

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.
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| ORBCOMM FM 15[4][5][6] | Perigee: 816 kmApogee: 826 km | Low Earth orbit (type: Intermediate) | 12min\* | 101min (1h41 min) | Communications:* Provide global messaging services.
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| NILESAT 101 [7] | Perigee: 36 537kmApogee: 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.
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| NILESAT 102 [8][9][10] | Perigee: 35 779 kmApogee: 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.
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\* 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.