

Universidade do Minho

MIEBIOM

**Trabalho de Grupo 1**

**Comunicações e Redes**

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| --- | --- | --- | --- | --- | --- |
| Satellite | How many km away? | What kind of orbit? | How long is delay? | Period? | Purpose |
| GORIZONT 29 [1][2][3] | Perigee: 35,037 km Apogee: 35,088 km | Geostationary orbit | 37min\* | 1,399min  (23h19min) | Communications:   * Transmission of TV programs from Moscow; * Telephone and telegraph communications; * Communications between sea vessels and their control facilities; * Transmission of newspaper layouts. |
| ORBCOMM FM 15[4][5][6] | Perigee: 816 km  Apogee: 826 km | Low Earth orbit (type: Intermediate) | 12min\* | 101min (1h41 min) | Communications:   * Provide global messaging services. |
| NILESAT 101 [7] | Perigee:  36 537km  Apogee:  36 704km | Graveyard orbit | 42min | 24.64 hours | Communications:   * Terrestrial Direct-to-Home TV; * Radio Broadcasting; * Multimedia and Data services for countries in North Africa, South Europe and the Middle East. |
| NILESAT 102 [8][9][10] | Perigee:  35 779 km  Apogee:  35 808 km | Geostationary orbit | 0,1min | 1436min  (23,93 h) |
| IRIDIUM 60 [11][12] [13] | Perigee: 620km  Apogee:  635km | Low Earth Orbit  (type: Polar) | 9min\* | 100.38min  (1,67h) | Communications:   * Voice and data coverage to satellite phones; * Pagers and integrated transceivers over Earth's entire surface. |

\* Torbit - Treal = Delay (min)

[1] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftDisplay.do?id=1993-072A Acesso em 1/10/2014.

[2] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftOrbit.do?id=1993-072A Acesso em 1/10/2014.

[3] http://www.n2yo.com/satellite/?s=22907 Acesso em 2/10/2014.

[4] [FIND THE BEST. [online]http://satellites.findthebest.com/l/686/ORBCOMM-FM-15 Acesso em 3/10/2014.

[5] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftDisplay.do?id=1998-046C Acesso em 3/10/2014.

[6] http://www.n2yo.com/satellite/?s=25418 Acesso em 3/10/2014.

[7] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftDisplay.do?id=1998-024A Acesso em 5/10/2014.

[8] http://www.n2yo.com/satellite/?s=26470 Acesso em 3/10/2014.

[9] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/masterCatalog.do?sc=2000-046B Acesso em 1/10/2014.

[10] NILESAT. [online] http://nilesat.com.eg/Satellite/NileSat102/TechnicalInformation.aspx Acesso em 3/10/2014.

[11] FIND THE BEST [online] http://satellites.findthebest.com/ Acesso em 4/10/2014.

[12] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftDisplay.do?id=1998-019E Acesso em 4/10/2014.

[13] NASA. [online] http://nssdc.gsfc.nasa.gov/nmc/spacecraftOrbit.do?id=1998-019E0 Acesso em 3/10/2014.