

# Maraton Messiera 2015 – zima-wiosna

|                   | Messier    | typ | konstelacja | Star Guide | PSA   | Uranometria | Taki | Substyk | vidi |
|-------------------|------------|-----|-------------|------------|-------|-------------|------|---------|------|
| wieczorny sprint  | 20:30      |     |             |            |       |             |      |         |      |
|                   | 33         | G   | Tri         |            | 2,3   |             |      |         |      |
|                   | 41         | OC  | CMA         |            | 27    |             |      |         |      |
|                   | 93         | OC  | Pup         |            | 26    |             |      |         |      |
|                   | 42         | N   | Ori         |            | 16    |             |      |         |      |
|                   | 43         | N   | Ori         |            | 16    |             |      |         |      |
|                   | 78         | N   | Ori         |            | 14,16 |             |      |         |      |
|                   | 34         | OC  | Per         |            | 13    |             |      |         |      |
|                   | 45         | OC  | Tau         |            | 13,15 |             |      |         |      |
|                   | 76         | PN  | Per         |            | 2,13  |             |      |         |      |
|                   | 46         | OC  | Pup         |            | 26,27 |             |      |         |      |
|                   | 47         | OC  | Pup         |            | 26,27 |             |      |         |      |
|                   | 50         | OC  | Mon         |            | 27    |             |      |         |      |
|                   | 1          | SR  | Tau         |            | 14    |             |      |         |      |
| zimowe ostatki    | 21:30      |     |             |            |       |             |      |         |      |
|                   | 38         | OC  | Aur         |            | 12,14 |             |      |         |      |
|                   | 36         | OC  | Aur         |            | 12,14 |             |      |         |      |
|                   | 37         | OC  | Aur         |            | 12,14 |             |      |         |      |
|                   | 35         | OC  | Gem         |            | 12,14 |             |      |         |      |
|                   | 48         | OC  | Hya         |            | 26    |             |      |         |      |
|                   | 44         | OC  | Cnc         |            | 24    |             |      |         |      |
|                   | 67         | OC  | Cnc         |            | 24    |             |      |         |      |
| wiosenne porzadki | 22:00      |     |             |            |       |             |      |         |      |
| Leo               | 95         | G   | Leo         |            | 34    |             |      |         |      |
|                   | 96         | G   | Leo         |            | 34    |             |      |         |      |
|                   | 105        | G   | Leo         |            | 34    |             |      |         |      |
|                   | 65         | G   | Leo         |            | 34    |             |      |         |      |
|                   | 66         | G   | Leo         |            | 34    |             |      |         |      |
| Uma               | 81         | G   | UMa         |            | 31    |             |      |         |      |
|                   | 82         | G   | UMa         |            | 31    |             |      |         |      |
|                   | 97         | PN  | UMa         |            | 32    |             |      |         |      |
|                   | 108        | G   | UMa         |            | 32    |             |      |         |      |
|                   | 109        | G   | UMa         |            | 32    |             |      |         |      |
|                   | 40         | **  | UMa         |            | 32    |             |      |         |      |
|                   | 101        | G   | UMa         |            | 32,42 |             |      |         |      |
|                   | 102 (5866) | G   | Dra         |            | 42    |             |      |         |      |
| CVn               | 51         | G   | CVn         |            | 43    |             |      |         |      |
|                   | 63         | G   | CVn         |            | 43    |             |      |         |      |
|                   | 94         | G   | CVn         |            | 43    |             |      |         |      |
|                   | 106        | G   | CVn         |            | 43    |             |      |         |      |
|                   | 3          | GC  | CVn         |            | 43,44 |             |      |         |      |
| Com               | 53         | GC  | Com         |            | 45    |             |      |         |      |
|                   | 64         | G   | Com         |            | 45    |             |      |         |      |

# Maraton Messiera 2015 – Coma–Virgo

|                 | Messier | typ | konstelacja | Star Guide | PSA    | Uranometria | Taki | Substyk | vidi |
|-----------------|---------|-----|-------------|------------|--------|-------------|------|---------|------|
| Coma-Virgo      | 23:30   |     |             |            |        |             |      |         |      |
|                 | 60      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 59      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 58      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 89      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 90      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 87      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 84      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 86      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 88      | G   | Com         |            | dod. C |             |      |         |      |
|                 | 91      | G   | Com         |            | dod. C |             |      |         |      |
|                 | 99      | G   | Com         |            | dod. C |             |      |         |      |
|                 | 98      | G   | Com         |            | dod. C |             |      |         |      |
|                 | 100     | G   | Com         |            | dod. C |             |      |         |      |
|                 | 85      | G   | Com         |            | dod. C |             |      |         |      |
|                 | 49      | G   | Vir         |            | dod. C |             |      |         |      |
|                 | 61      | G   | Vir         |            | 45, 47 |             |      |         |      |
|                 | 104     | G   | Vir         |            | 47     |             |      |         |      |
| pełzająca Hydra | 68      | GC  | Hya         |            | 47     |             |      |         |      |
|                 | 83      | G   | Hya         |            | 46, 47 |             |      |         |      |
| zestaw kulek    | 1:30    |     |             |            |        |             |      |         |      |
|                 | 5       | GC  | Ser         |            | 55     |             |      |         |      |
|                 | 13      | GC  | Her         |            | 52     |             |      |         |      |
|                 | 92      | GC  | Her         |            | 52     |             |      |         |      |
|                 | 12      | GC  | Oph         |            | 54,56  |             |      |         |      |
|                 | 10      | GC  | Oph         |            | 54,56  |             |      |         |      |
|                 | 14      | GC  | Oph         |            | 54,56  |             |      |         |      |
|                 | 107     | GC  | Oph         |            | 56     |             |      |         |      |
|                 | 9       | GC  | Oph         |            | 56     |             |      |         |      |

# Maraton Messiera 2015 – lato

|                    | Messier | typ  | konstelacja | Star Guide | PSA   | Uranometria | Taki | Substyk | vidi |
|--------------------|---------|------|-------------|------------|-------|-------------|------|---------|------|
| lato w pełni       | 2:00    |      |             |            |       |             |      |         |      |
|                    | 57      | PN   | Lyr         |            | 63    |             |      |         |      |
|                    | 56      | GC   | Lyr         |            | 63    |             |      |         |      |
|                    | 71      | GC   | Sge         |            | 64    |             |      |         |      |
|                    | 27      | PN   | Vul         |            | 62,64 |             |      |         |      |
|                    | 29      | OC   | Cyg         |            | 62    |             |      |         |      |
|                    | 39      | OC   | Cyg         |            | 62    |             |      |         |      |
|                    | 52      | OC   | Cas         |            | 72    |             |      |         |      |
|                    | 103     | OC   | Cas         |            | 1     |             |      |         |      |
|                    | 31      | G    | And         |            | 3     |             |      |         |      |
|                    | 32      | G    | And         |            | 3     |             |      |         |      |
|                    | 110     | G    | And         |            | 3     |             |      |         |      |
| Scutum i podskucie | 2:30    |      |             |            |       |             |      |         |      |
|                    | 11      | OC   | Sct         |            | 67    |             |      |         |      |
|                    | 26      | OC   | Sct         |            | 67    |             |      |         |      |
|                    | 16      | OC   | Ser         |            | 67    |             |      |         |      |
|                    | 17      | N    | Sgr         |            | 67    |             |      |         |      |
|                    | 18      | OC   | Sgr         |            | 67    |             |      |         |      |
|                    | 24      | (OC) | Sgr         |            | 67    |             |      |         |      |
|                    | 25      | OC   | Sgr         |            | 67    |             |      |         |      |
|                    | 23      | OC   | Sgr         |            | 67    |             |      |         |      |
|                    | 21      | OC   | Sgr         |            | 67    |             |      |         |      |
|                    | 20      | N    | Sgr         |            | 67    |             |      |         |      |
|                    | 8       | N    | Sgr         |            | 67    |             |      |         |      |
|                    | 28      | GC   | Sgr         |            | 67    |             |      |         |      |
|                    | 22      | GC   | Sgr         |            | 67    |             |      |         |      |
| pełzający Skorpion | 3:10    |      |             |            |       |             |      |         |      |
|                    | 4       | GC   | Sco         |            | 56    |             |      |         |      |
|                    | 80      | GC   | Sco         |            | 56    |             |      |         |      |
|                    | 19      | GC   | Oph         |            | 56,58 |             |      |         |      |
|                    | 62      | GC   | Oph         |            | 56,58 |             |      |         |      |
|                    | 6       | OC   | Sco         |            | 58,69 |             |      |         |      |
|                    | 7       | OC   | Sco         |            | 58,69 |             |      |         |      |
|                    | 15      | GC   | Peg         |            | 75    |             |      |         |      |
|                    | 2       | GC   | Aqr         |            | 75,77 |             |      |         |      |
| słynna praczka     | 3:45    |      |             |            |       |             |      |         |      |
|                    | 72      | GC   | Aqr         |            | 66,77 |             |      |         |      |
|                    | 73      | ***  | Aqr         |            | 66,77 |             |      |         |      |
|                    | 75      | GC   | Sgr         |            | 66    |             |      |         |      |
|                    | 69      | GC   | Sgr         |            | 66    |             |      |         |      |
|                    | 70      | GC   | Sgr         |            | 66    |             |      |         |      |
|                    | 54      | GC   | Sgr         |            | 66    |             |      |         |      |
|                    | 55      | GC   | Sgr         |            | 66    |             |      |         |      |
|                    | 30      | GC   | Cap         |            | 77    |             |      |         |      |