

| Nazwa satelity       | Pozycja orbitalna | Data zdobycia | Wielkość anteny | Wiązki                                  | Konwerter                                   |
|----------------------|-------------------|---------------|-----------------|---|---|
| Hotbird 6/7/8        | 13°E              | 14.04.2012    | 65cm N          | Europe 6; Europe 8; Europe 9            | Ku-Band Maximum XO-11 0,1dB                 |
| Astra 1M/1L/1KR/2C   | 19,2°E            | 14.04.2012    | 65cm N          | 1M Europe, 1M Wide; Europe; 1KR; Europe | Ku-Band Sharp BS1R8EL100A 0,7dB             |
| 8. Astra 4A          | 4,8°E             | 17.04.2012    | 65cm N          | Nordic BSS                              | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   |               |                 | Europe BSS                              |   |
|                      |                   | 06.06.2013    | 80cm            | Europe FSS                              | Ku-Band Opticum LSP-02G 0,1dB               |
|                      |                   | 07.06.2013    | Mabo 150cm      | Nordic FSS                              |   |
| 9. Astra 1N          | 28,2°E            | 27.05.2012    | 65cm N          | PE                                      | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 14.08.2013    | Mabo 150cm      | UK                                      | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
| 10. Astra 2A         | 28,2°E            | 27.05.2012    | 65cm N          | 2A North                                | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   |               |                 | 2A South                                |   |
| 11. Astra 2B         | 28,2°E            | 27.05.2012    | 65cm N          | 2B North                                | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   |               |                 | 2B South                                |   |
| 12. Eutelsat 28A     | 28,5°E            | 27.05.2012    | 65cm N          | Fixed                                   | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   |               |                 | S1                                      |   |
| 13. Turksat 2A       | 42°E              | 28.05.2012    | 65cm N          | West 2A                                 | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 14.04.2013    | 80cm            | East 2A                                 | Ku-Band Opticum LSP-02G 0,1dB               |
| 14. Eutelsat 9A      | 9°E               | 29.05.2012    | 65cm N          | Europe                                  | Ku-Band Sharp BS1R8EL100A 0,7dB             |
| 15. Thor 5           | 0,8°W             | 29.05.2012    | 65cm N          | T2                                      | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 06.06.2013    | 80cm            | T1 Nordic                               | Ku-Band Opticum LSP-02G 0,1dB               |
| 16. Thor 6           | 0,8°W             | 29.05.2012    | 65cm N          | K1, K2                                  | Ku-Band Sharp BS1R8EL100A 0,7dB             |
| 17. Intelsat 10-02   | 1°W               | 29.05.2012    | 65cm N          | Spot 3                                  | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 31.05.2013    | Mabo 150cm      | Global                                  | C-Band PAUXIS PX-900 65dB                   |
|                      |                   | 03.08.2013    |                 | East Hemi                               |   |
| 18. Eutelsat 7A      | 7°E               | 30.05.2012    | 65cm N          | Europe A                                | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 30.05.2012    | 65cm N          | Europe B                                | Ku-Band Sharp BS1R8EL100A 0,7dB             |
|                      |                   | 04.06.2016    | Laminas AS-270  | Europe C                                | Ka-Band Inverto IDLK-SINL20-KAKU-OPP        |
| 19. Astra 3B         | 23,5°E            | 28.08.2012    | 65cm N          | European                                | Ku-Band Maximum XO-11 0,1dB                 |
|                      |                   | 28.08.2012    | 65cm N          | Pan European                            | Ku-Band Maximum XO-11 0,1dB                 |
|                      |                   | 02.07.2016    | Laminas AS-270  | Ka-Band                                 | Ka-Band Inverto IDLK-SINL20-KAKU-OPP        |
| 20. Amos 2           | 4°W               | 28.08.2012    | 65cm N          | EUH2                                    | Ku-Band Maximum XO-11 0,1dB                 |
| 21. Eutelsat 5A West | 5°W               | 28.08.2012    | 65cm N          | Super                                   | Ku-Band Maximum XO-11 0,1dB                 |
|                      |                   | 14.05.2013    | Mabo 150cm      | PanAtlantic                             | C-Band PAUXIS PX-900 65dB                   |

|                      |        |            |                |               |   |
|----------------------|--------|------------|----------------|---------------|---|
|                      |        | 12.08.2013 |                | Wide          | Ku-Band Opticum LSP-02G 0,1dB               |
|                      |        | 15.08.2013 |                | Steerable     | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
| 22. Amos 3           | 4°W    | 29.08.2012 | 65cm N         | EUH3          | Ku-Band Maximum XO-11 0,1dB                 |
|                      |        | 29.08.2012 | 65cm N         | EUV3          | Ku-Band Maximum XO-11 0,1dB                 |
|                      |        | 16.11.2019 | Laminas AS-270 | Middle East   | Ku-Band Aljano Black Panther 0,2dB          |
| 23. Turksat 3A       | 42°E   | 09.10.2012 | 80cm           | West 3A       | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 17.01.2013 |                | East 3A       | Ku-Band Opticum LSP-02G 0,1dB               |
| 24. Hellas Sat 2     | 39°E   | 09.10.2012 | 80cm           | F1            | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        |            |                | F2            |   |
|                      |        | 16.08.2013 | Mabo 150cm     | S2            | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
| 25. Intelsat 12      | 45°E   | 09.10.2012 | 80cm           | Europe        | Ku-Band Cabletech URZ0561 0,5dB             |
| 26. Eutelsat 36B     | 36°E   | 09.10.2012 | 80cm           | Eurasian      | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 31.12.2015 | Kovosat 115    | Russia        | Ku-Band Inverto Black Pro Circular 0,3dB    |
| 27. SES 5            | 5°E    | 11.10.2012 | 80cm           | Nordic        | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 11.11.2014 | Mabo 150cm     | Hemi          | C-Band PAUXIS PX-900 65dB                   |
| 28. Eutelsat 10A     | 10°E   | 10.11.2012 | 80cm           | Wide          | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 01.06.2014 | Mabo 150cm     | Global        | C-Band PAUXIS PX-900 65dB                   |
| 29. Eutelsat 3C      | 3,1°E  | 27.12.2012 | 80cm           | Wide          | Ku-Band Cabletech URZ0561 0,5dB             |
| 30. Eutelsat 16A     | 16°E   | 28.12.2012 | 80cm           | Europe A      | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 28.12.2012 |                | Europe B      | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 23.05.2016 |                | Europe C      | Ka-Band Inverto IDLK-SINL20-KAKU-OPP        |
| 31. Badr 4           | 26°E   | 29.12.2012 | 80cm           | BSS, FSS      | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 13.08.2013 | Mabo 150cm     | MBC           | Ku-Band Opticum LSP-02G 0,1dB               |
| 32. Eutelsat 8A West | 8°W    | 04.01.2013 | 80cm           | Europe        | Ku-Band Cabletech URZ0561 0,5dB             |
| 33. Express AM22     | 53°E   | 13.01.2013 | 80cm           | Wide Europe   | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        |            |                | Europe        |   |
|                      |        | 14.08.2013 | Mabo 150cm     | Steerable 2   | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
|                      |        | 26.06.2015 | Laminas AS-270 | Steerable 1   | Ku-Band Inverto Black Ultra 0,2dB           |
| 34. Eutelsat 36A     | 36°E   | 18.01.2013 | 80cm           | RU (circular) | Ku-Band Cabletech URZ0561 0,5dB             |
| 35. Astra 1G         | 31,5°E | 19.01.2013 | 80cm           | West          | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 27.10.2013 | Laminas AS-270 | East          | Ku-Band Technomate TM-1 Gold 0,1dB          |
| 36. Eutelsat 21B     | 21,5°E | 19.01.2013 | 80cm           | Wide          | Ku-Band Cabletech URZ0561 0,5dB             |
|                      |        | 22.04.2017 | Laminas AS-270 | Western       | Ku-Band Inverto Black Ultra 0,2dB           |
| 37. Telstar 12       | 15°W   | 24.01.2013 | 80cm           | Europe        | Ku-Band Cabletech URZ0561 0,5dB             |

|                              |        |            |                |                                 |   |
|------------------------------|--------|------------|----------------|---------------------------------|---|
| 38. Eutelsat 12 West A       | 12,5°W | 24.01.2013 | 80cm           | Europe                          | Ku-Band Cabletech URZ0561 0,5dB             |
| 39. Eutelsat 3A              | 3,3°E  | 06.03.2013 | 80cm           | EUNAfrica                       | C-Band PAUXIS PX-900 65dB                   |
| 40. Eutelsat 70B             | 70,5E  | 20.03.2013 | 80cm           | Wide                            | Ku-Band Opticum LSP-02G 0,1dB               |
| 41. Intelsat 20              | 68,5°E | 21.03.2013 | 80cm           | Europe&Africa                   | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 09.05.2013 | Mabo 150cm     | Landmass                        | C-Band PAUXIS PX-900 65dB                   |
| 42. Intelsat 17              | 66°E   | 23.03.2013 | 80cm           | Russia                          | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        |            |                | Europe & Middle East            |   |
| 43. NSS 12                   | 57°E   | 24.03.2013 | 80cm           | Middle East                     | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 08.07.2013 | Mabo 150cm     | West Hemi                       | C-Band PAUXIS PX-900 65dB                   |
|                              |        | 29.08.2013 | Mabo 150cm     | Central Asia                    | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
|                              |        | 17.04.2014 | Laminas AS-270 | East Africa                     | Ku-Band Technomate TM-1 Gold 0,1dB          |
| 44. Intelsat 902             | 62°E   | 26.03.2013 | 80cm           | Spot 2                          | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 31.07.2013 | Mabo 150cm     | West Hemi                       | C-Band PAUXIS PX-900 65dB                   |
|                              |        | 27.08.2014 | Laminas AS-270 | Spot 1                          | Ku-Band Aljano Black Panther 0,2dB          |
| 45. Eutelsat 33A             | 33°E   | 28.03.2013 | 80cm           | Spot C                          | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 07.06.2013 | Mabo 150cm     | Spot D                          | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 16.08.2013 |                | Spot B                          | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
| 46. Intelsat 10              | 47,5°E | 28.03.2013 | 80cm           | Europe&Africa                   | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        |            | Mabo 150cm     | Europe&Middle East              | Ku-Band Inverto Black Ultra C-120+Miffer 58 |
| 47. SES 4                    | 22°W   | 02.04.2013 | 80cm           | Europe&Middle East              | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 10.07.2013 | Mabo 150cm     | Global                          | C-Band PAUXIS PX-900 65dB                   |
| 48. Intelsat 905             | 24,5°W | 02.04.2013 | 80cm           | Spot 1, Spot 2                  | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 10.07.2013 | Mabo 150cm     | East Hemi                       | C-Band PAUXIS PX-900 65dB                   |
| 49. Intelsat 907             | 27,5°W | 02.04.2013 | 80cm           | Spot 1                          | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 03.08.2013 | Mabo 150cm     | East Hemi                       | C-Band PAUXIS PX-900 65dB                   |
| Hispasat 1C/1D/1E            | 30°W   | 02.04.2013 | 80cm           | Europe 1C; Europe 1D; Europe 1E | Ku-Band Opticum LSP-02G 0,1dB               |
| 53. Intelsat 26 (incl. 4.7°) | 50°E   | 15.04.2013 | 80cm           | Middle East                     | Ku-Band Opticum LSP-02G 0,1dB               |
| 54. Azerspace 1              | 46°E   | 19.04.2013 | Mabo 150cm     | Central Asia                    | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 14.06.2013 |                | Europe                          |   |
| 55. Nilesat 102              | 7°W    | 20.04.2013 | Mabo 150cm     | 102                             | Ku-Band Opticum LSP-02G 0,1dB               |
| 56. Eutelsat 7 West A        | 7,3°W  | 20.04.2013 | Mabo 150cm     | MENA                            | Ku-Band Opticum LSP-02G 0,1dB               |
|                              |        | 12.08.2013 |                | NWA                             |   |
| 57. Eutelsat 25C             | 25,5°E | 20.04.2013 | Mabo 150cm     | Wide                            | Ku-Band Opticum LSP-02G 0,1dB               |
| 58. Nimiq 1                  | 44,5°E | 21.04.2013 | Mabo 150cm     | Nieznanana (testy Arabsata)     | Ku-Band Opticum LSP-02G 0,1dB               |

|                  |        |            |                |                       |                               |
|------------------|--------|------------|----------------|-----------------------|-------------------------------|
| 59. Yamal 402    | 55°E   | 22.04.2013 | Mabo 150cm     | Northern              | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 23.07.2013 |                | Europe                |                               |
| 60. Intelsat 904 | 60°E   | 22.04.2013 | Mabo 150cm     | Spot 1                | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 31.07.2013 | Mabo 150cm     | West Hemi             | C-Band PAUXIS PX-900 65dB     |
| 61. ABS 1        | 75°E   | 23.04.2013 | Mabo 150cm     | North, South          | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 30.04.2013 |                | Spot A                | C-Band PAUXIS PX-900 65dB     |
|                  |        | 05.07.2013 |                | Spot B                |                               |
| 62. Apstar 7     | 76,5°E | 24.04.2013 | Mabo 150cm     | MENA                  | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 30.04.2013 |                | Global                | C-Band PAUXIS PX-900 65dB     |
| 63. Yamal 201    | 90°E   | 24.04.2013 | Mabo 150cm     | WideKu                | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 11.11.2013 |                | Wide C                | C-Band PAUXIS PX-900 65dB     |
| 64. Yamal 300K   | 90°E   | 24.04.2013 | Mabo 150cm     | Nord                  | Ku-Band Opticum LSP-02G 0,1dB |
| 65. NSS 6        | 95°E   | 24.04.2013 | Mabo 150cm     | Middle East           | Ku-Band Opticum LSP-02G 0,1dB |
| 67. Horizons 2   | 85,2°E | 25.04.2013 | Mabo 150cm     | RHDN                  | Ku-Band Opticum LSP-02G 0,1dB |
| 68. Intelsat 15  | 85,2°E | 25.04.2013 | Mabo 150cm     | Russia, Middle East   | Ku-Band Opticum LSP-02G 0,1dB |
| 69. Arabsat 5C   | 20°E   | 10.05.2013 | Mabo 150cm     | Wide                  | C-Band PAUXIS PX-900 65dB     |
| 70. Yamal 202    | 49°E   | 10.05.2013 | Mabo 150cm     | C                     | C-Band PAUXIS PX-900 65dB     |
| 71. Express AM44 | 11°W   | 30.05.2013 | Mabo 150cm     | Europe                | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 05.07.2013 |                | Wide C                | C-Band PAUXIS PX-900 65dB     |
| 72. Telstar 11N  | 37,4°W | 31.05.2013 | Mabo 150cm     | Europe & North Africa | Ku-Band Opticum LSP-02G 0,1dB |
| 73. Eutelsat 3D  | 3,1°E  | 29.06.2013 | 80cm           | Europe A, Europe B    | Ku-Band Opticum LSP-02G 0,1dB |
| 74. Intelsat 901 | 18°W   | 29.06.2013 | 80cm           | Spot 1                | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 30.07.2014 | Laminas AS-270 | East Hemi             | C-Band PAUXIS PX-900 65dB     |
| 75. Intelsat 903 | 34,5°W | 29.06.2013 | 80cm           | Spot 1                | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        | 02.08.2013 | Mabo 150cm     | NE Zone               | C-Band PAUXIS PX-900 65dB     |
|                  |        |            |                | Global                |                               |
|                  |        |            | East Hemi      |                       |                               |
| 76. Hylas 1      | 33°W   | 29.06.2013 | 80cm           | Ku                    | Ku-Band Opticum LSP-02G 0,1dB |
| 77. Intelsat 14  | 45°W   | 04.07.2013 | Mabo 150cm     | US/Europe Africa      | Ku-Band Opticum LSP-02G 0,1dB |
|                  |        |            | Laminas AS-270 | Europe/Africa         | C-Band PAUXIS PX-900 65dB     |
| 78. NSS 10       | 37,4°W | 05.07.2013 | Mabo 150cm     | Europe/Africa         | C-Band PAUXIS PX-900 65dB     |
| 79. Express AM2  | 80°E   | 07.07.2013 | Mabo 150cm     | Fixed C               | C-Band PAUXIS PX-900 65dB     |
| 80. Intelsat 906 | 64,2°E | 09.07.2013 | Mabo 150cm     | Global                | C-Band PAUXIS PX-900 65dB     |
|                  |        | 11.06.2014 |                | West Hemi             |                               |

|                            |        |            |                |   |  |
|----------------------------|--------|------------|----------------|---|--|
| 81. NSS 806                | 40,5°W | 21.07.2013 | Mabo 150cm     | East Hemi                               | C-Band PAUXIS PX-900 65dB                          |
| 82. SES 6                  | 40,5°W | 31.07.2013 | Mabo 150cm     | East Hemi                               | C-Band PAUXIS PX-900 65dB                          |
|                            |        | 29.03.2017 |                | East Atlantic                           | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
| 83. Rascom QAF1R           | 2,9°E  | 03.08.2013 | Mabo 150cm     | C-Band Continental                      | C-Band PAUXIS PX-900 65dB                          |
|                            |        | 04.04.2020 | Laminas AS-270 | North                                   | Ku-Band Aljano Black Panther 0,2dB                 |
| 84. Badr 6                 | 26°E   | 05.08.2013 | Mabo 150cm     | High                                    | C-Band PAUXIS PX-900 65dB                          |
|                            |        | 26.10.2013 | Laminas AS-270 | BSS (MENA)                              | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 85. Yahsat 1A              | 52,5°E | 14.08.2013 | Mabo 150cm     | East                                    | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
|                            |        |            |                | MENA                                    | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
|                            |        | 03.04.2016 | Kovosat 115    | Europe                                  | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| 86. Astra 2F               | 28,2°E | 14.08.2013 | Mabo 150cm     | Europe                                  | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
| 87. Arabsat 5A             | 30,5°E | 28.08.2013 | Mabo 150cm     | Pan-Arab                                | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
| 88. NSS 7                  | 20°W   | 02.09.2013 | Mabo 150cm     | Europe&Middle East                      | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
| 89. Badr 5                 | 26°E   | 26.10.2013 | Laminas AS-270 | Pan Arab (MENA FSS)                     | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 90. Eutelsat 25B Es'hail 1 | 25,5°E | 31.10.2013 | Laminas AS-270 | MENA                                    | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 91. Insat 4A               | 83°E   | 24.12.2013 | Mabo 150cm     | 4A-C                                    | C-Band PAUXIS PX-900 65dB                          |
| 92. Thaicom 5              | 78,5°E | 28.12.2013 | Mabo 150cm     | Global                                  | C-Band PAUXIS PX-900 65dB                          |
|                            |        | 30.04.2014 | Laminas AS-270 | Regional                                |  |
| 93. AMC-14 (incl. 16.5°)   | 29,5°E | 23.01.2014 | Laminas AS-270 | nieznana                                | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 94. Bonum 1                | 56°E   | 24.02.2014 | 80cm           | Siberia (kilkudniowa promocja sygnału?) | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 95. Paksat 1R              | 38°E   | 01.03.2014 | Laminas AS-270 | 1R C-Band                               | C-Band PAUXIS PX-900 65dB                          |
| 96. ABS-2                  | 74,9°E | 13.03.2014 | Mabo 150cm     | Russia                                  | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
|                            |        | 10.11.2019 | Mabo 150cm     | West Hemi                               | C-Band PAUXIS PX-900 65dB                          |
|                            |        | 19.04.2020 | Laminas AS-270 | MENA                                    | Ku-Band Inverto Black Ultra 0,2dB                  |
| 97. Chinasat 12A           | 87,5°E | 27.03.2014 | Mabo 150cm     | MENA                                    | Ku-Band Inverto Black Ultra C-120+Miffer 58        |
|                            |        | 04.04.2014 | Laminas AS-270 | Global                                  | C-Band PAUXIS PX-900 65dB                          |
| 98. Intelsat 11            | 43,1°W | 02.04.2014 | Laminas AS-270 | C-Band                                  | C-Band PAUXIS PX-900 65dB                          |
| 99. Kaz-Sat 2              | 86,5°E | 04.04.2014 | Laminas AS-270 | TV                                      | Ku-Band Technomate TM-1 Gold 0,1dB                 |
| 100. ST 2                  | 88°E   | 06.04.2014 | Laminas AS-270 | C-Band                                  | C-Band PAUXIS PX-900 65dB                          |
| 101. Turksat 4A            | 50°E   | 06.04.2014 | 80cm           | Faza testowa na 50E - West              | Ku-Band Maximum XO-11 0,1dB                        |
|                            | 42°E   | 04.07.2014 | Laminas AS-270 | East                                    | Ku-Band Inverto Black Ultra 0,2dB                  |
|                            |        |            |                | West                                    |  |
| Turkey                     |        |            |                |   |  |
| 102. Intelsat 25           | 31,5°W | 17.04.2014 | Laminas AS-270 | West Africa                             | Ku-Band Technomate TM-1 Gold 0,1dB                 |

|                         |        |            |                |  |  |
|-------------------------|--------|------------|----------------|--|--|
| 103. Insat 4B           | 93,5°E | 04.05.2014 | Laminas AS-270 | ECC                                      | C-Band PAUXIS PX-900 65dB                          |
|                         |        |            |                | Ku                                       | Ku-Band Inverto Black Ultra 0,2dB                  |
| 104. Insat 3A           | 93,5°E | 04.05.2014 | Laminas AS-270 | India                                    | C-Band PAUXIS PX-900 65dB                          |
|                         |        |            |                | Ku                                       | Ku-Band Inverto Black Ultra 0,2dB                  |
| 105. Amos 5             | 17°E   | 01.06.2014 | Laminas AS-270 | Pan African                              | C-Band PAUXIS PX-900 65dB                          |
|                         |        | 31.07.2014 |                | Ku-2 South-Central                       | Ku-Band Aljano Black Panther 0,2dB                 |
|                         |        | 31.07.2014 |                | Ku-1 West-Central                        | Ku-Band Inverto Black Ultra 0,2dB                  |
| 106. Astra 5B           | 31,5°E | 05.06.2014 | 80cm           | 5B Wide                                  | Ku-Band Maximum XO-11 0,1dB                        |
|                         |        |            |                | 5B High                                  |  |
| 107. Eutelsat 3B        | 3,1°E  | 04.07.2014 | Laminas AS-270 | Europe                                   | Ku-Band Inverto Black Ultra 0,2dB                  |
|                         |        | 06.07.2014 |                | C-Band                                   | C-Band PAUXIS PX-900 65dB                          |
| 108. Astra 1F           | 44,5°E | 06.03.2015 | Laminas AS-270 | Wiązka nadawania podczas testów na 44,5E | Ku-Band Inverto Black Ultra 0,2dB                  |
| 109. Express-AM7        | 40°E   | 03.06.2015 | Mabo 150cm     | Fixed (C-Band)                           | C-Band PAUXIS PX-900 65dB                          |
|                         |        | 28.09.2016 | Kovosat 115    | Fixed2 (Ku-Band)                         | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| 110. Express AM6        | 53°E   | 03.06.2015 | Mabo 150cm     | Fixed 1 (C-Band)                         | C-Band PAUXIS PX-900 65dB                          |
|                         |        | 20.06.2015 | Laminas AS-270 | Fixed 1 (Ku-Band)                        | Ku-Band Inverto Black Ultra 0,2dB                  |
|                         |        | 26.06.2015 |                | Fixed 2 (Ku-Band)                        |  |
| 111. TurkmenAlem 520E   | 52°E   | 03.06.2015 | Mabo 150cm     | West                                     | Ku-Band Inverto Black Ultra 0,2dB                  |
|                         |        | 25.03.2016 | Laminas AS-270 | East                                     |  |
| 112. Thor 7             | 0,8°W  | 13.09.2015 | Kovosat 115    | CEE                                      | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| Astra 2E/2G             | 28,2°E | 18.09.2015 | Kovosat 115    | 2E Europe/2G Europe                      | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| 115. Eutelsat 8 West B  | 8°W    | 15.11.2015 | Kovosat 115    | Europe                                   | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
|                         |        | 28.09.2017 | Laminas AS-270 | Global                                   | C-Band PAUXIS PX-900 65dB                          |
| 116. Turksat 4B         | 50°E   | 10.12.2015 | Kovosat 115    | West                                     | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| 117. ABS-3A             | 3°W    | 12.12.2015 | Laminas AS-270 | Europe                                   | Ku-Band Aljano Black Panther 0,2dB                 |
|                         |        | 13.12.2015 |                | East Hemi                                | C-Band PAUXIS PX-900 65dB                          |
|                         |        | 26.03.2020 |                | Global                                   | C-Band PAUXIS PX-900 65dB                          |
| 118. Express AM8        | 14°W   | 22.12.2015 | Kovosat 115    | Ku-1                                     | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
|                         |        | 22.12.2015 | Laminas AS-270 | Ku-2                                     | Ku-Band Inverto Black Ultra 0,2dB                  |
|                         |        | 01.04.2020 | Laminas AS-270 | Fixed-1                                  | Dreamtech GTP-1100C C-Band LNBF                    |
| 119. Telstar 12 Vantage | 15°W   | 29.12.2015 | Kovosat 115    | Europe&Middle East                       | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
| 120. Eutelsat 36C       | 36°E   | 11.02.2016 | Kovosat 115    | Russia                                   | Ku-Band Inverto Black Pro Circular 0,3dB           |
| 121. Belintersat 1      | 51,5°E | 02.03.2016 | Kovosat 115    | Europe                                   | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
|                         |        | 18.06.2016 | Laminas AS-270 | Africa                                   | C-Band PAUXIS PX-900 65dB                          |

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| 122. Eutelsat 9B             | 9°E    | 11.03.2016 | Kovosat 115    | Wide               | Ku-Band Inverto Black Ultra C-120+Kovosat feed     |
|                              |        | 11.03.2016 | Kovosat 115    | Germany A          | Ku-Band Inverto Black Ultra C-120+Kovosat feed     |
|                              |        | 11.03.2016 | Kovosat 115    | Greece             | Ku-Band Inverto Black Ultra C-120+Kovosat feed     |
|                              |        | 21.05.2016 | Kovosat 115    | Nordic Baltic      | Ku-Band Inverto Black Ultra C-120+Kovosat feed     |
|                              |        | 11.01.2020 | Laminas AS-270 | Italy              | Ku-Band Inverto Black Ultra 0,2dB                  |
| 123. G-Sat 15                | 93,5°E | 02.04.2016 | Laminas AS-270 | India              | Ku-Band Aljano Black Panther 0,2dB                 |
| 124. Badr 7                  | 26°E   | 31.10.2016 | Laminas AS-270 | East MENA          | Ku-Band Inverto Black Ultra 0,2dB                  |
|                              |        | 31.03.2020 | Hollex R-120   | NW Africa          | Titanium Smart TSX Single Universal 0,2dB          |
| 125. Intelsat 33e            | 60°E   | 23.02.2017 | Kovosat 115    | Spot-N28           | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
|                              |        | 25.02.2017 | Kovosat 115    | Spot-N34           | Ku-Band Inverto Black Ultra C-120+Kovosat feedhorn |
|                              |        | 03.03.2017 | Laminas AS-270 | Spot-N40           | Ku-Band Inverto Black Ultra 0,2dB                  |
|                              |        | 26.09.2017 | Kovosat 115    | Spot-N29           | Ku-Band Inverto White Flange+Kovosat feedhorn      |
|                              |        | 28.09.2017 | Laminas AS-270 | Sub-Saharan        | C-Band PAUXIS PX-900 65dB                          |
|                              |        | 28.09.2017 | Laminas AS-270 | Spot-4             | C-Band PAUXIS PX-900 65dB                          |
| 126. Amos 4                  | 65°E   | 22.06.2017 | Laminas AS-270 | India              | Ku-Band Aljano Black Panther 0,2dB                 |
| 127. Hellas Sat 3            | 39°E   | 28.08.2017 | Kovosat 115    | Europe             | Ku-Band Inverto White Flange +Kovosat feedhorn     |
| 128. ABS-2A                  | 74,7°E | 29.08.2017 | Laminas AS-270 | Russia             | Ku-Band Inverto Black Ultra 0,2dB                  |
| 129. Intelsat 35e            | 34,5°W | 02.10.2017 | Laminas AS-270 | Europe Mediternean | Ku-Band Inverto Black Ultra 0,2dB                  |
|                              |        |            |                | Global             | C-Band PAUXIS PX-900 65dB                          |
| 130. Alcomsat 1              | 24,8°W | 26.03.2018 | Laminas AS-270 | NorthAfrica        | Ku-Band Inverto Black Ultra 0,2dB                  |
| 131. Intelsat 37e            | 18°W   | 29.03.2018 | Laminas AS-270 | Africa Europe      | Ku-Band Inverto Black Ultra 0,2dB                  |
| 132. BulgariaSat-1           | 1,9°E  | 19.09.2018 | Hollex R-120   | Europe             | Ku-Band Titanium Smart TSX Single Universal 0,2dB  |
| 133. Yamal 601               | 49°E   | 30.07.2019 | Mabo 150       | 601C               | C-Band PAUXIS PX-900 65dB                          |
| 134. Intelsat 39             | 62°E   | 17.10.2019 | Hollex R-120   | Middle East        | Ku-Band Titanium Smart TSX Single Universal 0,2dB  |
|                              |        | 09.11.2019 | Laminas AS-270 | West Hemi          | C-Band PAUXIS PX-900 65dB                          |
| 135. Azerspace 2/Intelsat 38 | 45°E   | 09.11.2019 | Mabo 150       | Europe             | Ku-Band Inverto White Flange+Miffer 58             |
| 137. Amos 7                  | 4°W    | 11.11.2019 | Laminas AS-270 | CEE                | Ku-Band Aljano Black Panther 0,2dB                 |
| 138. Arabsat 6A              | 30,5°E | 20.12.2019 | Laminas AS-270 | FSS                | Ku-Band Best Germany HG101 0,1dB                   |
| 138. Hellas Sat 4            | 39°E   | 21.12.2019 | Hollex R-120   | Europe-FSS         | Ku-Band Titanium Smart TSX Single Universal 0,2dB  |
| 139. Eutelsat 5 West B       | 5°W    | 11.01.2020 | Hollex R-120   | Transalpine        | Ku-Band Titanium Smart TSX Single Universal 0,2dB  |
| 140. Eutelsat 7C             | 7°E    | 28.01.2020 | Hollex R-120   | Eastern            | Ku-Band Titanium Smart TSX Single Universal 0,2dB  |
|                              |        |            |                | Western            |  |
| 141. G-Sat-30                | 83°E   | 15.02.2020 | Laminas AS-270 | C                  | C-Band Dreamtech GTP-1100C C-Band LNBF             |
| 142. G-Sat-10                | 83°E   | 15.02.2020 | Laminas AS-270 | C                  | C-Band Dreamtech GTP-1100C C-Band LNBF             |

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| 143. G-Sat 17    | 93,5°E | 16.02.2020 | Laminas AS-270 | India              | C- Band Dreamtech GTP-1100C C-Band LNBF |
| 144. Intelsat 22 | 72,1°E | 07.04.2020 | Laminas AS-270 | West Hemi          | C- Band Dreamtech GTP-1100C C-Band LNBF |
|                  |        |            |                | Middle East/Africa | Ku-Band Aljano Black Panther 0,2dB      |
| 145. SES-14      | 47,5°W | 22.02.2021 | Laminas AS-270 | Europe America     | C- Band Dreamtech GTP-1100C C-Band LNBF |
| 145. Express-80  | 80°E   | 18.03.2021 | Mabo 150       | C                  | Ku-Band Inverto White Flange+Miffer 58  |
| 146. Turksat 5A  | 31°E   | 27.06.2021 | Laminas AS-270 | Turkiye            | Ku-Band Inverto Black Ultra 0,2dB       |