



**FINA WORLD MASTERS CHAMPIONSHIPS - MEET RECORDS**

**LONG COURSE METERS as of 1990**

| ***** MEN ***** |      |     |                   |              | ***** W O M E N ***** |     |      |          |  |
|-----------------|------|-----|-------------------|--------------|-----------------------|-----|------|----------|--|
| 24.15           | 1988 | USA | SAM JONES         | 50 M. FREE   | MARY HOLMES           | USA | 1988 | 27.70    |  |
| 53.45           | 1986 | AUS | MARK MORGAN       | 100 M. FREE  | MARY HOLMES           | USA | 1988 | 59.73    |  |
| 1:56.28         | 1988 | BRA | MARCUS MATTIOLI   | 200 M. FREE  | MARY ROEBUCK          | USA | 1990 | 2:09.50  |  |
| 4:06.99         | 1988 | BRA | MARCUS MATTIOLI   | 400 M. FREE  | MARY HOLMES           | USA | 1988 | 4:31.36  |  |
| 8:41.43         | 1988 | BRA | MARCUS MATTIOLI   | 800 M. FREE  | MARY HOLMES           | USA | 1988 | 9:18.74  |  |
|                 |      |     |                   | 1500 M. FREE |                       |     |      |          |  |
| 27.39           | 1986 | BRA | ROMULO ARANTES    | 50 M. BACK   | CHERYL GIBSON         | CAN | 1986 | 31.21    |  |
| 59.00           | 1986 | BRA | ROMULO ARANTES    | 100 M. BACK  | MONIQUE RODAHL        | NZL | 1988 | 1:07.31  |  |
| 2:13.56         | 1986 | BRA | ROMULO ARANTES    | 200 M. BACK  | MONIQUE RODAHL        | NZL | 1988 | 2:25.77  |  |
| 30.41           | 1986 | SWE | GLEN CHRISTIANSEN | 50 M. BRST   | BEATE STEINHOF        | FRG | 1990 | 35.22    |  |
| 1:07.39         | 1986 | SWE | GLEN CHRISTIANSEN | 100 M. BRST  | BEATE STEINHOF        | FRG | 1990 | 1:18.67  |  |
| 2:30.80         | 1988 | JPN | JOHN ROGERS       | 200 M. BRST  | MARCIA RESENDE        | BRA | 1990 | 2:51.04  |  |
| 25.69           | 1986 | USA | ROBERT PLACAK     | 50 M. FLY    | TISH BUCHER           | USA | 1988 | 29.51    |  |
| 57.12           | 1986 | USA | ROBERT PLACAK     | 100 M. FLY   | JUNE FORD             | USA | 1988 | 1:06.39  |  |
| 2:06.53         | 1988 | BRA | MARCUS MATTIOLI   | 200 M. FLY   | JUNE FORD             | USA | 1988 | 2:26.66  |  |
| 2:13.58         | 1988 | BRA | MARCUS MATTIOLI   | 200 M. I.M.  | JUNE FORD             | USA | 1988 | 2:29.55  |  |
| 4:41.14         | 1988 | BRA | MARCUS MATTIOLI   | 400 M. I.M.  | JUNE FORD             | USA | 1988 | 5:17.08  |  |
| *****           |      |     |                   |              | *****                 |     |      |          |  |
| ***** MEN ***** |      |     |                   |              | ***** W O M E N ***** |     |      |          |  |
|                 |      |     |                   | 30-34        |                       |     |      |          |  |
| 24.25           | 1990 | AUS | JOHN MARSHALL     | 50 M. FREE   | S.NEILSON-BELL        | USA | 1988 | 26.70    |  |
| 52.32           | 1986 | USA | JAMES MONTGOMERY  | 100 M. FREE  | S.NEILSON-BELL        | USA | 1988 | 58.09    |  |
| 1:55.48         | 1986 | USA | JAMES MONTGOMERY  | 200 M. FREE  | S.NEILSON-BELL        | USA | 1988 | 2:10.11  |  |
| 4:08.70         | 1986 | USA | JAMES MONTGOMERY  | 400 M. FREE  | S.NEILSON-BELL        | USA | 1988 | 4:43.52  |  |
| 8:46.99         | 1986 | USA | JAMES MONTGOMERY  | 800 M. FREE  | S.NEILSON-BELL        | USA | 1988 | 9:50.00  |  |
|                 |      |     |                   | 1500 M. FREE |                       |     |      |          |  |
| 27.32           | 1988 | USA | DIX OZIER         | 50 M. BACK   | BETH MAUER            | USA | 1988 | 32.11    |  |
| 1:00.58         | 1988 | USA | DIX OZIER         | 100 M. BACK  | BETH MAUER            | USA | 1988 | 1:09.11  |  |
| 2:15.32         | 1988 | AUS | R.DILL-MACKY      | 200 M. BACK  | BETH MAUER            | USA | 1988 | 2:29.27  |  |
| 30.26           | 1988 | JPN | GLEN CHRISTIANSEN | 50 M. BRST   | KAREN GIBSON          | AUS | 1986 | 35.37    |  |
| 1:08.08         | 1988 | JPN | GLEN CHRISTIANSEN | 100 M. BRST  | KAREN GIBSON          | AUS | 1986 | 1:18.88  |  |
| 2:27.40         | 1988 | HUN | VERMES ALBAN      | 200 M. BRST  | KAREN GIBSON          | AUS | 1988 | 2:54.28  |  |
| 25.31           | 1988 | USA | MIKE BOTTOM       | 50 M. FLY    | ROSEMARIE SEAMAN      | USA | 1988 | 30.20    |  |
| 56.64           | 1988 | USA | MIKE BOTTOM       | 100 M. FLY   | ROSEMARIE SEAMAN      | USA | 1988 | 1:06.74  |  |
| 2:08.78         | 1988 | USA | JAMES BELARDI     | 200 M. FLY   | BETH MAUER            | USA | 1988 | 2:28.24  |  |
| 2:12.37         | 1988 | USA | MARK SCHUMAN      | 200 M. I.M.  | S.NEILSON-BELL        | USA | 1988 | 2:30.87  |  |
| 4:43.93         | 1988 | TCH | PETR KOLLROS      | 400 M. I.M.  | BETH MAUER            | USA | 1988 | 5:26.99  |  |
| *****           |      |     |                   |              | *****                 |     |      |          |  |
| ***** MEN ***** |      |     |                   |              | ***** W O M E N ***** |     |      |          |  |
|                 |      |     |                   | 35-39        |                       |     |      |          |  |
| 24.81           | 1988 | USA | THOMAS HICKCOX    | 50 M. FREE   | JACKI HIRSTY          | USA | 1990 | 27.68    |  |
| 55.41           | 1988 | USA | THOMAS HICKCOX    | 100 M. FREE  | SUSAN HALFACRE        | USA | 1988 | 1:00.76  |  |
| 2:03.37         | 1990 | ECU | JORGE DELGADO     | 200 M. FREE  | SUSAN HALFACRE        | USA | 1988 | 2:12.90  |  |
| 4:25.37         | 1986 | USA | RANDY WILLIAMS    | 400 M. FREE  | SUSAN HALFACRE        | USA | 1988 | 4:35.89  |  |
| 9:09.59         | 1988 | USA | BRANT BITTLER     | 800 M. FREE  | SUSAN HALFACRE        | USA | 1988 | 9:31.44  |  |
|                 |      |     |                   | 1500 M. FREE |                       |     |      |          |  |
| 29.93           | 1988 | AUS | NEIL ROGERS       | 50 M. BACK   | PATRICIA GILMORE      | CAN | 1988 | 33.58    |  |
| 1:04.81         | 1988 | USA | WILLIAM TINGLEY   | 100 M. BACK  | PATRICIA GILMORE      | CAN | 1988 | 1:11.41  |  |
| 2:24.52         | 1988 | GBR | EDDIE RIACH       | 200 M. BACK  | PATRICIA GILMORE      | CAN | 1988 | 2:35.77  |  |
| 31.53           | 1990 | USA | C.MILTENBERGER    | 50 M. BRST   | GILLIAN CACKETT       | GBR | 1990 | 37.80    |  |
| 1:10.40         | 1988 | USA | C.MILTENBERGER    | 100 M. BRST  | GAYLE BENTY           | USA | 1988 | 1:22.35  |  |
| 2:38.23         | 1990 | USA | JOHN HARKER       | 200 M. BRST  | GAYLE BENTY           | USA | 1988 | 2:57.17  |  |
| 26.50           | 1988 | AUS | NEIL ROGERS       | 50 M. FLY    | SUSAN HALFACRE        | USA | 1988 | 29.78    |  |
| 59.48           | 1988 | AUS | NEIL ROGERS       | 100 M. FLY   | SUSAN HALFACRE        | USA | 1988 | 1:06.76  |  |
| 2:17.49         | 1986 | USA | RANDY WILLIAMS    | 200 M. FLY   | MARYANN STEVENS       | USA | 1988 | 2:39.34  |  |
| 2:20.51         | 1988 | FRG | GERD KRUGER       | 200 M. I.M.  | PATRICIA GILMORE      | CAN | 1988 | 2:37.26  |  |
| 5:04.63         | 1988 | USA | BRANT BITTLER     | 400 M. I.M.  | LORI WATSON           | AUS | 1988 | 5:38.42  |  |
| *****           |      |     |                   |              | *****                 |     |      |          |  |
| ***** MEN ***** |      |     |                   |              | ***** W O M E N ***** |     |      |          |  |
|                 |      |     |                   | 40-44        |                       |     |      |          |  |
| 25.29           | 1986 | USA | STEPHEN CLARK     | 50 M. FREE   | MARTHA MARTIN         | USA | 1988 | 28.72    |  |
| 56.50           | 1986 | USA | TIMOTHY GARTON    | 100 M. FREE  | MARTHA MARTIN         | USA | 1988 | 1:04.10  |  |
| 2:06.79         | 1986 | USA | TIMOTHY GARTON    | 200 M. FREE  | C.IANNAcone           | USA | 1988 | 2:23.49  |  |
| 4:34.28         | 1988 | USA | BOB MOMSEN        | 400 M. FREE  | C.IANNAcone           | USA | 1988 | 5:05.38  |  |
| 9:39.54         | 1990 | USA | TYRONE TOZER      | 800 M. FREE  | C.IANNAcone           | USA | 1988 | 10:32.12 |  |
|                 |      |     |                   | 1500 M. FREE |                       |     |      |          |  |
| 30.49           | 1986 | USA | CHUCK GANTNER     | 50 M. BACK   | MARTHA MARTIN         | USA | 1988 | 34.81    |  |
| 1:07.69         | 1988 | USA | R TOD SPIEKER     | 100 M. BACK  | SATOKO TAKEUJI        | JPN | 1986 | 1:15.24  |  |
| 2:25.79         | 1988 | USA | R TOD SPIEKER     | 200 M. BACK  | SATOKO TAKEUJI        | JPN | 1986 | 2:49.91  |  |
| 33.10           | 1986 | MEX | RAFAEL HERNANDEZ  | 50 M. BRST   | JAN MACLEOD           | AUS | 1988 | 37.59    |  |
| 1:13.03         | 1986 | MEX | RAFAEL HERNANDEZ  | 100 M. BRST  | GINGER PIERSON        | USA | 1986 | 1:26.31  |  |
| 2:44.94         | 1990 | USA | HOWARD BUNCH      | 200 M. BRST  | GINGER PIERSON        | USA | 1986 | 3:07.35  |  |



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|   |      |     |                  |      |    |      |                   |     |      |          |
|---|------|-----|------------------|------|----|------|-------------------|-----|------|----------|
| 27.56                                   | 1988 | USA | STEVE MACRI      | 50   | M. | FLY  | MARTHA MARTIN     | USA | 1988 | 31.14    |
| 1:03.68                                 | 1988 | AUS | JOHN COVACEVICH  | 100  | M. | FLY  | MARTHA MARTIN     | USA | 1988 | 1:10.46  |
| 2:23.05                                 | 1988 | USA | BOO GALLAS       | 200  | M. | FLY  | PATRICIA JACKSON  | GBR | 1988 | 3:03.03  |
| 2:24.00                                 | 1990 | USA | TYRONE TOZER     | 200  | M. | I.M. | SANDRA O'NEIL     | GBR | 1990 | 2:46.82  |
| 5:13.40                                 | 1990 | AUS | JOHN COVACEVICH  | 400  | M. | I.M. | PATRICIA JACKSON  | GBR | 1988 | 6:27.14  |
| ***** MEN ***** 45-49 ***** WOMEN ***** |      |     |                  |      |    |      |                   |     |      |          |
| 25.30                                   | 1990 | USA | RICHARD ABRAHAMS | 50   | M. | FREE | MADARASZ CSILLA   | HUN | 1988 | 31.29    |
| 57.22                                   | 1990 | USA | TIMOTHY GARTON   | 100  | M. | FREE | YOSHIKO OOSAKI    | JPN | 1986 | 1:09.60  |
| 2:07.18                                 | 1990 | USA | TIMOTHY GARTON   | 200  | M. | FREE | YOSHIKO OOSAKI    | JPN | 1986 | 2:36.06  |
| 4:36.91                                 | 1988 | USA | TIMOTHY GARTON   | 400  | M. | FREE | LINNE WEIR        | USA | 1986 | 5:29.64  |
| 9:58.61                                 | 1988 | USA | EDWARD CAZALET   | 800  | M. | FREE | LINNE WEIR        | USA | 1986 | 11:21.32 |
|   |      |     |                  | 1500 | M. | FREE |                   |     |      |          |
| 31.07                                   | 1988 | HUN | JOZSEF CSIKANY   | 50   | M. | BACK | SATOKO TAKEUJI    | JPN | 1988 | 34.51    |
| 1:07.77                                 | 1988 | USA | ED BARTSCH       | 100  | M. | BACK | MARTA EGERVARY    | HUN | 1990 | 1:22.87  |
| 2:28.25                                 | 1988 | USA | ED BARTSCH       | 200  | M. | BACK | SATOKO TAKEUJI    | JPN | 1988 | 2:54.05  |
| 33.10                                   | 1986 | JPN | YOSHIHIKO OOSAKI | 50   | M. | BRST | ELAINE BROMWICH   | GBR | 1990 | 39.70    |
| 1:15.85                                 | 1986 | FRG | GUNTER SCHMAH    | 100  | M. | BRST | DIANE FORD        | GBR | 1988 | 1:29.17  |
| 2:46.45                                 | 1990 | ISR | GERSHON SHEFA    | 200  | M. | BRST | DIANE FORD        | GBR | 1988 | 3:10.49  |
| 27.78                                   | 1986 | JPN | RYUJI TAKAMINE   | 50   | M. | FLY  | HANIET BERGER     | FRG | 1990 | 34.90    |
| 1:03.42                                 | 1990 | USA | RICHARD ABRAHAMS | 100  | M. | FLY  | BARBARA HOELLEN   | USA | 1988 | 1:22.26  |
| 2:35.16                                 | 1988 | CAN | PETER GILMOUR    | 200  | M. | FLY  | BARBARA HOELLEN   | USA | 1988 | 3:13.41  |
| 2:24.98                                 | 1990 | USA | TIMOTHY GARTON   | 200  | M. | I.M. | HANIET BERGER     | FRG | 1990 | 2:55.92  |
| 5:17.20                                 | 1990 | USA | TIMOTHY GARTON   | 400  | M. | I.M. | JUDITH VAN BERKEL | NED | 1988 | 6:23.52  |
| ***** MEN ***** 50-54 ***** WOMEN ***** |      |     |                  |      |    |      |                   |     |      |          |
| 26.87                                   | 1986 | USA | DONALD HILL      | 50   | M. | FREE | JAYNE BRUNER      | USA | 1988 | 31.55    |
| 1:00.43                                 | 1990 | SWE | PETER BERGENGREN | 100  | M. | FREE | YOSHIKO OOSAKI    | JPN | 1988 | 1:09.16  |
| 2:14.39                                 | 1988 | USA | EDWARD HINSHAW   | 200  | M. | FREE | YOSHIKO OOSAKI    | JPN | 1988 | 2:37.33  |
| 4:51.06                                 | 1988 | USA | EDWARD HINSHAW   | 400  | M. | FREE | BARBARA WILSON    | AUS | 1986 | 6:03.14  |
| 10:04.71                                | 1988 | USA | EDWARD HINSHAW   | 800  | M. | FREE | JUTTA SEIDL       | GER | 1988 | 12:05.78 |
|   |      |     |                  | 1500 | M. | FREE |                   |     |      |          |
| 30.93                                   | 1988 | USA | JOHN SMITH       | 50   | M. | BACK | MOIRA LAMONT      | NED | 1990 | 38.66    |
| 1:10.14                                 | 1988 | USA | JOHN SMITH       | 100  | M. | BACK | MOIRA LAMONT      | NED | 1990 | 1:26.02  |
| 2:38.57                                 | 1988 | USA | JOHN SMITH       | 200  | M. | BACK | BARBARA JORDAN    | USA | 1988 | 3:08.54  |
| 33.38                                   | 1986 | JPN | HIROSHI KOTEGAWA | 50   | M. | BRST | JAYNE BRUNER      | USA | 1986 | 40.22    |
| 1:19.07                                 | 1986 | USA | MANUEL SANGUILY  | 100  | M. | BRST | JAYNE BRUNER      | USA | 1988 | 1:31.44  |
| 2:57.35                                 | 1988 | GER | GUNTER SCHMAH    | 200  | M. | BRST | LINDSAY LANT      | GBR | 1988 | 3:27.01  |
| 30.04                                   | 1988 | USA | JOHN SMITH       | 50   | M. | FLY  | HISAKO SATO       | JPN | 1988 | 36.62    |
| 1:10.45                                 | 1990 | AUS | PETER JACKSON    | 100  | M. | FLY  | JUTTA SEIDL       | GER | 1988 | 1:26.68  |
| 2:48.58                                 | 1988 | USA | BILL STEUART     | 200  | M. | FLY  | JUTTA SEIDL       | GER | 1988 | 3:20.21  |
| 2:38.29                                 | 1988 | USA | EDWARD HINSHAW   | 200  | M. | I.M. | JAYNE BRUNER      | USA | 1986 | 3:08.94  |
| 5:47.95                                 | 1988 | USA | EDWARD HINSHAW   | 400  | M. | I.M. | JUTTA SEIDL       | GER | 1988 | 6:41.95  |
| ***** MEN ***** 55-59 ***** WOMEN ***** |      |     |                  |      |    |      |                   |     |      |          |
| 28.15                                   | 1986 | AUS | JOHN BROWNJOHN   | 50   | M. | FREE | AKIKO SHIMIZU     | JPN | 1986 | 33.65    |
| 1:03.83                                 | 1986 | AUS | BOB BARRY        | 100  | M. | FREE | AKIKO SHIMIZU     | JPN | 1986 | 1:15.08  |
| 2:21.83                                 | 1990 | USA | BURWELL JONES    | 200  | M. | FREE | LAVELLE STOINOFF  | USA | 1988 | 2:44.84  |
| 5:03.98                                 | 1988 | USA | GRAHAM JOHNSTON  | 400  | M. | FREE | LAVELLE STOINOFF  | USA | 1988 | 5:45.18  |
| 10:32.20                                | 1990 | USA | BURWELL JONES    | 800  | M. | FREE | LAVELLE STOINOFF  | USA | 1988 | 11:43.14 |
|   |      |     |                  | 1500 | M. | FREE |                   |     |      |          |
| 33.84                                   | 1988 | USA | DON BROWN        | 50   | M. | BACK | AKIKO SHIMIZU     | JPN | 1986 | 41.15    |
| 1:14.78                                 | 1988 | USA | DON BROWN        | 100  | M. | BACK | KAREN BENDTSEN    | DEN | 1990 | 1:31.53  |
| 2:42.37                                 | 1988 | USA | DON BROWN        | 200  | M. | BACK | LAVELLE STOINOFF  | USA | 1988 | 3:12.86  |
| 34.80                                   | 1990 | USA | MANUEL SANGUILY  | 50   | M. | BRST | EDITH BOEHM       | FRG | 1986 | 42.94    |
| 1:19.33                                 | 1988 | USA | MANUEL SANGUILY  | 100  | M. | BRST | ANTOINETTE RODAHL | NZL | 1990 | 1:36.79  |
| 2:56.20                                 | 1990 | GBR | THOMAS WALKER    | 200  | M. | BRST | ANTOINETTE RODAHL | NZL | 1990 | 3:30.24  |
| 31.05                                   | 1990 | FRA | J. LOUIS LE DALL | 50   | M. | FLY  | GAIL ROPER        | USA | 1988 | 38.91    |
| 1:13.91                                 | 1988 | GER | MULLER WERNER    | 100  | M. | FLY  | GAIL ROPER        | USA | 1986 | 1:31.89  |
| 2:56.19                                 | 1988 | GER | MULLER WERNER    | 200  | M. | FLY  | GAIL ROPER        | USA | 1986 | 3:31.45  |
| 2:43.97                                 | 1990 | USA | BURWELL JONES    | 200  | M. | I.M. | GAIL ROPER        | USA | 1988 | 3:18.21  |
| 5:53.73                                 | 1990 | USA | BURWELL JONES    | 400  | M. | I.M. | LAVELLE STOINOFF  | USA | 1988 | 6:51.48  |
| ***** MEN ***** 60-64 ***** WOMEN ***** |      |     |                  |      |    |      |                   |     |      |          |
| 28.60                                   | 1986 | USA | PETER POWLISON   | 50   | M. | FREE | OLGA JOHNSON      | NZL | 1986 | 35.01    |
| 1:03.94                                 | 1986 | USA | PETER POWLISON   | 100  | M. | FREE | M. CUNNINGHAM     | AUS | 1988 | 1:21.94  |
| 2:26.94                                 | 1986 | USA | PETER POWLISON   | 200  | M. | FREE | ANNE ADAMS        | USA | 1988 | 2:58.16  |
| 5:22.17                                 | 1988 | USA | WINTHROP WILSON  | 400  | M. | FREE | GAIL ROPER        | AUS | 1990 | 6:14.67  |
| 11:16.03                                | 1988 | USA | WILLIAM PHILLIPS | 800  | M. | FREE | JUNE KRAUSER      | USA | 1988 | 13:17.79 |
|   |      |     |                  | 1500 | M. | FREE |                   |     |      |          |
| 34.83                                   | 1990 | BRA | ILO DA FONSECA   | 50   | M. | BACK | CLARA WALKER      | USA | 1986 | 41.11    |



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**LONG COURSE METERS as of 1990**

|   |      |                       |      |    |      |                   |     |      |          |
|---|------|-----------------------|------|----|------|-------------------|-----|------|----------|
| 1:19.90                                 | 1988 | USA PAUL HUTINGER     | 100  | M. | BACK | CLARA WALKER      | USA | 1986 | 1:31.06  |
| 3:00.45                                 | 1988 | USA PAUL HUTINGER     | 200  | M. | BACK | CLARA WALKER      | USA | 1986 | 3:16.98  |
| 38.31                                   | 1990 | USA JOSEPH KURTZMAN   | 50   | M. | BRST | EDITH BOEHM       | GER | 1988 | 42.49    |
| 1:29.13                                 | 1990 | FRG WERNER KRAUSE     | 100  | M. | BRST | EDITH BOEHM       | GER | 1988 | 1:38.72  |
| 3:12.06                                 | 1990 | ITA BRUNELLO GRAJA    | 200  | M. | BRST | EDITH BOEHM       | GER | 1988 | 3:45.17  |
| 33.11                                   | 1986 | USA FRANK PIEMME      | 50   | M. | FLY  | ANNE ADAMS        | USA | 1988 | 38.64    |
| 1:17.39                                 | 1988 | USA WINTHROP WILSON   | 100  | M. | FLY  | ANNE ADAMS        | USA | 1988 | 1:34.48  |
| 3:08.79                                 | 1988 | USA CHARLES MOSS      | 200  | M. | FLY  | JUNE KRAUSER      | USA | 1986 | 3:36.15  |
| 2:55.70                                 | 1988 | USA CHARLES MOSS      | 200  | M. | I.M. | CLARA WALKER      | USA | 1986 | 3:17.40  |
| 6:24.39                                 | 1988 | USA CHARLES MOSS      | 400  | M. | I.M. | GAIL ROPER        | USA | 1990 | 7:04.63  |
| ***** MEN ***** 65-69 ***** WOMEN ***** |      |                       |      |    |      |                   |     |      |          |
| 30.40                                   | 1990 | ECU A SANGSTER        | 50   | M. | FREE | M.CUNNINGHAM      | AUS | 1990 | 35.46    |
| 1:10.29                                 | 1988 | USA EDWARD HALL       | 100  | M. | FREE | M.CUNNINGHAM      | AUS | 1990 | 1:22.65  |
| 2:40.54                                 | 1986 | USA RAY TAFT          | 200  | M. | FREE | M.CUNNINGHAM      | AUS | 1990 | 3:05.50  |
| 5:47.50                                 | 1990 | ECU A SANGSTER        | 400  | M. | FREE | FLORENCE CARR     | USA | 1990 | 6:37.22  |
| 12:19.10                                | 1986 | JPN DOUMEI SUZUKI     | 800  | M. | FREE | FLORENCE CARR     | USA | 1990 | 13:35.16 |
|   |      |                       | 1500 | M. | FREE |                   |     |      |          |
| 37.03                                   | 1986 | USA RAY TAFT          | 50   | M. | BACK | J.DRAKE-BROCKMAN  | AUS | 1986 | 44.64    |
| 1:24.58                                 | 1988 | USA EDWARD HALL       | 100  | M. | BACK | BERYL ANDERSON    | AUS | 1986 | 1:39.37  |
| 3:12.68                                 | 1988 | USA EDWARD HALL       | 200  | M. | BACK | J.DRAKE-BROCKMAN  | AUS | 1986 | 3:41.61  |
| 39.00                                   | 1990 | FRG KARL HEINZ KNOPS  | 50   | M. | BRST | BETTY CHRISTIAN   | USA | 1988 | 48.93    |
| 1:30.38                                 | 1990 | FRG KARL HEINZ KNOPS  | 100  | M. | BRST | AGNES PLISSON     | FRA | 1990 | 1:50.59  |
| 3:16.90                                 | 1990 | FRG KARL HEINZ KNOPS  | 200  | M. | BRST | AGNES PLISSON     | FRA | 1990 | 4:03.06  |
| 35.93                                   | 1988 | USA JURGEN SCHMIDT    | 50   | M. | FLY  | M.CUNNINGHAM      | AUS | 1990 | 43.45    |
| 1:33.37                                 | 1990 | FRG KARL HEINZ KNOPS  | 100  | M. | FLY  | CATHERINE KERR    | CAN | 1986 | 1:54.60  |
| 3:20.00                                 | 1990 | FRG KARL HEINZ KNOPS  | 200  | M. | FLY  | SANDY STINSON     | USA | 1988 | 4:31.62  |
| 3:09.33                                 | 1986 | USA RAY TAFT          | 200  | M. | I.M. | FLORENCE CARR     | USA | 1990 | 3:36.20  |
| 7:10.52                                 | 1988 | USA RAY TAFT          | 400  | M. | I.M. | FLORENCE CARR     | USA | 1990 | 7:57.74  |
| ***** MEN ***** 70-74 ***** WOMEN ***** |      |                       |      |    |      |                   |     |      |          |
| 32.10                                   | 1990 | ARG MIRIO VISENTIN    | 50   | M. | FREE | FRANCES VORRATH   | AUS | 1986 | 39.87    |
| 1:14.22                                 | 1990 | ARG MIRIO VISENTIN    | 100  | M. | FREE | FRANCES VORRATH   | AUS | 1986 | 1:32.14  |
| 2:55.65                                 | 1986 | JPN HIKOJI UEKI       | 200  | M. | FREE | NANCY CLARK       | USA | 1986 | 3:50.24  |
| 6:15.31                                 | 1986 | JPN HIKOJI UEKI       | 400  | M. | FREE | CANDIDA GANDOLPHO | BRA | 1990 | 7:46.87  |
| 12:54.04                                | 1986 | JPN HIKOJI UEKI       | 800  | M. | FREE | MARIA LENK        | BRA | 1986 | 16:24.33 |
|   |      |                       | 1500 | M. | FREE |                   |     |      |          |
| 39.72                                   | 1986 | USA EDWARD SHEA       | 50   | M. | BACK | FRANCES VORRATH   | AUS | 1986 | 48.29    |
| 1:30.52                                 | 1986 | USA EDWARD SHEA       | 100  | M. | BACK | EDITH THEIN       | ISR | 1990 | 1:52.23  |
| 3:18.43                                 | 1988 | USA EDWARD SHEA       | 200  | M. | BACK | EDITH THEIN       | ISR | 1990 | 3:55.40  |
| 40.56                                   | 1990 | FRG WALTER MINNICH    | 50   | M. | BRST | CANDIDA GANDOLPHO | BRA | 1990 | 50.23    |
| 1:36.48                                 | 1990 | FRG WALTER MINNICH    | 100  | M. | BRST | CANDIDA GANDOLPHO | BRA | 1990 | 1:55.22  |
| 3:33.63                                 | 1988 | USA ALDO DA ROSA      | 200  | M. | BRST | CANDIDA GANDOLPHO | BRA | 1990 | 4:09.65  |
| 39.58                                   | 1988 | JPN Y MIYAMOTO        | 50   | M. | FLY  | GERTRUD ZINT      | USA | 1988 | 50.72    |
| 1:48.39                                 | 1988 | USA GEORGE RAFTER     | 100  | M. | FLY  | MARIA LENK        | BRA | 1986 | 2:05.84  |
| 3:43.54                                 | 1988 | USA ALDO DA ROSA      | 200  | M. | FLY  | MAXINE MERLINO    | USA | 1986 | 4:57.39  |
| 3:22.33                                 | 1988 | USA ALDO DA ROSA      | 200  | M. | I.M. | GERTRUD ZINT      | USA | 1988 | 4:10.08  |
| 7:16.35                                 | 1988 | USA ALDO DA ROSA      | 400  | M. | I.M. | EVA RAUNER        | FRG | 1990 | 8:33.57  |
| ***** MEN ***** 75-79 ***** WOMEN ***** |      |                       |      |    |      |                   |     |      |          |
| 33.89                                   | 1988 | USA WOODROW BOWERSOCK | 50   | M. | FREE | UME WADA          | JPN | 1986 | 41.88    |
| 1:20.15                                 | 1988 | USA WOODROW BOWERSOCK | 100  | M. | FREE | UME WADA          | JPN | 1986 | 1:39.28  |
| 3:12.21                                 | 1990 | USA GEORGE MAY        | 200  | M. | FREE | MARIA LENK        | BRA | 1990 | 3:58.71  |
| 6:57.41                                 | 1986 | JPN TOSHIO TERA0      | 400  | M. | FREE | MARIA LENK        | BRA | 1990 | 8:15.60  |
| 15:02.41                                | 1986 | JPN TOSHIO TERA0      | 800  | M. | FREE | MARIA LENK        | BRA | 1990 | 17:05.41 |
|   |      |                       | 1500 | M. | FREE |                   |     |      |          |
| 43.78                                   | 1988 | GER R.REINSTADTLER    | 50   | M. | BACK | MYRTLE WRIGHT     | AUS | 1986 | 51.07    |
| 1:35.40                                 | 1990 | USA EDWARD SHEA       | 100  | M. | BACK | MYRTLE WRIGHT     | AUS | 1986 | 1:58.40  |
| 3:29.38                                 | 1990 | USA EDWARD SHEA       | 200  | M. | BACK | MYRTLE WRIGHT     | AUS | 1986 | 4:20.86  |
| 42.68                                   | 1990 | JPN HIMORU YOSHIMOTO  | 50   | M. | BRST | MIZZI BUTZBACH    | FRG | 1986 | 59.10    |
| 1:43.77                                 | 1990 | JPN HIMORU YOSHIMOTO  | 100  | M. | BRST | MIZZI BUTZBACH    | FRG | 1986 | 2:07.86  |
| 4:08.08                                 | 1990 | USA JERRY EVERALL     | 200  | M. | BRST | MIZZI BUTZBACH    | FRG | 1986 | 4:36.72  |
| 45.16                                   | 1990 | USA WILLIAM GRANT     | 50   | M. | FLY  | MARIA LENK        | BRA | 1990 | 57.22    |
| 1:59.61                                 | 1988 | USA JOHN STINSON      | 100  | M. | FLY  | WIN KENNEDY       | USA | 1988 | 3:17.76  |
| 4:29.23                                 | 1988 | USA JOHN STINSON      | 200  | M. | FLY  | ANNE WILDER       | USA | 1990 | 6:23.74  |
| 4:00.37                                 | 1988 | USA JOHN STINSON      | 200  | M. | I.M. | MARIA LENK        | BRA | 1990 | 4:26.56  |
| 8:53.49                                 | 1990 | USA DICK WESTERFIELD  | 400  | M. | I.M. | ANNE WILDER       | USA | 1988 | 12:26.89 |
| ***** MEN ***** 80-84 ***** WOMEN ***** |      |                       |      |    |      |                   |     |      |          |
| 38.47                                   | 1988 | AUS FRANK GRIFFITHS   | 50   | M. | FREE | V.CHERRIMAN       | GBR | 1988 | 54.39    |
| 1:31.43                                 | 1988 | AUS FRANK GRIFFITHS   | 100  | M. | FREE | V.CHERRIMAN       | GBR | 1988 | 2:01.37  |



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|   |      |     |                  |      |    |      |                  |     |      |          |
|---|------|-----|------------------|------|----|------|------------------|-----|------|----------|
| 3:59.80                                 | 1988 | ITA | ALFREDO CHERCHI  | 200  | M. | FREE | V.CHERRIMAN      | GBR | 1988 | 4:34.01  |
| 8:20.66                                 | 1988 | ITA | ALFREDO CHERCHI  | 400  | M. | FREE | V.CHERRIMAN      | GBR | 1988 | 9:44.26  |
| 18:19.24                                | 1988 | ITA | ALFREDO CHERCHI  | 800  | M. | FREE | V.CHERRIMAN      | GBR | 1988 | 20:14.29 |
|   |      |     |                  | 1500 | M. | FREE |                  |     |      |          |
| 56.26                                   | 1988 | JPN | M ICHIHASHI      | 50   | M. | BACK | SALLY SCOTT      | USA | 1988 | 1:09.08  |
| 2:19.94                                 | 1988 | USA | PETER JURCZYK    | 100  | M. | BACK | SALLY SCOTT      | USA | 1988 | 2:34.39  |
| 4:49.05                                 | 1988 | USA | JIM PENFIELD     | 200  | M. | BACK | V.CHERRIMAN      | GBR | 1988 | 5:14.77  |
| 51.41                                   | 1988 | JPN | KENNOSUKE KOYAMA | 50   | M. | BRST | KATHERINE PELTON | USA | 1988 | 1:23.68  |
| 2:00.89                                 | 1988 | JPN | KENNOSUKE KOYAMA | 100  | M. | BRST | KATHERINE PELTON | USA | 1988 | 3:14.81  |
| 5:10.24                                 | 1988 | JPN | SHOHEI YOSHIDA   | 200  | M. | BRST | KATHERINE PELTON | USA | 1988 | 6:50.95  |
| 1:02.94                                 | 1988 | JPN | SHOHEI YOSHIDA   | 50   | M. | FLY  | MASUE HASEGAWA   | JPN | 1990 | 3:00.09  |
| 2:21.97                                 | 1988 | AUS | FRANK GRIFFITHS  | 100  | M. | FLY  | KATHERINE PELTON | USA | 1988 | 3:12.35  |
| 5:14.40                                 | 1988 | AUS | FRANK GRIFFITHS  | 200  | M. | FLY  | KATHERINE PELTON | USA | 1988 | 7:42.67  |
| 4:20.80                                 | 1988 | AUS | FRANK GRIFFITHS  | 200  | M. | I.M. | SALLY SCOTT      | USA | 1988 | 6:55.63  |
| 9:47.72                                 | 1988 | AUS | FRANK GRIFFITHS  | 400  | M. | I.M. | KATHERINE PELTON | USA | 1988 | 13:42.44 |
| ***** MEN ***** 85-89 ***** WOMEN ***** |      |     |                  |      |    |      |                  |     |      |          |
| 51.26                                   | 1988 | AUS | LOURENS SPARRIUS | 50   | M. | FREE | ELLA PECKHAM     | USA | 1986 | 1:14.90  |
| 1:43.03                                 | 1988 | USA | GUS LANGNER      | 100  | M. | FREE |                  |     |      |          |
| 3:56.13                                 | 1988 | USA | GUS LANGNER      | 200  | M. | FREE |                  |     |      |          |
| 8:15.55                                 | 1988 | USA | GUS LANGNER      | 400  | M. | FREE |                  |     |      |          |
| 17:11.21                                | 1988 | USA | GUS LANGNER      | 800  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 1500 | M. | FREE |                  |     |      |          |
| 1:11.16                                 | 1988 | AUS | LOURENS SPARRIUS | 50   | M. | BACK | ELLA PECKHAM     | USA | 1986 | 1:30.21  |
|   |      |     |                  | 100  | M. | BACK | ELLA PECKHAM     | USA | 1986 | 3:30.10  |
|   |      |     |                  | 200  | M. | BACK | ELLA PECKHAM     | USA | 1986 | 7:04.11  |
| 2:19.26                                 | 1988 | JPN | KYOJIRO KOZU     | 50   | M. | BRST | ELLA PECKHAM     | USA | 1988 | 3:29.77  |
| 2:36.30                                 | 1988 | USA | GUS LANGNER      | 100  | M. | BRST |                  |     |      |          |
| 5:36.05                                 | 1988 | USA | GUS LANGNER      | 200  | M. | BRST |                  |     |      |          |
|   |      |     |                  | 50   | M. | FLY  | ELLA PECKHAM     | USA | 1986 | 1:37.00  |
|   |      |     |                  | 100  | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 200  | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 200  | M. | I.M. |                  |     |      |          |
|   |      |     |                  | 400  | M. | I.M. |                  |     |      |          |
| ***** MEN ***** 90-94 ***** WOMEN ***** |      |     |                  |      |    |      |                  |     |      |          |
|   |      |     |                  | 50   | M. | FREE | VERA FERNANCE    | AUS | 1988 | 2:06.83  |
|   |      |     |                  | 100  | M. | FREE | VERA FERNANCE    | AUS | 1988 | 4:38.22  |
|   |      |     |                  | 200  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 400  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 800  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 1500 | M. | FREE |                  |     |      |          |
|   |      |     |                  | 50   | M. | BACK | VERA FERNANCE    | AUS | 1988 | 2:01.70  |
|   |      |     |                  | 100  | M. | BACK | VERA FERNANCE    | AUS | 1988 | 3:59.89  |
|   |      |     |                  | 200  | M. | BACK |                  |     |      |          |
|   |      |     |                  | 50   | M. | BRST |                  |     |      |          |
|   |      |     |                  | 100  | M. | BRST |                  |     |      |          |
|   |      |     |                  | 200  | M. | BRST |                  |     |      |          |
|   |      |     |                  | 50   | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 100  | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 200  | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 200  | M. | I.M. |                  |     |      |          |
|   |      |     |                  | 400  | M. | I.M. |                  |     |      |          |
| ***** MEN ***** 95-99 ***** WOMEN ***** |      |     |                  |      |    |      |                  |     |      |          |
|   |      |     |                  | 50   | M. | FREE |                  |     |      |          |
|   |      |     |                  | 100  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 200  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 400  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 800  | M. | FREE |                  |     |      |          |
|   |      |     |                  | 1500 | M. | FREE |                  |     |      |          |
|   |      |     |                  | 50   | M. | BACK |                  |     |      |          |
|   |      |     |                  | 100  | M. | BACK |                  |     |      |          |
|   |      |     |                  | 200  | M. | BACK |                  |     |      |          |
|   |      |     |                  | 50   | M. | BRST |                  |     |      |          |
|   |      |     |                  | 100  | M. | BRST |                  |     |      |          |
|   |      |     |                  | 200  | M. | BRST |                  |     |      |          |
|   |      |     |                  | 50   | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 100  | M. | FLY  |                  |     |      |          |
|   |      |     |                  | 200  | M. | FLY  |                  |     |      |          |



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**LONG COURSE METERS as of 1990**

|         |                           |       |                             |              |                   |       |         |  |
|---------|---------------------------|-------|-----------------------------|--------------|-------------------|-------|---------|--|
|         |                           |       |                             | 200 M. I. M. |                   |       |         |  |
|         |                           |       |                             | 400 M. I. M. |                   |       |         |  |
| *****   | MEN                       | ***** | 100-104                     | *****        | W O M E N         | ***** |         |  |
|         |                           |       |                             | 50 M. FREE   |                   |       |         |  |
|         |                           |       |                             | 100 M. FREE  |                   |       |         |  |
|         |                           |       |                             | 200 M. FREE  |                   |       |         |  |
|         |                           |       |                             | 400 M. FREE  |                   |       |         |  |
|         |                           |       |                             | 800 M. FREE  |                   |       |         |  |
|         |                           |       |                             | 1500 M. FREE |                   |       |         |  |
|         |                           |       |                             | 50 M. BACK   |                   |       |         |  |
|         |                           |       |                             | 100 M. BACK  |                   |       |         |  |
|         |                           |       |                             | 200 M. BACK  |                   |       |         |  |
|         |                           |       |                             | 50 M. BRST   |                   |       |         |  |
|         |                           |       |                             | 100 M. BRST  |                   |       |         |  |
|         |                           |       |                             | 200 M. BRST  |                   |       |         |  |
|         |                           |       |                             | 50 M. FLY    |                   |       |         |  |
|         |                           |       |                             | 100 M. FLY   |                   |       |         |  |
|         |                           |       |                             | 200 M. FLY   |                   |       |         |  |
|         |                           |       |                             | 200 M. I. M. |                   |       |         |  |
|         |                           |       |                             | 400 M. I. M. |                   |       |         |  |
|         |                           |       |                             |              |                   |       |         |  |
| *****   | RELAY 200 M. FREE - WOMEN | ***** | RELAY 200 M. MEDLEY - WOMEN | *****        |                   |       |         |  |
| 100-119 | LUMBER-JAX USA            | 1988  | 1:54.23                     | 100-119      | LUMBER-JAX USA    | 1988  | 2:10.52 |  |
| 120-159 | LUMBER-JAX USA            | 1988  | 1:53.56                     | 120-159      | LUMBER-JAX USA    | 1988  | 2:08.21 |  |
| 160-199 | LUMBER-JAX USA            | 1988  | 2:03.49                     | 160-199      | FENERALIMPEX SWE  | 1990  | 2:20.21 |  |
| 200-239 | HOLMES LUMBER USA         | 1990  | 2:13.96                     | 200-239      | S. CALIFORNIA USA | 1986  | 2:35.47 |  |
| 240-279 | LUMBER-JAX USA            | 1988  | 2:28.24                     | 240-279      | LUMBER-JAX A USA  | 1988  | 2:51.82 |  |
| 280-319 | LUMBER-JAX USA            | 1988  | 3:09.01                     | 280-319      | LUMBER-JAX USA    | 1988  | 3:41.70 |  |
|         |                           |       |                             |              |                   |       |         |  |
| *****   | RELAY 200 M. FREE - M E N | ***** | RELAY 200 M. MEDLEY - M E N | *****        |                   |       |         |  |
| 100-119 | C.R.FLAMENGO BRA          | 1990  | 1:37.40                     | 100-119      | LUMBER-JAX USA    | 1988  | 1:49.96 |  |
| 120-159 | LONE STAR USA             | 1986  | 1:37.43                     | 120-159      | LUMBER-JAX USA    | 1988  | 1:50.51 |  |
| 160-199 | HOLMES LUMBER USA         | 1990  | 1:39.27                     | 160-199      | HOLMES LUMBER USA | 1990  | 1:54.57 |  |
| 200-239 | OLYMPIC CLUB USA          | 1986  | 1:50.45                     | 200-239      | FENERALIMPEX SWE  | 1990  | 2:06.81 |  |
| 240-279 | LUMBER-JAX USA            | 1988  | 1:58.63                     | 240-279      | LUMBER-JAX USA    | 1988  | 2:21.34 |  |
| 280-319 | MID ATLANTIC USA          | 1986  | 2:18.63                     | 280-319      | LUMBER-JAX USA    | 1988  | 2:41.04 |  |
|         |                           |       |                             |              |                   |       |         |  |
| *****   | RELAY 200 M. FREE - MIXED | ***** | RELAY 200 M. MEDLEY - MIXED | *****        |                   |       |         |  |
| 100-119 | LUMBER-JAX USA            | 1988  | 1:43.89                     | 100-119      | LUMBER-JAX USA    | 1988  | 1:57.06 |  |
| 120-159 | LUMBER-JAX USA            | 1988  | 1:44.83                     | 120-159      | LUMBER-JAX USA    | 1988  | 2:00.97 |  |



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|                       |     |      |         |                       |     |      |         |
|-----------------------|-----|------|---------|-----------------------|-----|------|---------|
| 160-199 LUMBER-JAX    | USA | 1988 | 1:48.82 | 160-199 LUMBER-JAX    | USA | 1988 | 2:02.10 |
| 200-239 HOLMES LUMBER | USA | 1990 | 2:00.92 | 200-239 FENERALIMPEX  | SWE | 1990 | 2:18.58 |
| 240-279 LUMBER-JAX A  | USA | 1988 | 2:09.67 | 240-279 HOLMES LUMBER | USA | 1990 | 2:31.71 |
| 280-319 SAN MATEO     | USA | 1988 | 2:36.51 | 280-319 S.CALIFORNIA  | USA | 1986 | 3:03.75 |