMOTO JPN
42.96 GORO KOBAYASHI JPN
44.76 ALDO DA ROSA USA
44.82 TOSHIJI SATO JPN
47.83 M.FUKUSHIMA JPN
47.85 NILS FERM SWE
48.10 GERHARD HEIN GER
49.27 SHIRO ISHIKAWA JPN
49.44 JERRY SIEFERT USA
49.45 WILLI WINDEL GER

100 M. BACK
1:36.95 GORO KOBAYASHI JPN
1:38.34 SHOICHI SAKOMOTO JPN
1:42.54 ALDO DA ROSA USA
1:43.47 TOSHIJI SATO JPN
1:47.91 WILLI WINDEL GER
1:48.32 GERHARD HEIN GER
1:49.75 JOHN MERRILL USA
1:54.04 NILS FERM SWE
1:54.20 SHOJI MIZUTA JPN
1:54.96 RYUJI FUJIKAWA JPN

200 M. BACK
3:42.35 GORO KOBAYASHI JPN
3:47.42 TOSHIJI SATO JPN
3:51.29 WILLI WINDEL GER
3:52.19 C.SCHERER GER
3:58.18 JOHN MERRILL USA
4:00.84 RYUJI FUJIKAWA JPN
4:04.64 NILS FERM SWE
4:13.85 KISABURO WADA JPN
4:14.78 TOKUSHI KOMEDA JPN
4:17.90 ARTHUR THOMAS AUS

50 M. BRST
43.62 Y.MIYAMOTO JPN
48.47 PAUL KRUP USA
48.48 BOB CHRISTIANS USA
49.01 ALDO DA ROSA USA
49.89 BRUD CLEAVELAND USA
50.50 ROY ROMAIN GBR
50.65 HIROMU YOSHIMOTO JPN
50.95 MASAHARU HAMANO JPN
51.84 WILLI WINDEL GER
52.55 BENNETT ALLEN USA

100 M. BRST
1:46.40 Y.MIYAMOTO JPN
1:47.10 ALDO DA ROSA USA
1:57.68 PAUL KRUP USA
2:01.40 BRUD CLEAVELAND USA
2:02.84 WILLI WINDEL GER
2:04.47 ROY ROMAIN GBR
2:08.89 MASAHARU HAMANO JPN
2:09.69 MURRAY EAGER USA
2:10.76 HANS MORSCHER AUT
2:11.66 RUSS WITTE USA

200 M. BRST
3:55.20 AUGUSTO ROMANO ITA
4:00.64 ALDO DA ROSA USA
4:13.77 Y.MIYAMOTO JPN
4:14.75 PAUL KRUP USA
4:27.49 E DON MCCULLOUGH USA
4:28.56 BRUD CLEAVELAND USA
4:33.85 ROY ROMAIN GBR
4:36.47 HANS MORSCHER AUT
4:43.29 RUSS WITTE USA
4:43.74 WALTER PFEIFFER USA

50 M. FLY
42.22 Y.MIYAMOTO JPN
47.99 GERHARD HEIN GER
48.70 PAUL KRUP USA
51.27 ALDO DA ROSA USA
52.17 ROY ROMAIN GBR
52.28 WILLIAM JOHNSTON USA
52.81 BOB CHRISTIANS USA
54.31 TOKUSHI KOMEDA JPN
55.12 WALTER PFEIFFER USA
56.85 E DON MCCULLOUGH USA

100 M. FLY
1:58.01 ALDO DA ROSA USA
2:04.58 PAUL KRUP USA
2:09.82 WALTER PFEIFFER USA
2:15.17 WILLIAM JOHNSTON USA
2:32.85 E DON MCCULLOUGH USA
2:40.86 ALFRED ALVAREZ AUS
2:52.68 ERNEST CLEMMETT GBR
2:54.71 GEORGE RAFTER USA

200 M. FLY
4:11.09 ANTON CERER USA
4:31.44 ALDO DA ROSA USA
4:41.28 PAUL KRUP USA
4:54.40 WALTER PFEIFFER USA
5:25.53 E DON MCCULLOUGH USA
5:48.02 WILLIAM JOHNSTON USA
6:05.63 GEORGE RAFTER USA
6:19.74 ALFRED ALVAREZ AUS

200 M. I.M.
3:43.82 ALDO DA ROSA USA
3:54.57 ANTON CERER USA
4:22.36 WALTER PFEIFFER USA
4:23.96 BOB CHRISTIANS USA
4:27.79 TOKUSHI KOMEDA JPN
4:40.32 HEINZ SIEGEL GER
4:42.79 WERNER HAHN GER
4:44.60 KISABURO WADA JPN
4:46.14 WILLIAM JOHNSTON USA
4:47.13 AL ALVAREZ GBR

400 M. I.M.
8:14.86 ALDO DA ROSA USA
9:32.41 WALTER PFEIFFER USA
10:17.57 E DON MCCULLOUGH USA
10:32.47 WILLIAM JOHNSTON USA
10:33.10 AL ALVAREZ GBR
11:03.37 GEORGE RAFTER USA
11:37.87 ERNEST CLEMMETT GBR

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M E N 85-89
****

50 M. FREE
35.77 WOODROW BOWERSOCK USA
39.00 AKIHIKO NAKAMURA JPN
41.68 MASAHISA KANEKO JPN
41.84 MASAO UEDA JPN
41.99 R.REINSTADTLER GER
43.10 KAZUNAGA AKUTSU JPN
44.40 KOTARO KAMIMAE JPN
44.76 WILLIAM GRANT USA
45.40 NOBUO USHIMI JPN
45.60 SHOGORO AZUMA JPN

100 M. FREE
1:27.61 WOODROW BOWERSOCK USA
1:39.20 AKIHIKO NAKAMURA JPN
1:40.34 HIROSHI SAIGO JPN
1:40.96 MASAO UEDA JPN
1:41.65 MASAHISA KANEKO JPN
1:51.75 KAZUNAGA AKUTSU JPN
1:52.24 NOBUO USHIMI JPN
1:57.20 HERBERT HOWE USA
1:57.66 WALTER STEEB GER
1:58.56 DAVE MALBROUGH USA

200 M. FREE
3:45.35 WOODROW BOWERSOCK USA
4:02.96 MASAHISA KANEKO JPN
4:08.30 NOBUO USHIMI JPN
4:27.16 DAVE MALBROUGH USA

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FINA WORLD MASTERS TOP 10 - LONG COURSE METERS 1998

4:27.97 FRED WALBOLT USA
4:46.93 JARING TIMMERMAN CAN
4:47.61 GHERARDO ZAMORANI ITA
4:47.69 J.CARDENAL FRA
4:50.61 C CABLE RSA
4:55.84 TEX ROBERTSON USA
400 M. FREE
8:58.07 WOODROW BOWERSOCK USA
9:05.48 NOBUO USHIMI JPN
9:24.56 FRED WALBOLT USA
9:46.28 GHERARDO ZAMORANI ITA
10:00.78 DAVE MALBROUGH USA
10:10.73 J.CARDENAL FRA
10:27.87 JARING TIMMERMAN CAN
10:47.64 C CABLE RSA
10:52.86 TEX ROBERTSON USA
11:19.51 ALEX CLARKE AUS
800 M. FREE
18:57.97 WOODROW BOWERSOCK USA
20:12.13 HERBERT HOWE USA
20:30.35 GHERARDO ZAMORANI ITA
20:31.00 J.CARDENAL FRA
21:30.13 NOBUO USHIMI JPN
22:02.00 ROY HODGES GBR
22:34.04 JARING TIMMERMAN CAN
23:08.90 C CABLE RSA
25:21.16 EUGENE LEHMAN CAN
1500 M. FREE
37:57.02 DAVE MALBROUGH USA
38:33.30 HERBERT HOWE USA
39:04.53 FRED WALBOLT USA
39:11.20 GHERARDO ZAMORANI ITA
39:36.25 J DE CARDENAL FRA
40:49.36 NOBUO USHIMI JPN
50 M. BACK
50.11 MASAHISA KANEKO JPN
50.96 R.REINSTADTLER GER
52.68 SHOGORO AZUMA JPN
53.24 DAVE MALBROUGH USA
53.35 MASAO UEDA JPN
55.41 KAZUNAGA AKUTSU JPN
56.00 WOODROW BOWERSOCK USA
58.39 MITSUGU KONO JPN
58.40 WILLIAM GRANT USA
58.95 WERNER RASCH GER
100 M. BACK
2:02.30 R.REINSTADTLER GER
2:03.89 MASAO UEDA JPN
2:05.27 DAVE MALBROUGH USA
2:11.45 SHOGORO AZUMA JPN
2:20.17 WILLIAM GRANT USA
2:22.86 WOODROW BOWERSOCK USA
2:24.70 GHERARDO ZAMORANI ITA
2:25.34 GERHARD LESSING GER
2:25.63 WALTER SEIFERT GER
2:31.87 ROY ERLANDSON USA
200 M. BACK
4:29.22 R.REINSTADTLER GER
4:35.96 MASAO UEDA JPN
4:44.27 DAVE MALBROUGH USA
5:15.14 GHERARDO ZAMORANI ITA
5:18.89 ROY HODGES GBR
5:42.37 ROY ERLANDSON USA
5:45.49 J DE CARDENAL FRA
5:59.55 FRED WALBOLT USA
6:01.77 A CADENHEAD RSA
6:03.34 TEX ROBERTSON USA
50 M. BRST
1:00.51 ARNO SCHUBLER GER
1:03.23 KARL WITTENBERG GER
1:03.81 WALTER SEIFERT GER
1:05.42 WALTER STEEB GER
1:08.97 RENE HOERTH FRA
1:10.38 PASQUALE PIZZI ITA
1:11.20 HERMANN DEUTZMANN GER
1:12.15 GERHARD LESSING GER
1:13.93 DAVE MALBROUGH USA
1:16.51 WERNER ENGELMANN GER
100 M. BRST
2:22.87 ARNO SCHUBLER GER
2:33.49 WALTER STEEB GER
2:42.81 RENE HOERTH FRA
2:52.10 WILLIAM GRANT USA
2:56.09 A CADENHEAD RSA
2:56.85 JESSE COON USA
3:00.56 G PICARD FRA
3:03.40 ROY HODGES GBR
3:15.75 LARRY HART USA
3:58.75 RYOZO TSUJI JPN
200 M. BRST
6:23.23 ROY HODGES GBR
6:36.25 JESSE COON USA
6:56.73 G PICARD FRA
7:42.18 LARRY HART USA
8:25.75 RYOZO TSUJI JPN
9:09.94 A CADENHEAD RSA
50 M. FLY
1:06.31 R.REINSTADTLER GER
1:10.67 JESSE COON USA
1:12.02 NOBUO USHIMI JPN
1:40.45 HARUO ENDO JPN
1:44.35 EUGENE LEHMAN CAN
100 M. FLY
3:09.62 NOBUO USHIMI JPN
3:30.85 JESSE COON USA
200 M. FLY
7:49.71 JESSE COON USA
200 M. I.M.
6:21.89 JESSE COON USA

****
M E N 90-94
****
50 M. FREE
1:00.14 ALFREDO CHERCHI AUS
1:02.46 FRITZ MONKE GER
1:18.87 JOHN MCBRIDE CAN
1:18.87 JACK MCBRIDE CAN
1:20.03 GEORGES SEJOURNE FRA
1:20.72 HANS HAHN GER
1:26.78 ERNIE WEBSTER AUS
1:31.46 JIM WALKER AUS
1:37.87 HAROLD HOFFMAN USA
100 M. FREE
2:14.96 ALFREDO CHERCHI AUS
2:55.31 JIM PENFIELD USA
3:05.27 GEORGES SEJOURNE FRA
3:09.22 JOHN MCBRIDE CAN
3:09.22 JACK MCBRIDE CAN
3:53.41 HAROLD HOFFMAN USA
200 M. FREE
5:01.85 ALFREDO CHERCHI AUS
50 M. BACK
1:03.20 JIM PENFIELD USA
1:10.21 FRITZ MONKE GER
1:31.91 JOHN MCBRIDE CAN
1:49.61 HANS HAHN GER
1:53.21 ERNIE WEBSTER AUS
1:59.92 JACK MCBRIDE CAN
2:14.84 JIM WALKER AUS
100 M. BACK
2:30.11 JIM PENFIELD USA
2:30.61 FRITZ MONKE GER
2:44.32 ALFREDO CHERCHI AUS
200 M. BACK
5:48.64 ALFREDO CHERCHI AUS
50 M. BRST
1:09.65 HANS PAUL GER
1:09.80 JIM PENFIELD USA
1:43.84 JOHN MCBRIDE CAN
1:53.82 JIM WALKER AUS
100 M. BRST
2:39.02 HANS PAUL GER
3:23.14 JOAO P.ROSA BRA
4:17.84 JOHN MCBRIDE CAN
4:17.84 JACK MCBRIDE CAN
50 M. FLY
1:26.07 JIM PENFIELD USA
200 M. I.M.
7:02.80 JIM PENFIELD USA

****
M E N 95-99
****
50 M. FREE
55.88 GUS LANGNER USA
100 M. FREE
2:29.32 GUS LANGNER USA
200 M. FREE
5:13.23 GUS LANGNER USA
400 M. FREE
11:30.53 GUS LANGNER USA
800 M. FREE
22:28.28 GUS LANGNER USA
50 M. BACK
1:56.25 GUS LANGNER USA
50 M. BRST
1:26.61 GUS LANGNER USA
100 M. BRST
3:38.45 GUS LANGNER USA
200 M. BRST
7:37.17 GUS LANGNER USA

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M E N 100-104
****
****
RELAYS: WOMEN 200 M. FREE
****
AGE 100-119
HSG GER 1:59.22
HEIDE JAHN
S.HAMMERSDORFER
ANETT EHLERT
KATHRIN GERDNUN
SC WESTERBACH E GER 2:00.47
ANOUSCHKA POHL
ANGELA POHL
BARBARA FRAATZ
SANDRA FRAATZ
GOLD USA 2:02.58
LINDA HAUS
BRENDA TOMTAN
MICHELL SCHRAER
MARY GARDNER
DEISUIKAI JPN 2:03.41
YUMI HAYASHI
MAMI OSUMI
CHIFUMI YAMAGA
MIKI YAGI
WV WUNSTORF GER 2:03.83
CORINNA KRIETSCH
SYLVIA HAAK
WEHRENBERG-STOCK
BIRGIT GIESECKE
C.R.ICARAI BRA 2:03.88
ADRIANA PICANCO
ADRIANA GERALDES
ALINE PESSOA
FERNANDA SILVA
OLDENBURGER SV GER 2:04.48
SILVIA KESSEN
ULRIKE KOHLGRUBER
KIRSTEN PACHE
ELLEN PACHE
FUJITA DN JPN 2:04.82
KAZSUE MAETOGE
YOSHIKO YANAGAWA
SHOKO OKAZAKI
KYOKO IKEMOTO
BRASILIA MASTER BRA 2:06.97
LILIAN BAPTISTA
MIRIAN GOMES
PAULA CARVALHO
FLAVIA CANTAL
SV NEVIGES GER 2:07.60
SILKE KLOSTMANN
SONJA PLEIN
J.HOLITZKA
SONJA GRABOWSKI

AGE 120-159
GOLD USA 1:53.10
JAMI HERRINGTON
CHRISTENA PAZOS
SUSIE GEYER
TRACIE MOLL
SPM USA 1:55.70
LISA SUMMERS
ANDREA NAUTA
CATH SHONKWILER
CHARLO PETERSEN
RMM USA 1:58.23
KATHY GARNIER
AURA MCKEEVER
JENNIFER ROCKE
LAUREEN WELTING
SG WISTE GER 1:58.76
MARTINA HOMEYER
CLAUDIA LIPSKI
JANA HEIDEMANN
KARIN SEICK
HSG ROSTOCK GER 1:59.17
SG SOLINGEN GER 2:02.03
BETTINA HUTZ
DUNJA VOOS
ANTJE BRISKOT
PETRA BOHNEN
SG BSC ROBBEN/V GER 2:02.73
ANDREA HALBACH
REGINA DOBSCHIN
JULIANE GUNSTHEIM
S.FELGENTRAGER
EN TOURS FRA 2:03.89
MARCADETH
BEUCHER FEZAR
HUMBERT
LE NOACH
SWIM USA 2:04.91
MICHELLE SUTTON
MARTHA LIGGETT
ADRIENNE SEAL
LIZ BURCHETT
HANSA DORTMUND GER 2:05.18
GERTI WALLENTIN
RENATE CHRIST
UTE CIMDINS
KAJA PISTEL

AGE 160-199
TTEX USA 1:58.76
SA NEILSON-BELL
JUDY LAMBERT
JANN GIRARD
SHARON WENCEL
NEM USA 2:02.56
CONSTAN HALLETT
KA NISLEY-BLACK
TRACY GRILLI
JACKI HIRSTY
VMST USA 2:03.39
TERRY GAULT
LISA BENNETT
PATTY POWIS
BETH BAKER
VIC CAN 2:03.91
ARHOD
PBANS
DBRAU
JWOOD
LAKESIDE MASTER USA 2:06.27
AMY POPE
PAM MARTIN
MELINDA SCHMITT
A WRIGHT-BELKNAP
BUDS HUN 2:08.16
MAGDOLNA PATO'H
JUDIT BARANYI
IRE'N MONDI
CSILLA CSIKA'NY
SPM USA 2:09.66
JUDY TIBMA
MELISSA DIPPLE
JOANN HARRELSON
TRICIA MOSES
SOMERSET AUS 2:10.32
KAYE VALLANCE
PAULINE KRUMINS
LYNNE WRIGHT
JANE MITCHELL
STMASTERSKANSAI JPN 2:10.56
FUSAKO HIROOKA
YOSHIKO OSAKI
YOSHIE OSAKI
YUKIKO SAITO

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LUBECK GER 2:11.57
SILKE KNUPPEN
KERSTIN THOMAS
SIEGRID KURTZ
ANDREA WULF

AGE 200-239
NEUKOLLN BERLIN GER 2:13.62
MARGA SCHULZE
MONIKA SENFTLEBEN
BRIGITTE MERTEN
ELKE SCHARP
SWIM USA 2:16.84
DEB WALKER
JEAN GARBUS
LYNN CARTEE
MARTHA DODD
GOLD USA 2:17.71
JANET ZANN
DEBBI CAVANAUGH
JUNE KRAUSER
GAIL RICE
GOLD USA 2:18.85
MARCIA BARRY
JEAN TURNER
MARGARET DWYER
MEG MAY
MAZCAL SC JPN 2:20.25
HISAKO SATO
TOKIKO SAKAO
KAZUKO ITO
MIKI AIHARA
OREG USA 2:22.64
MONIKA HUNSCHER
JACKIE QUATTRO
ALICE ZABUDSKY
SANDI ROUSSEAU
HAKUYO S JPN 2:23.59
CHIEKO HIGASHI
FUMIKO NAKAMURA
CHIYOMI GENBA
HIROKO MASHIKO
FU JPN 2:23.66
HIROKO NAKAGAWA
KYOKO ITO
KYOKO MAEDA
TAKAKO OKUBO
ISLANDTAKATSUKI JPN 2:23.67
NOBUKO NITTA
KIYOKO IKEUCHI
MICHIKO OTO
MASAKO USUI
C.P.MORUMBY BRA 2:23.76
THEMIS PIRES
ELIANA MACIA
LEONOR OLIVEIRA
ALSINA CAETANO

AGE 240-279
DCM USA 2:18.70
BARBARA FRID
JOANN LEILICH
BARBAR ZAREMSKI
JAYNE BRUNER
NIC S.S. JPN 2:34.19
YURI SUETSUGU
MIDORI TARUMI
ETSUKO HANAHARA
YURIKO HIRASAWA
ISLANDTAKATSUKI JPN 2:34.26
HIDEKO NAITO
KEIKO FUJIMOTO
KIYOKO IKEUCHI
KAZUE OZAKI
DUSSELDORF GER 2:35.92
BIRGIT OSSELMANN
INGRID LANGE
HELGA KAISER
U.MEYER-TONDORF
FLUMINENSE F.C. BRA 2:38.07
MARCIA BORELLI
ENEDINA PEREIRA
ENA BOGHOSSIAN
MARIA H.PADILLA

SEVEN CITY ATHL JPN 2:38.84
YOTSUKO TASHIRO
MITSUKO ENDO
YIKIKO MATSUBARA
KAZUKO MACHIDA
CONN USA 2:39.11
CHRISTIE HAYES
MARGIT JEBE
ANN LOUISE ONTON
DOROTH DONNELLY
FLIPPER SS JPN 2:39.33
TOMIKO ITO
MITSUKO KOMURO
FUSAKO ENOMOTO
TSUYO MINEZAKI
LEISURE COAST AUS 2:41.07
JUNE GRANZIERA
ROBIN HENZE
JILL COOK
CATHERINE TULLOH
C.N.MASPALOMAS ESP 2:41.49

AGE 280-319
KAWASAKI ITOMAN JPN 2:51.68
MIEKO KAMOSHITA
AKIKO HATTORI
MIDORI KINJO
KIYOKO KOZU
SAPPORO AC JPN 2:57.32
UMEKO KUWAHARA
TOMI GOTO
MIKIKO HONMA
CHISE IBE
OREG USA 3:04.01
LOUISE HEPNER
MARGARET WELLS
PAULINE STANGEL
SUSANNE SCHUMANN
OAHU CLUB KIOIC JPN 3:12.64
NORIKO YATSUNAMI
TSURUYO TANAKA
HIDEKO MORI
EIKO MIWA
SWIMI 89 JPN 3:20.03
HIROKO KATANO
KIMIKO YAMAGUCHI
CHIYOKO SHIBATA
CHIYOKO ATOJI
SSF BONN GER 3:20.40
ERIKA NESTLER
RUTH HENSCHEL
ISOLDE FEILAND
ULLA HELD
C.R.FLAMENGO BRA 3:20.71
IRACEMA SILVEIRA
CARMENCITA BORGES
MARIA LENK
MARY CERQUEIRA
PEOPLE YOKODAI JPN 3:21.79
AYA HIRANO
MOMOE KANEDA
KIKU ONO
YURIKO NAGAMATSU
YOKOHAMASUIEIKA JPN 3:22.42
TOSHIKO AMANO
CHIYOKO TAKIZAWA
AKI UNNO
CHIEKO TAKANO
OJAI-SANTA BARB USA 3:22.70
RUTH BAAR
GRACE ALTUS
MALCHIA OLSHAN
GAY COLLINS

AGE 320-359
WCM USA 3:49.73
SALLY JOY
JAE HOWELL
JEAN DURSTON
MARY JANE REEVES
OAHU CLUB KIOIC JPN 3:58.63
HIDEKO MORI
TAYO FURUYA
SACHIKO UDA
YOSHIKO WATANABE
DCM USA 4:08.47
RUTH THORSEN
JEAN CHENAUX
MARY LATHRAM
ANNE WALKER
YOKOHAMASUIEIKA JPN 4:08.49
KIKUYO EBATO
MASAKO MATSUNO
SHIZUE HATA
MITSUYO ASADA

****
RELAYS: WOMEN 200 M. MEDLEY
****

AGE 100-119
WV WUNSTORF GER 2:16.09
CORINNA KRIETSCH
F.WEHRENBERG-STOC
SYLVIA HAAK
BIRGIT GIESECKE
HSG GER 2:16.28
HEIDE JAHN
S.HAMMERSDORFER
UTE PETERS
KATHRIN GERDNUN
WESTERBACH ESCH GER 2:18.58
ANOUSCHKA POHL
SANDRA FRAATZ
BARBARA FRAATZ
ANGELA POHL
SPM USA 2:20.44
TANYA LANE
LISA SUMMERS
MINDY HARVARD
KELLY KNETSCH
SV NEVIGES GER 2:22.29
SILKE KLOSTMANN
SONJA PLEIN
J.HOLITZKA
SONJA GRABOWSKI
C.R.ICARAI BRA 2:24.01
ALINE PESSOA
ADRIANA GERALDES
FERNANDA SILVA
ADRIANA PICANCO
BRASILIA MASTER BRA 2:25.20
D.SEDLMAIER
MIRIAN GOMES
PAULA CARVALHO
FLAVIA CANTAL
OSC POTSDAM GER 2:27.55
GRIT PREUSCHE
PETRA WLOKA
ANKE HONERT
INES PETER
SWEAT GYOTOKU JPN 2:27.75
MIWA KATAOKA
JUNKO HORIKOSHI
YOSHIE IMAI
AKI NIRATSUKA
EMSC CAN 2:27.80
KHOWL
LINGR
DGAUD
JKALY

AGE 120-159
GOLD USA 2:04.19
MARY GARDNER
SUSIE GEYER
TRACIE MOLL
JAMI HERRINGTON
SPM USA 2:08.97
TANYA LANE
MAUD ORLANDO
LISA SUMMERS
CHARLO PETERSEN
WISTE GER 2:12.36
CLAUDIA LIPSKI
MARTINA HOMEYER
KARIN SEICK
B.HEIDEMANN
CMSC CAN 2:16.31
TSHEA
JDORK
CJOHN
SROCK
BSC ROBBEN/VFL GER 2:16.85
BARBARA STUBBE
S.FELGENTRAGER
ANDREA HALBACH
JULIANE GUNSTHEIM
RMM USA 2:17.38
JENNIFER ROCKE
LAUREEN WELTING
LAURA MCKEEVER
KATHY GARNIER
HANSA DORTMUND GER 2:17.99
UTE CIMDINS
KAJA PISTEL
RENATE CHRIST
GERTI WALLENTIN
SOLINGEN GER 2:18.25
DUNJA VOOS
BETTINA HUTZ
ANTJE BRISKOT
PETRA BOHNEN
OREG USA 2:19.41
MARTINA RALLE
CHRISTY HARTMAN
JEANNE THIMM
LISA HJERPE
SPM USA 2:21.54
ANDREA NAUTA
JUY TIBMA
CATHY SHONKWILER
LISA FLANAGAN

AGE 160-199
TTEX USA 2:16.25
SHARON WENCEL
JANN GIRARD
JUDY LAMBERT
SA NEILSON-BELL
LAKESIDE MASTER USA 2:19.87
AMY POPE
A WRIGHT-BELKNAP
PAM MARTIN
MELINDA SCHMITT
VIC CAN 2:21.07
JWOOD
ARHOD
PBANS
DBRAU
MAINZ GER 2:21.86
DAGMAR STREULE
CHRISTINE MOSEN
BARBARA GELLRICH
VLASTA OEHL
NEM USA 2:23.34
TRACY GRILLI
KA NISLEY-BLACK
JACKI HIRSTY
CONSTAN HALLETT
DONCASTER AUS 2:24.62
S.CROW
S.HARBOTTLE
L.TOWNSEND
B.NANGLE
BUDS HUN 2:25.25
JUDIT BARANYI
KATALIN CSAPO'
CSILLA CSIKA'NY
MAGDOLNA PATO'H
GOLD USA 2:25.88
JANET ZANN
DEBBI CAVANAUGH
GAIL RICE
MEG MAY
WALNUT CREEK MA USA 2:27.12
PATTY LANDERS
CHARLENE O'BRIEN
DEBBIE FLANSBURG
CAREN MCNAMARA
FU JPN 2:28.96
TAKAKO OKUBO
KATSUKO KURIHARA

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HIROKO NAKAGAWA
TOMOMI OTSUJI

AGE 200-239
SAN DIEGO SWIM USA 2:23.07
BETSY JORDAN
CAROLINE KRATTLI
BARBARA DUNBAR
JACKIE MARR
NEUKOLLN BERLIN GER 2:28.53
BRIGITTE MERTEN
MONIKA SENFTLEBEN
ELKE SCHARP
MARGA SCHULZE
VMST USA 2:32.94
BETH BAKER
BETSY DURRANT
TERRY GAULT
LAURA WALKER
STMASTERSKANSAI JPN 2:33.90
YOSHIE OSAKI
KAZUKO KAJIWARA
YOSHIKO OSAKI
FUSAKO HIROOKA
N SHORE NZL 2:37.80
SUSAN POLLARD
A.LEENE-RODAHL
CLAIRE PATERSON
PAM MEDHURST
SPM USA 2:38.05
LINDSAY POWELL
LESLIE TREAT
ANNE PAGE
JAYNE LAMBKE
OHTSU SWIM CIRC JPN 2:39.10
JUNKO IWAMI
KEIKO TSUJI
MASAKO AKITA
MASUNO MASUDA
POWERPOINTS AUS 2:40.26
H.JONES
M.ALDERSON
H.MORRIS
S.HOLDSWORTH
MSV MUNCHEN GER 2:40.29
LUISE KNOPFLE
GISELA SCHEFFLER
GERLINDE MAUTE
CHRISTA REINHART
THE OLYMPIC CL USA 2:40.31
MARGERY MEYER
DANIELLE OGIER
PHYLLIS QUINN
MARGUERITE MEYER

AGE 240-279
DCM USA 2:37.68
BARBARA FRID
JOANN LEILICH
JAYNE BRUNER
BARBARA ZAREMSKI
FLUMINENSE F.C. BRA 2:57.67
MARCIA BORELLI
MARIA H.PADILLA
ENEDINA PEREIRA
ENA BOGHOSSIAN
FLIPPER SS JPN 2:58.40
TSUYO MINEZAKI
TAMIKO SASAGAWA
KEIKO NAGANO
MITSUKO KOMURO
LEISURE COAST AUS 3:02.83
JUNE GRANZIERA
ROBIN HENZE
LYN MAY
JILL COOK
OAHU CLUB KIOIC JPN 3:05.58
CHIEKO TOKUDA
HIROKO MINOWA
HARUMI SUGIMOTO
NORIKO YATSUNAMI
DUSSELDORF GER 3:06.96
INGRID LANGE
KARIN SPELTER
GISELA GUNTHER
U.MEYER-TONDORF
NAS HANAHATA JPN 3:09.43
MASUMI TANI
MITSUKO SUDO
MICHIYO OKAMOTO
KATSUKO TERADA
C.R.ICARAI BRA 3:09.51
MARLENE MENDES
ISSA COIROLO
SANDRA LIMA
HERILENE FREITAS
NORTH LODGE NEP AUS 3:09.79
G.DAY
E.WILLEMS
A.STEVENS
M.MANKS
WIN FUKUSHIMA JPN 3:11.24
TAKAKO SATO
YOKO SAKUMA
TOMOKO KAMEYA
YOSHIKO SATO

AGE 280-319
KAWASAKI ITOMAN JPN 3:19.17
MIDORI KINJO
AKIKO HATTORI
KIYOKO KOZU
MIEKO KAMOSHITA
OAHU CLUB KIOIC JPN 3:26.59
EIKO MIWA
SUMIKO YANAGISAWA
REIKO NAWATA
MACHIKO ITAI
O*H*I*O MASTERS USA 3:32.20
M AMSBARY
LILLY KRON
PHILLIS WILSON
HILDEGARD HUGGINS
SAPPROR AC JPN 3:32.57
UMEKO KUWAHARA
TOMI GOTO
MIKIKO HONMA
CHISE IBE
SSF BONN GER 3:44.16
ISOLDE FEILAND
RUTH HENSCHEL
ERIKA NESTLER
ULLA HELD
SOMERSET AUS 3:45.99
JOYCE O'FARRELL
JACQUELINE BAILEY
MAXINE HILL
RUTH LAW-DAVIS
SWIMI 89 JPN 3:47.58
KIMIKO YAMAGUCHI
CHIYOKO SHIBATA
HIROKO KATANO
CHIYOKO ATOJI
AC CHOFU JPN 3:48.09
YONEKO YOSHIDA
SACHIKO MISAWA
YOSHIKO SUZUKI
SONOE ITO
OJAI-SANTA BARB USA 3:54.49
GAY COLLINS
MALCHIA OLSHAN
GRACE ALTUS
RUTH BAAR
SPM USA 3:56.00
BARBARA ALLEN
JUNE REYNOLDS
FLORENCE CARR
MARY LOU MITCHELL

AGE 320-359
WCM USA 4:19.11
SALLY JOY
JAE HOWELL
JEAN DURSTON
MARY JANE REEVES
OAHU CLUB KIOIC JPN 4:45.45
SACHIKO UDA
KATSUE EBATO
HIDEKO MORI
TAYO FURUYA

****
RELAYS: M E N 200 M. FREE
****

AGE 100-119
GOLD USA 1:39.28
CRAIG CRAWFORD
TERRY LAGE
KARNEY MCNEAR
TODD PACE
S.C. JANUS GER 1:41.14
CHRISTIAN BECKER
CHRISTOPH KLEINE
ANDRE NAUJOK
RENE SCHAFFGANS
TOKYU UMEDA JPN 1:42.29
TORU SOMEYA
SATOSHI MURAKAWA
KOICHI HIRAOKA
Y.SUNAGAWA
G.N.UNIAO BRA 1:42.42
DANIEL SPRB
LIZANDRO CARVALHO
EDSON SILVA
RICARDO SPERR
WASSERFREUNDE GER 1:42.46
JORG WILLERS
PATRICK TOPFER
MARKUS KLEINEBERG
JOACHIM MENZ
UAMS CAN 1:42.69
ACOME
CSIMO
RDUGG
SJONE
AINOSENSHIMARUS JPN 1:44.31
TSUBASA KATO
HIROSHI KUROSAWA
SHIGEHO NAKAYAMA
YASUHIRO OKADA
SWEAT GYOTOKU JPN 1:44.93
TARO OGAWA
MAKOTO KONISHI
OSAMU MACHIDA
KOHEI WATANABE
SDM USA 1:45.91
BRIAN AUGUST
ERIC MIX
E PICCININI
EDWIN LONGWELL
NEM USA 1:47.38
BILL VOLCKENING
JONATH BANVILLE
ROBERT SCZUPAK
ROB BERRY

AGE 120-159
FUJIEIKAI JPN 1:39.51
KEIZO ARAMAKI
MINORU TOYOTA
YUJI HAYAKAWA
MAKIO ENDO
HSG GER 1:39.84
OLAF AHLERS
UWE SOFKE
HENRY NAETHBOHM
LARS HINNEBURG
SCAQ A USA 1:39.84
RICHARD DREWELOW
KEITH KAPLAN
JERRY SHANDREW
BRAM TESTER
HSG ROSTOCK GER 1:42.36

OTSU SHIYAKUSHO JPN 1:42.87
MASAMI TAMAI
SEIJI TAMAMOTO
MITSURU KITANO
NORIYUKI YUMISAKA
FUJITA DN JPN 1:42.97
TOMOAKI SATO
EITA TSUMURA
NAOYUKI KITAMURA
NAOYA KUWATA
ICHIKAWA AC JPN 1:43.15
KAZUO DOMEKI
YASUO NARUSHIMA
KIICHI TOMINAGA
S.KISHINAMI
OREG USA 1:43.23
DARREN DUTTO
STEVE GEORGE
MATTHEW ROTH
LOREN CHIN
SHIMOKITAZAWA JPN 1:43.39
KATSUHISA HIRATA
RYOSUKE SUGIE
TATEO FUKAZAWA
SCOTT DELEHANTY
SGS VERDEN/DORV GER 1:43.48
KAI DORAU
MICHAEL MEIMSOTH
TOBIAS DIENER
TIM RUNGE

AGE 160-199
OREG USA 1:41.13
SCOTT FINDORFF
CURT LA COUNT
JAMES SORENSEN
DAVID HOLLAND
TTEX USA 1:44.52
JON SMILEY
DAVID GUTHRIE
BRUCE WENCEL
LARRY WOOD
GOLD USA 1:45.12
CRAIG BURNS
ROBERT STRAUSS
JOHN SPIRE
KURT WIENANTS
MACO USA 1:45.86
DAVID BURLESON
ROBERT MOORE
KARL VON TAGEN
ROBERT KABACY
NCMS USA 1:47.15
JEFF MURRAY
HILL CARROW
DOUG LEE
RICHARD BOBER
HSG GER 1:47.93
RENE' ECKERMANN
ANDREAS HARMS
DIETER MUHLNER
RENE' PLAESCHKE
SG FRANKFURT GER 1:48.13
RALF BERGER
H.HARBRECHT
MICHAEL WOLSKI
MARKUS ALEFELDER
SPM USA 1:48.17
WILLIAM HEMPEL
MICHAE MILLIGAN
WILLIAM SPECHT
EDDIE RIACH
OREG USA 1:48.45
PAT ALLENDER
CHRISTOPHE ROTH
ROBERT VOLL
PETER METZGER
PSC USA 1:48.49
PETER NUNAN
GREGORY DOZER
JIM HARRS
BOB BEARDSLEY

AGE 200-239
O*H*I USA 1:48.95
JACK GROSELLE
LOU HORWITZ
PETER VAN DIJK
KARL KAZMAIER
RMM USA 1:49.36
RICHAR ABRAHAMS
BOB PATTEN
TOM WHATLEY

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JAMES LILLEY
SPM USA 1:53.40
TON CHERRINGTON
JACK PYHEL
GARY BASTIE
RUSSELL FRAZIER
SWIM USA 1:54.05
RICK WALKER
DREN GEER
CASEY CLAFLIN
ROBERT DAVIE
ANV MEX 1:54.54
JORGE URRETA
E.REYES
A.GALINDO
O.BOSQUE
GOLD USA 1:54.75
JOEL BURNS
JERRY GREENBERG
BRIAN KEENEY
GEORGE SCHMIDT
GOLD USA 1:55.18
PETER GALVICH
PETE LONCTEAUX
WILLIAM QUAYLE
MICHAEL KOONIN
OREG USA 1:55.62
DOUGLAS PRENTICE
DANIEL GRAY
JED CRONIN
JON STOUT
VSA HIRAKATA JPN 1:55.70
AKIHIRO ISHIJIMA
HIROSHI KOJIMA
SHUNJI NAGAHAMA
TAKEKAZU KOTERA
CMSC CAN 1:55.77
MMORR
JGRAV
MHEAT
PGRAB

AGE 240-279
OREG USA 1:56.05
GEORGE THAYER
BERT PETERSEN
ROBERT SMITH
DAVID RADCLIFF
GOLD USA 1:56.24
DOUGLAS BUCHAN
DAVID MCINTYRE
HERB KERN
CAV CAVANAUGH
C.N.MASPALOMAS ESP 2:00.88

OAHU CLUB KIOIC JPN 2:01.60
A.KOBAYAKAWA
MASATERU ISA
MASARU IGARASHI
MASAYASU KAMIYA
GOST USA 2:03.14
JOHN FLORANCE
JOHN MEDICI
YOSHI OYAKAWA
THOMAS OLANDER
VSA HIRAKATA JPN 2:03.52
KAZUYOSHI NAKASE
SHIGEO MIYOSHI
HIROSHI KOJIMA
KUNIHIRO SATO
RACING CLUB FRA 2:03.81
FONQUERNIE
EMINENTE
BLIOCH
THOMANN
TTEX USA 2:04.01
GRAHAM JOHNSTON
FRANK CAMPBELL
CHUCK BALDWIN
BOB SEAGRAVES
HAKUYO S JPN 2:04.12
KATASHI AOKI
TOSHIMI INATOMI
KENSUKE SATO
TAKASHI TERAKOSHI
SDSM USA 2:05.54
MIKE FRESHLEY
PARRY O'BRIEN
DONALD BAKER
BILL EARLEY

AGE 280-319
OAHU TSUNASHIMA JPN 2:11.75
MASAO UEDA
SHIGERU MIYA
EIJI SOYAMA
YASUO NIWA
SAN DIEGO SWIM USA 2:18.04
DONALD HUBBARD
WILLIAM PHILLIPS
JERRY SIEFERT
BILL EARLEY
YOKOHAMASUIEIKA JPN 2:20.11
HIDEAKI KATO
HISAO NAKAI
HIDEO HATTORI
MINORU NAGASHIMA
OREG USA 2:23.22
GILBERT YOUNG
ERIC GUEST
EARL WALTER
RONALD NAKATA
KSG SUIZU SS BO JPN 2:24.82
TAKAYUKI HARADA
SHOJI IKEDA
KOJI SASAHARA
KAZUO YAMANE
REMSCHEID GER 2:25.00
GUNTER UNKEL
MANFRED BICKEL
WERNER HAHN
RUDI VAN ESS
GOLD USA 2:26.64
ALAN RAPPERPORT
LORING HOLMES
DES SESSINGHAUS
WILLIAM DOLAN
SPM USA 2:29.20
RICHARD AVERY
CHARLES KOHNKEN
ROBERT BEACH
THOMAS SMITH
SC NAS SHIKI JPN 2:33.82
KOICHI ICHIYAMA
MITSUO SHOJI
TADASHI KONDO
KEISUKE UEDA
FLUMINENSE F.C. BRA 2:34.67
ZAVEN BOGHOSSIAN
KEISUKE KIKUCHI
S.CARVALHO N.
ARAM BOGHOSSIAN

AGE 320-359
TTEX USA 3:23.45
JESSE COON
ALLEN HELLMAN
BENNETT ALLEN
TEX ROBERTSON
FMM USA 3:24.94
FRANK TILLOTSON
FRANK HAVLICEK
ELMER LUKE
DAVE MALBROUGH
C.R.ICARAI BRA 5:11.27
GASTAO FIGUEIREDO
LUIZ SAPIENZA
MAURICIO BARRETTO
JOAO LUZ
****
RELAYS: M E N 200 M. MEDLEY
****
AGE 100-119
G.N.UNIAO BRA 1:54.44
LIZANDRO CARVALHO
EDSON SILVA
DANIEL SPERB
RICARDO SPERR
AINOSENSHIMARUS JPN 1:56.38
YASUHIRO OKADA
HIROSHI KUROSAWA
SHIGEHO NAKAYAMA
TSUBASA KATO
SWEAT GYOTOKU JPN 1:56.65
KOHEI WATANABE
ASANORI HIGUCHI
TARO OGAWA
MAKOTO KONISHI
WASSERFREUNDE GER 1:57.82
MARKUS KLEINEBERG
SASCHA HOVELMANN
JORG WILLERS
PATRICK TOPFER
CRESCENT HILL USA 1:57.95
BRAD SCHMIED
ABRAHAM SOLANO
JEFF HOGG
PAUL WIDMAN
KUWANASUIEIC JPN 1:58.14
TATSUYA YAMAMOTO
M.YAMASHITA
KENSHI MIZUTANI
TAKEHIKO OTSUKI
BRASILIA MASTER BRA 1:58.24
SANDRO SANTOS
JOAO BARBOSA
MARCELO LIMA
HELIO CELIDONIO
RSV 90 BERLIN GER 1:58.91
TORSTEN KARNAHL
MICHAEL STELLMACH
MATTHIAS ULM
ERIK HANOLD
NEM USA 1:59.54
ROB BERRY
JONATH BANVILLE
ROBERT SCZUPAK
BILL VOLCKENING
C.P.MORUMBY BRA 1:59.68
RUY ARAUJO
LUIZ MADER
RENATO CORDANI
CARLOS DUDORENKO

AGE 120-159
GOLD USA 1:50.05
CRAIG CRAWFORD
SET VAN NEERDEN
KARNEY MCNEAR
KURT WIENANTS
FUJIEIKAI JPN 1:50.33
SEIGO SATO
KENICHI NAKAO
MAKIO ENDO
MINORU TOYOTA
FUJITA DN JPN 1:51.23
HIROYOSHI MAETOGE
EITA TSUMURA
TOMOAKI SATO
NAOYA KUWATA
BLS USA 1:54.41
JAY YARID
CHRISTIAN ROWE
BIL GLASSTETTER
STEVE REED
T DASH JPN 1:55.76
T.WATANABE
HIDEKI WAKAO
H.YOSHIZAWA
TADASU HORIUCHI
SGS VERDEN/DORV GER 1:56.71
KAI DORAU
MICHAEL MEIMSOTH
TOBIAS DIENER
TIM RUNGE
HSG GER 1:56.79
RENE' ECKERMANN
HENRY NAETHBOHM
LARS HINNEBURG
OLAF AHLERS
VORSPIEL SSV GER 1:56.91
MARKUS FOLLMAN
WOLFGANG JONTZA
D.MEYER
THOMAS ZETZMANN
IM USA 1:57.03
ANDREAS SEIBT
PLAM ALEXANDROV
TOM MCCABE
BOB YOUNG
YMCA PUR 1:57.06
CARLOS SANTIAGO
CARLOS NAZARIO
ARNALDO PEREZ
JOSE DE JESUS

AGE 160-199
OREG USA 1:53.92
CURT LA COUNT
DAVID HOLLAND
JAMES SORENSEN
SCOTT FINDORFF
GAJA USA 1:54.60
BRIAN PAKKALA
DOUG MALCOLM
RANDY RANDOLPH
BOB BROWN
ANCM USA 1:55.97
MICHAEL FELL
WALLY DICKS
JOHN FEINSTEIN
DAVID HARMON
TTEX USA 1:56.35
JON SMILEY
DAVID GUTHRIE
BRUCE WENCEL
LARRY WOOD
OREG USA 1:57.87
PETER METZGER
PAT ALLENDER
CHRISTOPHE ROTH
STEVE GEORGE
ICHIKAWA AC JPN 1:58.40
KAZUO DOMEKI
YASUO NARUSHIMA
TAKEO HIRAMOTO
MASAHARU ISHIKAWA
RMM USA 1:58.68
MIKE GONZALES
DAVID GRAY
WILLIAM ABBOTT
TODD BRYAN
SPM USA 1:59.79
EDDIE RIACH
GARY BASTIE
WILLIAM SPECHT
STUART BARTON
GOLD USA 2:01.20
MARTY HENDRICK
DAN ROSENTHAL
CRAIG BURNS
HANK OPPENBORN
NCMS USA 2:01.80
RICHARD BOBER
DOUG LEE
HILL CARROW
JEFF MURRAY

AGE 200-239
RMM USA 1:59.12
JAMES LILLEY
BOB PATTEN
RICHAR ABRAHAMS
TOM WHATLEY
SWIM USA 2:04.02
CASEY CLAFLIN
RICK WALKER
KEVIN MCCORMACK
DREN GEER
O*H*I USA 2:05.44
LOU HORWITZ
KARL KAZMAIER
JACK GROSELLE
PETER VAN DIJK
OREG USA 2:07.51
JON STOUT

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ALLEN STARK
JED CRONIN
DOUGLAS PRENTICE
HSG BERLIN GER 2:07.55
RALF SCHULZ
BERND WUNSCHE
BERND SCHRODER
LUTZ UNGER
VSA HIRAKATA JPN 2:09.22
SHUNJI NAGAHAMA
YOSHIHIRO FURUTA
SHIGEO MIYOSHI
TAKEKAZU KOTERA
BUDS HUN 2:09.53
JO'ZSEF CSIKA'NY
BE'LA FA'BIA'N
JA'NOS KIRICSI
MA'TYA'S BORLO'I
GOLD USA 2:10.26
JOHN SPIRE
IRV BETROCK
MICHAEL KOONIN
DOUGLAS BUCHAN
NEUKOLLN BERLIN GER 2:11.40
KLAUS-PETER ARNDT
WOLFGANG GATCKE
MANFRED BROCK
KLAUS MERTEN
SK GREIZ GER 2:12.49
PETER BAUCH
GUNTER TITTES
RALF BUTTGEREIT
DETLEF RAHNFELD

AGE 240-279
GOLD USA 2:15.93
DAVID MCINTYRE
HERB KERN
JOEL BURNS
CAV CAVANAUGH
OREG USA 2:17.22
ROBERT SMITH
GEORGE THAYER
RONALD NAKATA
DAVID RADCLIFF
GOST USA 2:17.65
YOSHI OYAKAWA
KARL WIEDAMANN
THOMAS OLANDER
JOHN FLORANCE
OAHU KIOICHO JPN 2:20.00
MASAYASU KAMIYA
MASATERU ISA
MASARU IGARASHI
A.KOBAYAKAWA
SSV LIPS 90 LEI GER 2:20.04
WALTER LEX
JURGEN SCHUBERT
WOLFGANG SIEBER
ERWIN SCHUBERT
HAKUYO S JPN 2:20.17
HIROSHI NONAKA
KENSUKE SATO
TAKASHI TERAKOSHI
TOSHIMI INATOMI
NCMS USA 2:20.70
ROLFF PINKERTON
MILTON GEE
CLARKE MITCHELL
JERRY CLARK
SDSM USA 2:21.40
BILL EARLEY
MIKE FRESHLEY
LEE MENCH
JERRY SIEFERT
WFR MUNCHEN GER 2:22.47
HELMUT HAUGER
HANS REICHELT
HARALD NOWOTNY
RICHARD GOTZ
WASSERRATTEN GER 2:22.53
ALFRED SPENGLER
SIEGFRIED MASULA
MANFRED HUTER
MANFRED BONICKE

AGE 280-319
BRAUNSCHWEIG GER 2:40.62
ROLF SCHADENBERG
TYCHO HILGENDORF
FRITZ KLAPPROTH
H.KIRSCH
OREG USA 2:44.96
EARL WALTER
ERIC GUEST
BERT PETERSEN
GILBERT YOUNG
REMSCHEID GER 2:48.03
GUNTER UNKEL
RUDI VAN ESS
MANFRED BICKEL
WERNER HAHN
YOKOHAMASUIEIKA JPN 2:49.03
HIDEAKI KATO
HIDEO HATTORI
MINORU NAGASHIMA
HISAO NAKAI
SSV RHEYDT GER 2:51.25
WOLFGANG JONTZA
KARL-AUTHUR ESSER
KARL-HEINZ KNOPS
H.SCHEULEN
NAKADATE SS JPN 2:54.20
MASAKI INABA
SATORU KATO
SHIGERU HOSAKA
KANAME TANAKA
SPM USA 2:55.18
RICHARD AVERY
ABRASHA BRAININ
THOMAS SMITH
HAROLD FERRIS
NISUPO NISHIOTS JPN 2:55.98
AKIRA YAMANE
SHIGERU NARA
KOICHI HASHIMOTO
KEIGO KATSUMI
C.R.ICARAI BRA 2:56.18
ALBERTO CARVALHO
MANOEL COSTA
LEONARDO NOGUEIRA
ALOISIO SCHUELER
WALNUT CREEK MA USA 2:56.48
BILL PECKHAM
FRANK NIEMAN
BILL JOHNSTON
FRED TRASK

AGE 320-359
TTEX USA 4:01.18
ALLEN HELLMAN
BENNETT ALLEN
JESSE COON
TEX ROBERTSON
NORTH LODGE NEP AUS 4:20.59
T.REES
S.KRASEY
R.MCCABE
M.PARKER
FMM USA 4:20.87
FRANK TILLOTSON
FRANK HAVLICEK
ELMER LUKE
DAVE MALBROUGH
SWIMI 89 JPN 4:20.90
MASAHISA KANEKO
TADASHI YAMAGUCHI
HIRONARI UEDA
S.TACHIKAWA
C.R.ICARAI BRA 4:24.88
GASTAO FIGUEIREDO
JOAO LUZ
ALBERTO CARVALHO
NICOLA BATTELLI

****
RELAYS: MIXED 200 M. FREE
****

AGE 100-119
NCMS USA 1:45.97
RACHEL GUNN
HEATHER HAGEMAN
JEFF MURRAY
GRANT JOHNSTON
SPM USA 1:48.39
LISA SUMMERS
WILL LANE
STUART BARTON
CHARLO PETERSEN
WESTERBACH GER 1:49.72
SANDRA FRAATZ
BERND POHL
JORG WAGNER
BARBARA FRAATZ
HSG GER 1:49.91
HENRY NAETHBOHM
KATHRIN GERDNUN
HEIDE JAHN
LARS HINNEBURG
C.N MAISONS-ALF FRA 1:50.33
LAURENT PENNETIER
SARAH CHALLAS
PATRICIA FAGNON
ANTOINE GREVEREND
SLAVIA CZE 1:50.50
JOLANA CERNA
V.HAVILICEK
MARCELA SMIDOVA
JIRI MIKULA
GOLD USA 1:50.93
CRAIG CRAWFORD
CHRISTENA PAZOS
LINDA HAUS
TERRY LAGE
SAO-PAULO MASTE BRA 1:51.59
FLAVIO LIRA
SYLVIA FERRO
SOPHIE MONGINET
LAWRENCE BORSA
WV WUNSTORF GER 1:52.03
A.JANITZKI
FRANK TIEDEMANN
CORINNA KRIETSCH
SYLVIA HAAK
CMO VEUISSIEUX FRA 1:52.96
FREDERIC DUCLOS
SOPHIE REYNAUD
CARINE BATTIE
F.VERBRUGGHE

AGE 120-159
GOLD USA 1:42.65
TODD PACE
TRACIE MOLL
JAMI HERRINGTON
KURT WIENANTS
SPENCER SWIM TE GBR 1:49.05
SUSAN HILL
MATTHEW GOMEZ
DUNCAN HARTLEY
SIOBHAN HARTLEY
CMSC CAN 1:49.30
JWELE
PGRAB
CJOHN
TSHEA
FUJITA DN JPN 1:50.83
NAOYUKI KITAMURA
KYOKO IKEMOTO
KAZUE MAETOGE
NAOYA KUWATA
HSG GER 1:50.89
RENE' ECKERMANN
S.HAMMERSDORFER
UTE PETERS
OLAF AHLERS
BSC ROBBEN/VFL GER 1:51.37
M.HILDEBRANDT
REGINA DOBSCHIN
ANDREA HALBACH
AXEL HUSFELDT
COMP BRA 1:51.55
RICARDO FE SILVA
SIMONE NAKANO
ELIANA MUTCHNIK
R.SANTOS
LEVIN NZL 1:52.47
JEREMY PERROTT
JANE PERROTT
REBECCA PERROTT
ADAM PERROTT
GOLD USA 1:52.52
DAN ROSENTHAL
MARY GARDNER
TANYA HANSON
MARTY HENDRICK
SG MAINZ GER 1:52.60
JAN KURTH
RENATE MARTENS
B.DR.GELLRICH
PATRICK METZL

AGE 160-199
RMM USA 1:45.83
KATHY GARNIER
LAUREEN WELTING
RICHAR ABRAHAMS
JAMES LILLEY
TTEX USA 1:48.55
SA NEILSON-BELL
BRUCE WENCEL
DAVID GUTHRIE
JANN GIRARD
THE OLYMPIC CLU USA 1:50.46
JOAN SCHRIGER
STEPHENE CLARK
MARGUERITE MEYER
DAVID LUNDBERG
SPM USA 1:50.95
EDDIE RIACH
CATH SHONKWILER
ANDREA NAUTA
WILLIAM SPECHT
VIC CAN 1:52.13
JWOOD
RCARM
ARHOD
EKERA
SPENCER SWIM TE GBR 1:54.16
DEBRA RIKER
DUNCAN MCCREADIE
PAUL BLACKBEARD
JAMES KAREN
SDSM USA 1:54.46
MIKE FRESHLEY
NANCY NORTH
TRISH MIRANDA
LEE MENCH
SOLK HELLAS MAS SWE 1:54.47
ANN CHRISTIANSEN
GLEN CHRISTIANSEN
LEONARD BIELICZ
MARGARETA RAINER
NEM USA 1:54.57
JACKI HIRSTY
DAVID BRIGHT
TRACY GRILLI
ROB BERRY
HSG GER 1:55.55
UWE SOFKE
MARTINA OCIK
JUTTA HABERMANN
RENE' PLAESCHKE

AGE 200-239
GOLD USA 1:58.45
CAV CAVANAUGH
JANET ZANN
MEG MAY
DOUGLAS BUCHAN
SPENCER SWIM TE GBR 1:59.08
JOHN GORDON
CAROL FELLOWS
AMANDA HEATH
TONY CHERRINGTON
SPM USA 2:01.86
GARY BASTIE

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LINDSAY POWELL
ANNE PAGE
TON CHERRINGTON
SWIM USA 2:02.00
LARRY BLACK
DEB WALKER
LYNN CARTEE
DREN GEER
OREG USA 2:03.48
DOUGLAS PRENTICE
JACKIE QUATTRO
ROBERT SMITH
SANDI ROUSSEAU
TTEX USA 2:04.24
SHARON WENCEL
JUDY LAMBERT
GRAHAM JOHNSTON
CHUCK BALDWIN
MACO USA 2:04.30
KARL VON TAGEN
GINGER PIERSON
TERI HENDRYX
ROBERT MAESTRE
POWERPOINTS AUS 2:04.53
S.HOLDSWORTH
H.MORRIS
G.RYDBERG
G.NORTH
GOLD USA 2:04.77
JOEL BURNS
ANNE LABORWIT
RORIE ANDERSON
JERRY GREENBERG
NEUKOLLEN BERLI GER 2:04.86
KLAUS MERTEN
BRIGITTE MERTEN
RUTH STUBERT
MANFRED BROCK

AGE 240-279
THE OLYMPIC CLU USA 2:07.86
DANIELLE OGIER
MARGERY MEYER
WILLIAM VAN HORN
JAMES KRUEGER
GOLD USA 2:13.64
HERB KERN
SUSAN PETERSON
JEAN TURNER
WILLIAM DOLAN
SOLK HELLAS MAS SWE 2:14.69
HOKAN WASSDAHL
ERIC FORSLUND
HARRIET BURE
MARIANNE GRANE
OREG USA 2:16.57
GEORGE THAYER
PAMELA HIMSTREET
SUSANNE SCHUMANN
DAVID RADCLIFF
NEUKOLLN GER 2:19.76
PETER SENFTLEBEN
MONIKA SENFTLEBEN
MARGA SCHULZE
HARALD BESTIAN
BUDS HUN 2:19.80
BE'LA FA'BIA'N
HORVATH BA'NKI
MA'RTA EGERVA'RY
MAGDOLNA PATO'H
FLUMINENSE F.C. BRA 2:20.21
ARAM BOGHOSSIAN
MARIA H.PADILLA
MARCIA BORELLI
LUIS SIMI
FLIPPER SS JPN 2:21.34
TSUYO MINEZAKI
MITSUKO KOMURO
SHUNSUKE TAGUCHI
KAZUYA NISHINO
TACHIKAWASUIKYO JPN 2:21.61
YOSHIE ISHIBASHI
TSUTOMU MIYAUCHI
JUNJI MONJAKU
TOSHIKO MORITA
ZSA BEL 2:23.17

AGE 280-319
SOLK HELLAS MAS SWE 2:27.21
BRITT GRILLI
NILS FERM
PETER BERGGENGREN
KERSTIN GJORES
ETTALONG AUS 2:30.41
IRMA HEYTING
ELVERA DUNN
KEVIN VICKERY
ALLAN DUFTY
SUNWAYYOKOHAMAS JPN 2:38.77
TETSUO NAKAMARU
SHOGORO AZUMA
YOKO SUGIYAMA
SHOKO YONEZAWA
GOLD USA 2:39.50
ALFREDO UTRILLA
JUNE KRAUSER
MARGARET DWYER
LORING HOLMES
SNWY JPN 2:39.99
TETSUO NAKAMARU
YOKO SUGIYAMA
SHOGORO AZUMA
SHOKO YONEZAWA
SPM USA 2:40.82
ABRASHA BRAININ
FLORENCE CARR
THOMAS SMITH
KA KNIGHT-PERRY
YOKOHAMASUIEIKA JPN 2:41.37
HIDEAKI KATO
TOSHIKO AMANO
CHIEKO TAKANO
MINORU NAGASHIMA
FLUMINENSE F.C. BRA 2:47.24
ENEDINA PEREIRA
S.CARVALHO N.
CANDIDA GANDOLPHO
ZAVEN BOGHOSSIAN
OSBORNE PARK AUS 2:50.65
BRYCE JONES
BERYL PATERSON
NORM CLARK
MICHAEL NOBLE
OREG USA 2:51.11
EARL WALTER
LOUISE HEPNER
PAULINE STANGEL
GILBERT YOUNG

AGE 320-359
WIS MASTERS USA 3:32.14
LYNN SURLES
FRAN ZEUMER
BETTY KENDALL
HERBERT HOWE
SPM USA 3:35.78
KERMIT HOTVEDT
WIN KENNEDY
JUNE REYNOLDS
ROBERT ATWOOD
CONN USA 3:36.40
ELLIO SCHOFIELD
AGNES ROMAYKO
GUS LANGNER
DOROTH DONNELLY
YOKOHAMASUIEIKA JPN 3:38.93
AKIRA MATSUNO
KIKUYO EBATO
MITSUYO ASADA
TOYOJI TAKAMI
C.R.ICARAI BRA 4:04.78
GASTAO FIGUEIREDO
NORA RONAI
LUZIA CARACCIOLO
H.TIMOTHEO COSTA
POSEIDON BERLIN GER 4:11.88
ILSE ROCHOWIAK
KARL WITTENBERG
MARGOT WOLF
ARNO SCHUBLER
FMM USA 4:16.96
BUNNY HAVLICEK
REGAN KENNER
FRANK TILLOTSON
DAVE MALBROUGH

****
RELAYS: MIXED 200 M. MEDLEY
****

AGE 100-119
SLAVIA CZE 2:01.01
MARCELA SMIDOVA
MICHAL HOLY
V.HAVILICEK
JOLANA CERNA
DEISUIKAI JPN 2:01.27
MIKI YAGI
CHIFUMI YAMAGA
TATSUYA SHIMIZU
MITSUHARU OBA
WESTERBACH GER 2:04.11
BERND POHL
JORG WAGNER
BARBARA FRAATZ
SANDRA FRAATZ
OJAI-SANTA BARB USA 2:04.74
SCOTT REED
WENKE HANSEN
BRIAN ALDERMAN
KATRINA CARSON
SPM USA 2:04.81
WILL LANE
TANYA LANE
STUART BARTON
LISA SUMMERS
ACADEMIA 4X1 BRA 2:05.79

C.N MAISONS-ALF FRA 2:06.17
PATRICIA FAGNON
LAURENT PENNETIER
ANTOINE GREVEREND
SARAH CHALLAS
BARRACUDA ERFST GER 2:06.60
STEFAN MARK
M.KRISTINA HENZE
KATHARINA ASHAUER
TOBIAS PALUTHE
EN CAEN FRA 2:07.22
LESSARD
THEPIN
LUCAN
JOURY
WV WUNSTORF GER 2:07.22
CORINNA KRIETSCH
A.JANITZKI
FRANK TIEDEMANN
SYLVIA HAAK

AGE 120-159
GOLD USA 1:57.30
CRAIG CRAWFORD
SET VAN NEERDEN
TRACIE MOLL
JAMI HERRINGTON
OREG USA 2:04.71
STEVE GEORGE
PAT ALLENDER
LAURA WORDEN
LISA HJERPE
LEVIN NZL 2:05.15
REBECCA PERROTT
ADAM PERROTT
JEREMY PERROTT
JANE PERROTT
GOLD USA 2:05.86
MARY GARDNER
JAN VAN DERSLUIS
CRAIG BURNS
JEAN SPINELLI
SPENCER SWIM TE GBR 2:06.04
SUSAN HILL
MATTHEW GOMEZ
DUNCAN HARTLEY
SIOBHAN HARTLEY
HSG GER 2:06.25
JENS FREYTAG
S.HAMMERSDORFER
UTE PETERS
OLAF AHLERS
MICH USA 2:06.67
DAWN HEWITT
ALGERNON KEITH
JILL OVIATT
ERIC NORDLUND
NCMS USA 2:06.69
HEATHER HAGEMAN
RACHEL GUNN
JEFF MURRAY
HILL CARROW
COMP BRA 2:06.75
RICARDO FE SILVA
J.RAMALHO
SIMONE NAKANO
ELIANA MUTCHNIK
LAKESIDE MASTER USA 2:06.86
JOHN GLEASON
DALE MERCKER
PAM MARTIN
MELINDA SCHMITT

AGE 160-199
TTEX USA 2:01.22
SHARON WENCEL
DAVID GUTHRIE
BRUCE WENCEL
SA NEILSON-BELL
THE OLYMPIC CLU USA 2:02.11
JOAN SCHRIGER
ROBERT STRAND
DAVID LUNDBERG
MARGUERITE MEYER
SPM USA 2:04.39
EDDIE RIACH
JUDY TIBMA
WILLIAM SPECHT
CATH SHONKWILER
NEM USA 2:04.56
TRACY GRILLI
JONATH BANVILLE
FRED SCHLICHER
JACKI HIRSTY
SG MAINZ GER 2:07.74
DAGMAR STREULE
GUNTER SCHMAH
BARBARA GELLRICH
PATRICK METZL
SPENCER SWIM TE GBR 2:08.67
DEBRA RIKER
BOB CRACKNELL
PAUL BLACKBEARD
JAMES KAREN
SOLK HELLAS MAS SWE 2:09.17
ANN CHRISTIANSEN
GLEN CHRISTIANSEN
LEONARD BIELICZ
MARGARETA RAINER
ICHIKAWA AC JPN 2:09.26
YUKIKO ITO
HAJIME SHIMURA
MASAHARU ISHIKAWA
SHIZUKO HIRAISHI
TROYKA RUS 2:09.64
ELENA SINITSINA
TIMOUR PODMAREV
S.RODIONOV
OLGA KEDROVA
BUDS HUN 2:10.08
PE'TER BONIFERT
GE'ZA MIHALIK
CSILLA CSIKA'NY
JUDIT BARANYI

AGE 200-239
TAM USA 2:08.56
RICHARD BURNS
KENNETH FROST

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LAURA VAL
NANCY RIDOUT
STMASTERSKANSAI JPN 2:10.85
YOSHIE OSAKI
YOSHIHIKO OSAKI
KOJI NAKANO
YOSHIKO OSAKI
SPENCER SWIM TE GBR 2:12.52
JOHN GORDON
CAROL FELLOWS
AMANDA HEATH
TONY CHERRINGTON
GOLD USA 2:16.97
JANET ZANN
DEBBI CAVANAUGH
JOEL BURNS
CAV CAVANAUGH
BSC ROBBEN/VFL GER 2:17.17
BARBARA STUBBE
HAUKE STIEHL
S.FELGENTRAGER
BEN KRUPPA
BUDS HUN 2:17.86
JO'ZSEF CSIKA'NY
IRE'N MONDI
JA'NOS KIRICSI
MAGDOLNA PATO'H
NEUKOLLN BERLIN GER 2:18.15
BRIGITTE MERTEN
MONIKA SENFTLEBEN
MANFRED BROCK
KLAUS MERTEN
GSM USA 2:18.25
DORIS STEADMAN
RICHARD BOHAN
LUALLEN-SCHOLZ
EDWARD NESSEL
OREG USA 2:19.00
ROBERT SMITH
DOUGLAS PRENTICE
SANDI ROUSSEAU
JACKIE QUATTRO
HSG BERLIN GER 2:19.68

AGE 240-279
THE OLYMPIC CLU USA 2:31.85
MARGERY MEYER
DANIELLE OGIER
JAMES KRUEGER
WILLIAM VAN HORN
SAN DIEGO SWIM USA 2:33.51
BILL W. EARLEY
JACKIE MARR
LYNNE H-K LUNE
KEN KIMBALL
FLUMINENSE F.C. BRA 2:33.83
MARCIA BORELLI
RINALDO FERREIRA
LUIS SIMI
MARIA H.PADILLA
SOLK HELLAS MAS SWE 2:34.69
HOKAN WASSDAHL
ERIC FORSLUND
HARRIET BURE
MARIANNE GRANE
DCM USA 2:36.49
RAYMOND CHEN
JAYNE BRUNER
BARBARA FRID
LAWRENCE COHEN
KSGSUIZUSSYAMAG JPN 2:38.15
GORO KOBAYASHI
ISAO FUNAMOTO
KUMI NAKAO
HISAKO OKAMURA
BUDS HUN 2:38.45
HORVATH BA'NKI
KATALIN CSAPO'
BE'LA FA'BIA'N
MA'RTA EGERVA'RY
SOLK HELLAS MAS SWE 2:38.86
EMMY KADEM
MATIHIAS KROMER
INGVAR ERIKSSON
B.HJALMARSON
OAHU KIOICHO JPN 2:38.92
HARUMI SUGIMOTO
TERUO IWATA
MASAYASU KAMIYA
NORIKO YATSUNAMI
MSBC CAN 2:40.01
RDONA
PBELL
BPRON
JPARN

AGE 280-319
SOLK HELLAS MAS SWE 2:53.27
NILS FERM
BRITT GRILLI
PETER BERGGENGREN
KERSTIN GJORES
ETTALONG AUS 3:01.24
ALLAN DUFTY
KEVIN VICKERY
IRMA HEYTING
ELVERA DUNN
RACING CLUB FRA 3:01.50
BERLIOUX
PLISSON
EMINENTE
BLIOCH
SUNWAYYOKOHAMAS JPN 3:03.41
SHOGORO AZUMA
SHOKO YONEZAWA
YOSHIKAZU MIZUNO
YOKO SUGIYAMA
SPM USA 3:04.84
BARBARA ALLEN
ABRASHA BRAININ
THOMAS SMITH
FLORENCE CARR
GOLD USA 3:05.47
ARDIS BOURLAND
HERB KERN
JUNE KRAUSER
DES SESSINGHAUS
SNWY JPN 3:05.63
SHOGORO AZUMA
TETSUO NAKAMARU
SHOKO YONEZAWA
YOKO SUGIYAMA
OREG USA 3:11.63
GILBERT YOUNG
LOUISE HEPNER
EARL WALTER
S.CALNEK-LILLESTR
DURHAM LIGHT NZL 3:12.40
BERYL BRERETON
TOM LOGAN
SIDNEY SALEK
OLGA JOHNSON
FLUMINENSE F.C. BRA 3:12.86
ZAVEN BOGHOSSIAN
CANDIDA GANDOLPHO
ENEDINA PEREIRA
S.CARVALHO N.

AGE 320-359
IBARAKI SC JPN 4:09.06
RYUJI FUJIKAWA
HIROKO TSUCHIYA
KENJIRO KAKEI
RITSUKO HAYASHIDA
SWIMI 89 JPN 4:18.12
MASAHISA KANEKO
CHIYOKO SHIBATA
CHIYOKO ATOJI
S.TACHIKAWA
COAST MASTERS A USA 4:27.01
MADELEINE MILLER
WALTER PFEIFFER
BOB CHRISTIANS
LOUISE BOGAARDS
SPM USA 4:44.26
KERMIT HOTVEDT
WIN KENNEDY
JUNE REYNOLDS
ROBERT ATWOOD
YOKOHAMASUIEIKA JPN 4:48.94
KIYOKO KANO
KIKUYO EBATO
YOSHIAKI UEDA
AKIRA MATSUNO
FMM USA 5:00.89
DAVE MALBROUGH
FRANK TILLOTSON
GLADYS OLSEN
BUNNY HAVLICEK
C.R.ICARAI BRA 5:36.02
LUZIA CARACCIOLO
LUIZ SAPIENZA
DORA SODRE
GASTAO FIGUEIREDO

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