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NASA TV HD and NASA TV UHD distributed on Eutelsat satellites

Paris, 12 April 2018 – Eutelsat Communications (Euronext Paris: ETL), one of the world's leading satellite operators, today announced that the NASA High Definition (NTV-3) and NASA Ultra High Definition (NTV-4) channels are broadcasting in free-to-air via satellite for the first time across Europe, the Middle East, North Africa and Sub-Saharan Africa.

Viewers from across these regions can now enjoy exceptional images from the U.S. space programme, including coverage of launches, life on-board the International Space Station, Earth views from space, deep space exploration,

the solar system, Mars, replay of NASA classics such as the Apollo programme, and documentaries on NASA's latest R&D work.

- **NASA TV HD** is transmitted free-to-air from the popular HOTBIRD video neighbourhood at 13° East for viewers in Europe, the Middle East and North Africa, and via the 7° East video neighbourhood for viewers in Sub-Saharan Africa.
- **NASA TV UHD** is also broadcast on the HOTBIRD and 7° East video neighbourhoods, as well as the FRANSAT TV platform via the EUTELSAT 5 West A satellite, for subscribers equipped with an Ultra HD-compatible TV set*. The channel, produced by Harmonic, leverages Harmonic's latest Ultra HD end-to-end media processing and delivery technologies, with image resolution levels four times higher than standard HD.

Eutelsat is the first satellite operator to make NASA TV channels accessible to a large and rapidly growing audience base across Europe, the Middle East, North Africa and Sub-Saharan Africa. Offering an unequalled viewing experience, the addition of NASA TV UHD underlines the continuous expansion of Ultra HD content transmitted via Eutelsat's fleet of satellites.

** Viewers must be equipped with a recent 4K Ultra HD TV set with an integrated satellite tuner certified by FRANSAT, as well as a CI+ CAM module.*

Photo credit: Harmonic

How to receive the channels

- **NASA TV UHD (NTV-4) – 4k UHD, HEVC encoding**

From HOTBIRD (13° East)

Frequency: 11373 MHz

Horizontal polarization, DVB-S2, 8PSK, FEC 3/4

Symbol rate: 27500

From EUTELSAT 7B (7° East)

Frequency: 10887 MHz
Horizontal polarization, DVB-S2, QPSK, FEC 4/5
Symbol rate: 30000

From EUTELSAT 5 West A (5° West)
FRANSAT
Frequency: 12732 MHz
Vertical polarization, DVB-2, 8PSK, FEC 3/4
Symbol rate: 29950

- **NASA TV HD (NTV-3) – MPEG-4 encoding**

From HOTBIRD (13° East)
Frequency: 11373 MHz
Horizontal polarization, DVB-S2, 8PSK, FEC 3/4
Symbol rate: 27500

From EUTELSAT 7B (7° East)
Frequency: 10887 MHz
Horizontal polarization, DVB-S2, QPSK, FEC 4/5
Symbol rate: 30000

About Eutelsat Communications

Founded in 1977, Eutelsat Communications is one of the world's leading satellite operators. With a global fleet of satellites and associated ground infrastructure, Eutelsat enables clients across Video, Data, Government, Fixed and Mobile Broadband markets to communicate effectively to their customers, irrespective of their location. Over 6,800 television channels operated by leading media groups are broadcast by Eutelsat to one billion viewers equipped for DTH reception or connected to terrestrial networks. Headquartered in Paris, with offices and teleports around the globe, Eutelsat assembles 1,000 men and women from 44 countries who are dedicated to delivering the highest quality of service.

Eutelsat Communications is listed on the Euronext Paris Stock Exchange

(ticker: ETL).

For more about Eutelsat go to www.eutelsat.com

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