

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of)
)
)
Expanding Flexible Use in Mid-Band Spectrum) GN Docket No. 17-183
Between 3.7 and 24 GHz)
)

COMMENTS OF THE AMERICAN CABLE ASSOCIATION



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I. INTRODUCTION AND SUMMARY

The American Cable Association (“ACA”)¹ submits its comments on the above-captioned Notice of Inquiry, where the Commission seeks input on “potential opportunities for additional flexible access—particularly for wireless broadband services”² to a number of frequency bands, including the 3.7-4.2 GHz and 5.925-6.425 GHz bands. These bands (the downlinks and uplinks of the so-called “C-band”) are used on a primary basis by dozens of operational satellites in the Fixed-Satellite Service (“FSS”).³

ACA offers these comments to underscore the critical importance of satellite operations in the C-band and dispel the myth that much of the C-band spectrum lies fallow, or is treated as a cushion to fall back on by the satellite operators. There is nothing luxurious about the use of the

¹ ACA represents over 700 small and medium-sized cable, phone and fiber-to-the-home independent operators providing services across the United States in small and rural markets and in competition to larger providers in urban markets. These operators deliver services to about 7 million households and businesses. All ACA members offer multichannel video programming distributor (“MVPD”) service to their customers.

² Expanding Flexible Use in Mid-Band Spectrum Between 3.7 and 24 GHz, *Notice of Inquiry*, 32 FCC Rcd. 6373, 6373 ¶ 1 (2017) (“*Mid-Band NOI*”). The Notice of Inquiry estimates the number of satellites at about 48. *Id.* ¶ 14. But this estimate appears to include in-orbit spares and satellites that cannot provide video service to much of the U.S. at an acceptable angle.

³ *Mid-Band NOI*, 32 FCC Rcd. at 6378 ¶ 14.

C-band for the satellite backhaul of video to MVPDs, broadcast stations and other users.

Virtually all MVPDs across the country, including hundreds of small and mid-sized cable operators, pick up that programming by means of thousands of receive-only earth stations, both registered and unregistered, and then deliver it to the more than 90 million MVPD households. In fact, ACA demonstrates herein that the video programming carried by C-band satellites comprises an astonishing number of channels—almost 2,000—and takes 308 transponders on 24 satellites. With the upgrade of resolution quality to 4K, the demand for the C-band will soon handily exceed the satellite capacity available today.

Parties such as the Fixed Wireless Communications Coalition nevertheless try to paint the traffic congestion of today, and the even worse jam to come soon, into a picture of spectrum disuse on the ground that any particular earth station typically receives a subset of these channels. But it is the entire video load travelling on the satellites that matters for a number of reasons: it would cause interference across the C-band spectrum into the receivers of a new terrestrial service; the C-band backhaul business model depends on the ability of each programmer to send its content anywhere in the country; and 4K resolution will multiply the bandwidth that each individual MVPD needs to receive, too.

For many ACA members, the C-band is the only method by which they receive cable programming, as alternative conduits are unavailable, inadequate or inefficient and would have to be paid for by the cable operators themselves, burdening further the finances of rural businesses counting every penny to make ends meet. Thus, lessening the primary protection of satellite operations across the band would have a hugely disruptive impact on the video programming distribution industry. For the hundreds of operators using many thousands of earth stations, both registered and unregistered, such a reduction in interference protection would

result in dramatic shortages of backhaul capacity, and would completely vitiate the competitive choices that programmers have today for delivering their programming to headends. And that would be the best-case scenario. Under the worst-case scenario, the entire industry would be uprooted and forced to migrate to new modes of delivery at a cost that would run into the billions, and perhaps the tens of billions, of dollars. Ejecting video backhaul from the C-band would also deal a serious blow to the cause of advanced television, which the Commission is seeking to advance in other proceedings,⁴ at a time when the bandwidth requirements for the delivery of programming are on the cusp of a steep increase.

ACA applauds spectrum efficiency, and indeed supports the Commission's initiative for more intensive use of all mid-band spectrum, including greater use by terrestrial services. But the evaluation of any such opportunities must be subject to the Hippocratic principle—first, do no harm. That principle applies with special force where the harm to be avoided would be to the service that provides an important link between video content and millions of Americans concentrated in the nation's rural heartland. If the Commission allows wider use of the band, it should preserve the primary status of the Fixed-Satellite Service, establish concrete, immediate-response enforcement mechanisms to avert interference, and explore a streamlined system for the thousands of unregistered stations to become registered.

⁴ Remarks of FCC Chairman Ajit Pai at the National Associations of Broadcasters Show (Apr. 25, 2017), https://apps.fcc.gov/edocs_public/attachmatch/DOC-344558A1.pdf (“My view is simple: As with any industry, the FCC should promote innovation in the broadcasting business—not stand in the way of progress. We should allow interested broadcasters to experiment with [ATSC 3.0].”).

II. THE BAND IS NOT UNDERUTILIZED BY THE SATELLITE SERVICE, AND LOSS OF PRIMARY PROTECTION WOULD BE EXTREMELY DISRUPTIVE TO THE VIDEO PROGRAMMING INDUSTRY

In considering additional uses of the band (for example, licensed fixed point-to-multipoint service or unlicensed fixed service),⁵ the Commission must be mindful of the impact that such uses may have on the existing Fixed-Satellite Service and users, who use more spectrum, and are more numerous and widespread, than the record suggests.⁶

The C-band is the heaviest used medium for backhaul delivery of video to the systems of MVPDs, as well as to broadcast stations and other users. It is favored by programmers because it rarely fails, is cost-effective, and is provided to MVPDs free of charge as part of their programming agreements. This is why a stunning amount of video traffic is travelling on C-band satellites today, placing large demands on the bandwidth—demands that will soon become larger still.

A. The Spectrum Is Heavily Used, and Becoming Progressively Scarcer

The criticisms of the Fixed-Satellite Service's primary status in the band proceed from a false premise of severe underutilization of the C-band by that service. The Fixed Wireless Communications Coalition ("FWCC"), as well as the Broadband Access Coalition ("BAC"),

⁵ BAC itself recognizes that the C-band will not be suitable for mobile applications in the near-future. *See* Broadband Access Coalition Petition for Rulemaking to Amend and Modernize Parts 25 and 101 of the Commission's Rules to Authorize and Facilitate the Deployment of Licensed Point-to-Multipoint Fixed Wireless Broadband Service in the 3700-4200 MHz Band, RM-11791, 6 (June 21, 2017) ("BAC Petition") ("The 3700 - 4200 MHz band is not now, and will not for several years, be suitable for mobile use given the existing deployment of FSS earth stations and FS P2P links."). ACA agrees.

⁶ The vast majority of currently operational receive-only earth stations are not and never have been registered with the Commission, and thus are not included in the Commission's estimate of 4,700 earth stations using the downlink band. ACA estimates that as many as ninety percent of its members' roughly 3,000 currently operational receive-only earth stations are unregistered.

create the incorrect impression that the spectrum is underused by cherry-picking among services and focusing on the bandwidth used by any particular earth station instead of the extent of use of satellite transponders.

FWCC asserts that, “[t]oday, when spectrum suitable for long-haul microwave links is in desperately short supply, it no longer makes sense to lock away large blocks on the principle that an earth station might need it someday-when FS operators need it now.”⁷ This seems incredible on its face: essentially, FWCC is saying that most of this multi-billion dollar investment is kept in reserve as in-orbit spare capacity, a claim that is incredible on its face, as a constellation of 48 operational C-band satellites, at a cost of at least \$250 million each to build and launch,⁸ is a very expensive way to ensure redundancy. Close inspection of the way in which the C-band is used confirms that FWCC is wrong.

The C-band is most heavily used for backhauling video content. Video is the most bandwidth-intensive traffic to begin with, and live video even more so. The bandwidth demands

⁷ FWCC Petition for Rulemaking, Fixed Wireless Communications Coalition, Inc., Request for Modified Coordination Procedures in Bands Shared Between the Fixed Service and the Fixed Satellite Service, RM 11778, 12-13 (Oct. 11, 2016) (“FWCC Petition”).

⁸ See, e.g., *SES World Skies*, Forecast International, 1 (June 2011), http://www.forecastinternational.com/archive/report.cfm?categoryID=1&bkcode3=ASP&prod_code=011 (click on SES World Skies hyperlink) (“WORLD SKIES satellites provide global telecommunications coverage using C-band and high-powered Ku-band spot beam satellites. . . . The Boeing-702-based NSS-8 cost approximately \$125 million; however, the total Boeing NSS-8 contract is valued at \$250 million and includes the satellite’s launch. The cost for production and launch of the NSS-6 was estimated at \$250 million, excluding insurance costs.”); Press Release, Intelsat (Jan. 28, 2016), <http://www.intelsat.com/wp-content/uploads/2016/03/BN-Americas-2016Jan28.pdf> (“IS 29e was built for US\$400mn-450mn, whereas traditional satellites cost about US\$350mn”); Stephen Clark, *SpaceX Delivers for Intelsat on Heavyweight Falcon 9 Mission*, SpaceFlight Now (July 6, 2017), <https://spaceflightnow.com/2017/07/06/spacex-delivers-for-intelsat-on-heavyweight-falcon-9-mission/> (“Hosting C-band and Ku-band communications payloads, Intelsat 35e is the fourth ‘Epic-class’ relay satellite developed and launched by Intelsat Intelsat did not disclose the cost of the Intelsat 35e, but a spokesperson said the company’s Epic satellites typically cost between \$300 million and \$425 million each.”).

it poses on any backhaul technology have been steadily increasing owing to the increase in the number of video channels over the last couple of decades, and, even more important, the increasing quality of the resolution that consumers demand. The countervailing technological improvements in compression and modulation have been unable to catch up.

The story of the band's use is best told by the numbers. There are almost 2,000 video channels that are backhauled on C-band satellites today. They (along with some 231 audio channels) fill up around 308 transponders on 24 satellites. Exhibit 3 lists in detail these channels and the transponders and satellites on which they are carried.⁹ Their numbers go well beyond the hundreds of channels that a typical MPVD might provide to its customers, because they encompass a huge smorgasbord of options that in turn respond to consumer preferences and needs across the country. Thus, many national cable networks, both premium and basic, each transmit a large number of feeds, with each feed occupying its own space on a C-band transponder. Take HBO: its lineup includes over a dozen channels.¹⁰ Or take Showtime: its

⁹ Exhibit 3 was created based on information found on LyngSat, which appears to be the only publicly available database for satellite video channel carriage. *See North & South America*, LyngSat, <https://www.lyngsat.com/america.html> (last visited Oct. 2, 2017). Satellites carrying video programming apparently destined for Mexico and South American countries have been excluded from the calculation. Some programming apparently destined for Canada is included. A complete list of channels transmitted by C-band satellites according to LyngSat, and on which Exhibit 3 was based, is also attached.

¹⁰ HBO C-band satellite feeds include HBO East; HBO West; HBO 2 East; HBO 2 West; HBO Comedy East; HBO Comedy West; HBO Signature East; HBO Signature West; HBO Zone East; HBO Zone West; HBO Family East; HBO Family West; HBO Latino Este; and HBO Latino Oeste. *See, e.g., HBO East*, LyngSat, <https://www.lyngsat.com/tvchannels/us/HBO-East.html> (last visited Sept. 29, 2017); *HBO Family East*, LyngSat, <https://www.lyngsat.com/tvchannels/us/HBO-Family-East.html> (last visited Sept. 29, 2017); *HBO Latino Este*, LyngSat, <https://www.lyngsat.com/tvchannels/us/HBO-Latino-Este.html> (last visited Sept. 29, 2017).

feeds include almost 30 channels.¹¹ Or ESPN: it transmits around 25 channels.¹² The national professional and college sports leagues and associated networks, as well as the regional sports networks, likewise often deploy several feeds to accommodate a multiplicity of games played simultaneously.¹³ Adding to these feeds are a large number of broadcast network signals backhauled to broadcast stations or MVPDs, as well as superstation channels. As with cable networks, each broadcast network typically features different feeds, often for different parts of the country (for example, NBC East, NBC Central, NBC Mountain and NBC West), as well as

¹¹ Showtime C-band satellite feeds include Showtime East; Showtime West; Showtime 2 East; Showtime 2 West; Showtime Beyond East; Showtime Beyond West; Showtime Extreme East; Showtime Extreme West; Showtime Family Zone East; Showtime Family Zone West; Showtime Next East; Showtime Showcase East; Showtime Next West; Showtime Showcase West; Showtime Women East; Showtime Women West; Flix East; Flix West; The Movie Channel East; The Movie Channel West; The Movie Channel Xtra East; and The Movie Channel Xtra West. See *Showtime*, LyngSat, <https://www.lyngsat.com/tvchannels/us/Showtime.html> (last visited Sept. 29, 2017).

¹² ESPN feeds include ESPN; ESPN 2 US; ESPN Buzzer Beater; ESPN Classic USA; ESPN College Extra 1; ESPN College Extra 2; ESPN College Extra 3; ESPN College Extra 4; ESPN College Extra 5; ESPN College Extra 6; ESPN College Extra 7; ESPN College Extra 8; ESPN Deportes; ESPN Deportes Radio; ESPN Goal Line; ESPN Sports Radio; ESPNU; ESPN US Alternate; ESPNNews; Longhorn Network; and Longhorn Network Select Game Coverage. See *ESPN*, LyngSat, <https://www.lyngsat.com/tvchannels/us/ESPN-US.html> (last visited Sept. 29, 2017).

¹³ For example, FOX Sports channels alone appear to deploy: FS1; FS2; FOX College Sports Atlantic; FOX College Sports Central; FOX College Sports Pacific; FOX Sports San Diego; FOX Soccer Plus; FOX Sports Detroit; FOX Sports Midwest; FOX Sports Arizona; FOX Sports North; FOX Sports Wisconsin; FOX Sports Florida; FOX Sports Sun; FOX Sports Networks; FOX Sports South; Sport South; FOX Sports feeds; FOX Sports West; FOX Sports Prime Ticket; FOX Sports Southwest; FOX Sports Ohio; FOX Sports Racing; FOX Deportes; and FOX Sports Radio. See *FS1*, LyngSat, <https://www.lyngsat.com/providers/us/Fox-Networks-Group.html> (last visited Sept. 29, 2017). The Pac-12 Network also appears to carry a large number of feeds: Pac-12 Networks; Pac-12 Arizona; Pac-12 Los Angeles; Pac-12 Bay Area; Pac-12 Oregon; Pac-12 Washington; and Pac-12 Mountain. See *Pac-12*, LyngSat, <https://www.lyngsat.com/providers/us/Pac-12.html> (last visited Sept. 29, 2017).

the signals of a number of different local stations.¹⁴ Add to that scores of foreign or foreign language networks: Telemundo; Univisión; Televisa Networks; The Israeli Network; Italia America; Telexitos; Rai News 24; Ant1 Satellite; Canal 26; Mas Chic Estados Unidos; Perviy kanal America; TV 5 (Philippines); DW Deutsch+; Canal Sur (USA); and 52MX Estados Unidos.¹⁵ And add dual English and Spanish language feeds for many U.S. networks. Also add differences in resolution: many networks transmit duplicate feeds on different resolutions (SD, HD and now 4K). There are still many analog or lower-capacity digital cable systems that transmit SD programming to their subscribers. While many programmers transmit HD feeds and expect these systems to down-convert the resolution to SD, many others transmit one feed in each format to account for customers who do not have down-converting equipment.

How does the currently available satellite capacity accommodate this cornucopia of content? Let us look at the other side of the ledger—how much the available bandwidth can be

¹⁴ Here are some feeds, both broadcast and cable, associated with the four networks. For NBC: NBC; NBC East; NBC Central; NBC Mountain; NBC West; NBC Sports Network; NBC Sports Network Alternate; WNBC-TV (NBC – New York); NBC Sports California; NBC Sports California Plus; NBC Sports Bay Area; NBC Sports Bay Area Plus; NBC Sports Bay Area Plus 2; WVGX-LP (NBC – Charlotte Amalie); NBC Universal; NBC Olympics Soccer; NBC Olympics Basketball; NBC Universo Este; NBC Universo Oeste; and KTUU-TV (NBC – Anchorage). See *NBC*, <https://www.lyngsat.com/providers/us/NBC.html> (last visited Sept. 29, 2017). For ABC: ABC Cable Networks; ABC feeds; ABC News Now; and KYUR-TV (ABC – Anchorage). See *ABC*, LyngSat, <https://www.lyngsat.com/providers/us/ABC-Cable-Networks.html> (last visited Sept. 29, 2017). For CBS: CBS News; CBS feeds; CBS Sports Network USA; CBS Sports Network Canada; and KTVA-TV (CBS – Anchorage). See *CBS*, LyngSat, <https://www.lyngsat.com/providers/kh/CBS.html> (last visited Sept. 29, 2017). And FOX programming, in addition to the sports channels mentioned above, includes FOX Network Group; FOX Business; FOX News; FOX Life Latin; KTBV-TV (FOX – Anchorage); WSJX-LP/WVXF-DT 2 (FOX); KRBK-TV (FOX – Osage Beach); and WSVN-TV (FOX – Miami). See, e.g., *Galaxy 15 at 133.0°W*, LyngSat, <https://www.lyngsat.com/Galaxy-15.html> (last visited Sept. 29, 2017).

¹⁵ See *North & South America*, LyngSat, <https://www.lyngsat.com/america.html> (last visited Oct. 2, 2017) (listing hyperlinks to foreign channel carriage by satellite for AMC 10, AMC 11, AMC 18, Galaxy 17, Echostar 9/Galaxy 23, SES-1, SES-2 and SES-3).

“milked” by means of digital compression and modulation. Each C-band satellite is typically equipped with 24 transponders in each direction (up and down),¹⁶ with each transponder typically operating on 36 MHz of spectrum.¹⁷ The use of MPEG-4 compression and 8PSK modulation can achieve the carriage of as many as 20 SD channels on each transponder. But older satellites with degraded power can only achieve much lower compression rates.

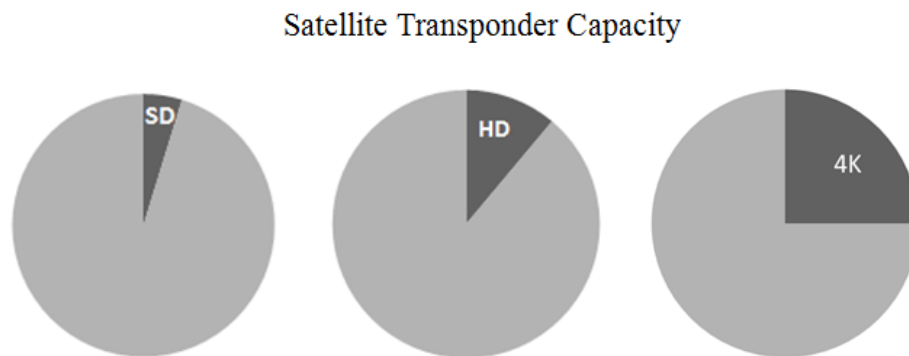
Just as significant, SD carriage is rapidly becoming a thing of the past as the only format for any content to be transmitted. As mentioned above, a simulcast of SD and HD resolution is the more typical practice today, meaning that SD carriage adds to the strain on the C-band resource instead of allowing bandwidth economies. And the number of channels becomes progressively lower as the resolution becomes better. While eight HD channels per transponder are possible for some programming on the most advanced satellites, it is frequent for one transponder to be only capable of accommodating a single HD channel and two or three SD channels. With live sports, an entire transponder may be needed for one HD channel due to the nature of the event (fast-paced live TV with high frame rates). The required bandwidth sacrifice increases further with 4K: even the use of HEVC, a compression technique superior to MPEG-4, cannot handle more than four 4K channels per transponder. SES’s turnkey “Ultra HD platform” initiative is one example. It provides an all-in-one solution for cable operators, packaging earth station infrastructure, satellite distribution and up to 10 4K channels hosted on three SES

¹⁶ Some satellites are only equipped with 12 transponders in each direction. *See, e.g.*, Petition of New Skies Satellites B.V., SAT-PPL-20120717-00117, 2 (July 17, 2012).

¹⁷ This means that the 24 transponders use 864 MHz of spectrum, or 364 MHz more than the 500 MHz available in each direction. This is the result of spectrum reuse—adjacent transponders overlap and self-interference is avoided through the use of opposite polarizations. That remarkable spectrum efficiency, too, is conveniently overlooked by the FWCC Petition.

satellites.¹⁸ According to reports, SES delivers this content using HEVC compression, which allows up to four 4K signals into a transponder.¹⁹ Close to 30 U.S. cable operators have signed up for a trial of the platform, with a combined audience of more than 10 million subscribers.²⁰

In sum, the existing capacity, already used heavily, is coming under increasing strain. The following pie charts compare graphically the portion of a transponder occupied by a channel in SD, HD, and 4K resolution:



¹⁸ Carl Weinschenk, *SES 4K Ultra HD Trials Now Include 30 Operators, Reaching 10 Million Subscribers*, Telecompetitor (July 24, 2017), <http://www.telecompetitor.com/ses-4k-ultra-hd-trials-now-include-30-operators-reaching-10-million-subscribers/>; *Ultra HD Gains Momentum in the US with 30 Pay TV Providers Testing 4K Delivery on SES's Platform*, SES (July 23, 2017), <https://www.ses.com/press-release/ultra-hd-gains-momentum-us-30-pay-tv-providers-testing-4k-delivery-sess-platform>; Chris Dziadul, *SES Expands Ultra HD Presence in US*, Broadband TV News (Apr. 24, 2017), <https://www.broadbandtvnews.com/2017/04/24/ses-expands-ultra-hd-presence-in-us/>.

¹⁹ Jeff Baumgartner, *NAB 2017: Two MVPDs Roll Out 4K with SES, Vivicast, Multichannel* (Apr. 24, 2017), <http://www.multichannel.com/news/content/nab-2017-two-mvpds-roll-out-4k-ses-vivicast/412378>.

²⁰ *Accelerating Towards a Hyper-Immersive Broadcast Reality*, SES (Sept. 8, 2017), <https://www.ses.com/blog/accelerating-towards-hyper-immersive-broadcast-reality>; Jason Dachman, *NAB Reflections: SES's Steve Corda on the Future of the UHD Ecosystem*, SVG Blog (May 19, 2017), <https://www.sportsvideo.org/2017/05/19/nab-reflections-ses-steve-corda-on-the-future-of-the-uhd-ecosystem/> (discussing the launch of commercial linear ultra-high definition services for two MVPDs); Kendall Russell, *Ultra-HD Gains Momentum in the US for SES, Via Satellite* (July 24, 2017), <http://www.satellitetoday.com/broadcasting/2017/07/24/ultra-hd-gains-momentum-us-ses/> (discussing the rollout of SES's 4K content delivery platform).

The conclusions are stark, both about the present and about the future: first, the number of feeds combined with the immense popularity of the HD format have already overwhelmed progress in compression and have increased dramatically cable operators' backhaul demands. As mentioned, the almost 2,000 video channels carried today require no fewer than 308 transponders on 24 satellites, already placing a strain on the spectrum as they must cohabit it with other FSS services provided in the band. Second, the consumption of video content is moving inexorably towards an expectation of 4K resolution for all programming on the part of consumers. In fact, the Commission is actively promoting 4K and other advances in the transmission of video content in other proceedings.²¹ Two thousand channels of 4K programming would take almost 21 full-power, fully loaded satellites to accommodate, spaced at least two degrees from one another. Such a fleet does not exist today.²²

B. Spectrum Scarcity Is Exacerbated by the Scarcity of Orbital Locations

The C-band highway is all the busier because it has fewer lanes than may be apparent on superficial review. The spectrum scarcity described above is further exacerbated by geography, geometry and the claims of other nations on the geostationary arc. In order to operate without causing interference, one satellite must generally be located no fewer than two degrees away

²¹ See, e.g., *Authorizing Permissive Use of the Next Generation Broadcast Television Standard, Notice of Proposed Rulemaking*, 32 FCC Rcd. 1670 (2017); Remarks of FCC Chairman Ajit Pai at the National Associations of Broadcasters Show (Apr. 25, 2017), https://apps.fcc.gov/edocs_public/attachmatch/DOC-344558A1.pdf (“My view is simple: As with any industry, the FCC should promote innovation in the broadcasting business—not stand in the way of progress. We should allow interested broadcasters to experiment with [ATSC 3.0].”).

²² The *Mid-Band NOI*'s estimate of 48 geostationary satellites seems to include satellites that are not fully available for the backhaul of video programming, as it would appear to include satellites located far outside the continental United States (“CONUS”) range of the arc. It is also unclear if that estimate includes in-orbit spares. Finally, even many of the operational satellites are older and, because of power loss, cannot operate at full capacity.

from the other on the Equatorial arc—a fact enshrined into the Commission’s two degree orbital spacing policy.²³

But all slots are not equal. The Commission has licensed C-band satellites located as far to the East as 64° W.L. and as far to the West as 143° W.L.²⁴ Such slots likely cannot cover the entire U.S. with an elevation angle that is acceptable for video. This means either that they cannot be used for video at all or, if they are, they can provide reliable service only to parts of the United States, leaving headends in the remaining portion of the country unserved and necessitating duplicative carriage of the same programming on the western-most and eastern-most ends of the arc. Video delivery is even more constrained for the faraway states of Alaska and Hawaii and territories such as Puerto Rico and Guam, for which satellite service is even more vitally important than for the contiguous United States, and which can receive service only from a limited number of slots. This in turn may also entail duplicative carriage of the same programming, for example on a satellite that can serve Guam or Hawaii and one that can serve the Eastern United States.

And what about other countries? There are 35 in the Americas, and the slots required to transmit video programming to them are in the same, or at least overlapping, range as the slots that can see the United States. In addition to English, their mother tongues include Spanish, Portuguese and French, among others. They have developed overlapping but different cultures.

²³ See 47 C.F.R. § 25.140; *see also* Licensing Space Stations in the Domestic Fixed-Satellite Service and Related Revisions, 48 Fed. Reg. 40233-01, 40233 (Sept. 6, 1983) (adopting a final rule of “orbital separations to 2° between domestic satellites operating in the 4/6 GHz and 12/14 GHz bands”).

²⁴ The Commission has assigned satellites in the C-band “to orbital locations [] between 64° [W.L.] and 143° W.L.” Assignment of Orbital Locations to Space Stations in the Domestic Fixed-Satellite Service, *Memorandum Opinion and Order*, 3 FCC Rcd. 6972, 6972 ¶ 6 (1988).

This means that mountains of additional programming have to be squeezed into the same finite number of orbital positions.²⁵

In fact, in an effort to resolve the three neighboring countries' claims on the geostationary arc, the United States reached the so-called trilateral agreement with Canada and Mexico in 1988.²⁶ That agreement is still effective today. It generally restricts the United States to the portion of the arc east of 105° W.L. and west of 121° W.L., with exceptions requiring the agreement of all three countries. Of course, under the Commission's open skies policies, foreign-licensed satellites can be, and in many cases are, used to provide service to the United States. But these satellite operators must juggle U.S. demands with demands from their own countries. One ACA member has reported that only a small portion of their backhaul needs are covered by foreign-licensed satellites, indicating that such satellites are not an unconstrained source of capacity. All in all, the slots (some 32 between approximately 72° and 135° W.L.) that can best serve the entire United States are not all available to the U.S., making it that much harder to procure the almost 21 full-power, fully loaded satellites spaced 2 degrees apart from one another that 4K video delivery would require.

²⁵ See, e.g., *Star One C3 at 75.0°W.*, LyngSat, <https://www.lyngsat.com/Star-One-C3.html> (last visited Sept. 29, 2017); *Simón Bolívar at 78.0°W.*, LyngSat, <https://www.lyngsat.com/Simon-Bolivar.html> (last updated Sept. 29, 2017); *Eutelsat 117 West A at 116.8°W.*, LyngSat, <https://www.lyngsat.com/Eutelsat-117-West-A.html>. While satellites serving remote South American countries may be capable of sharing slots with North American satellites owing to the geographic separation of the beams, this is less possible for countries located closer to North America.

²⁶ Under the 1988 Trilateral Orbit Arrangement, each C- and Ku-band orbital location for fixed-satellite service ("FSS") in the 103° to 123° W.L. orbital arc has been designated for use by the United States, Canada, or Mexico. C-band frequencies in the orbital arc 107.3° to 118.7° W.L. were identified for use by Canadian and Mexican satellites. See Trilateral Arrangement Regarding Use of the Geostationary Orbit Reached by Canada, Mexico, and the United States, *Public Notice* (Sept. 2, 1988).

C. The C-Band Satellite Traffic Must Be Protected Across the Country

These simple calculations show that it is inappropriate to assess the extent of the band's use by only focusing on the portions of the band that "any given earth station typically uses," as BAC does.²⁷ At any given headend, one earth station may be receiving service on one transponder from one satellite,²⁸ and from other transponders on other satellites, to cobble together the cable system's programming line-up. But for many reasons, the fact that each MVPD does not receive all of the carried channels cannot be interpreted as tantamount to underuse or as creating a vacuum that needs to be filled.

First of all, the 24 satellites carrying the almost 2,000 video channels today typically have CONUS, or at least geographically broad, beams. This means that their signals rain down on most of the nation, regardless of whether an earth station transmits to, or receives from, them in a particular locality. And so, terrestrial receivers would have to cope with interference from all of these satellites, across all 308 transponders, which account for the entirety of the C-band downlinks, and from 24 different slots.

Second, when a programmer uses a C-band satellite to uplink a programming feed, it does so with the expectation that it can be received by earth stations throughout the country, not

²⁷ The BAC Petition claims that "FSS earth stations are routinely licensed to use all 500 megahertz of the 3700 – 4200 MHz band, even though any given earth station typically uses only a small portion of the band. Many earth stations access only a single satellite transponder, and the bandwidth of each transponder is typically 36 megahertz." BAC Petition at 21-22. To support this claim, it resorts to synecdoche, seizing on a tiny piece of the puzzle and making it do duty for the whole picture. The claim is based on nothing more than BAC's review of *one* entity's 975 registered earth stations in the C-band. According to BAC, "these 975 earth stations, spread across the United States, are protected for receive operations across 500 megahertz of spectrum despite the fact that they use only 23 megahertz of spectrum, all of which is between 3700 and 3800 MHz." *Id.* at 22.

²⁸ Often, cable systems use double or triple feed earth stations that can receive services from a number of C-band satellites.

only by the stations that receive that programming today. Most programmers' business plan, and indeed survival, relies on national availability. If some areas of the country are "red-lined" and earth stations located there become unable to receive that programming so that the band can be dedicated to a different service in a particular region, the system of C-band video backhaul would be destroyed.

Third, the inexorable progress towards 4K resolution will not only increase the number of C-band transponders and channels needed on a national level. It will also increase the number of C-band transponders and channels that any particular MVPD and ACA member will need to receive. Take an MVPD now receiving 300 HD channels at 8:1 compression. With 4K resolution, at 4:1 compression, that MVPD's backhaul capacity demands will double.²⁹

It thus becomes clear that, when they speak of an elimination of the primary service allocation for part of the C-band, some of the terrestrial service interests demand nothing less than the uprooting of an entire industry on which tens of millions of consumers depend and its forced migration to new modes of delivery at a cost that would run into the billions, and perhaps the tens of billions, of dollars, as it would encompass a multi-billion dollar asset destined for the scrapyard of space as well as investment in the new supposed modes of delivery. Nor can the industry afford to forego spectrum based on the expectations of new, full-power satellites. As shown above, the advent of higher video resolution means that the C-band traffic jam will be exacerbated even *assuming* the replacement of the entire existing fleet. In addition, C-band

²⁹ Notably, that doubling will probably occur whether or not that MVPD has the equipment necessary to provide 4K to its own customers: as with HD today, many 4K channels may be available only in 4K format, based on the expectation that the MVPD will down-convert them if it needs to provide them to its customers at a lesser-resolution format.

satellites, no matter how advanced, remain subject to constraints on their power, and therefore their capacity, in light of the need to share the band with terrestrial services.

D. Alternatives Are Nonexistent, Infeasible or Inefficient

Just as crucially, a migration requires somewhere to go. And substitute modes of delivery are non-existent or inefficient.³⁰ Even more pragmatically for the ACA members, all alternative would require an out-of-pocket expenditure, which would strain budgets that are already strained by the perfect storm of rising programming costs, competition from online video distribution and the cord-cutting phenomenon. Specifically, the agreements of ACA members with programmers typically cover C-band delivery. The ACA members would have to pay extra for any other backhaul methods.³¹

With respect to fiber, there are a number of debilitating hurdles. In the first place, many ACA members' headends in rural areas lack access via fiber to a transit provider, such as Level 3, which is necessary in order to backhaul video programming suitable for distribution over their systems.³² The cost of deploying fiber to a headend from the nearest transit provider could easily run to millions of dollars for cable operators without such access today, depending on the distance and the terrain that the fiber would have to traverse. ACA understands that cable headends that lack access to fiber backhaul are typically 10-15 miles from the nearest transit provider and can connect to that provider by burying the fiber underground or stringing it across

³⁰ While some of ACA's members' systems still rely for their video backhaul needs on the so-called Headend in the Sky, which operates on the Ku-band, that service is costly, it is not covered by the programmers, and its future is uncertain. As for other Ku-band satellite capacity, ACA understands that all Ku-band transponders are full, with demand exceeding supply.

³¹ See Declaration of William D. Bauer ¶ 10 (attached as Exhibit 1); *see also* Declaration of Mark Love ¶¶ 9-10 (attached as Exhibit 2).

³² See Declaration of William D. Bauer ¶ 10; *see also* Declaration of Mark Love ¶¶ 9-10.

poles. For underground installation, laying one mile of fiber would cost between \$45,000-50,000 for construction and an additional \$9,250 for material. For aerial installation, attaching one mile of fiber to poles would cost about \$9,000 for labor and an additional \$3,500 for material. This does not include pole attachment costs, such as one-time “make-ready” costs and recurring pole attachment rental fees,³³ which can be so excessive many cable operators find going underground to be more cost effective over the long run than attaching them to poles. So a conservative cost assessment to connect one of its headends with fiber for an operator located 10 miles away from the nearest transit provider would entail one-time fee costs of construction and material of \$542,500 for underground fiber or \$127,500 for aerial fiber, with the latter cost not including pole attachment, make-ready or monthly rental fees.³⁴

Regardless of whether a cable operator must pay to deploy fiber to reach a transit provider, there is an additional significant out-of-pocket cost involved in leasing fiber from the transit provider to backhaul the programming feeds from their source. ACA understands that backhauling an operator’s entire programming would require a dedicated fiber line with 1 Gbps of capacity to each headend, which costs around \$3,000 per month to lease.

More than 80 percent of ACA’s members have fewer than 5,000 MVPD subscribers, with half having only hundreds. The costs associated with fiber deployment and leasing would be

³³ “Make-ready” refers to the modification of poles or lines that is required to accommodate additional facilities such as fiber. See Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, *Order on Reconsideration*, 14 FCC Rcd. 18049, 18056 ¶ 21 n.50 (1999).

³⁴ That estimate does not even include the cost of installing back-up fiber. It is standard practice to construct an additional fiber line, using a different route to connect to the nearest node, as redundancy in case the primary line suffers damage.

prohibitive for most of ACA's smallest operators, and would require others to pass along significant cost increases to their customers in order to avoid red on their earnings statements.

III. RESTRICTING SATELLITE SERVICES IN THE BAND WOULD BE ANTI-COMPETITIVE

The traffic jam in the skies described above does not even take into account the need for competition. In other words, the almost 21 full-power, fully loaded satellites that would be needed for 2,000 channels of 4K programming would be enough only if one were to accept a non-competitive state of affairs where a single transponder on a single satellite is the only option for a programmer wishing to supply its content to a particular headend. But that would mean higher transit costs for programmers. Those would in turn be sure to be passed on to their customers, including ACA members, which would then attempt to pass them on further to end users. Competition among satellite operators appears to be relatively vibrant today. While ACA members do not buy capacity from satellite operators themselves, they can deduce the existence of such competition by the fact that they are frequently asked by programmers to repoint their earth stations to a different satellite. WinDBreak, for example, reports that it repoints its earth stations "all the time."³⁵ The programmers' efforts to achieve better terms or better service from satellite operators would appear to be one reason for this frequent repointing.

This spontaneous, no-permission-required competitive environment would be lost under the rule advocated by FWCC, which would require satellite operators to obtain dedicated, narrow spectrum and require a separate authorization for additional frequencies.³⁶ There is good reason

³⁵ See Declaration of William D. Bauer ¶ 8.

³⁶ FWCC Petition at 8-9. See also Opposition of Intelsat License LCC to Fixed Wireless Communications, Inc., Request for Modified Coordination Procedures in Bands Shared Between the Fixed Service and the Fixed Satellite Service, RM-11778, 3 (Jan. 9, 2017) ("Under FWCC's

why the Commission has steadfastly favored competition—the lack of it drives costs up. Here, the helpless victims of such price hikes would be ACA’s members, their margins rapidly growing negative,³⁷ and their customers, including many lower-income and rural end users.³⁸ The Commission must take this into account when consider whether and how to expand use of C-Band spectrum.

IV. ACA WELCOMES MORE INTENSIVE USE OF THE BAND, WITH APPROPRIATE SAFEGUARDS

In identifying additional uses of the band, the Commission should be guided by the lodestar of protection of existing primary services. To achieve this protection, a triptych of measures is required: exclusion zones, power limits and timely enforcement of these restrictions to nip any interference in the bud. Exclusion zones may be suitable for many ACA members, which are generally situated in rural areas. Power limits outside these areas are also important.

But both of these measures need to be actively enforced. The Commission’s enforcement personnel is without peer. Still, interference problems arising under the current rules are sometimes not rectified on a timely basis because of lack of the necessary information. At least

proposal, earth station licensees would be required to file burdensome and time-consuming license modification applications and requests for special temporary authority every time they wished to switch service providers.”).

³⁷ See, e.g., ACA Comments, Annual Assessment of the Status of Competition in the Market for Delivery of Video Programming, MB Docket No. 15-158 (Aug. 21, 2015).

³⁸ See, e.g., Satellite Industry Association Petition to Deny, Fixed Wireless Communications, Inc., Request for Modified Coordination Procedures in Bands Shared Between the Fixed Service and the Fixed Satellite Service, RM-11778, 13 (Jan. 9, 2017) (“Even where a terrestrial alternative exists, the availability of satellite capacity serves as an important competitive option.”); *id.* at 14 (“Full-band, full-arc licensing of earth stations allows customers the freedom to switch providers in order to take advantage of more favorable rates or more advanced services. Without this flexibility, satellite service users would be locked into their current space segment supplier.”).

one ACA member has repeatedly experienced strong interference into its video backhaul that, despite the Commission's assistance, has taken several days to resolve, even as complaints from customers were growing louder.³⁹ The Commission should take measures to avert these lingering multi-day occurrences of harmful interference into customer services. These measures would become even more essential if terrestrial use of the band is allowed to widen. The Commission should thus not only establish exclusion zones and power limits, but fortify them with the teeth of concrete enforcement mechanisms, such as an online method for associating interfering signals with devices, and immediately shutting them down.

Additionally, the phenomenon of significant under-registration of receive-only earth stations has two implications. First, it shows that the extent of harm from depriving FSS of its primary protection status would be far more sweeping than the FCC IBFS's registration database suggests. Second, the Commission's assistance may be valuable and necessary to resolve this problem in an efficient and realistic manner. ACA is more than willing to assist the Commission in this effort, and will take steps to encourage members to take advantage of the protections that they are entitled to as incumbent users of C-band spectrum.

³⁹ See Declaration of William D. Bauer ¶ 12.

V. CONCLUSION

For the foregoing reasons, the Commission should consider the ACA members' use of the C-band, dispel any misconceptions of underutilization of the band, and preserve a regulatory framework free from interference and regulatory burdens for the independent providers offering video services in small and rural markets across the United States.

Respectfully submitted,

/s/

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October 2, 2017

EXHIBIT 1

DECLARATION OF WILLIAM D. BAUER

DECLARATION OF WILLIAM D. BAUER

I, William D. Bauer, being over 18 years of age, swear and affirm as follows:

1. I make this declaration using facts of which I have personal knowledge or based on information provided to me, in connection with the proposal to permit additional access to the C-band for wireless broadband services and other uses and the likely effects of this proceeding on independent, rural cable operators.

2. I am currently President and CEO of WinDBreak Cable (“WinDBreak”). WinDBreak is a small broadband Internet access service and cable television provider based in Gering, Nebraska. Founded in 1987, WinDBreak serves largely rural areas in the Nebraska panhandle and eastern Wyoming. We operate five separate cable headends providing cable television services to 394 customers.

3. In my capacity as President and CEO, I am responsible for all aspects of the company and for ensuring that our services reach consumers in a satisfactory, cost-effective and reliable manner. Among my responsibilities, I supervise our headends and C-band earth stations that receive cable programming.

4. We receive all national and regional programming by using C-band receive-only earth stations. This includes cable networks, superstations and regional sports networks. Local broadcast stations are the only ones we do not receive by C-band satellite. C-band satellite reception is not a luxury or an option for WinDBreak; it is a necessity. Other backhaul alternatives are too expensive and would require an out-of-pocket expenditure on our budget, as they are not covered by the programmers.

Extensive Use of C-Band

5. WinDBreak has headends in Harrison, Lyman, and Oshkosh, Nebraska, as well as in Pine Bluffs and Guernsey, Wyoming.

6. WinDBreak offers 47 basic and premium cable channels to its customers from C-band backhaul. It also offers a few channels from local broadcasters that it receives over-the-air.

7. Each of our systems is equipped with four antennas. Many of them have a double or triple feeds and can thus receive service from as many as eight satellites. Each satellite transponder can transmit from one to 20 channels depending on the definition. We generally witness a 20:1 compression ratio for SD channels, while for HD channels the ratio can be as high as 8:1 and as low as 2:1 or even 1:1. It is typical to receive one HD channel and two to three SD channels from one transponder depending on the content. For sports programming, a transponder is often able to accommodate only one HD channel due to the content's high frame rate. 4K definition also requires the full use of a transponder.

8. We receive notification from programmers asking us to repoint our earth stations to new satellites all the time, indicating that programming migrates often from one satellite to the other.

Lack of Feasible Alternatives

9. Opening the C-band to other uses that may interfere with our reception of backhauling would be devastating to WinDBreak. The alternative backhaul options are too expensive, and interference issues from wireless broadband antennas are too time-consuming and complex for our resource-constrained operations to resolve.

10. Importantly, programmers pay for C-band backhaul. This is a significant cost that a small operator like WinDBreak would be unable to support while providing a cost-effective

service to its remote customers. In any event, fiber is not a feasible option due to geography and cost. Fiber has not reached all of WinDBreak's operating areas yet. WinDBreak uses fiber for data connectivity in three of its systems serving 267 customers, but installation was an expensive, drawn-out and hard-fought battle. Obtaining fiber for programming backhaul, which requires double the capacity of data, would be doubly so. First, WinDBreak would have to shoulder the cost of constructing fiber to many of its headends, since the majority of them are not close to fiber infrastructure. Second, even if fiber were available, leasing fiber capacity is expensive and would be out-of-pocket for us.

Interference Issues

11. My experience in dealing with interference issues from wireless broadband antennas creates a concern that permitting widespread use of them could materially impair the reliability and efficiency of C-band backhaul video delivery.

12. In July of 2015, we started receiving complaints from our customers of bad quality in the signal that prevented them from using the services for which they pay us. It took us 15 days to discover the source of that interference—a wireless broadband antenna. We communicated that to the FCC's Office of Engineering & Technology, which ran field tests and confirmed the interference. Despite this assistance, the problem remained unresolved for some days and after considerable expenditure of the FCC's and our resources.

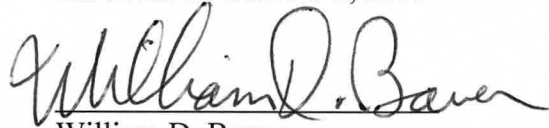
13. We are tackling yet another similar incident today. Since the morning of September 26, 2017, we have been experiencing interference into our C-band reception, which in turn is directly affecting our transmissions to our customers. The problem is affecting 15 channels received from three C-band satellites. There have been periods since September 26

when we have been fielding almost 10 calls an hour about pixilated screens resulting from this issue.

* * *

The foregoing declaration has been prepared using facts of which I have personal knowledge or based upon information provided to me. I declare under penalty of perjury that the foregoing is true and correct to the best of my current information, knowledge and belief.

Executed on October 2, 2017

A handwritten signature in black ink, reading "William D. Bauer". The signature is written in a cursive style with a horizontal line underneath the name.

William D. Bauer
President and CEO
WinDBreak Cable

EXHIBIT 2

DECLARATION OF MARK LOVE

DECLARATION OF MARK LOVE

I, Mark Love, being over 18 years of age, swear and affirm as follows:

1. I make this declaration using facts of which I have personal knowledge or based on information provided to me, in connection with the proposal to permit additional access to the C-band for wireless broadband services and other uses and the likely effects of this proceeding on independent, rural cable operators.

2. I am currently Headend Technician of Jackson Energy Authority ("Jackson Energy"). Jackson Energy is a small cable television provider based in Jackson, Tennessee. We have one headend in Jackson, Tennessee, and offer cable television services to 14,000 customers.

3. My position as Headend Technician puts me in charge of our earth stations, which we use to backhaul cable programming. C-band satellite reception is the only means by which we receive the national networks we carry.




Extensive Use of C-Band

4. Jackson Energy has one headend in Jackson, Tennessee.

5. Jackson Energy uses the C-band to offer almost 300 basic and premium cable channels in Standard Definition ("SD") and High Definition ("HD") to its customers. It also offers a dozen channels from local broadcasters that it receives over-the-air.

6. Our headend is equipped with five earth stations. All of the earth stations use double and triple feeds and can receive service from as many as 12 satellites. Each satellite transponder can transmit from one to almost 20 channels depending on the definition. We generally see a 20:1 compression ratio for SD channels, while the compression ratio that we see for HD channels is typically 3:1 or 2:1. We currently receive programming from 11 satellites, including satellites located between 89-135° W.L. Specifically, we receive programming from

Galaxy-28, Galaxy-17, SES-1, SES-3, Galaxy-23, Galaxy-18, Galaxy-14, Galaxy-13, AMC-11, Galaxy-15 and AMC-10. Here is a chart of our currently C-band receivers and the satellites to which they are pointing:

	W.L.	Satellite	S T R E E T S I D E
	135°	AMC10	
	133°	G15	
	131°	AMC11	
	W.L.	Satellite	
	125°	G14	
	W.L.	Satellite	
	91°	G17	
	W.L.	Satellite	
	121°	G23	
	W.L.	Satellite	
	101°	SES1	
	123°	G18	
	103°	SES3	

7. We are often asked by programmers to repoint our antennas to different satellites. We generally receive notifications from our programmers a few weeks prior to the change.

Lack of Feasible Alternatives

8. Opening the C-band to other uses that may interfere with programming backhaul would be a serious disruption to Jackson Energy.

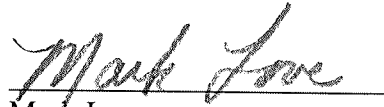
9. Fiber is not a feasible option due to geography and cost. Laying fiber and paying a monthly fee to support video backhaul would be too expensive for Jackson Energy. Some of those costs would also have to be passed on to customers.

10. To the contrary, programmers pay for C-band backhaul, which means that Jackson Energy can focus its limited resources on providing a reliable and cost-effective service to its customers.

* * *

The foregoing declaration has been prepared using facts of which I have personal knowledge or based upon information provided to me. I declare under penalty of perjury that the foregoing is true and correct to the best of my current information, knowledge and belief.

Executed on October 2, 2017

A handwritten signature in cursive script, reading "Mark Love", written over a horizontal line.

Mark Love
Headend Technician
Jackson Energy Authority

EXHIBIT 3

LIST OF C-BAND SATELLITES COVERING THE UNITED STATES AND CHANNELS CARRIED ON C-BAND SATELLITES

EXHIBIT 3

LIST OF C-BAND SATELLITES COVERING THE UNITED STATES AND CHANNELS CARRIED ON C-BAND TRANSPONDERS¹

Total satellites: 24

Total transponders: 308

Total feeds: 2,012 (1,781 video feeds and 231 audio feeds)

Satellite	Transponders and feeds
SES-2 87°W	10 transponders carrying 36 video feeds (transponder 2, 3, 4, 7, 9, 12, 17, 22, 23, 24) 1 transponders carrying 15 audio feeds (transponder 7)
Galaxy-28 89°W	11 transponders carrying 21 video fees (transponder 107, 108, 109, 110, 111, 114, 115, 118, 123, 124, 223) No audio feeds carried
Galaxy-17 91°W	23 transponders carrying 142 video feeds (transponder 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24) 1 transponder carrying 1 audio feed (transponder 12)
Galaxy-25 93.1°W	2 transponders carrying 3 video feeds (transponder 17, 24) No audio feeds carried
Galaxy-3C 95°W	17 transponders carrying 35 video feeds (transponder 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 17, 18, 19, 21, 22, 23, 24) No audio feeds carried
Galaxy-19 97°W	21 transponders carrying 53 video feeds (transponder 1, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24) No audio feeds carried
Galaxy-16 99°W	18 transponders carrying 57 video feeds (transponder 2, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 24) 2 transponders carrying 37 audio feeds (transponder 10, 15)
SES-1 101°W	12 transponders carrying 108 video feeds (transponder 1, 6, 7, 8, 9, 11, 12, 13, 14, 16, 20, 24) 1 transponder carrying 3 audio feeds (transponder 3)
SES-3 103°W	18 transponders carrying 136 video feeds (transponder 1, 3, 4, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22) 2 transponders carrying 7 audio feeds (transponder 5, 22)

¹ This Exhibit was created using data found on LyngSat, a website that provides information on satellite channels globally, including North America. *See North & South America*, LyngSat, <https://www.lyngsat.com/america.html> (last visited Oct. 2, 2017). ACA understands that LyngSat provides up-to-date information on which satellite providers rely. The list excludes C-band satellites that do not appear to provide video service to the United States, including Star One C1, Eutelsat 65 West A, Star One C2, Star One C3 and Simón Bolívar.

AMC-18 105°W	3 transponders carrying 20 video feeds (transponder 4, 11, 12)
	1 transponder carrying 41 audio feeds (transponder 2)
Anik-F1R 107.3°W	11 transponders carrying 78 video feeds (transponder 2B, 3B, 4B, 5B, S6A/6B, 7A, 8B, 9A/9B, 10A/10B, 11A/11B, 12A)
	2 transponders carrying 11 audio feeds (transponder 5B, 9B, 10B)
Anik-F2 111.1°W	8 transponders carrying 9 video feeds (transponder 1B, 3B, 5B, 6A, 7B, 8B, 9B, 10B)
	No audio feeds carried
Eutelsat-113 West A 113.0°W	14 transponders carrying 92 video feeds (transponder 1C1, 2C1, 3C1, 4C1, 6C1, 7C1, 8C1, 9C1, 10C1, 12C1, 16C3, 19C3, 22C3, 24C3)
	6 transponder carrying 20 audio feeds (transponders 1C1, 3C1, 4C1, 6C1, 8C1, 19C3)
Eutelsat-115 West B 114.9°W	1 transponder carrying 22 video feeds (transponder unclear)
	No audio feeds carried
Eutelsat 117 West A 116.8°W	20 transponders carrying 171 video feeds (transponder 1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 24)
	5 transponders carrying 16 audio feeds(transponder 3, 10, 11, 13, 17)
Anik-F3 118.8°W	1 transponder carrying 3 video feeds (transponder 6)
	No audio feeds carried
EchoStar- 9/Galaxy-23 121.0°W	16 transponders carrying 106 video feeds (transponder 1, 2, 4, 5, 6, 7, 9, 11, 14, 15, 16, 18, 20, 21, 22, 24)
	3 transponders carrying 13 audio feeds (transponder 7, 15, 24)
Galaxy 18 123.0°W	6 transponders carrying 39 video feeds (transponder 16, 17, 20, 21, 22, 24)
	No audio feeds carried
Galaxy 14 125.0°W	22 transponders carrying 164 video feeds (transponder 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 19, 20, 21, 22, 23, 24)
	2 transponder carrying 54 audio feeds (transponder 13, 22)
Galaxy 13/Horizons 1 127.0°W	16 transponders carrying 88 video feeds (transponder 3, 4, 5, 6, 7, 9, 10, 11, 13, 14, 15, 18, 19, 21, 22, 23)
	No audio feeds carried
AMC 11 131.0°W	18 transponders carrying 135 video feeds (transponder 1, 3, 4, 5, 7, 9, 10, 11, 12, 15, 16, 17, 18, 19/19U, 20, 21, 22, 23)
	No audio feeds carried
Galaxy 15 133.0°W	21 transponders carrying 151 video feeds (transponder 1, 2, 3, 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)
	1 transponder carrying 3 audio feeds (transponder 5)
AMC 10 135.0°W	12 transponders carrying 103 video feeds (transponder 1, 3, 4, 6, 7, 11, 13, 17, 19, 21, 22, 24)
	1 transponder carrying 1 audio feed (transponder 19)
AMC 8 139.0°W	2 transponders carrying 9 video feeds (transponder 18, 19)
	3 transponders carrying 9 audio feeds (transponder 3, 18, 21)



SES 2 at 87.0°W



Connecting
Africa, the Americas,
Europe, the Middle East

Atlantic	Main	America	America_P	America_HD	America	UHD	Headlines	Launches	Asia
81.0°W <C> 89.0°W		HD SatTracker LyngSat Maps				82.0°W <Ku> 89.0°W			
SES 2 & TKSat 1 SES 2 TKSat 1									

Azimuth & elevation in Herndon, Virginia, United States: 195.3° & 43.9°
The EIRP values are for Richmond, Virginia, United States

SES 2 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/SES-2.html>


Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3743 V tp 2 North America C 42-43					Abbie 170810
3755 V tp 2 North America C 42-43		DVB-S2	5000-2/3 8PSK		Abbie 170806
	ICTV (USA) (UT feeds)	F MPEG-4	5 39	40 E	
		MPEG-4	6 4	44	
3760 H tp 3 North America C 42-43	(feeds)	DVB-S	26680-?		Abbie 141002
3780 V tp 4 North America C 42-43	(feeds)	DVB-S	28800-5/6		Abbie 140905
3832 H tp 7 North America C 42-43		DVB-S	4710-3/4		Abbie 170831
	IRN USA 3	F	1	290 E	
	Salem Radio Network 5	F	1	2593 E	
	Salem Radio Network B	F	1	3719 E	
	Salem Radio Network 1	F	1	4737 E	
	Salem Radio Network 2	F	1	4972 E	
	Salem Radio Network 3	F	1	5029 E	
	Ambassador 1	F	1	5181 E	
	Salem Radio Network C	F	1	5587 E	
	IRN USA 2	F	1	5634 E	
	Focus on the Family Radio Network 2	F	1	6139 E	
	IRN USA 4	F	1	6346 E	
	Relevant Radio	F S	1	6950 E	
	Salem Radio Network A	F	1	7249 E	
	Focus on the Family Radio Network 1	F	1	8076 E	
3842 H tp 7 North America C 42-43	ZNS	DVB-S	6150-7/8	7.2	Abbie 140905
	ZNS Network	F S	410 1160	1120 E	
	The House of Assembly	F	411 1260	1220 E	
	1540 AM	F	412	1122 E	
3887 H tp 9 North America C 42-43	APTN	DVB-S2	18400-2/3 8PSK	6.6	Abbie 121001
	APTN Global Video Wire	MPEG-2 Betacrypt	100 101	103 E	
	APTN Direct	MPEG-4/HD Betacrypt	200 201	203 E	
3937 V tp 12 North America C 42-43	Telemex	F S DVB-S2 MPEG-4/HD	4052-5/6 8PSK 1 - 49	?-? 9.4 51 Sp AC3	Abbie 170806
3949 V tp 12 North America C 42-43					Abbie 170806
3954 V tp 12 North America C 42-43	Canal 26	DVB-S2	6430-3/4 8PSK	7.9	Abbie 170808
	Canal 26	F S MPEG-4/HD	1 49	51 Sp AC3	
	Canal 26.2	F MPEG-4/HD	2 65	67 Sp AC3	
4026 H tp 17 North	FilmOn TV	F DVB-S2 MPEG-4	2300-3/4 8PSK 1 - 258	?-? 7.9 257 E	Costactc 130318

News at LyngSat Stream:

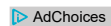
- MALAGA 24h
- Praja TV
- Kannada
- TV Master
- TV Zabrze
- TV Kłodzka
- Rakshana TV

News at LyngSat:

- CCTV 4 Europe
- on Intelsat 902
- The Word Network
- on Intelsat 902
- Ganj e Hozour TV
- on Intelsat 902
- Payam-e-Afghan TV
- on Intelsat 902
- Ukraine 24
- on Intelsat 902
- NetViet
- on Intelsat 902

America C 42-43							
4044 H tp 17 North America C 42-43							Abbie 170831
4140 V tp 22 North America C 42-43		Luken		DVB-S2	29125-3/4 8PSK	7.9	Abbie 170808
		Retro TV East	F	MPEG-4	1	4113	4352 E
		Action East	F	MPEG-4	2	3	35 E
		The Family Channel	F	MPEG-4	3	38	39 E
		Retro TV West	F	MPEG-4	4	42	43 E
		Heartland East	F	MPEG-4	5	46	.7 E
		FGO	F	MPEG-4	6	50	51 E
		Action West	F	MPEG-4	8	58	59 E
		Cutlery Corner Network	F S	MPEG-4	9	62	63 E
		The Family Channel	F	MPEG-4	10	66	67 E
		GenX	F	MPEG-4	12	75	76 E
		Heartland West	F	MPEG-4	14	83	84 E
		KMCC-TV Heartland (Laughlin)	F	MPEG-4	16	91	92 E
		WMEI-TV	F	MPEG-4	18	99	100 E
		WFMZ-DT 4 (Allentown)	F	MPEG-4	19	103	104 E
		WLLA-DT 2 (Kalamazoo)	F	MPEG-4	21	111	112 E
		WBNA-DT 4 (Louisville)	F	MPEG-4	22	115	116 E
		WPXS-TV (Mount Vernon)	F	MPEG-4	24	3001	3002 E
		Rev'n TV	F S	MPEG-4	25	127	128 E
		WAOH-LP (Akron)	F	MPEG-4	26	131	132 E
		KMCC-TV Action (Laughlin)	F	MPEG-4	28	139	140 E
		KRFT-LD (Springfield)	F	MPEG-4	32	154	155 E
		Jewelry TV	F S	MPEG-4	33	160	161 E
4146 H tp 23 North America C 42-43		(feeds)		DVB-S	6789-3/4		Rick 070818
4188 V tp 24 North America C 42-43		(feeds)		DVB-S	3027-?		F Miata 070506





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DVB S2 HD Satellite TV

Live Satellite

Lyngsat Satellite TV

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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID		ONID-TID C/N lock APID Lang.	Source Updated	
11725 H tp 1 North America Ku 50-52		(Bloomberg TV feeds)		DVB-S	3675-2/3			S Googan 130209	
11737 V tp 2 North America Ku 50-52		MTA		DVB-S	8333-2/3		4.4	Abbie 140905	
		MTA 1	F S		1	102	103 orig 202 E 203 Ur 603 A 703 Ben 803 F 903 G		
		MTA 1 +3	F		2	302	303 orig		
		MTA 3	F S		3	402	403 A		
		MTA InfoCast	F		4	502	503		
11750 V tp 2 North America Ku 50-52		Viacom Media Networks		Digicipher 2	7320-7/8		553-?	Kyl 416 150331	
		MTV U East			1	001	E		
		MTV U West			2	002	E		
11760 H tp 3 North America Ku 50-52		(CNN feeds)		NTSC					
11800 H tp 5 North America Ku 50-52		Patient Channel	F	DVB-S	2686-3/4 2 - 49		7-3 5.5 50 E	W Thomas 140129	
11804 H tp 5 North America Ku 50-52		(LPB feeds)		DVB-S2	1250-3/5 8PSK			M Wilson 3 130901	
11811 H tp 5 North America Ku 50-52		LPB		DVB-S2	11150-3/5 8PSK		5.5	Abbie 140905	
		LPB Kids	F	MPEG-2	4	65	68 E		
		LPB 3	F	MPEG-2	5	81	84 E		

		LPB HD	F	MPEG-2/HD	6	97	100 E	
11820 V tp 6 North America Ku 50-52		@ HughesNet		DVB-S	30000-5/6	6.5		Marcel 2 090112
11881 H tp 9 North America Ku 50-52		(WTTG-TV feeds)		DVB-S	3979-3/4			R Woods 170221
11900 V tp 10 North America Ku 50-52		@ HughesNet		DVB-S	30000-2/3	4.4		Marcel 2 090112
11940 V tp 12 North America Ku 50-52		(feeds)		NTSC				
11960 H tp 13 North America Ku 50-52		CNN NewsSource		DVB-S	29270-3/4	7-1 5.5		Mac1_131 131216
		(feeds)			1	.100	1101	
		(feeds)			2	1200	1201	
		(feeds)			3	1300	1301	
		(feeds)			4	1400	1401	
		CNN NewsSource		PowerVu+	6	1600	1101 E	
12008 V tp 16 North America Ku 50-52		@ HughesNet		DVB-S	5000-1/2	2.7		Marcel 2 060818
12009 H tp 15 North America Ku 50-52								Caleb T 170423
12044 V tp 18 North America Ku 50-52		The Florida Channel	F S	DVB-S2 MPEG-2	3200-2/3 8PSK 3 - 49	7-7 6.6 60 E		Abbie 140905
12064 V tp 18 North America Ku 50-52		(feeds)		DVB-S	6510-5/6			Abbie 140905
12152 H tp 23 North America Ku 50-52		(feeds)		DVB-S2	15000-? 8PSK			Abbie 140905
12165 H tp 23 North America Ku 50-52		(feeds)		DVB-S	6110-3/4			Abbie 140905
12175 H tp 23 North America Ku 50-52		[test card]		DVB-S	4342-? 308		256	W Frankson 100221
12184 V tp 24 North America Ku 50-52		(Unreliable Sources feeds)		DVB-S	3500-3/4			N Ardman 100329
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Galaxy 28 at 89.0°W



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[87.2°W <C> 91.0°W](#) | [HD](#) | [SatTracker](#) | [LyngSat Maps](#) | [87.2°W <Ku> 91.0°W](#)

Azimuth & elevation in Herndon, Virginia, United States: 198.3° & 43.4°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3840 V tp 107 North America C 41-42.7	(feeds)	DVB-S2	29860-9/10 8PSK		Costactc 110806
3860 H tp 108 North America C 41-42.7		DVB-S2	30000-5/6 8PSK	1-1	Abbie 161211
	Event TV HD	MPEG-4/HD Irdeto	1 481	482 E AC3	
	Event TV HD	MPEG-4/HD Irdeto	11 581	582 E AC3	
	Event TV SD	MPEG-2 Irdeto	4100 4101	4102 E AC3	
	Vubiquity PPV 2	MPEG-2 Irdeto	4200 4201	4202 E AC3	
	Arouse	MPEG-2 BISS	4610 4611	4612 E AC3	
3880 V tp 109 North America C 41-42.7	(CBS feeds)	DVB-S2	29860-9/10 8PSK		F Miata 161028
3900 H tp 110 North America C 41-42.7	(CBS feeds)	DVB-S2	29860-9/10 8PSK		F Miata 161028
3920 V tp 111 North America C 41-42.7	(CBS feeds)	DVB-S2	29860-9/10 8PSK		Abbie 110808
3980 H tp 114 North America C 41-42.7	(CBS feeds)	DVB-S	32360-3/4		Abbie 110721
4005 V tp 115 North America C 41-42.7	CBN News	DVB-S MPEG-4/HD	6111-3/4 1 - 1260	2-102 5.5 1220 E	Abbie 161123
4014 V tp 115 North America C 41-42.7	(CBN feeds)	DVB-S	6111-3/4		Abbie 120901
4060 H tp 118 North America C 41-42.7	(CW feeds)	DVB-S2	32362-3/4		A Corino 150418
4110 H tp 223 South America C 0	Bolivian mux	DVB-S2	2835-? 8PSK		Claudemar 120324
	Unitel Santa Cruz (Bolivia)	MPEG-4 Xcrypt	257	258 Sp	
	Activa TV (Bolivia)	MPEG-4	513	514 Sp	
	Unitel La Paz (Bolivia)	MPEG-4 Xcrypt	769	770 Sp	
	(Unitel feeds)	MPEG-4	1025	1026 Sp	
4154 V tp 123 North America C 41-42.7	(feeds)	DVB-S	4434-?		D Dragos 110306
4166 H tp 124 North America C 41-42.7	(feeds)	DVB-S	7440-?		Rick 061112
4175 H tp 124 North America C 41-42.7	(feeds)	DVB-S	7440-?		Rick 061112
4185 H tp 124 North	(feeds)	DVB-S	7440-?		Rick 061112

News at LyngSat Stream:



[Málaga 24h](#)



[Praja TV
Kannada](#)



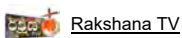
[TV Zabrze](#)



[TV Master](#)

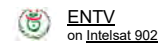


[TV Kłodzka](#)

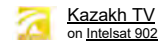


[Rakshana TV](#)

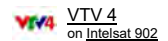
News at LyngSat:



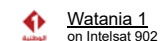
[ENTV](#)
on [Intelsat 902](#)



[Kazakh TV](#)
on [Intelsat 902](#)



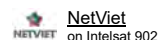
[VTV 4](#)
on [Intelsat 902](#)



[Watania 1](#)
on [Intelsat 902](#)



[RTV San Marino](#)
on [Intelsat 902](#)



[NetViet](#)
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America C 41-42.7						
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AdChoices

Free Satellite TV

DVB S2 HD Satellite TV

Satellite View

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11711 H tp 701 South America Ku 0		(feeds)	DVB-S	6620-?		F Gomes 080906
11724 H tp 701 South America Ku 0		(feeds)	DVB-S	6500-?		F Gomes 080906
11732 H tp 701 South America Ku 0		(feeds)	DVB-S	4440-?		N Chaves 080412
11745 H tp 602 North America Ku 0-51.1		(feeds)	DVB-S	7030-?		W Frankson 070913
11747 H tp 703 South America Ku 0		(feeds)	DVB-S	6620-?		A Camargo 070914
11756 H tp 703 South America Ku 0		(feeds)	DVB-S	6620-?		A Camargo 080323
11756 H tp 602 North America Ku 0-51.1		LDS Church	DVB-S2	3345-4/5 QPSK	4.7	BTork 161103
		LDS Church ASL	F MPEG-4	501	5376	5377 E
		LDS Church	F MPEG-4	1101	5888	5889 E 5889 Sp
11845 H tp 707 South America Ku 0		(feeds)	DVB-S	6510-?		A Camargo 080323
11920 V tp 611 North America Ku 0-51.1		@ HughesNet	DVB-S	30000-7/8	7.2	Marcel 2 060825
11925 H tp 612 North America Ku 0-51.1		(ABC feeds) (1)	DVB-S	3979-3/4		M Loewe 050914
11930 H tp 612 North America Ku 0-51.1		(ABC feeds) (2)	DVB-S	3979-3/4		M Loewe 050914
11935 H tp 612 North America Ku 0-51.1		(ABC feeds) (3)	DVB-S	3979-3/4		M Loewe 050914
11940 H tp 612 North America Ku 0-51.1		(ABC feeds) (4)	DVB-S	3979-3/4		M Loewe 050914
11945 H tp 612 North America Ku 0-51.1		(ABC feeds) (5)	DVB-S	3979-3/4		M Loewe 050914
11950 H tp 612 North America Ku 0-51.1		(ABC feeds) (6)	DVB-S	3979-3/4		M Loewe 050914
11955 H tp 612 North America Ku 0-51.1		(ABC feeds) (7)	DVB-S	3979-3/4		M Loewe 050914
11960 H tp 713 South America Ku 0		Nossa TV	P DVB-S Betacrypt	28800-3/4	5.5	G Alexandre 141214
11965 H tp 614 North America Ku 0-51.1		(ABC feeds) (1)	DVB-S	3979-3/4		T Shalz 060310
11970 V tp 613 North America		(ABC feeds) (6)	DVB-S	3979-3/4		T Shalz 060310

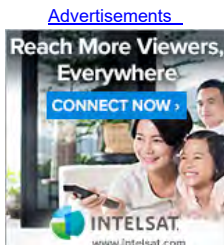
<u>Ku</u> 0-51.1						
11970 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (2)		DVB-S	3979-3/4	T Shalz 060310
11975 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (3)		DVB-S	3979-3/4	T Shalz 060310
11980 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (4)		DVB-S	3979-3/4	T Shalz 060310
11985 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (5)		DVB-S	3979-3/4	T Shalz 060310
11989 V tp 615 <u>North America</u> <u>Ku</u> 0-51.1		(feeds)		DVB-S	6111-3/4	R Caylor 050909
11990 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (6)		DVB-S	3979-3/4	T Shalz 060310
11995 H tp 614 <u>North America</u> <u>Ku</u> 0-51.1		(ABC feeds) (7)		DVB-S	3979-3/4	T Shalz 060310
12000 H tp 715 <u>South America</u> <u>Ku</u> 0		<u>Nossatv</u>	P	DVB-S	28800-3/4	5.5 G Alexandre 141214
12009 V tp 615 <u>North America</u> <u>Ku</u> 0-51.1		(feeds)		DVB-S	6111-3/4	R Caylor 050909
12035 V tp 617 <u>North America</u> <u>Ku</u> 0-51.1		(feeds)		DVB-S	6111-3/4	A Skolnik 070806
12047 V tp 617 <u>North America</u> <u>Ku</u> 0-51.1		(feeds)		DVB-S	6111-?	W Frankson 070916
12100 H tp 620 <u>North America</u> <u>Ku</u> 0-51.1		@ HughesNet		DVB-S	30000-7/8	7.2 Marcel 2 060825
12121 H tp 721 <u>South America</u> <u>Ku</u> 0		<u>Canal 10 TV Rionegrina</u>	F	DVB-S	2676-3/4 2002	5.5 3002 Sp C Oviedo 100917
12140 H tp 622 <u>North America</u> <u>Ku</u> 0-51.1		@ HughesNet		DVB-S	30000-7/8	7.2 Marcel 2 080511
12160 V tp 623 <u>North America</u> <u>Ku</u> 0-51.1		@ HughesNet		DVB-S	30000-7/8	7.2 Marcel 2 060825
12164 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (1)		DVB-S	2785-3/4	Anonymous 071031
12167 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (2)		DVB-S	2785-3/4	Anonymous 071031
12171 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (3)		DVB-S	2785-3/4	Anonymous 071031
12174 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (4)		DVB-S	2785-3/4	Anonymous 071031
12178 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (5)		DVB-S	2785-3/4	Anonymous 071031
12181 H tp 624 <u>North America</u> <u>Ku</u> 0-51.1		(Hearst feeds) (6)		DVB-S	2785-3/4	Anonymous 071031

12185 H tp 624 <u>North America</u> Ku 0-51.1		(Hearst feeds) (7)	DVB-S	2785-3/4		Anonymous 071031
12188 H tp 624 <u>North America</u> Ku 0-51.1		(Hearst feeds) (8)	DVB-S	2785-3/4		Anonymous 071031
12192 H tp 624 <u>North America</u> Ku 0-51.1		(Hearst feeds) (9)	DVB-S	2785-3/4		Anonymous 071031
12195 H tp 624 <u>North America</u> Ku 0-51.1		(Hearst feeds) (9)	DVB-S	2785-3/4		T Shalz 131227
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

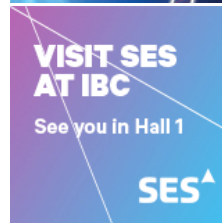
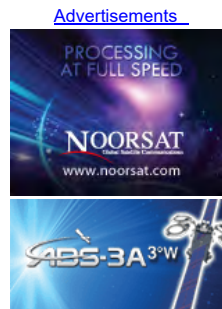
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Galaxy 17 at 91.0°W










Atlantic		Main		America		America		P		America		HD		America		UHD		Headlines		Launches		Asia							
89.0°W <C> 93.1°W										HD SatTracker LyngSat Maps										89.0°W <Ku> 93.1°W									
Galaxy 17 & Nimiq 6 Galaxy 17 Nimiq 6																													
Azimuth & elevation in Herndon, Virginia, United States: 201.3° & 42.8° The EIRP values are for Richmond, Virginia, United States																													
Galaxy 17 © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/Galaxy-17.html																													
Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID		ONID-TID C/N lock APID Lang.		Source Updated																				
3715 H tp 1 C 42.6-43.6		The CW Plus		DVB-S2	21600-5/6 8PSK		9.4 AC3		Abbie 170218																				
		The CW Plus East		MPEG-4/HD Verimatrix	1	257	258 E AC3																						
		The CW Plus Central		MPEG-4/HD Verimatrix	2	513	514 E AC3																						
		The CW Plus Mountain		MPEG-4/HD Verimatrix	3	769	770 E AC3																						
		The CW Plus Pacific		MPEG-4/HD Verimatrix	4	1025	1026 E AC3																						
3740 V tp 2 C 42.6-43.6		Fox Networks Group		DVB-S2	31250-3/4 8PSK		7.9 AC3		Abbie 131006																				
		FX East		MPEG-2/HD Digicipher	1	101	102 E AC3																						
		FX West		MPEG-2/HD Digicipher	2	201	202 E AC3																						
		National Geographic East		MPEG-2/HD Digicipher	3	301	302 E AC3																						
		Fox Business	S	MPEG-2/HD Digicipher	4	401	402 E AC3																						
3751 H tp 3 C 42.6-43.6		Comcast SportsNet Chicago		DVB-S2	14410-5/6 8PSK		9.4 AC3		Kyl 416 140407																				
		Comcast SportsNet Chicago		MPEG-4/HD PowerVu+	11	111	100 E AC3																						
		Comcast SportsNet Chicago Outer Market		MPEG-4/HD PowerVu+	12	211	2.0 E AC3																						
		Comcast SportsNet Chicago Plus		MPEG-4/HD PowerVu+	13		E AC3																						
3764 H tp 3 C 42.6-43.6		SportsNet New York		DVB-S2	7500-5/6 8PSK		9.4 AC3		Abbie 161106																				
		SportsNet New York		MPEG-4/HD PowerVu	10	111	101 E AC3																						
		SportsNet New York Connecticut		MPEG-4/HD PowerVu	20	210	20. E AC3																						
3774 H tp 9 C 42.6-43.6		The Word Network	F S	DVB-S	6620-1/2 ? - 1160		7-1 2.7 1120 E 1130 E AC3		P Glass 160912																				
3780 V tp 4 C 42.6-43.6		MLB Network		Digicipher 2	29270-3/4		834-?		J Kitsko 090409																				
		MLB Network		MPEG-2/HD	1	201	E																						
		MLB Network		MPEG-2/HD	2	101	E																						
3800 H tp 5 C 42.6-43.6		Fox Networks Group		DVB-S2	31250-3/4 8PSK		7.9 AC3		J Toro 170701																				
		National Geographic West		MPEG-2/HD Digicipher	1	101	102 E AC3																						
		FX West		MPEG-2/HD Digicipher	2	201	202 E AC3																						
3820 V tp 6 C 42.6-43.6		Fox Networks Group		DVB-S	30000-5/6		1-405 6.5		Abbie 161106																				
		Fox News Channel	S	PowerVu	1	1160	1120 E 1130 E AC3																						
		Fox College Sports Atlantic		PowerVu	2	12.0	1220 E 1230 E AC3																						
		Fox College Sports Central		PowerVu	3	1360	1320 E 1330 E AC3																						
		Fox College Sports Pacific		PowerVu	4	1460	1420 E 1430 E AC3																						
		Nat Geo Mundo		PowerVu	5	1560	1520 Sp 1530 Sp AC3																						
		National Geographic East		PowerVu	6	1660	1620 E																						
		FX Movie Channel		PowerVu	7	1760	1720 E																						
		Fox Business	S	PowerVu	9	1960	1920 E 1930 E AC3																						
National Geographic East		PowerVu	10	1060	1020 E																								
3840 H tp 7		Comcast Entertainment Group		DVB-S	29270-7/8		7.2		Kyl 416 160408																				







News at LyngSat:


- CGTN**
on Intelsat 902
- The Word Network**
on Intelsat 902
- Watania 1**
on Intelsat 902
- Kurdistan TV**
on Intelsat 902
- Ganj e Hozour TV**
on Intelsat 902
- RTV San Marino**
on Intelsat 902

News at LyngSat Stream:

- Rakshana TV**
- Málaga 24h**
- TV Kłodzka**
- TV Zabrze**
- Prajaa TV Kannada**
- TV Master**

C 42.6-43.6		NBC Sports Network		PowerVu	1	110	100 E AC3 102 E	
		NBC Sports Network Alternate		PowerVu	2	210	200 E	
		Golf Channel US		PowerVu	3	310	300 E AC3 302 E	
		Golf Channel US Alternate		PowerVu	4	410	400 E	
		Aspire		PowerVu	5	510	500 E AC3	
3860 V tp 8 C 42.6-43.6		Fox Sports Networks		DVB-S2	31250-3/4 8PSK		7.9	Sergio 170705
		Fox Sports San Diego		MPEG-2/HD Digicipher	1	101	102 E AC3	
		Yes Network		MPEG-2/HD Digicipher	2	201	202 E AC3	
		(Fox Sports feeds)			3	301	302	
		(Fox Sports feeds)			4	401	402	
3880 H tp 9 C 42.6-43.6				DVB-S2	30000-5/6 8PSK			Abbie 170803
		Altitude		MPEG-4 PowerVu	1	100	110 E AC3 111 E	
		Altitude 2		MPEG-4 PowerVu	2	200	210 E AC3 211 E	
		World Fishing Network		MPEG-4 PowerVu	3	300	310 E AC3	
		Outdoor Channel		MPEG-4 PowerVu	4	400	410 E AC3	
		Sportsman Channel		MPEG-4 PowerVu	5	500	511 E	
3920 H tp 11 C 42.6-43.6				DVB-S2	30000-3/4 8PSK		7-? AC3	Kyl 416 140402
		WNBC-TV (NBC - New York)		MPEG-4/HD PowerVu	71	710	711 E AC3	
		Comcast SportsNet Philadelphia		MPEG-4/HD PowerVu	72	720	721 E AC3	
		Comcast SportsNet Mid-Atlantic Plus		MPEG-4/HD PowerVu	74	740	741 E AC3	
		Comcast SportsNet Mid-Atlantic Washington		MPEG-4/HD PowerVu	75	750	751 E AC3	
		Comcast SportsNet Mid-Atlantic Baltimore		MPEG-4/HD PowerVu	76	760	761 E AC3	
		Comcast SportsNet Alternate		MPEG-4/HD PowerVu	77	770	771 E AC3	
3925 V tp 12 C 42.6-43.6		BYU TV	F	DVB-S2 MPEG-4/HD	4249-2/3 8PSK 1 - 81		7-? 6.6 84 E AC3	S Marcotte 150317
		BYU Radio	F S		2		89 E AC3	
3934 V tp 12 C 42.6-43.6		KLUZ-TV (Univisión - Albuquerque)	F	DVB-S	2480-7/8 4 - 65		7-? 7.2 68 Sp	S Marcotte 150317
3947 V tp 12 C 42.6-43.6		Roberts Communications Network		DVB-S2	18333-5/6 8PSK		9.4	J van Zandt 160303
		Gem Shopping Network	S	MPEG-2 Digicipher	1	101	102 E	
		TVG 2		MPEG-2 Digicipher	2	513	514 E	
		Capital OTB		MPEG-2 Digicipher	3	769	7.0 E	
		TVG		Digicipher	4	1025	1026 E	
3960 H tp 13 C 42.6-43.6		Digital Media Centers		Digicipher 2	29270-7/8		213-?	Abbie 161117
		TV One (USA)			1	239	E	
		Free Speech TV	F S		9	248	E	
		Logo East			10	250	E	
		BET Jams			11	251	E	
		[test card]			12	252		
		[test card]			13	253		
		Youtoo America			14	254	E	
3966 V tp 14 C 42.6-43.6		TCT		DVB-S2	5600-3/4 8PSK		7.9	Abbie 170831
		TCT HD	F S	MPEG-4/HD	1	49	52 E AC3	
		TCT	F S	MPEG-4	2	81	84 E AC3	
		Light TV	F	MPEG-4	3	65	68 E AC3	new
3984 V tp 14 C 42.6-43.6				DVB-S2	22500-5/6 8PSK		799-?	Sergio 150310
		Altitude		MPEG-4/HD PowerVu	1	110	171 E	
		Altitude 2		MPEG-4/HD PowerVu	2	210	271 E	
		Comcast SportsNet Houston		MPEG-4/HD PowerVu	5	510	500 E AC3	
		World Fishing Network		MPEG-4/HD PowerVu	130	310	300 E AC3	
4000 H tp 15 C 42.6-43.6		Spectrum		DVB-S2	30000-5/6 8PSK		9.4	Sergio 150312
		TWC SportsNet		MPEG-4/HD PowerVu	1	100	1.0 E AC3	
		TWC Deportes		MPEG-4/HD PowerVu	2	200	210 Sp AC3	
		TWC SportsNet Los Angeles		MPEG-4/HD	3	300	310 E AC3	

			PowerVu				
		(TWC feeds)	MPEG-4/HD	4	400	410	
		(TWC feeds)	MPEG-4/HD	5	5.0	510	
		(TWC feeds)	MPEG-4/HD	6	600	610	
		(TWC feeds)	MPEG-4/HD	7	700	710	
		(TWC feeds)	MPEG-4/HD	8	800	810	
4020 V tp 16 C 42.6-43.6		<u>Fox Networks Group</u>	DVB-S2	31250-3/4 8PSK		7.9	Abbie 140813
		<u>FXX East</u>	MPEG-2/HD Digicipher	1	101	102 E	
		<u>Fox Soccer Plus</u>	MPEG-2/HD Digicipher	2	201	202 E	
		[test card]	MPEG-2/HD Digicipher	3	301	302	
		<u>Nat Geo Wild US</u>	MPEG-2/HD Digicipher	4	401	402 E	
4040 H tp 17 C 42.6-43.6		<u>Fox Sports Networks</u>	DVB-S2	31250-3/4 8PSK		7.9	A Hamilton 140802
		<u>Fox Sports Detroit</u>	MPEG-2/HD Digicipher	1	101	102 E	
		<u>Fox Sports Midwest</u>	MPEG-2/HD Digicipher	2	201	202 E	
		<u>Fox Sports Arizona</u>	MPEG-2/HD Digicipher	3	301	302 E	
		(Fox Sports feeds)	MPEG-2/HD	4	401	402	
4066 V tp 18 C 42.6-43.6		<u>Classic Arts Showcase</u>	F DVB-S2 MPEG-4/HD	6051-5/6 8PSK 100		9.4 110 E	Abbie 130715
4076 V tp 18 C 42.6-43.6		<u>Classic Arts Showcase</u>	F DVB-S	3000-3/4 8000		5.5 8001 E	J Veldhuis 100909
4080 H tp 19 C 42.6-43.6		<u>Comcast SportsNet</u>	DVB-S2	30000-3/4 8PSK		840-? 7.9 AC3	Kyl 416 160408
		<u>NBC Sports California</u>	MPEG-4/HD PowerVu	101	3110	3100 E AC3	
		<u>NBC Sports California Plus</u>	MPEG-4/HD PowerVu	102	3210	3200 E AC3	
		<u>NBC Sports Bay Area</u>	MPEG-4/HD PowerVu	103	310	300 E AC3	
		<u>NBC Sports Bay Area Plus</u>	MPEG-4/HD PowerVu	104	2410	2400 E AC3	
		<u>NBC Sports Bay Area Plus 2</u>	MPEG-4/HD PowerVu	105	2510	2500 E AC3	
		<u>Comcast SportsNet New England</u>	MPEG-4/HD PowerVu	106	610	600 E AC3	
		<u>Comcast SportsNet New England Plus</u>	MPEG-4/HD PowerVu	107	.10	700 E AC3	
4100 V tp 20 C 42.6-43.6			DVB-S2	30000-5/6 8PSK		820-?	J Kitsko 170910
		<u>Root Sports Northwest</u>	MPEG-4/HD PowerVu	1	110	10. E	
		<u>AT&T SportsNet Rocky Mountain</u>	MPEG-4/HD PowerVu	2	210	200 E	
		<u>AT&T SportsNet Pittsburgh</u>	MPEG-4/HD PowerVu	3	310	300 E	
		<u>Root Sports Northwest Alternate</u>	MPEG-4/HD PowerVu	4	410	400 E	
		<u>AT&T SportsNet Rocky Mountain Alternate</u>	MPEG-4/HD PowerVu	5	510	500 E	
		<u>AT&T SportsNet Pittsburgh Alternate</u>	MPEG-4/HD PowerVu	6	610	600 E	
		<u>AT&T SportsNet Southwest</u>	MPEG-4/HD PowerVu	7	710	700 E	
		<u>AT&T SportsNet Southwest Alternate</u>	MPEG-4/HD PowerVu	8	810	800 E	
		<u>AT&T SportsNet Rocky Mountain Alternate 2</u>	MPEG-4/HD PowerVu	9	910	900 E AC3	
		[AT&T SportsNet test card]	MPEG-4/HD	10	1010	1000 E	
4115 H tp 21 C 42.6-43.6		<u>Crawford Cablestar</u>	Digicipher 2	19510-3/4		690-?	K Hvam 111123
		<u>MavTV</u>		6	105	E	
		<u>UP</u>		7	106	E	
		<u>Tempo</u>		8	107	E	
		<u>NFL Network</u>		9	108	E	
		<u>NFL RedZone</u>		10	109	E	
		<u>Más Chic Estados Unidos</u>		11	110	Sp	
		<u>TVG</u>		12	111	E	
4134 H tp 21 C 42.6-43.6		(feeds)	DVB-S2	6960-5/6 8PSK			Abbie 131008
4140 V tp 22 C 42.6-43.6		<u>Fox Sports Networks</u>	DVB-S2	31250-3/4 8PSK		7.9 AC3	A Hamilton 140802
		<u>Fox Sports North</u>	MPEG-2/HD Digicipher	1	101	102 E AC3	
		<u>Fox Sports W isconsin</u>	MPEG-2/HD Digicipher	2	201	.02 E AC3	
		<u>Fox Sports Florida</u>	MPEG-2/HD Digicipher	3	301	302 E AC3	
			MPEG-2/HD	4	401	402 E AC3	

4160 H tp 23 C 42.6-43.6		<u>Fox Sports Sun</u>		Digicipher				
				DVB-S2	31250-3/4 8PSK			Sergio 170705
		<u>Big Ten Network</u>		MPEG-4/HD Digicipher	1	101	102 E AC3	
4180 V tp 24 C 42.6-43.6		<u>SportsTime Ohio</u>		MPEG-4/HD Digicipher	3	301	302 AC3	
		<u>International Media Distribution</u>		DVB-S2	30000-5/6 8PSK		837-? 9.4	Abbie 161118
		<u>Myx USA</u>		MPEG-2 PowerVu	1	110	100 J AC3 102 Sp AC3	
		<u>TFC USA West</u>		MPEG-2 PowerVu	2	210	200 Tag AC3	
		<u>TV Asia</u>		MPEG-2 PowerVu	3	310	300 Hi AC3	
		<u>Star Plus USA</u>		MPEG-2 PowerVu	4	410	400 Hi AC3	
		<u>Star Bharat USA</u>		MPEG-2 PowerVu	5	510	500 Hi AC3	
		<u>Star Gold USA</u>		MPEG-2 PowerVu	6	610	600 Hi AC3	
		<u>ABP News USA</u>		MPEG-2 PowerVu	7	710	700 Hi AC3	
		<u>ART America</u>		MPEG-2 PowerVu	8	810	800 A AC3	
		<u>CCTV 4 America</u>	S	MPEG-2 PowerVu	9	910	900 C AC3	
		<u>CTI TV International</u>		MPEG-2 PowerVu	10	1010	1000 C AC3	
		<u>CGTN</u>	S	MPEG-2 PowerVu	11	1110	1100 E AC3	
		<u>TV 5 Monde USA</u>		MPEG-2 PowerVu	12	1210	1200 F AC3	
		<u>ANC</u>		MPEG-2 PowerVu	13	1310	1300 E AC3	
		<u>TVK (USA)</u>		MPEG-2 PowerVu	14	1410	1400 K AC3	
		<u>Perviy kanal America</u>		MPEG-2 PowerVu	15	1510	1500 R AC3	
		<u>RTN (USA)</u>		MPEG-2 PowerVu	16	1610	1600 R AC3	
		<u>SBTN</u>		MPEG-2 PowerVu	17	1710	1700 Vi AC3	
		<u>TFC USA East</u>		MPEG-2 PowerVu	18	1810	1800 Tag AC3	
		<u>Mediaset Italia</u>		MPEG-2 PowerVu	19	1910	1900 I AC3	
		<u>Lifestyle Network</u>		MPEG-2 PowerVu	20	2010	2000 E AC3	
		<u>TVK 2 (USA)</u>		MPEG-2 PowerVu	21	2110	2100 K AC3	
		<u>Bro</u>		MPEG-2 PowerVu	22	2210	2200 Tag AC3	
		<u>TFC USA East</u>		MPEG-2 PowerVu	23	2310	2300 Tag AC3	
		<u>TFC USA West</u>		MPEG-2 PowerVu	24	2410	2400 Tag AC3	
		<u>Cinema One Global</u>		MPEG-2 PowerVu	25	2510	2500 Tag AC3	
		<u>TV 5 (Philippines)</u>		MPEG-2 PowerVu	26	2610	2600 Tag AC3	
		<u>DZMM TeleRadyo</u>		MPEG-2 PowerVu	27	2710	2700 Tag AC3	
		<u>DW Deutsch+</u>	S	MPEG-2 PowerVu	28	2810	2800 G AC3	
		<u>TNT International</u>		MPEG-2 PowerVu	30	3010	3000 R AC3	
		[CDOC test card]		MPEG-2	31	3160	3161 AC3	


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2 Galaxy

Galaxy S

Galaxy S2 HD

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated	
11740 V tp 2 Ku 48.4-51.4	 @ HughesNet	DVB-S	30000-7/8	7.2	Marcel 2 060919	
11925 V tp 12 Ku 48.4-51.4	(ABC feeds) (A)	DVB-S	3979-3/4		R Bode 080225	
11930 V tp 12 Ku 48.4-51.4	(ABC feeds) (B)	DVB-S	3979-3/4		R Bode 080225	
11935 V tp 12 Ku 48.4-51.4	(ABC feeds) (C)	DVB-S	3979-3/4		R Bode 080225	
11940 V tp 12 Ku 48.4-51.4	(ABC feeds) (D)	DVB-S	3979-3/4		R Bode 080225	
11945 V tp 12 Ku 48.4-51.4	(ABC feeds) (E)	DVB-S	3979-3/4		R Bode 080225	
11950 V tp 12	(ABC feeds) (F)	DVB-S	3979-3/4		R Bode 080225	

<div>Ku</div> <div>48.4-51.4</div>						
<div>11952 H</div> <div>tp 13</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	5859-?		W Frankson 091101
<div>11955 V</div> <div>tp 12</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (G)		DVB-S	3979-3/4		R Bode 080225
<div>11965 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (A)		DVB-S	3979-?		Rick 051011
<div>11970 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (B)		DVB-S	3979-?		Rick 051011
<div>11973 H</div> <div>tp 13</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	6111-3/4		A von Krayth 120112
<div>11975 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (C)		DVB-S	3979-?		Rick 051011
<div>11980 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (D)		DVB-S	3979-?		Rick 051011
<div>11985 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (E)		DVB-S	3979-?		Rick 051011
<div>11987 H</div> <div>tp 15</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	6111-?		Rick 090507
<div>11990 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (F)		DVB-S	3979-?		Rick 050216
<div>11995 V</div> <div>tp 14</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (G)		DVB-S	3979-?		Rick 051011
<div>11995 H</div> <div>tp 15</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	6111-3/4		A von Krayth 120112
<div>12011 V</div> <div>tp 16</div> <div>Ku</div> <div>48.4-51.4</div>		<u>ABC News One</u>	DVB-S	13333-3/4	5.5	S Hagerty 160118
		<u>ABC News One Live Channel 2</u>	F MPEG-4/HD	33	38 E	
		<u>ABC News One Live Channel 1</u>	F MPEG-4/HD	34	39 E	
		<u>ABC News One Live Channel 1</u>	F	308	256 E	
		<u>ABC News One Live Channel 2</u>	F	514	670 E	
<div>12020 V</div> <div>tp 16</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (D)		DVB-S	3979-3/4		R Bode 080225
<div>12025 V</div> <div>tp 16</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (E)		DVB-S	3979-3/4		R Bode 080225
<div>12030 V</div> <div>tp 16</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (F)		DVB-S	3979-3/4		R Bode 080225
<div>12035 V</div> <div>tp 16</div> <div>Ku</div> <div>48.4-51.4</div>	(ABC feeds) (G)		DVB-S	3979-3/4		R Bode 080225
<div>12076 H</div> <div>tp 19</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	13000-?		W Frankson 091101
<div>12100 V</div> <div>tp 20</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		NTSC			
<div>12115 H</div> <div>tp 21</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	13235-?		W Frankson 091206
<div>12130 H</div> <div>tp 21</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	13000-3/4		Marcel 2 090428
<div>12180 V</div> <div>tp 24</div> <div>Ku</div> <div>48.4-51.4</div>	(feeds)		DVB-S	5632-3/4		Anonymous 100616
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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[91.0°W <C> 95.0°W](#) | [SatTracker](#) | [LyngSat Maps](#) | [91.1°W <Ku> 95.0°W](#)

Azimuth & elevation in Herndon, Virginia, United States: 204.3° & 42.1°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
4036 V tp 17 C 0-39	(feeds)	DVB-S	19852-5/6		S Lutz 110805
4053 V tp 17 C 0-39	(feeds)	DVB-S	6617-5/6		S Lutz 110805
4180 H tp 24 C 0-39	(feeds)	DVB-S	26470-5/6		S Lutz 101111

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
12010 V tp 17 Ku 46-48	(feeds)	DVB-S	11574-?		B Leblanc 131024
12126 V tp 23 Ku 46-48	(feeds)	DVB-S	22000-?		Joe 2 170514

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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Galaxy 3C at 95.0°W



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[Galaxy 3C & Spaceway 3 & Intelsat 30](#) | [Galaxy 3C](#) | [Spaceway 3](#) | [Intelsat 30](#)
 Azimuth & elevation in Herndon, Virginia, United States: 207.0° & 41.4°
 The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3785 V tp 4 North America C 39.1-42.1	(feeds)	DVB-S2	6922-5/6 8PSK		Abbie 140809
3800 H tp 5 North America C 39.1-42.1	(feeds)	DVB-S	29270-?		D Dragos 110310
3827 H tp 7 North America C 39.1-42.1	(feeds)	DVB-S2	6922-5/6 8PSK		Abbie 140809
3829 V tp 6 North America C 39.1-42.1	(feeds)	DVB-S2	13000-5/6 8PSK		Abbie 140809
3880 H tp 9 North America C 39.1-42.1	(feeds)	NTSC			
3884 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S2	1035-3/4 16APSK		Abbie 121008
3889 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3893 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3896 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S2	2000-3/4 8PSK		Abbie 140809
3901 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S2	1836-3/4 8PSK		Abbie 140809
3911 V tp 10 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3911 H tp 11 North America C 39.1-42.1	(feeds)	DVB-S2	15000-5/6 8PSK		Abbe 140809
3924 V tp 12 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3929 V tp 12 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3935 V tp 12 North America C 39.1-42.1	(Roberts Communications feeds)	DVB-S2	2000-3/4 8PSK		Abbie 140809
3940 V tp 12 North America	(Roberts Communications feeds)	DVB-S2	2000-3/4 8PSK		Abbie 140809

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39.1-42.1 C						
3943 V tp 12 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3950 V tp 12 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	2000-3/4 8PSK		Abbie 140809
3956 V tp 12 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	3302-3/4 8PSK		Abbie 140809
3965 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	1035-3/4 8PSK		Abbie 140809
3970 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	1035-3/4 16APSK		Abbie 121008
3974 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3980 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	1035-3/4 16APSK		Abbie 121008
3984 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S2	1035-3/4 16APSK		Abbie 121008
3988 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3992 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
3996 V tp 14 North America C 39.1-42.1		(Roberts Communications feeds)	DVB-S	3074-3/4		Rick 050219
4000 H tp 15 North America C 39.1-42.1		(ABC feeds)	DVB-S2	30000-9/10 8PSK		Abbie 140809
4031 H tp 17 North America C 39.1-42.1		(feeds)	DVB-S2	14035-3/4 8PSK		B Chester 090819
4060 V tp 18 North America C 39.1-42.1		(Fox feeds)	DVB-S2	31250-3/4 8PSK		Abbie 140809
4080 H tp 19 North America C 39.1-42.1		(Fox feeds)	DVB-S2	31250-3/4 8PSK		Abbie 140809
4120 H tp 21 North America C 39.1-42.1		(feeds)	DVB-S	29270-?		J Everett 060330
4140 V tp 22 North America C 39.1-42.1		(feeds)	NTSC			
4160 V tp 23 North America C 39.1-42.1		(feeds)	NTSC			
4173 V tp 24 North America C 39.1-42.1		Info 7	 DVB-S	2221-? 1 - 241	?-? 244 Sp	D Dragos 130403
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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated	
			20000-2/3		P Smith	

11720 H tp 1 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard				110215
11780 H tp 4 North America Ku 47.1-49.1		CCTV		DVB-S	20760-3/4	1-1 5.5		Abbie 140809
		CCTV 4 America	F S		1	512	650 C	
		CGTN	F S		2	513	660 E	
		CGTN Français	F S		3	514	670 F	
		CGTN Español	F		7	518	710 Sp	
		CGTN Documentary	F S		8	519	720 E	
11840 H tp 7 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215
11900 H tp 10 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215
11930 H tp 12 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215
11960 H tp 13 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215
11990 H tp 15 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215
12050 H tp 18 North America Ku 47.1-49.1		Roberts Direct T o Home Network		DVB-S	20000-3/4	5.5		J van Zandt 160303
		Taiwan Macroview TV	F S		44	608	609 C	
		ATV World		Irdeto 2	45	1296	1297 E	
		Phoenix North America Chinese Channel		Irdeto 2	46	1248	124. C	
		Phoenix InfoNews Channel		Irdeto 2	47	1264	1266 C	
		Phoenix Hong Kong	F		48	128.	1282 C	
		MTI In-Store Radio 1	F		1202		562 E	
		MTI In-Store Radio 2	F		1203		83 E	
		MTI In-Store Radio 3	F		1204		79 E	
		MTI In-Store Radio 5	F		1206		75 E	
		MTI In-Store Radio 6	F		1207		71 E	
		MTI In-Store Radio 4	F		1208		67 E	
		MTI In-Store Radio 7	F		1209		63 E	
		MTI In-Store Radio 8	F		1210		59 E	
		MTI In-Store Radio 9	F		1211		754 E	
		MTI In-Store Radio 10	F		1212		770 E	
		MTI In-Store Radio 11	F		1213		786 E	
		MTI In-Store Radio 12	F		1214		802 E	
12080 H tp 19 North America Ku 47.1-49.1		@ HughesNet		DSS	20000-2/3			R Hewitt 020103
12110 H tp 21 North America Ku 47.1-49.1		(Azteca feeds)		DVB-S	2220-?			B Leblanc 131024
12140 H tp 22 North America Ku 47.1-49.1		DirecTV USA	P	DSS Videoguard	20000-2/3			P Smith 110215

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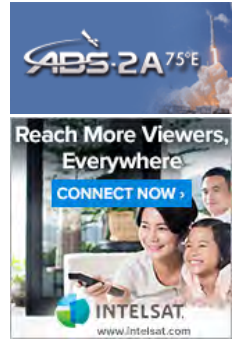
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Galaxy 19 at 97.0°W



Atlantic Main | America | America **P** | America **HD** | America | UHD | Headlines | Launches Asia
 95.0°W <C> 99.0°W HD | SatTracker | LyngSat Maps 95.0°W <Ku> 99.0°W

Azimuth & elevation in Herndon, Virginia, United States: 209.7° & 40.6°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3706 V tp 1 C 42.1-43.1	(feeds)	DVB-S	6111-3/4		Abbie 140906
3760 V tp 3 C 42.1-43.1	<u>Azteca</u>	DVB-S2	31456-3/5 8PSK	5.5 AC3	Abbie 140906
	A+	F S MPEG-2	177	180 Sp AC3	
	<u>Azteca Trece</u>	F MPEG-4/HD	1 49	51 Sp AC3	
	<u>Azteca Siete Mexico City</u>	F MPEG-4/HD	2 65	67 Sp AC3	
	<u>ADN 40</u>	F S MPEG-4/HD	3 81	83 Sp AC3	
	<u>Azteca US Pacifico</u>	F MPEG-4/HD	4 97	99 Sp	
	<u>Azteca US Este</u>	F MPEG-4/HD	6 129	131 Sp	
3780 H tp 4 C 42.1-43.1	(feeds)	DVB-S	29270-3/4		Abbie 110627
3809 H tp 6 C 42.1-43.1	<u>Imagen TV</u>	F DVB-S2 MPEG-4/HD	10890-? 33	34 Sp	Mikhel 161030
3813 V tp 5 C 42.1-43.1	<u>Azteca</u>	DVB-S2	9560-3/4 8PSK	7.9	J Belisle 170508
	<u>Azteca Siete Nuevo León</u>	F MPEG-4/HD		Sp AC3	
	<u>Azteca Siete Coahuila</u>	F MPEG-4/HD	1231	1232 Sp AC3	
	<u>Azteca Siete Tamaulipas</u>	F MPEG-4/HD	1331	1132 Sp AC3	
	A+	F S MPEG-4	1431	1432 Sp AC3	
3831 V tp 7 C 42.1-43.1	(feeds)	DVB-S	11800-5/6		Abbie 120126
3847 V tp 7 C 42.1-43.1	<u>AMG TV</u>	F S DVB-S	2200-3/4 1 - 336	7-? 5.5 337 E	Abbie 140906
3851 V tp 7 C 42.1-43.1	<u>The Walk TV</u>	T F DVB-S MPEG-4	3532-3/4 1 - 4128	7-? 5.5 4129 E	Abbie 170917
3857 V tp 7 C 42.1-43.1	<u>LATV</u>	F DVB-S	2940-? 1160	1120 E AC3	J Belisle 150424
3880 V tp 9 C 42.1-43.1	(feeds)	DVB-S2	30000-5/6 8PSK		Abbie 140906
3896 H tp 10 C 42.1-43.1	(feeds)	DVB-S	20000-3/4		Abbie 140906
3906 V tp 11 C 42.1-43.1		DVB-S	3703-3/4		F Miata 161006
	<u>BYU TV North America</u>	F	1 4352	4353 E	
	<u>LDS Church</u>	F	2 5376	5377 E	
3914 H tp 10 C 42.1-43.1	(feeds)	DVB-S2	7000-3/4 8PSK		Abbie 140906
3922 V tp 11 C 42.1-43.1	<u>LDS Church</u>	DVB-S2	2980-3/5 8PSK	5.5	BTork 161103
	<u>LDS Church</u>	F MPEG-2	101 4352	4353 E 4353 Sp	
	<u>LDS Church ASL</u>	F MPEG-2	501 5376	5377 E	
3933 V tp 11 C 42.1-43.1		DVB-S2	3333-3/4 8PSK		Zap 2 170522
	Rumble TV promo	MPEG-4/HD	1 49	51 E 52 Sp	
	American Horror Classics promo	MPEG-4/HD	2 69	71 E 72 Sp	

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América
on Galaxy 19


RTV San Marino
on Intelsat 902

VTV 4
on Intelsat 902


Kazakh TV
on Intelsat 902

Ukraine 24
on Intelsat 902

Gani e Hozour TV
on Intelsat 902

3940 H tp 12 C 42.1-43.1		Encompass		DVB-S2	30000-5/6 8PSK	7-743 9.4	F Miata 150606
		Bounce	F	MPEG-2	14	193	194 E AC3
		Grit	F	MPEG-4	15	241	242 E AC3
		Escape	F	MPEG-4	16	257	258 E AC3
		Justice Network	F	MPEG-4	17	273	274 E AC3
		Laff	F	MPEG-4	18	289	290 E AC3
		Automotive TV	F	MPEG-4	19	65	66 E AC3
		Buzzr	F	MPEG-4	20	69	70 E AC3
3960 V tp 13 C 42.1-43.1		(feeds)		DVB-S	29300-3/4		Abbie 100819
3985 V tp 15 C 42.1-43.1				DVB-S2	3600-? 8PSK		K Lange 150110
		FootSchool TV Americas	F	MPEG-4	1	257	258 Sp
		Regional Music TV	F	MPEG-4	2	514	513 Sp
		Telecentro (Dominican Republic)	F S	MPEG-4	3	103	203 Sp
4001 V tp 15 C 42.1-43.1							J Belisle 170505
4009 V tp 15 C 42.1-43.1							J Belisle 170505
4027 V tp 17 C 42.1-43.1	SCOLA	SCOLA		DVB-S2	7200-2/3 8PSK	6.6	Abbie 170917
		SCOLA Channel One	F	MPEG-4	1	257	258
		SCOLA Channel Two	F	MPEG-4	2	513	514
		SCOLA Channel Three	F	MPEG-4	3	769	770 C
		SCOLA Channel Four	F	MPEG-4	4	1025	1026
		SCOLA Channel Five	F	MPEG-4	5	1281	1282
		SCOLA Channel Six	F	MPEG-4	6	1537	1538
		SCOLA Channel Seven	F	MPEG-4	7	1793	1794
		SCOLA Channel Eight	F	MPEG-4	8	2049	2050
4034 H tp 16 C 42.1-43.1		(feeds)		DVB-S	6111-3/4		Rick 110921
4060 H tp 18 C 42.1-43.1		(CW feeds)		DVB-S	32362-3/4		Abbie 100819
4080 V tp 19 C 42.1-43.1		(CBS feeds)		DVB-S2	29856-9/10 8PSK		Abbie 110627
4100 H tp 20 C 42.1-43.1		(CBS feeds)		DVB-S2	29856-9/10 8PSK		Abbie 120126
4120 V tp 21 C 42.1-43.1		(feeds)		DVB-S2	30000-5/6 8PSK		Rick 101028
4140 H tp 22 C 42.1-43.1		(CBS feeds)		DVB-S2	29856-9/10 8PSK		Abbie 100819
4160 V tp 23 C 42.1-43.1		(CBS feeds)		DVB-S2	29856-9/10 8PSK		Abbie 140906
4167 H tp 24 C 42.1-43.1		(feeds)		DVB-S2	6922-5/6 8PSK		Abbie 140906


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
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



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

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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11836 V tp 5 Ku 42-49.5		Pittsburgh International Telecommunications		DVB-S	20770-3/4	1-1 5.5	C Stockdale 161104
		Hwazan Satellite TV	F S		1	308	256 C
		ARTN Shant	F S		2	408	356 Ar
		Payam-e-Afghan TV	F S		3	43	38 Fa
		Global Mall TV	F S		4	516	515 Vi
		Royal Time TV	F		5	131	132 E
		PBC Tapes	F		6	39	40 Fa
		Yemen TV	F		7	4896	680 A
		Persian TV 1	F S		8	60	61 Fa
		Guide US TV	F		10	66	67 E
		AABC TV	F S		11	69	70 E

		<u>Eternal Life TV Network</u>	F		12	46	47 E	
		<u>Viet Pho TV</u>			14	73	74 Vi	
		<u>IBC</u>	F		15	1090	1091 Vi	
		<u>Velayat TV Network</u>	F S		16	6432	6433 Fa	
		<u>ATN News</u> (Afghanistan)	F S		25	52	53	
		<u>Viet Dong T rung</u>	F		27	5664	5665 Vi	
		<u>Global Star 6</u>	F		13		559 E	
		<u>Global Star 3</u>	F		18		63 E	
		<u>Global Star 4</u>	F		18		63 E	
11842 H tp 6 Ku 42-49.5		<u>MX1</u>		DVB-S	22000-3/4		5.5	S Yow 160619
		<u>The Word Network</u>	F S		46		45 E	
		<u>3ABN English</u>	F S		1	2001	3001 E AC3	
		<u>Dare to Dream Network</u>	F S		2	2002	3002 E AC3	
		<u>3ABN Latino</u>	F S		3	2003	3003 Sp AC3	
		<u>Smart LifeStyle TV</u>	F S		10	2010	3010 E	
		<u>LLBN His W ord</u>	F S		11	2011	3011 E	
		<u>LLBN Arabic</u>	F S		12	2012	3012 A	
		<u>LLBN Latino</u>	F S		13	2013	3013 Sp	
		<u>Amazing Discoveries TV</u>	F S		61	2061	3061 E	
		<u>Amazing Facts TV</u>	F S		71	2071	3071 E	
		<u>3ABN Proclaim</u>	F S		75	.075	3075 E	
		<u>Hope Channel Church</u>	F S		76	2076	3076 E	
		<u>Hope Channel</u>	F S		201	2201	3201 E AC3	
		<u>Esperanza TV</u>	F S		202	2202	3202 Sp	
		<u>3ABN Radio</u>	F S		111		3111 E	
		<u>LifeTalk Radio</u>	F S		112		3112 E	
		<u>LifeTalk Translator</u>	F		113		3113 E	
		<u>Radio 74 Internationale</u>	F		122		3122 E	
		<u>3ABN Radio Latino</u>	F		133		3133 Sp	
11867 V tp 7 Ku 42-49.5		<u>STN</u>		DVB-S	22000-3/4		7-700 5.5	Esric 170703
		<u>Slika Hrvatske</u>		MPEG-4 Irdeto	7001	7011	7012 Cr	
		<u>Kurdistan TV</u>	S	Irdeto	7002	7021	7022 Ku	
		<u>Nova World</u>		MPEG-4 Irdeto	7003	7031	7032 Cr	
		<u>ABN</u> (USA)	F S		7004	7041	7042 Arc	
		<u>CTV</u> (Egypt)	F S		7005	7051	7052 A	
		<u>Tuff TV</u>	F		7006	7061	7062 E	
		<u>Logos TV</u>	F S		7008	.081	7082 A	
		<u>TVP Polonia</u>		MPEG-4 Irdeto	7009	7091	7092 Po	
		<u>Tele 5</u> (Poland)		MPEG-4 Irdeto	7010	7101	7102 Po	
		<u>Al Horreya TV</u>	F S		7011	7111	7112 A	
		<u>Alkarma TV North America 2</u>	F S		7012	7121	7122 A	
		<u>RTS 1</u> (Senegal)	F S		7013	7131	7132 F	
		<u>Al Kalema TV</u>	F S		7014	7141	7142 A	
		<u>Aljazeera English</u>	S	Irdeto	7016	7161	7162 E	
		<u>ANB</u> (USA)	F		7018	7181	7182	
		<u>RTS Satelit</u>	F S		7019	7191	7192 Se	
		<u>G Sat</u>			7020	7201	7202 A	
		<u>Glas Hrvatske</u>	F S		7051		7511 Cr	
		<u>Narodni Radio</u>	F		7052		7521 Cr	
		<u>Radio Mir Medjugorje</u>	F		7053		7531 Cr	
		<u>Polskie Radio Jedynka</u>	F S		7054		7541 Po	
		<u>Polskie Radio Trójka</u>	F S		7055		7551 Po	
		<u>Radio Beograd 1</u>	F		7056		7561 Se	
11898 V tp 9 Ku 42-49.5		<u>Globecast</u>		DVB-S	22000-3/4		1-11 5.5	AAB 160904
		<u>Qur'an Hidayah English</u>	F S		300	769	770 E	
		<u>Coran Hidaiah Français</u>	F S		301	785	786 F	
		<u>Corán Hidaiah Español</u>	F S		302	801	802 Sp	
		<u>Canal Algérie</u>	F		519	1260	1220 A	
		<u>Al Maghribia</u>	F S		723	4023	4033 A	
		<u>2M Monde</u>	F		729	272	273 A	
		<u>Ariana TV International</u>	F		732	2920	2960 Fa	
		<u>SMNI</u>	F S		737	1560	1520 Tag	
		<u>LRT Lituanica</u>	F S		738	1464	1465 Li	
		<u>Belarus 24</u>	F S		739	4051	4061 R	
		<u>Palestinian Satellite Channel</u>	F S		757	405	406 A	
		<u>NTA International</u>	F		759	656	657 E	
		<u>Chaîne 1</u>	F S		520		1533 A	
		<u>Radio Algérie Internationale</u>	F S		521		1534	

		Sonshine Radio	F		726	1523 E	
				DVB-S	22000-3/4		Abbie 141005
11904 H tp 10 Ku 42-49.5		[test card]			1001 1011	1012	
		[test card]			1002 1021	1022	
		[test card]			1003 1031	1032	
		[test card]			1004 1041	1042	
		[test card]			1005 1051	1052	
		[test card]			1006 1061	1062	
		[test card]			1007 1071	1072	
		[test card]			1008 1081	1082	
		[test card]			1009 1091	1092	
		[test card]			1010 1101	1102	
11929 V tp 11 Ku 42-49.5		Go Sat		DVB-S	22000-3/4	2-2 5.5	W Tony 141014
		MTA 3	F S		3 2003	3003 A	
		Salaam TV (USA)	F S		5 2005	3005 A	
		Rûdaw	F S		7 2007	3007 Ku	
		SBN Domestic	F S		8 2008	3008 E 4008 Sp	
		Peace TV English	F S		10 2010	3010 E	
		Peace TV Urdu	F S		11 2.11	3011 Ur	
		Imam Hussein TV 1	F		12 2012	3012 Fa	
		Peace TV Bangla	F		19 2019	3019 Ben	
		Karbala Satellite Channel	F S		20 2020	3020 A	
		Ahlulbayt TV	F S		21 2021	3021 E	
		Imam Hussein TV 2	F		22 2022	3022 A	
		Imam Hussein TV 3	F		24 2024	302. E	
		TVR International	F S		25 2025	3025 Ro	
		The Liberty Radio Network	F S		16	3016 E	
		KNLB Christian Radio	F		17	3017 E	
11936 H tp 12 Ku 42-49.5				DVB-S	20000-3/4		P Tarasiuk 161220
		ATV Avrupa	S	Irdeto 2	101 167	107 Tu	
		Show Turk	S	Irdeto 2	102 164	96 Tu	
		Euro D		Irdeto 2	103 165	100 Tu	
		Fox Türkiye	S	Irdeto 2	104 512	513 Tu	
		CNN Türk	S	Irdeto 2	105 112	113 Tu	
		DFH Sports		Irdeto 2	106 114	115 Tu	
		Habertürk	S	Irdeto 2	110 256	257 Tu	
		Halk TV	S	Irdeto 2	110 256	257 Tu	
		TV 8 (Turkey)		Irdeto 2	111 259	260 Tu	
		Jewelry TV	F S		135 2135	3135 E	
		QVC US	F S		136 2136	3136 E	
		UA TV	F S		137 2137	3137 R	
		Marjaeyat TV Galaxy	F		139 2139	3139 E	
		Radvo D	F S		107	108 Tu	
		Show Radvo	F S		108	101 Tu	
11960 V tp 13 Ku 42-49.5		STN		DVB-S	22000-3/4	102-1300 5.5	S Luzar 170623
		TV TRWAM	F S		13 787	1043 Po	
		TRT 1 +8 (Turkey)	F		1001 102	103 Tu	
		TRT Arapça	F S		1002 202	203 Tu	
		TRT Müzik	F S		1003 302	303 Tu	
		TRT Çocuk +8	F		1004 402	403 Tu	
		TRT Belgesel	F S		1004 402	403 Tu	
		Liberation TV	F S		1006 60.	603 E	
		Toheed TV	F S		1007 702	703 Fa	
		ESTV	F		1008 802	803	
		Press TV	F S		1009 902	903 E	
		Ethiopia Orthodox TV	F		1011 1102	1103 Am	
		iFilm English	F S		1014 1402	1403 E 1404 A	
		Radio Marvia	F S		14	1044 Po	
		TSR	F S		2001	2102 Tu	
		Voice of Turkey World	F S		2002	2202	
11966 H tp 14 Ku 42-49.5		MX1		DVB-S	22000-3/4	5.5	T Kameda 170827
		Vietface TV	F S		1 2001	3001 Vi	
		ABN (USA)	F S		2 2002	3002 Arc	
		NetViet	F S		3 2003	3003 Vi	
		Thai TV Global Network	F		4 35	36 Th	
		Kingdom Life Network	F		6 2006	3006 E	
		VTV 4	F S		7 3105	3106 Vi	

			TVK	F S		8	49	50 Kh	
			Daystar TV	F S		9	2009	3009 E	
			CNL Amerika	F		11	3329	3330 R	
			Global Buddhist Network	F S		13	2013	3013 Th	
			TV Oromiyaa	F		16	2016	3016	
			Angel TV America	F S		18	2018	3018 Ta	
			Divine TV USA	F S		20	2020	3020 E	
			AzTV	F S		24	2024	3024 Az	
			Duna World	F S		26	2026	3026 Hu	
			94 EFM	F		5		5154 Th	
			Persian Radio	F S		14		5159 Fa	
			CityLife Radio	F		17		3017 E	
			Agape FM	F S		19		3019 E	
			The Overcomer	F S		21		3021 E	
			1 Respublika	F S		25		3025 Az	
			Duna World Rádió	F S		27		3027 Hu	
12028 H tp 18 Ku 42-49.5			STN		DVB-S	21991-3/4		3001-301 5.5	S Luzar 170316
			KTV 1	F S		7000	7002	7003 A	
			KTV Arabe	F S		7010	7012	7013 A	
			KTV 2 (Kuwait)	F S		7020	7022	7024 E	
			Ariana Afghanistan TV	F S		7801	7841	7861 Fa	
			RTI 1	F S		7807	7847	7867 F	
			Kentron TV International	F		7808	7848	7868 Ar	
			ATV Avrupa	S	Irdeto 2 Verimatrix	7809	7849	7869 Tu	
			Show Turk	S	Irdeto 2 Verimatrix	7810	7850	7870 Tu	
			Euro D		Irdeto 2 Verimatrix	7811	7851	787. Tu	
			Fox Türkiye	S	Irdeto 2 Verimatrix	7812	7852	7872 Tu	
			CNN Türk	S	Irdeto 2 Verimatrix	7813	7853	7873 Tu	
			Habertürk	S	Irdeto 2 Verimatrix	7814	7854	7874 Tu	
			Halk TV	S	Irdeto 2 Verimatrix	7814	7854	7874 Tu	
			DFH Sports		Irdeto 2 Verimatrix	7815	7855	7875 Tu	
			Radio Kuwait Main Program	F S		7005		7007 A	
			Radio Kuwait Program 2	F S		7015		7017 A	
			Radio Kuwait Quran	F S		7025		7027 A	
			Radio Maaref	F		7901		7961 Fa	
12053 V tp 19 Ku 42-49.5			Globecast		DVB-S	22000-3/4		5.5	C Kambanis 160509
			CNC World English	F		168	4341	4342 E	
			TBN US	F S		318	33	34 E AC3	
			Hillsong Channel	F S		319	47	48 E AC3	
			Enlace	F S		320	56	57 E AC3	
			Smile TV	F S		321	4130	4131 E AC3	
			Juce TV	F S		322	113	114 E AC3	
			Tele Congo	F S		524	180	181 F	
			GCN America	F S		525	195	196 E	
			USArmenia	F S		527	592	593 Ar	
			Simay-Azadi Iran National TV	F S		731	656	657 Fa	
			Imam Hussein TV 1	F		760	1841	1851 Fa	
			Imam Hussein TV 2	F		761	184.	1852 E	
			Imam Hussein TV 3	F		762	1843	1853 A	
			Radio Congo	F		525		182 F	
12060 H tp 20 Ku 42-49.5			MX1		DVB-S	22000-3/4		3-3 5.5	S Scheidt 170908
			Emmanuel TV	F S		2	2002	3002 E	
			Celebration TV	F		3	2003	3003 E	
			Rangarang TV Network	F S		4	2004	3004 Fa	
			[3ABN Proclaim test card]			5	2005	3005 E	
			Apostolic Oneness Network	F S		6	2006	3006 E	
			ORTM	F		8	2008	3008 F	
			Saigon TV	F S		9	2009	3009 Vi	
			Al Hayat 2	F S		10	2010	3010 A	
			Little Saigon TV	F S		11	2011	3011 Vi	
			GEM USA	F		15	2015	3015 Fa	
			Appadana International	F		17	2017	3017 Fa	
			Vozrozhdeniye	F S		18	2018	3018 R	
			CTN (USA)	F		19	2019	3019 E	
			CJTL Radio	F S		14		.014 E	
			Radio Libertad	F		26		3026	
			Sputnik International	F		27		3027	
			The Micro Effect	F S		30		3030 E	

12084 V tp 21 Ku 42-49.5		<u>Globecast</u>		DVB-S	22000-3/4		5.5	C Kambanis B Pisarek 160815
		<u>Pars TV</u>	F S		1	1430	1431 Fa	
		<u>Andisheh TV</u>	F S		2	7167	7168 Fa	
		<u>Ganj e Hozour TV</u>	F S		3	6911	6912 Fa	
		<u>Iran TV Network</u>	F S		4	7935	7936 Fa	
		<u>Merci TV Network</u>	F S		5	6143	6144 Fa	
		<u>Tin TV</u>	F S		6	101	102 Fa	
		<u>Omid-e-Iran</u>	F		7	64	65 Fa	
		<u>Al Kass T wo</u>	F	MPEG-4/HD	816	1430	1431 A	
12115 V tp 23 Ku 42-49.5		<u>Pittsburgh International Telecommunications</u>		DVB-S	22425-3/4		57-57 5.5	P Tarasiuk 161218
		<u>Iman TV</u>	F S		1020	512	513 A	
		<u>Bethel TV (Peru)</u>	F S		1030	768	769 Sp	
		<u>Didar Global TV</u>	F		1040	1024	1025 Fa	
		<u>MEA TV</u>	F S		1050	1280	1281 A	
		<u>Channel Yek</u>	F S		1051	1282	1283 Fa	
		<u>AssyriaSat</u>	F		1060	1536	1537 Syr	
		<u>Zoe TV</u>	F		1071	1793	1794 E	
		<u>Hispan TV</u>	F S		1080	.048	2049 Sp	
		<u>Bible Explorations TV</u>	F S		1090	2304	2305 E	
		<u>EBC 2</u>	F S		2000	4098	4099 Am	
		<u>Iran e Aryaee TV</u>	F S		2010	2562	2563 Fa	
		<u>Ariana TV International</u>	F		2030	2576	2577 Fa	
		<u>The University Network</u>	F		2040	2579	2580 E	
		<u>IBN TV (USA)</u>	F S		2050	4131	4129 E	
		<u>EEENetwork</u>	F S	MPEG-4	2060	689	691 Sp	
		<u>EBS (USA)</u>	F		2080	2600	2601 E	
		<u>Fiebre Radio</u>	F S		1081		40 Sp	
		<u>American Voice Radio Network 1</u>	F		2061		2595 E	
		<u>American Voice Radio Network 2</u>	F		2061		2595 E	
12122 H tp 24 Ku 42-49.5		<u>San Francisco International Gateway</u>		DVB-S	20000-3/4		5.5	Abbie 141008
		<u>TFC Middle East</u>			1	287	288 Tag	
		<u>TFC Europe</u>			2	303	304 Tag	
		<u>ANC</u>			3	319	320 E	
		<u>Cinema One Global</u>			4	335	336 Tag	
		<u>Bro</u>			5	351	352 Tag	
		<u>DZMM TeleRadyo</u>			6	415	416 Tag	
		<u>Cinema One Global</u>			7	879	880 Tag	
		<u>ANC</u>			8	895	.96 E	
		<u>TFC USA East</u>			9	9.1	912 Tag	
		<u>TFC USA West</u>			10	927	928 Tag AC3	
		<u>DZMM</u>			17		384 Tag	
12146 V tp 25 Ku 42-49.5		<u>Globecast</u>		DVB-S	22000-3/4		5.5	F-E Cristea 150407
		<u>Yemen TV</u>	F		802	2022	2032 A	
		<u>Sudan TV</u>	F		803	2023	2033 A	
		<u>Saudi TV</u>	F S		804	2024	20.4 A	
		<u>Al-Iraqiya News</u>	F S		805	2025	2035 A	
		<u>Abu Dhabi TV Europe</u>	F		806	2026	2036 A	
		<u>Shariah TV</u>	F S		807	2027	2037 A	
		<u>Oman TV</u>	F S		808	2028	2038 A	
		<u>Qatar TV</u>	F S		810	2071	2081 A	
		<u>Libya Al W atanya</u>	F		811	2072	2082 A	
		<u>Jordan TV</u>	F		812	2073	2083 A	
		<u>SSBC TV</u>	F		814	2029	2039 A	
		<u>Jeddah Radio</u>	F		604		2127 A	
		<u>Emarat FM</u>	F S		821		2101 A	
		<u>Radio Sout Al-Sha'ab (Voice of the People)</u>	F S		822		2102 A	
		<u>El-Bernameg Al-Aam (Main General Program)</u>	F		823		2103 A	
		<u>Rivadh Radio</u>	F		824		2104 A	
		<u>Quran Radio (Saudi Arabia)</u>	F S		825		2105 A	
		<u>Umdurman Radio</u>	F		826		2106 A	
		<u>Qatar Radio</u>	F		828		2108 A	
		<u>Holy Quran Radio (Sudan)</u>	F		829		2109 A	
		<u>Radio Oman</u>	F		830		2110 A	
		<u>Radio Sana'a</u>	F S		831		2201 A	
		<u>Aden Radio</u>	F		832		2202 A	
		<u>Radio Sout Al-Shbab (Voice of the Youth)</u>	F S		833		2113 A	
		<u>Shariah Radio</u>	F		834		2111 A	
		<u>Republic of Iraq Radio</u>	F S		835		2112 A	

		Holy Quran Radio (Oman)	F		836		2114 A	
12152 H tp 26 Ku 42-49.5		Globecast		DVB-S	20000-3/4	1-5 5.5		C Paredes 170920
		Al-Fady TV	F S		305		306 A	
		Quran TV (Saudi Arabia)	F S		8	1024	1034 A	
		Sunna TV (Saudi Arabia)	F S		9	1025	1035 A	
		RT America	F S		462	110	120 E	
		Saudi 2	F		602	4527	4537 A	
		TVK (Cambodia)	F S		607	300	301 Kh	
		RTP Internacional América	F		608	800	801 P	new
		Kazakh TV	F S		734	1027	1037 Kz	
		Al-Iraqiya 2	F		809	1056	1057 A	
		Impact TV Network (USA)	F S		1010	512	513 R	
		Aljazeera English	S	Nagravision Viaccess	4010	4030	4040 E AC3	
		RDP Internacional	F S				901 P	
		Payam-e-Doost	F		17		54 Fa	
		Fútbol de Primera	F		603		1422 Sp	
		Jeddah Radio	F		604		4523 A	
		Saudia Radio	F S		605		3140	
		Radio Beograd 1	F		609		152 Se	
12177 V tp 27 Ku 42-49.5		Pittsburgh International Telecommunications		DVB-S	23000-3/4	0-1 5.5		C Stockdale 161108
		Sabaidee TV 141	F S		1	1023	1021 Th	
		ISTV	F		2	43	44 Th	
		NetViet	F S		3	2081	2082 Vi	
		HPTV Persian	F		6	4083	259 Fa	
		OCN (USA)	F		8	47	48 E	
		God's Learning Channel	F S		9	59	60 E	
		Ahl-E-Bait TV Farsi	F		10	4.84	260 Fa	
		Good Idea TV	F S		12	56	57 Th	
		Pan Armenian	F S		17	4130	4131 Ar	
		Somali National TV	F S		20	262	263 So	
		Alkarma TV North America 1	F S		22	37	38 A	
		Karbala Satellite Channel	F S		26	113	114 A	
		Al Mayadeen TV	F S		56	33	34 A	
		WRN English North America	F		13		49 E	
		Radio Nación	F		18		62 Sp	
12184 H tp 28 Ku 42-49.5								W Tony 170618
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Galaxy 16 at 99.0°W



Atlantic Main | America | America **P** | America **HD** | America | UHD | [Headlines](#) | [Launches](#) Asia
 97.0°W <C> 101.0°W HD | [SatTracker](#) | [LyngSat Maps](#) 97.0°W <Ku> 100.8°W

[Galaxy 16 & Spaceway 2 & DirecTV 1 1](#) | [Galaxy 16](#) | [Spaceway 2 & DirecTV 1 1](#)

Azimuth & elevation in Herndon, Virginia, United States: 212.4° & 39.7°
 The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3735 H tp 3 C 41.6					Abbie 170829
3740 V tp 2 C 41.6	(Global Digital Media Xchange feeds)	DVB-S2	30000-5/6		K Froning 090618
3793 V tp 4 C 41.6	(feeds)	DVB-S2	7030-1/2		Abbie 100910
3806 H tp 5 C 41.6	<u>Cornerstone TV</u>	F S DVB-S2 MPEG-4	2300-3/4 QPSK 308	4.0 256 E	R Sprinke 151109
3811 H tp 5 C 41.6		DVB-S	8030-3/4		F Miata 150418
	<u>WSJX-LP/WVXF-DT 2</u> (Fox)	F MPEG-4/HD	1 257	258 E	
	<u>WVGN-LP</u> (NBC - Charlotte Amalie)	F MPEG-4/HD	2 513	514 E	
	<u>WPRU-LP</u> (Aquadilla)	F MPEG-4	3 769	770 E	
	<u>WSJP-LP</u> (CW - Aquadilla)	F MPEG-4	4 1025	1026 E	
3811 V tp 6 C 41.6	(Global Digital Media Xchange feeds)	DVB-S	15000-7/8		F Miata 160322
3845 H tp 7 C 41.6		DVB-S2	8703-3/4 8PSK		Abbie F Miata 170829
	<u>KRBK-TV</u> (Fox - Osage Beach)	F MPEG-2/HD	3 49	52 E AC3	
	<u>MeTV Ozarks</u>	F MPEG-2	4 65	58 E AC3	
	<u>Movies!</u>	F MPEG-2	5 81	84 E AC3	
	<u>ION TV East</u>	F MPEG-2	6 97	100 E AC3	
3852 H tp 7 C 41.6	<u>WAPA America</u>	DVB-S	3775-3/4 2 - 33	7-7 5.5 36 Sp	Abbie 170829
3900 V tp 10 C 41.6	<u>American Forces Network</u>	DVB-S	28000-3/4	5.5	D de Jong 170123
	<u>AFN Sports</u>	PowerVu	1 1160	1120 E	
	<u>AFN Prime Atlantic</u>	PowerVu	2 1260	1220 E	
	<u>AFN Spectrum</u>	PowerVu	3 1360	1320 E	
	<u>AFN Prime Pacific</u>	PowerVu	4 1460	1420 E	
	<u>AFN News</u>	PowerVu	5 1560	1520 E	
	<u>AFN Sports 2</u>	PowerVu	6 1660	1620 E	
	<u>AFN Guide</u>	PowerVu	7 1760	1720 E	
	[test card]		8 1860	1820	
	<u>AFN Family</u>	PowerVu	9 1960	1920 E	
	<u>AFN Movie</u>	PowerVu	10 1060	1020 E	
	<u>AFN Sports</u>	MPEG-4/HD PowerVu	11 1410	1400 E	
	<u>AFN PowerTalk</u>	PowerVu	20	1730 E	
	<u>AFN Freedom Radio</u>	PowerVu	21	1522 E	
	<u>Today's Best Country</u>	PowerVu	22	1530 E	
	<u>AFN's Joe Radio</u>	PowerVu	23	1532 E	
	<u>NPR Worldwide AFRTS</u>	PowerVu	24	1232 E	
	<u>AFN Voice Channel</u>	PowerVu	25	1332 E	
	<u>AFN Seasonal</u>	PowerVu	26	1720 E	
	<u>Gravity</u>	PowerVu	27	1322 E	
	<u>AFN Legacy</u>	PowerVu	28	1422 E	
	<u>Hot AC</u>	PowerVu	29	1722 E	
	<u>AFN Clutch</u>	PowerVu	31	1122 E	



News at LyngSat:

- WHME-TV
on Galaxy 16
- Ganji e Hozour TV
on Intelsat 902
- Face 1 Persia
on Eutelsat 7B
- VTV 4
on Intelsat 902
- Kazakh TV
on Intelsat 902
- ENTV
on Intelsat 902


News at LyngSat Stream:

- Prajaa TV
Kannada
- Rakshana TV
- TV Kłodzka
- TV Master
- Málaga 24h
- TV Zabrze

		<u>AFN Fans</u>		PowerVu	32		1130 E	
		<u>AFN The Eagle Europe</u>		PowerVu	33		1732 E	
		<u>AFN The Eagle Bavaria</u>		PowerVu	112		1830 E	
		<u>AFN The Eagle Aviano</u>		PowerVu	122		1922 E	
		<u>AFN The Eagle Wiesbaden</u>		PowerVu	132		1930 E	
		<u>AFN The Eagle Vicenza</u>		PowerVu	142		1032 E	
		<u>AFN The Eagle Stuttgart</u>		PowerVu	152		1932 E	
		<u>AFN The Eagle Rota</u>		PowerVu	162		1430 E	
		<u>AFN The Eagle Souda Bay</u>		PowerVu	164		1222 E	
		<u>AFN The Eagle Naples</u>		PowerVu	182		1432 E	
		<u>AFN The Eagle Kaiserslautern</u>		PowerVu	192		1.32 E	
		<u>AFN The Eagle Benelux</u>		PowerVu	212		1230 E	
		<u>AFN The Eagle Incirlik</u>		PowerVu	222		1622 E	
		<u>AFN The Eagle Spangdahlem</u>		PowerVu	232		1022 E	
3904 H tp 11 C 41.6		(Televisa feeds)		DVB-S	3125-7/8			Abbie 120128
3912 H tp 11 C 41.6		<u>Televisa</u>		DVB-S2	10833-8/9 8PSK	10.7		Abbie 140808
		<u>Las Estrellas México</u> (Mexico City)		MPEG-4 Videoguard	1	201	411 Sp	
		<u>Canal 5</u> (Mexico City)		MPEG-4 Videoguard	2	202	421 Sp	
		<u>Gala TV</u> (Mexico)		MPEG-4 Videoguard	3	203	431 Sp	
3924 H tp 11 C 41.6		(Televisa feeds)		DVB-S	3125-7/8			Abbie 140811
3925 V tp 12 C 41.6		<u>American Forces Network Atlantic</u>		DVB-S	3979-2/3	4.4		Abbie 140808
		<u>AFN Prime Atlantic</u>		PowerVu	301	2160	2120 E	
		<u>AFN News</u>		PowerVu	302	2260	2220 E	
		<u>AFN Sports</u>		PowerVu	303	2360	2320 E	
3928 H tp 11 C 41.6		(Televisa feeds)		DVB-S	3125-7/8			Voyager 101005
3930 V tp 12 C 41.6		<u>American Forces Network Pacific</u>		DVB-S	3680-2/3	4.4		Abbie 140808
		<u>AFN Prime Pacific</u>		PowerVu	201	1160	1120 E	
		<u>AFN News</u>		PowerVu	202	1260	1220 E	
		<u>AFN Sports</u>		PowerVu	203	1360	1320 E	
3931 H tp 11 C 41.6		<u>TV 3 Puebla</u>	F S	DVB-S MPEG-4	1562-5/6 101	6.5	102 Sp	Abbie 140808
3938 H tp 11 C 41.6		<u>Bajío TV</u>	F	DVB-S	1561-7/8 1 - 308	7-7 7.2	256 Sp	Abbie 140808
3940 V tp 12 C 41.6		(feeds)		DVB-S2	27600-5/6			Abbie 100910
3953 H tp 13 C 41.6		(feeds)		DVB-S	3125-7/8			Abbie 140811
3977 H tp 13 C 41.6		(feeds)		DVB-S	2555-?			C Melendez 110627
3980 V tp 14 C 41.6		(feeds)		DVB-S	26470-5/6			Abbie 100910
4000 H tp 15 C 41.6		<u>LESEA</u>		DVB-S	26400-3/4	65535-? 5.5		Abbie 170926
		<u>FETV</u>	F S	MPEG-2	1	100	101 E	
		<u>WHME-TV</u> (South Bend)	F	MPEG-2	2	200	201 E	new
		<u>World Harvest TV</u>	F S	MPEG-2	3	300	301 E	
		<u>KWHB-TV</u> (Tulsa)	F	MPEG-4/HD	19	400	401 E	
		<u>KWHS-LP</u> (Colorado Springs)	F	MPEG-4	20	500	501 E	
		<u>KWHE-TV</u>	F	MPEG-4	21	600	601 E	
		[Cozi TV test card]		MPEG-4	22	700	701 E	
		<u>WHNO-TV</u> (New Orleans)	F	MPEG-4/HD	23	800	801 E	
		<u>Light TV</u>		MPEG-4 BISS	24	900	901 E	
		<u>Angel 1</u>	F S		4		102 E	
		<u>Angel 2</u>	F S		4		102 E	
		<u>Angel 3</u>	F S		5		103 E	
		<u>Angel 4</u>	F S		5		103 E	
		<u>Angel 4</u>	F S		6		104 E	
		<u>Angel 5</u>	F S		6		104 E	

		Angel 6	F S		7	105 E	
		T8WH	F		7	105 E	
		T8WH	F		8	106 E	
		Pulse FM	F S		9	107 E	
		Angel 5	F S		10	108 E	
		Angel 6	F S		10	108 E	
4006 V tp 16 C 41.6		Shepherd's Chapel	F S	DVB-S2 MPEG-4/HD	5833-3/4 QPSK 1 - 100	?-? 4.0 110 E AC3	Jonqpublik 150402
4060 V tp 18 C 41.6		(Fox feeds)		DVB-S	27780-5/6		F Miata 110812
4080 H tp 19 C 41.6		(feeds)		DVB-S	27780-5/6		F Miata 110812
4120 H tp 21 C 41.6		(ABC feeds)		DVB-S2	30000-9/10 8PSK		Abbie 100910
4140 V tp 22 C 41.6		(ABC feeds)		DVB-S2	30000-9/10 8PSK		F Miata 160925
4145 H tp 23 C 41.6		(feeds)		DVB-S	3308-3/4		Abbie 140808
4178 V tp 24 C 41.6		Las Estrellas México		DVB-S2 MPEG-4/HD BISS	4166-5/6 8PSK 1 - 101	?-? 9.4 102 Sp AC3	Abbie 170906
4193 V tp 24 C 41.6		(feeds)		DVB-S	6620-2/3		CWC 100812


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 AdChoices





Free Satellite TV

Hotbird TV Channels

En Directo

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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated	
11765 V tp 4 Ku 50.4		(CBS Newspath feeds)		DVB-S	4000-3/4		J Adkins 2 150616	
11782 V tp 4 Ku 50.4		(CBS feeds) (D)		DVB-S	3979-3/4		Rick 080715	
11787 V tp 4 Ku 50.4		(CBS feeds) (E)		DVB-S	3979-3/4		Rick 080715	
11792 V tp 4 Ku 50.4		(CBS feeds) (F)		DVB-S	3979-3/4		Rick 080715	
11800 H tp 5 Ku 50.4		<u>Russian Media Group</u>		DVB-S2	30000-3/4 QPSK	1234-? 4.0	W Hepburn 150426	
		<u>Rossiia 24</u>	S	MPEG-4 Irdeto	101	5664	5665 R AAC	
		<u>RTN+</u>		MPEG-4 Irdeto	102	5920	5921 R AAC	
		<u>Perviy kanal America</u>		MPEG-4 Irdeto	103	4131	4129 R AAC	
		<u>RTR Planeta USA</u>		MPEG-4 Irdeto	104	5152	5153 R AAC	
		<u>Rossiia 24</u>	S	MPEG-4 Irdeto	105	4896	4897 R AAC	
		<u>9 Kanal</u>		MPEG-4 Irdeto	106	5408	5409 R AAC	
		<u>Russkiy Mir</u>		MPEG-4 Irdeto	107	4128	4130 R AAC	
		<u>Belarus 24</u>	S	MPEG-4 Irdeto	108	4384	4385 R AAC	
		<u>Inter +</u>		MPEG-4 Irdeto	109	5922	5923 Uk AAC	
		<u>STS International</u>		MPEG-4 Irdeto	110	5924	5925 R AAC	
		<u>TV 1000 Russkoe Kino</u>		MPEG-4 Irdeto	111	5928	5929 R AAC	
		<u>JBS</u> (USA)	F S	MPEG-4/HD	179	1791	1792 E	
		<u>KAN Reka</u>	F S		121		4626 R	
		<u>Radio Mayak</u>	F S		122		4098 R	
		<u>Radio Svoboda</u>	F S		123		4658 R	
		<u>Radio Kultura</u>	F S		124		4674 R	
11804 V tp 6 Ku 50.4		(CBS feeds) (A)		DVB-S	3979-3/4		Rick 080715	
11809 V tp 6 Ku 50.4		(CBS feeds) (B)		DVB-S	3979-3/4		Rick 080715	

11815 V tp 6 Ku 50.4		(CBS feeds) (C)		DVB-S	3979-3/4		Rick 080715
11820 V tp 6 Ku 50.4		(CBS feeds) (D)		DVB-S	3979-3/4		Rick 080715
11825 V tp 6 Ku 50.4		(CBS feeds) (E)		DVB-S	3979-3/4		Rick 080715
11825 H tp 7 Ku 50.4		(Fox feeds) (1)		DVB-S	3979-3/4		A Cooper 080630
11830 V tp 6 Ku 50.4		(CBS feeds) (F)		DVB-S	3979-3/4		Rick 080715
11830 H tp 7 Ku 50.4		(Fox feeds) (2)		DVB-S	3979-3/4		A Cooper 080630
11836 V tp 6 Ku 50.4		(CBS feeds) (G)		DVB-S	3979-3/4		Rick 080715
11836 H tp 7 Ku 50.4		(Fox feeds) (3)		DVB-S	3979-3/4		A Cooper 080630
11842 H tp 7 Ku 50.4		(Fox feeds) (4)		DVB-S	3979-3/4		A Cooper 080630
11848 H tp 7 Ku 50.4		(Fox feeds) (5)		DVB-S	3979-3/4		A Cooper 080630
11854 H tp 7 Ku 50.4		(Fox feeds) (6)		DVB-S	3979-3/4		A Cooper 080630
11865 H tp 9 Ku 50.4		(Fox feeds) (1)		DVB-S	3979-3/4		A Cooper 080630
11871 H tp 9 Ku 50.4		(Fox feeds) (2)		DVB-S	3979-3/4		A Cooper 080630
11876 H tp 9 Ku 50.4		(Fox feeds) (3)		DVB-S	3979-3/4		A Cooper 080630
11882 H tp 9 Ku 50.4		(Fox feeds) (4)		DVB-S	3979-3/4		A Cooper 080630
11884 V tp 10 Ku 50.4		(CBS feeds) (A)		DVB-S	3979-3/4		Rick 080715
11888 H tp 9 Ku 50.4		(Fox feeds) (5)		DVB-S	3979-3/4		A Cooper 080630
11889 V tp 10 Ku 50.4		(CBS feeds) (B)		DVB-S	3979-3/4		Rick 080715
11894 H tp 9 Ku 50.4		(Fox feeds) (6)		DVB-S	3979-3/4		A Cooper 080630
11895 V tp 10 Ku 50.4		(CBS feeds) (C)		DVB-S	3979-3/4		Rick 080715
11900 V tp 10 Ku 50.4		(CBS feeds) (D)		DVB-S	3979-3/4		Rick 080715
11905 V tp 10 Ku 50.4		(CBS feeds) (E)		DVB-S	3979-3/4		Rick 080715
11905 H tp 11 Ku 50.4		(Fox feeds) (1)		DVB-S	3979-3/4		A Cooper 080630
11910 V tp 10 Ku 50.4		(CBS feeds) (F)		DVB-S	3979-3/4		Rick 080715
11911 H tp 11 Ku 50.4		(Fox feeds) (2)		DVB-S	3979-3/4		A Cooper 080630
11916 V tp 10 Ku 50.4		(CBS feeds) (G)		DVB-S	3979-3/4		Rick 080715
					3979-3/4		A Cooper

11917 H tp 11 Ku 50.4		(Fox feeds) (3)		DVB-S			080630
11960 H tp 13 Ku 50.4		@ HughesNet		DVB-S	30000-7/8	7.2	Marcel 2 090510
11980 V tp 14 Ku 50.4		@ HughesNet		DVB-S	30000-5/6	6.5	Marcel 2 090510
12020 V tp 16 Ku 50.4		@ Galaxy Broadband		DVB-S2	20000-9/10 8PSK	11.0	A MacKenzie 110110
12093 H tp 19 Ku 50.4		(feeds)		DVB-S	6620-3/4		R Caylor 030704
12100 V tp 20 Ku 50.4		@ HughesNet		DVB-S	30000-5/6	6.5	Marcel 2 051114
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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SES 1 at 101.0°W

Atlantic Main | America | America **P** | America **HD** | America **FS** | UHD | Headlines | Launches Asia
 99.0°W <C> 103.0°W HD | SatTracker | LyngSat Maps 99.0°W <Ku> 103.0°W
 SES 1 & DirecTV 4S/8 | DirecTV 8 | SES 1 | DirecTV 4S


Azimuth & elevation in Herndon, Virginia, United States: 215.0° & 38.7°


The EIRP values are for Richmond, Virginia, United States


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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3710 V tp 1 North America C 41					Abbie 170718
3716 V tp 1 North America C 41	 GEB America	FS	DVB-S2 MPEG-4/HD	4775-3/5 8PSK 1 - 308	7-7 5.5 256 E Abbie 140813
3725 V tp 1 North America C 41	 Me TV		DVB-S	10000-5/6	6.5 Hawley Sports and Events 170620
	Me TV	F	MPEG-4/HD	1 3.6	358 E AC3
	Me TV Alternate	F	MPEG-4/HD	2 456	458 E AC3
3754 V tp 3 North America C 41	 SuperTalk Mississippi		DVB-S	726-5/6	6.5 Abbie 161114
	SuperTalk Mississippi 103.1 MS Gulf Coast	F		1	101 E AAC
	SuperTalk Mississippi 93.7 North MS	F		1	104 E AAC
	SuperTalk Mississippi 100.9 Golden Triangle	F		1	105 E AAC
3820 H tp 6 North America C 41	 Globecast		DVB-S2	29724-5/6 8PSK	9.4 Abbie 170718
	Gol TV		MPEG-4/HD PowerVu	22 260	201 E
	Real Extreme		MPEG-2 PowerVu	23 2300	2301 E
	Mnet America	F	MPEG-2	25 272	273 E
3840 V tp 7 North America C 41	 Viacom Media Networks HD Plex 4		DVB-S2	30000-5/6 8PSK	9.4 Abbie 170720
	Epix East		MPEG-4/HD PowerVu+	301 110	100 E AC3
	Epix West		MPEG-4/HD PowerVu+	302 210	200 E AC3
	Epix 2		MPEG-4/HD PowerVu+	303 310	300 E AC3
	Epix Hits		MPEG-4/HD PowerVu+	304 410	400 E AC3
	Epix Drive-In		MPEG-4/HD PowerVu+	305 510	500 E AC3
	Epix East		MPEG-4 PowerVu+	351 710	700 E AC3
	Epix West		MPEG-4 PowerVu+	352 810	800 E AC3
	Epix Drive-In		MPEG-4 PowerVu+	353 910	900 E AC3
	Epix 2		MPEG-4 PowerVu+	354 1010	1000 E AC3
3860 H tp 8 North America C 41	 NBC Universal		DVB-S2	30000-5/6 8PSK	817-? 9.4 Kyl 416 160725
	E! East		MPEG-4/HD PowerVu	501 1160	1100 E
	Esquire East		MPEG-4/HD PowerVu	502 1260	1.00 E
	E! West		MPEG-4/HD PowerVu	503 1360	1300 E
	Esquire W est		MPEG-4/HD PowerVu	504 1180	1181 E
	TV One (USA)		MPEG-4/HD PowerVu	505 1560	1500 E
	Sprout		MPEG-4/HD PowerVu	506 1660	1600 E
	Chiller		MPEG-4/HD PowerVu	507 1760	1700 E
	NBC Olympics Soccer		MPEG-4/HD PowerVu	508 1.60	1800 E
	NBC Olympics Basketball		MPEG-4/HD PowerVu	509 1960	1900 E
3880 V tp 9 North America C 41	 NBC Universal		DVB-S2	30000-3/4 8PSK	8404-? 7.9 Abbie 170718
	USA Network East		MPEG-4/HD PowerVu	40 400	401 E

News at LyngSat:

 Gani e Hozour TV
on Intelsat 902

 Bethel TV
on Intelsat 902

 CCTV 4 Europe
on Intelsat 902

 Kazakh TV
on Intelsat 902

 CGTN
on Intelsat 902

 VTV 4
on Intelsat 902

News at LyngSat Stream:


 Prajaa TV
Kannada












 Málaga 24h

 TV Zabrze

 TV Kłodzka

 TV Master

 Rakshana TV

		<u>Syfy East</u>		MPEG-4/HD PowerVu	41	410	411 E	
		<u>Bravo East</u>		MPEG-4/HD PowerVu	42	420	421 E	
		<u>Oxygen East</u>		MPEG-4/HD PowerVu	43	430	431 E	
		<u>Oxygen W est</u>		MPEG-4/HD PowerVu	44	440	441 E	
		<u>Olympic Channel USA</u>		MPEG-4/HD PowerVu	45	450	451 E	
		<u>NBC Universo Este</u>		MPEG-4/HD PowerVu	46	460	461 Sp	
		<u>NBC Universo Oeste</u>		MPEG-4/HD PowerVu	47	470	471 Sp	
		<u>USA Network East</u>		MPEG-2 PowerVu	49	490	491 E	
3920 V tp 11 North America C 41		<u>Viacom Media Networks HD Plex 4</u>		DVB-S2	30000-5/6 8PSK		15-? 9.4 AC3	Kyl 416 151003
		<u>TV Land East</u>		MPEG-4/HD PowerVu+	401	110	100 E AC3	
		<u>TV Land West</u>		MPEG-4/HD PowerVu+	402	210	200 E AC3	
		<u>MTV 2 East</u>		MPEG-4/HD PowerVu+	403	310	300 E AC3	
		<u>MTV 2 West</u>		MPEG-4/HD PowerVu+	404	410	400 E AC3	
		<u>Nick Jr East</u>		MPEG-4/HD PowerVu+	405	510	500 E AC3	
		<u>Nicktoons East</u>		MPEG-4/HD PowerVu+	406	610	600 E AC3	
		<u>Nicktoons W est</u>		MPEG-4/HD PowerVu+	407	710	700 E AC3	
		<u>Nick Jr W est</u>		MPEG-4/HD PowerVu+	408	810	800 E AC3	
		<u>Centric East</u>		MPEG-4/HD PowerVu+	409	910	900 E AC3	
		<u>Centric W est</u>		MPEG-4/HD PowerVu+	410	1010	1000 E AC3	
		<u>TeenNick East</u>		MPEG-4/HD PowerVu+	411	1110	1100 E AC3	
		<u>TeenNick W est</u>		MPEG-4/HD PowerVu+	412	1210	1200 E AC3	
3940 H tp 12 North America C 41		<u>Viacom Media Networks PSM 3</u>		Digicipher 2	29270-3/4		723-?	Kyl 416 151020
		<u>Logo W est</u>			1	160	E	
		<u>MTV 2 West</u>			2	260	E	
		<u>MTV Classic W est</u>			3	360	E	
		<u>TeenNick W est</u>			4	460	E	
		<u>Nicktoons W est</u>			5	560	E	
		<u>Spike TV Canada</u>			6	170	E	
		<u>MTV U East</u>			7	270	E	
		<u>Aapka Colors</u>			8	37.	Hi	
		<u>Nick Jr W est</u>			11	660	E	
		<u>MTV Tr3s West</u>			14	770	E	
3953 V tp 13 North America C 41		<u>Heroes & Icons</u>		DVB-S MPEG-4	2734-5/6 1 - 256		?-? 6.5 258 E	Abbie 161106
3957 V tp 13 North America C 41		<u>Decades</u>		DVB-S MPEG-4	2734-5/6 1 - 556		?-? 6.5 558 E	R Sheets 150306
3961 V tp 13 North America C 41		<u>Movies!</u>		DVB-S MPEG-4	2734-5/6 1 - 656		?-? 6.5 658 E	Abbie 161106
3980 H tp 14 North America C 41		<u>Scripps Networks</u>		DVB-S2	30000-5/6 8PSK		815-? 9.4	Mike H 160526
		<u>HGTV East</u>		MPEG-4/HD PowerVu	31	110	111 E AC3	
		<u>Food Network East</u>		MPEG-4/HD PowerVu	32	210	211 E AC3	
		<u>DIY Network USA</u>		MPEG-4/HD PowerVu	33	310	311 E AC3	
		<u>Cooking Channel</u>		MPEG-4/HD PowerVu	34	410	411 E AC3	
		<u>Travel Channel East</u>		MPEG-4/HD PowerVu	35	510	511 E AC3	
		<u>HGTV West</u>		MPEG-4/HD PowerVu	36	610	611 E AC3	
		<u>Food Network W est</u>		MPEG-4/HD PowerVu	37	710	711 E AC3	
		<u>Travel Channel W est</u>		MPEG-4/HD PowerVu	38	810	811 E AC3	
		<u>Great American Country</u>		MPEG-4/HD PowerVu	39	910	911 E AC3	
4020 H tp 16 North America C 41		<u>Gulfcom</u>		DVB-S2	28000-3/4 8PSK		1-1 7.9	Abbie 161203
		<u>CBC Toronto</u>		MPEG-4/HD PowerVu	100	900	910 E AC3	
		<u>WWOR-TV (My - Secaucus)</u>		MPEG-4/HD PowerVu	101	700	710 E AC3	
		<u>WSVN-TV (Fox - Miami)</u>		MPEG-4/HD PowerVu	102	1000	1010 E AC3	
		<u>CTV Toronto</u>		MPEG-4/HD PowerVu	103	2700	2710 E AC3	

		<u>WPIX-TV</u> (CW - New York)	S	MPEG-4/HD PowerVu	104	1100	1110 E AC3	
		<u>WGN-TV</u> (Chicago)	S	MPEG-4/HD PowerVu	105	2400	2410 E AC3	
		<u>Gone Viral TV</u>	F	MPEG-4/HD	121	2800	2810 E AC3	
		<u>Gone Viral Music</u>	F	MPEG-4/HD	122	2900	2910 E AC3	
		<u>Gone Viral Vogue</u>	F	MPEG-4/HD	123	2200	2210 E AC3	
		<u>Gone Viral X-treme</u>	F	MPEG-4/HD	124	2.00	2310 E AC3	
		<u>City Toronto</u>		MPEG-4 PowerVu	401	200	210 E AC3	
		<u>TVO</u>		MPEG-4 PowerVu	402	300	310 E AC3	
		<u>Bounce</u>		MPEG-4 PowerVu	403	2100	2110 E AC3	
		<u>KTLA-TV</u> (CW - Los Angeles)	S	MPEG-4 PowerVu	405	2600	2610 E AC3	
		<u>WPBT-TV</u> (PBS - Miami)		MPEG-4 PowerVu	420	500	510 E AC3	
		<u>WNED-TV</u> (PBS - Buffalo)		MPEG-4 PowerVu	421	3300	3310 E AC3	
4100 H tp 20 North America C 41	Viacom	<u>Viacom Media Networks HD Plex 2</u>		DVB-S2	30000-5/6 8PSK	7-360 9.4		Abbie 170910
		<u>CMT East</u>		MPEG-4/HD PowerVu	201	111	100 E AC3	new
		<u>MTV East</u>		MPEG-4/HD PowerVu	202	211	200 E AC3	new
		<u>Nickelodeon W est</u>		MPEG-4/HD PowerVu	203	311	300 E AC3	new
		<u>VH1 West</u>		MPEG-4/HD PowerVu	204	411	400 E AC3	new
		<u>MTV Live</u>		MPEG-4/HD PowerVu	205	511	500 E AC3	new
		<u>Spike TV East</u>		MPEG-4/HD PowerVu	206	611	600 E AC3	new
		<u>Comedy Central W est</u>		MPEG-4/HD PowerVu	207	711	700 E AC3	new
		<u>VH1 Caribbean</u>		MPEG-4/HD PowerVu	208	811	800 E AC3	new
		<u>Spike TV Caribbean</u>		MPEG-4/HD PowerVu	209	911	900 E AC3	new
		<u>Comedy Central Caribbean</u>		MPEG-4/HD PowerVu	210	1011	1000 E AC3	new
4180 H tp 24 North America C 41				DVB-S2	30000-5/6 8PSK			Abbie 170928
		<u>V me Kids</u>	F	MPEG-2	1	101	102 E AC3	
		<u>V me</u>	F	MPEG-2	2	111	112 E AC3	
		<u>Primo TV</u>	F	MPEG-2	3	121	122 E AC3	
		<u>TV Venezuela</u>	F S	MPEG-4	7	161	162 Sp AC3	
		<u>CincoMas</u>	F	MPEG-4	8	171	172 Sp	
		<u>Living Faith TV</u>	F S	MPEG-4	9	181	182 Sp	
		<u>CubaMax TV</u>	F	MPEG-4	10	191	192 Sp AC3	
		<u>Venevisión</u>	F	MPEG-4	11	201	202 Sp	
		<u>Grit</u>	F	MPEG-4	12	211	212 E	
		<u>Canal Sur</u> (USA)		MPEG-2 Director	15	141	142 Sp AC3	
		<u>Sur Perú</u>		MPEG-2 Director	16	251	252 Sp AC3	
		<u>Estudio 5</u>		MPEG-4 Director	17	261	262 Sp AC3	
		<u>TV Venezuela</u>	S	MPEG-4 Director	18	271	272 Sp AC3	
		<u>Faith USA</u>	F S	MPEG-4	19	281	282 Sp AC3	

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Free Satellite TV

Ses

Satellite Live

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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11705 V tp 1 North America Ku 48-52.4	EMF	<u>Educational Media Foundation</u>		DVB-S2	3650-3/4 QPSK	4.0	A Knafel 120921
		<u>Radio Nueva Vida</u>	F S			37 Sp	
		<u>Air 1 Radio</u>	F S			38 E	
		<u>Air 1 Radio</u>	F S			39 E	
		<u>Air 1 Radio</u>	F S			40 E	
		<u>K-Love</u>	F S			41 E	
		<u>K-Love</u>	F S			42 E	
		<u>Air 1 Radio</u>	F S			43 E	
		<u>K-Love</u>	F S			45 E	
		<u>Air 1 Radio</u>	F S			46 E	
12172 H tp 24 North America Ku 48-52.4		(feeds)		DVB-S	15000-?		A de Jong 110407

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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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



SES 3 at 103.0°W

Atlantic Main | America | America **P** | America **HD** | America **SES** | UHD | Headlines | Launches Asia
 101.0°W <C> 105.0°W HD | UHD | SatTracker | LyngSat Maps 101.2°W <Ku> 105.0°W
 Spaceway 1 & DirecTV 10/12 & SES 3 | Spaceway 1 & DirecTV 10/12 | SES 3

Azimuth & elevation in Herndon, Virginia, United States: 217.5° & 37.7°
 The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 H tp 1 North America C	QVC	DVB-S2	30000-5/6 8PSK	1-7 9.4	Kyl 416 160725
	QVC Beauty iQ	F S MPEG-2	700	701 E	
	QVC Beauty iQ	F S MPEG-2/HD	800	801 E	
	QVC US	F S MPEG-2/HD	1 100	101 E	
	QVC US	F S MPEG-2	2 200	201 E	
	QVC 2	F S MPEG-2/HD	3 300	301 E	
	QVC 2	F S MPEG-2	4 400	401 E	
3740 V tp 2 North America C					Abbie 170725
3760 H tp 3 North America C	 Univisión	DVB-S2	30000-3/4 8PSK	7.9	Abbie 161204
	Univisión Este	MPEG-4/HD Director	101 1001	1002 Sp 1005 Sp AC3	
	Univisión Oeste	MPEG-4/HD Director	112 2001	2002 Sp	
	Univisión Mountain	MPEG-4/HD Director	113 3001	3002 Sp	
3780 V tp 4 North America C	 MSG	DVB-S2	28800-5/6 8PSK	9.4	B Shelley 140820
	MSG	MPEG-2 PowerVu	400 110	100 E AC3	
	MSG +	MPEG-2 PowerVu	401 210	200 E AC3	
	MSG 2	MPEG-2 PowerVu	410 310	300 E AC3	
	MSG + 2	MPEG-2 PowerVu	411 410	400 E AC3	
	MSG Netbase	MPEG-2 PowerVu	420 51	500 E AC3	
3800 H tp 5 North America C	 GlobeCast	Digicipher 2	29270-7/8	189-7	C Kambanis 160921
	Gol TV		1 100		
	Ride TV		2 200	E	
	52MX Estados Unidos		3 300	Sp	
	CineLatino		4 .00	Sp	
	TyC Sports		6 600	Sp	
	The Africa Channel US		9 900	E AC3	
	Daystar TV	F S	151 800	E	
	TV Globo Internacional Américas		153 950	P	
	Radio Paz	F S	13 720	Sp	
3820 V tp 6 North America C					Abbie 170912
3840 H tp 7 North America C	 ION Media Networks	DVB-S	26681-3/4	1-7 5.5	S Birdwell 150930
	ION TV East	F	1 100	101 E	
	(ION TV feeds)		2 200	201	
	ION TV Pacific	F	3 300	301 E	
	(ION TV feeds)		4 400	401	
	(ION TV feeds)		5 500	501	
	ION Plus	F	6 600	601 E	
	ION TV West	F	7 700	701 E	
	(ION TV feeds)		8 800	801	
	Qubo	F	10 1000	1001 E	
	ION Life	F	11 1100	1101 E	

News at LyngSat:



-  **Payam-e-Afghan TV**
on Intelsat 902
-  **Ukraine 24**
on Intelsat 902
-  **Thai TV Global Network**
on Intelsat 902
-  **BVN TV Europa**
on Intelsat 902
-  **Watania 1**
on Intelsat 902
-  **ENTV**
on Intelsat 902



News at LyngSat Stream:

-  **Prajaa TV Kannada**
-  **Rakshana TV**
-  **Málaga 24h**
-  **TV Zabrze**
-  **TV Master**
-  **TV Kłodzka**

Notice the HSN mux has ONID 2.

4009 V tp 16 North America C		(Univisión feeds)		DVB-S2	3500-3/5 8PSK		Abbie 121128
				DVB-S2	30000-2/3 8PSK		Abbie 170806
4040 H tp 17 North America C		ION TV East		MPEG-4/HD BISS	9	900	901 E AC3
		ION TV Pacific	F	MPEG-4/HD	12	1200	1201 E AC3
		ION TV West		MPEG-4/HD BISS	17	1700	1701 E AC3
		ION TV East		MPEG-4/HD BISS	18	1800	1801 E AC3
		ION TV East	F	MPEG-2/HD	21	2100	2101 E AC3
		ION TV West		MPEG-2/HD BISS	23	2300	2301 E AC3
		ION TV East	F	MPEG-4/HD	24	2400	2401 E AC3
		Starz East		MPEG-4 Nagravision	210	657	658 E
		Showtime East		MPEG-4 Nagravision	215	682	683 E
		Airbox East		MPEG-4 Nagravision	216	687	688 E
		Starz East		MPEG-4 Nagravision	301	812	813 E
		Starz Encore East		MPEG-4 Nagravision	302	817	818 E
		Starz Comedy East		MPEG-4 Nagravision	303	822	823 E
		Starz Kids & Family East		MPEG-4 Nagravision	304	827	828 E
		Showtime East		MPEG-4 Nagravision	305	832	833 E
		The Movie Channel East		MPEG-4 Nagravision	306	837	838 E
		Showtime 2 East		MPEG-4 Nagravision	307	842	843 E
		Flix East		MPEG-4 Nagravision	308	847	848 E
		Epix East		MPEG-4 Nagravision	309	852	853 E
		Airbox East		MPEG-4 Nagravision	312	867	868 E
		Starz West		MPEG-4 Nagravision	313	872	873 E
		Starz Encore W est		MPEG-4 Nagravision	314	877	878 E
		Starz Comedy W est		MPEG-4 Nagravision	315	882	883 E
		Starz Kids & Family W est		MPEG-4 Nagravision	316	887	888 E
		Showtime W est		MPEG-4 Nagravision	317	912	913 E
		The Movie Channel W est		MPEG-4 Nagravision	318	917	918 E
		Showtime 2 W est		MPEG-4 Nagravision	319	922	923 E
		Flix West		MPEG-4 Nagravision	320	927	928 E
		Epix West		MPEG-4 Nagravision	321	932	933 E
		Epix 2	F	MPEG-4	322	937	938
		Airbox W est		MPEG-4 Nagravision	324	942	943 E
4080 H tp 19 North America C		Scripps Networks		Digicipher 2	19510-3/4	589-?	Kyl 416 151103
		Food Network East			1	100	E
		DIY Network USA			2	200	E
		Cooking Channel			3	300	E
		HGTV East			4	400	E
		Food Network W est			5	500	E
		HGTV West			6	600	E
		Travel Channel East			7	800	E
		Great American Country			8	700	E
		Travel Channel W est			9	900	E
4091 V tp 20 North America C		PBS East		DVB-S	14029-3/4	5.5	Abbie 110519
		PBS East	F	MPEG-2/HD	3	49	52 E 55 E AC3
		PBS East	F		11	177	18. E
4120 H tp 21 North America C				DVB-S2	30000-5/6 8PSK	1-1	Abbie 170715
		UniMás Este		MPEG-4/HD Director	118	1001	1002 Sp
		UniMás Oeste		MPEG-4/HD Director	119	2001	2004 Sp
		UniMás Mountain		MPEG-4/HD Director	120	3001	3002 Sp
		Bounce		MPEG-2 Director	130	193	194 E AC3
		GetTV		MPEG-2 Director	131	33	36 E AC3
		Grit		MPEG-2 Director	132	272	288 E AC3
		Escape		MPEG-2 Director	133	784	800 E AC3
		Laff		MPEG-2	135	1296	1312 E AC3



			Director				
		Justice Network	MPEG-2 Director	137	273	275 E AC3	
4140 V tp 22 North America C			DVB-S2	30000-5/6 8PSK	1-2	Abbie 170725	
		Nature Relaxation	F	HD	4	411	421 E
		High 4K	F	HEVC/UHD	5	511	521 E
		DW English	F S	MPEG-4/HD	6	611	621 E
		InfoWars	F S	MPEG-4/HD	8	81	82 E
		Fashion 4K	F	HEVC/UHD	9	911	921 E
		Ant1 Satellite	F	MPEG-4	7001	100	110 Gr
		Rai Italia America		MPEG-4 Irdeto	8001	811	821 I
		Rai News 24	S	MPEG-4 Irdeto	8002	812	822 I
		Rai World Premium		MPEG-4 Irdeto	8003	813	823 I
		Easy 97.2	F S		7002		111 Gr
		Rythmos 949	F S		7003		114 Gr
		Spor FM	F S		7004		115 Gr
		Rai Radio 1	S	Irdeto	8004		824 I
		Rai Radio 2	S	Irdeto	8005		825 I
		Rai Radio 3	S	Irdeto	8006		826 I
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AdChoices


DIRECTV Satellite TV

Ses

Satellite View

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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11730 H tp 1 North America Ku		(feeds)		DVB-S2	4000-2/3 8PSK		C Curtis 170308
11760 H tp 3 North America Ku		NBC		DVB-S2	30000-5/6 8PSK	9.4	F Miata 151018
		NBC Mountain	F	MPEG-4/HD	3	612	851 E
		NBC West	F	MPEG-4/HD	4	613	861 E
		(NBC feeds)			5	614	871
		Cozi TV	F	MPEG-2	7	615	881 E
11880 H tp 9 North America Ku		NBC		DVB-S2	30000-5/6 8PSK	9.4	F Miata 151018
		NBC East	F	MPEG-4/HD	1	512	751 E
		NBC Central	F	MPEG-4/HD	2	513	761 E
		(NBC feeds)			6	514	771
		(NBC feeds)			14	515	801
11904 H tp 11 North America Ku		(feeds)		DVB-S2	4600-3/4 8PSK		C Curtis 170226
11940 V tp 12 North America Ku				DVB-S	20000-3/4		Abbie 161116
		RT America	F S	MPEG-4/HD	1	101	201 E AC3
		NHK World TV	F S	MPEG-4/HD	2	102	202 E AC3
		[test card]			7	5666	5667
		[Huntington Beach South of Pier livecam]	F		10	4642	4643
		[Huntington Beach North of Pier livecam]	F		20	5154	5155
		CCM Magazine	F		15		7249 E
		WCPE	F		81		5417 E
11985 H tp 15 North America Ku		(NBC feeds) (A)		DVB-S2	4600-3/4 8PSK		F Miata 150726
12009 H tp 15 North America Ku		(NBC feeds) (E)		DVB-S2	4600-3/4 8PSK		F Miata 150726
12015 H tp 15 North America Ku		(NBC feeds) (F)		DVB-S	4600-5/6		F Miata 150726
12025 H tp 17 North America Ku		(NBC feeds) (A)		DVB-S2	4600-3/4 8PSK		F Miata 150726
12076 V tp 18 North America Ku		(CNN feeds)		DVB-S2	4250-5/6 8PSK		F Miata 150726
12080 H tp 19 North America Ku		(NBC News feeds)		DVB-S2	30000-5/6 8PSK		Gdavisloop 160623
12145 V tp 22				DVB-S	20000-3/4		Abbie 161105

North America Ku	[Microspace test card]		MPEG-2	1	308	256	
	[Microspace test card]		MPEG-4/HD	2	257	260	
	50s & 60s Hits	F		-		7496	
	70s Hits	F		-		7497	
	Songbook	F		-		7498	
	80s Hits	F		-		7499	
	Backpapes	F		-		7501	
	Cashmere	F		-		7502	
	Unforgettable	F		-		7503	
	City Lights	F		-		7504	
	The Beach	F		-		7505	
	Swing Kings	F		-		7506	
	Lucille	F		-		7507	
	7890	F		-		7508	
	Ensemble	F		-		7509	
	Summer Fun	F		-		7510	
	Rock Show	F		-		7511	
	Roadhouse	F		-		7512	
	Country Gold	F		-		7513	
	Nashville USA	F		-		7514	
	Country Music 1	F		-		7515	
	Belissimo	F		-		7516	
	The Light	F		-		7517	
	Plaza	F		-		7518	
	Impressions	F		-		7519	
	Summer Fun	F		-		7520	
	Easy Instrumentals	F		-		7521	
	Environmental	F		-		7522	
	Frequency	F		-		7523	
	Expressions	F		-		7524	
	Ambrosia	F		-		7525	
	FM-1	F		-		7526	
	Hitline	F		-		7527	
	Hot FM	F		-		7528	
	Strobe	F		-		7529	
	Little Italy	F		-		7530	
	Jazz Traditions	F		-		7531	
	Jukebox Gold	F		-		7533	
	La Musica	F		-		7535	
	Intermezzo	F		-		7536	
	Love Songs	F		-		7.37	
	Feedback	F		-		7538	
	Metro	F		-		7539	
	Moodscapes	F		-		7541	
	Aura	F		-		7542	
	Shine	F		-		7543	
	The Party Playlist	F		-		7544	
	NuJazz	F		-		7545	
	Piano & Guitar	F		-		7546	
	The Cafe	F		-		7547	
	Mo Soul	F		-		7548	
	Reflections	F		-		7549	
	Tropical Breezes	F		-		7552	
	The Blvd	F		-		7553	
	Concrete Beats	F		-		7554	
	Viva Mariachi	F		-		7555	
	Shoprite Commercials	F		-		7556	
	NuLounge	F		-		75.7	
	La Musica	F		-		7558	
	Don Pablos	F		-		7560	
	Price Shopper Commercials	F		-		7561	
	RL Music Program	F		-		7562	
	Quebecois	F		-		7563	
	Stater Brothers Radio	F		-		7564	
	Popeyes Radio	F		-		7565	
	Holiday Pop	F		-		7566	
	Commercials	F		-		7567	
	The Circuit	F		-		7568	
	Perimeter	F		-		7569	
	The New Wave	F		-		7570	
	Varsity	F		-		7571	
	Stylus	F		-		7572	
	Curves 4 Women	F		-		7574	
	Fameous Footware	F		-		7575	
	Mens Wearhouse						

			F		-	7576	
		Pet Smart	F		-	7577	
		Radio DWS	F		-	7578	
		FM Dos	F		-	7579	
		Sprints Main	F		-	7580	
		Sports Authority	F		-	7581	
		Costs Plus	F		-	7582	
		Soulful Holiday	F		-	7583	
		Uptown	F		-	7584	
		Moes SW Grill	F		-	7586	
		McDonalds	F		-	7587	
		Office Max	F		-	7588	
		Chase	F		-	7589	
		Sprint	F		-	7590	
		Chase Main	F		-	7591	
		Ultra	F		-	7594	
12157 H tp 23 North America Ku		(NBC feeds) (C)		DVB-S2	4600-3/4 8PSK		F Miata 150726
12175 H tp 23 North America Ku		(NBC feeds) (F)		DVB-S2	4600-3/4 8PSK		F Miata 150726
12182 V tp 24 North America Ku		FedEx		DVB-S	25000-3/4	5.5	Abbie 161114
		FedEx Channel 10		PowerVu	10	1160	1120 E
		FedEx Channel 20		PowerVu	20	1260	1220 E
		FedEx Channel 30		PowerVu	30	1360	1320 E
		FedEx Channel 40		PowerVu	40	1460	1420 E
		FedEx Channel 50		PowerVu	50	1560	1520 E
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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AMC 18 at 105.0°W



Atlantic Main America America **P** America **HD** America **UHD** | [Headlines](#) | [Launches](#) Asia
 103.0°W <C> 107.3°W HD | [SatTracker](#) | [LyngSat Maps](#) 103.0°W <Ku> 107.3°W
 AMC 15/18 | AMC 15 | AMC 18

Azimuth & elevation in Herndon, Virginia, United States: 220.0° & 36.6°
 The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3740 H tp 2 North America 40-41	HITS <u>HITS Quantum</u>	P DVB-S2 MPEG-2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
	<u>DMX Beautiful Instruments</u>	F	55		
	<u>DMX Jazz Vocal Blends</u>	F	56		
	<u>DMX Hot Hits</u>	F	57		
	<u>DMX Modern Country</u>	F	58		
	<u>DMX Alternative Rock</u>	F	59		
	<u>DMX Adult Contemporary</u>	F	60		
	<u>DMX 60s Revolution</u>	F	61		
	<u>DMX Classic Rock</u>	F	62		
	<u>DMX Classic Hits Blend</u>	F	63		
	<u>DMX Silky Soul</u>	F	64		
	<u>DMX Rapture</u>	F	65		
	<u>DMX Jazz</u>	F	66		
	<u>DMX Blues</u>	F	67		
	<u>DMX Gospel Glory</u>	F	68		
	<u>DMX Lite Classical</u>	F	69		
	<u>DMX Subterranean</u>	F	70		
	<u>DMX Symphonic</u>	F	71		
	<u>DMX Coffeehouse Rock</u>	F	72		
	<u>DMX Dance</u>	F	73		
	<u>DMX The Spirit</u>	F	74		
	<u>DMX 8-Tracks</u>	F	75		
	<u>DMX Today's Hits</u>	F	76		
	<u>DMX 80's Hits</u>	F	77		
	<u>DMX 70's Hits</u>	F	78		
	<u>DMX Classic R&B</u>	F	79		
	<u>DMX Traditional Country</u>	F	80		
	<u>DMX Soft Hits</u>	F	81		
	<u>DMX Retro Disco</u>	F	82		
	<u>DMX Groove Lounge</u>	F	83		
	<u>DMX Big Band Swing</u>	F	84		
	<u>DMX Smooth Jazz</u>	F	85		
	<u>DMX New Age</u>	F	86		
	<u>DMX Holiday & Happenings</u>	F	87		
	<u>DMX Great Standards</u>	F	88		
	<u>DMX Malt Shop Oldies</u>	F	89		
	<u>DMX Y2K Hits</u>	F	90		
	<u>DMX The Playground</u>	F	91		
	<u>DMX Hot Jam</u>	F	92		
	<u>DMX 90's Hits</u>	F	93		
	<u>DMX Salsa</u>	F	94		
	<u>DMX Latin Hits</u>	F	95		
3760 V tp 3 North America 40-41					Gdavisloop 160929
3780 H tp 4 North America 40-41	NBC <u>NBC</u>	DVB-S2	30000-3/4 8PSK	7.9	Kyl 416 150523
	<u>NBC East</u>	F MPEG-4/HD	9	517	751 E
	<u>NBC Central</u>	F MPEG-4/HD	10	518	761 E
	<u>NBC Mountain</u>	F MPEG-4/HD	11	519	771 E
	<u>NBC West</u>	F MPEG-4/HD	12	520	781 E
	<u>Cozi TV</u>	F MPEG-4	20	308	256 E
3800 V	<u>HITS Quantum</u>	P DVB-S2	30000-5/6		E Bresser

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Thai TV Global
Network
on Intelsat 902

tp 5 North America 40-41				MPEG-2 Digicipher	8PSK	9.4	161107
3820 H tp 6 North America 40-41		HITS Quantum	P	DVB-S2 MPEG-2/HD Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
3840 V tp 7 North America 40-41		HITS Quantum	P	DVB-S2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
3860 H tp 8 North America 40-41		HITS Quantum	P	DVB-S2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
3880 V tp 9 North America 40-41		HITS Quantum	P	DVB-S2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
3920 V tp 11 North America 40-41		Discovery Networks		DVB-S2	30000-5/6 8PSK	981-? 9.4	Kyl 416 160614
		Discovery Channel East		MPEG-4/HD Digicipher	1 17	18 E	
		TLC East		MPEG-4/HD Digicipher	2 33	34 E	
		Destination America		MPEG-4/HD Digicipher	3 49	50 E	
		TLC Canada		MPEG-4/HD Digicipher	4 65	66 E	
		American Heroes Channel USA		MPEG-4/HD Digicipher	5 81	82 E	
		Discovery en Español		MPEG-4/HD Digicipher	6 97	98 Sp	
		Discovery Familia		MPEG-4/HD Digicipher	7 113	114 Sp	
		Investigation Discovery East		MPEG-4/HD Digicipher	8 129	130 E	
		Animal Planet East		MPEG-4/HD Digicipher	9 145	146 E	
		Science		MPEG-4/HD Digicipher	10 161	162 E	
3940 H tp 12 North America 40-41		Telemundo		DVB-S2	30000-3/4 8PSK	7.9	Abbie 161204
		TeleXitos		MPEG-2 Director	9 531	612 Sp	
		Telemundo Este		MPEG-4/HD Director	20 517	655 Sp	
		Telemundo Oeste		MPEG-4/HD Director	21 518	65. Sp	
		(Telemundo feeds)			22 519	657	
		(Telemundo feeds)			24 520	658	
3960 V tp 13 North America 40-41		HITS Quantum	P	DVB-S2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
3980 H tp 14 North America 40-41		HITS Quantum	P	DVB-S2 Digicipher	30000-5/6 8PSK	9.4	Kyl 416 161013
4000 V tp 15 North America 40-41		HITS Quantum	P	DVB-S2 MPEG-2/HD Digicipher	30000-5/6 8PSK	9.4 AC3	Kyl 416 161013
4020 H tp 16 North America 40-41		HITS Quantum	P	DVB-S2 MPEG-2/HD Digicipher	30000-5/6 8PSK	9.4 AC3	Kyl 416 161013
4080 V tp 19 North America 40-41		HITS Quantum	P	DVB-S2 MPEG-2/HD Digicipher	30000-5/6 8PSK	9.4 AC3	Kyl 416 161013
4160 V tp 23 North America 40-41		HITS Quantum	P	DVB-S2 MPEG-2/HD Digicipher	30000-5/6 8PSK	9.4 AC3	Abbie 170718

AMC 18 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/AMC-18.html>

Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

You are welcome to send updates and corrections to webmaster@lyngsat.com
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Anik F1R at 107.3°W

Atlantic	Main	America	America P	America HD	America 	UHD	Headlines	Launches	Asia
105.0°W <C> 111.1°W			HD SatTracker LyngSat Maps			105.0°W <Ku> 109.8°W			
Anik F1R/G1 Anik F1R Anik G1									

Azimuth & elevation in Herndon, Virginia, United States: 222.7° & 35.3°

The EIRP values are for Richmond, Virginia, United States

Anik F1R © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Anik-F1R.html>





Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3789 V tp 2B North America C 42		AMC Canada		DVB-S2	13334-3/4 8PSK	7.9	Abbie 161129
		AMC Canada		MPEG-4/HD PowerVu	151 3110	3170 E AC3	
		[AMC Canada test card]		MPEG-4/HD PowerVu	153 3310	3370	
		AMC Canada		MPEG-4 PowerVu	252 3210	3270 E AC3	
		[MSG NHL test card]		MPEG-4 PowerVu	254 3410	3470	
3807 V tp 3B North America C 42		Legislative Assembly TV Network Northwest Territories	F	DVB-S	6500-1/2 1 - 8000	2-2 2.7 9001 E	Abbie 130918
3825 V tp 3B North America C 42		Legislative Assembly TV Nunavut	F	DVB-S	6500-1/2 1 - 7000	2-2 2.7 7001 E	Abbie 130918
3834 V tp 3B North America C 42		House of Assembly Newfoundland and Labrador	F	DVB-S	4936-2/3 1 - 308	2-2 4.4 256 E	Abbie ww6
3836 H tp 4A North America C 42							Abbie 170606
3860 V tp 4B North America C 42				DVB-S2	30000-2/3 8PSK	2-301	J-G Belanger 160728
		TV 5 Québec Canada Ouest		MPEG-4/HD PowerVu	130 3360	3300 F AC3	
		TV 5 Québec Canada Est		MPEG-4/HD PowerVu	132 900	910 F AC3	
		Unis TV Est		MPEG-4/HD PowerVu	134 600	610 F AC3	
		Unis TV Ouest		MPEG-4/HD PowerVu	135 800	810 F AC3	
3913 V tp 5B North America C 42		AMI		DVB-S2	7078-2/3 8PSK	6.6	J-G Belanger 150825
		AMI-TV East	F	MPEG-4/HD	1 16	17 E AC3	
		AMI-TV West	F	MPEG-4/HD	2 32	33 E AC3	
		AMI-télé	F	MPEG-4/HD	3 64	65 F AC3	
		AMI-audio Eastern	F		1	18 E AC3	
		AMI-audio Western	F		2	34 E AC3	
		AMI-audio Eastern	F		3	50 E AC3	
		AMI-audio Western	F		3	51 E AC3	
3920 H tp 56A North America C 42		Ici Radio Canada Télé		DVB-S2	30000-3/4 8PSK	1-201 7.9 AC3	J-G Belanger 160728
		Ici Radio Canada Télé Québec		MPEG-4/HD PowerVu	83 1329	1332 F AC3	
		Ici Radio Canada Télé Manitoba		MPEG-4/HD PowerVu	89 1425	1428 F AC3	
		Ici Radio Canada Télé Saskatchewan		MPEG-4/HD PowerVu	90 1441	1444 F AC3	
		Ici Radio Canada Télé Alberta		MPEG-4/HD PowerVu	91 1457	1460 F AC3	
		Ici Radio Canada Télé Colombie- Britannique-Y ukon		MPEG-4/HD PowerVu	92 1473	1476 F AC3	
		Ici RDI		MPEG-4/HD PowerVu	208 3329	3332 F AC3	
		Ici ArTV		MPEG-4/HD PowerVu	209 3345	3348 F AC3	
3927 V tp 6B North America C 42		(APTN feeds)		DVB-S	7500-3/4		J-G Belanger 150825
3948 V				Digicipher 2	14630-3/4	517-?	Abbie



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tp 6B North America C 42							130918
		<u>Legislative Assembly of Ontario</u>	F S		7	106	E
		<u>APTN East</u>			8	107	E
		<u>Rewind</u>			9	108	E
		<u>APTN West</u>			10	109	E
		<u>APTN North</u>			11	110	E
3962 H tp 7A North America C 42		<u>Ici Radio Canada Télé Montréal</u>		DVB-S PowerVu	9120-7/8 1160	7.2 1120 F	J Kozar 100901
4020 V tp 8B North America C 42		<u>CTV</u>		DVB-S2	30000-5/6 8PSK	9.4	Abbie 130918
		<u>CTV Winnipeg</u>	F	MPEG-4/HD	1	257	258 E AC3
		<u>CTV Kitchener</u>	F	MPEG-4/HD	2	513	514 E AC3
		<u>CTV Ottawa</u>	F	MPEG-4/HD	3	769	770 E AC3
		<u>CTV Montreal</u>	F	MPEG-4/HD	4	1025	1026 E AC3
		<u>CTV Atlantic Halifax</u>	F	MPEG-4/HD	5	1281	1282 E AC3
		<u>CTV Atlantic Moncton</u>	F	MPEG-4/HD	6	1537	1538 E AC3
		<u>CTV Two Vancouver Island</u>	F	MPEG-4/HD	7	1793	1794 E AC3
		(CTV feeds)			8	2049	2050
		<u>CTV Northern Ontario Sudbury</u>	F	MPEG-4	9	2305	2306 E AC3
		<u>CTV Northern Ontario Timmins</u>	F	MPEG-4	10	2561	2562 E AC3
		<u>CTV Northern Ontario North Bay</u>	F	MPEG-4	11	2817	2818 E AC3
		<u>CTV Northern Ontario Sault Ste. Marie</u>	F	MPEG-4	12	3073	3074 E AC3
4040 H tp 9A North America C 42		<u>Ici Radio Canada Télé</u>		DVB-S2	30000-3/4 8PSK	1-101 7.9	J-G Belanger 160728
		<u>Ici Radio Canada Télé Acadie</u>		MPEG-4/HD PowerVu	80	1281	1284 F AC3
		<u>Ici Radio Canada Télé Est du Québec</u>		MPEG-4/HD PowerVu	81	1297	1300 F AC3
		<u>Ici Radio Canada Télé Montréal</u>		MPEG-4/HD PowerVu	86	1377	1380 F AC3
		<u>Ici Radio Canada Télé Ottawa-Gatineau</u>		MPEG-4/HD PowerVu	87	1393	1396 F AC3
		<u>Ici Radio Canada Télé Ontario</u>		MPEG-4/HD PowerVu	88	1409	1412 F AC3
		<u>Télé-Québec</u>		MPEG-4/HD PowerVu	214	3425	3428 F AC3
4060 V tp 9B North America C 42				DVB-S	28346-7/8	2-200	J-G Belanger 160728
		<u>Télé-Québec</u>	F	MPEG-4/HD	145	550	555 F AC3
		<u>MétéoMédia</u>	F		205	210	202 F
		(feeds)			220	310	302
		<u>CTV Two Atlantic</u>	F		316	810	802 E
		RDS		PowerVu	422	710	7.0 F AC3
		98.5 FM	F S		21		354 F
		<u>Rythme Montréal</u>	F S		25		352 F
		<u>Radio France Internationale</u>	F		228		704 F
		<u>Rouge 107.3 FM</u>	F S		306		2420 F
		<u>Énergie Montréal</u>	F S		311		2520 F
		<u>Canal M (Canada)</u>		PowerVu	336		154 F
4080 H tp 10A North America C 42		<u>CBC</u>		DVB-S2	30000-3/4 8PSK	7.9	Abbie 170606
		<u>CBC Newfoundland and Labrador</u>		MPEG-4/HD PowerVu	16	257	260 E AC3
		<u>CBC Charlottetown</u>		MPEG-4/HD PowerVu	18	289	292 E AC3
		<u>CBC New Brunswick</u>		MPEG-4/HD PowerVu	19	305	308 E AC3
		<u>CBC Montreal</u>		MPEG-4/HD PowerVu	20	321	324 E AC3
		<u>CBC Ottawa</u>		MPEG-4/HD PowerVu	21	337	340 E AC3
		<u>CBC Windsor</u>		MPEG-4/HD PowerVu	23	369	372 E AC3
		<u>CBC Regina</u>		MPEG-4/HD PowerVu	25	401	404 E AC3
4100 V tp 10B North America C 42				DVB-S	28346-7/8		Abbie 161201
		(feeds)					
		<u>The Weather Network</u>	F		240	810	800 E
		<u>Fight Network</u>		MPEG-4/HD PowerVu	510	1030	1031 E AC3
		<u>Family Chrgd</u>		PowerVu	530	1010	1011 E AC3
		<u>Canadian Weather Network</u>	F				803 E
4107 H tp 11A North America C 42		(feeds)		DVB-S	7440-5/6		Anonymous 030617
4117 H tp 11A North America C 42		(feeds)		DVB-S	6200-5/6		Anonymous 030617
4140 V		<u>CTV</u>		DVB-S2	30000-5/6		J-G Belanger









tp 11B North America C 42					8PSK	9.4	160423
		CTV British Columbia	F	MPEG-4/HD	1	257	258 E AC3
		CTV Edmonton	F	MPEG-4/HD	2	513	514 E AC3
		CTV Calgary	F	MPEG-4/HD	3	769	770 E AC3
		CTV Calgary +1	F	MPEG-4/HD	4	1025	1026 E AC3
		CTV Saskatoon	F	MPEG-4/HD	5	1281	1282 E AC3
		CTV Regina	F	MPEG-4/HD	6	1537	1538 E AC3
		CTV Saskatoon Prince Albert	F	MPEG-4/HD	7	1793	1794 E AC3
		CTV Regina Yorkton	F	MPEG-4	8	2049	2050 E AC3
		(CTV feeds)			9	2305	2306
4160 H tp 12A North America C 42		CBC		DVB-S2	30000-3/4 8PSK	1-101 7.9 AC3	Abbie 170606
		CBC Nova Scotia		MPEG-4/HD PowerVu	17	273	276 E AC3
		CBC Toronto		MPEG-4/HD PowerVu	22	353	356 E AC3
		CBC Windsor		MPEG-4/HD PowerVu	24	385	388 E AC3
		CBC Calgary		MPEG-4/HD PowerVu	26	417	420 E AC3
		CBC Edmonton		MPEG-4/HD PowerVu	27	433	436 E AC3
		CBC British Columbia		MPEG-4/HD PowerVu	28	449	452 E AC3
		CBC Yellowknife		MPEG-4/HD PowerVu	29	465	468 E AC3
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Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11715 V tp 1 North America Ku 44-52		Shaw Direct	P	Digicipher 2 HD	21000-3/4 8PSK	517-?	Kyl 416 140902
11728 H tp 17 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	127-?	NK 170220
		CTV Two Alberta	F		2	120	E
11745 V tp 2 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	517-?	Kyl 416 130627
11758 H tp 18 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	127-?	NK 140904
11776 V tp 3 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	517-?	Kyl 416 150904
11789 H tp 19 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	127-?	NK 140904
11806 V tp 4 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	300-?	NK 110915
11819 H tp 20 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	321-?	L Ross 101110
11837 V tp 5 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	516-?	Kyl 416 050611
		The Shopping Channel (Canada)	F S		4	532	
11850 H tp 21 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	127-?	NK 170220
11867 V tp 6 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	517-?	Anonymous 151125
11880 H tp 22 North America Ku 44-52		Shaw Direct	P	Digicipher 2	19510-3/4	517-?	NK 170906
11898 V tp 7 North America		Shaw Direct	P	Digicipher 2	19510-3/4	517-?	NK 140906

<u>Ku</u> 44-52							
11902 H tp 23 <u>North America</u> <u>Ku</u> 44-52		(CBC feeds) (1)		DVB-S 4:2:2	5859-3/4		S Desbiens 030909
11912 H tp 23 <u>North America</u> <u>Ku</u> 44-52		(CBC feeds) (2)		DVB-S 4:2:2	5859-3/4		L Ross 050626
11928 V tp 8 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	441-?	Kyl 416 150225
11933 H tp 24 <u>North America</u> <u>Ku</u> 44-52		(CBC feeds) (1)		DVB-S 4:2:2	5859-3/4		J-G Belanger 020726
11941 H tp 24 <u>North America</u> <u>Ku</u> 44-52		(CBC feeds) (2)		DVB-S 4:2:2	5859-3/4		J-G Belanger 020726
11949 H tp 24 <u>North America</u> <u>Ku</u> 44-52		(CBC feeds) (3)		DVB-S 4:2:2	5859-3/4		J-G Belanger 020726
11959 V tp 9 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	148-?	Kyl 416 130627
		<u>CKUA</u>	F S		21	920	E
11972 H tp 25 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	J Brewer 090425
11989 V tp 10 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2 HD	20500-2/3 8PSK	517-?	J Brewer 100927
12002 H tp 26 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	Kyl 416 140902
12020 V tp 11 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	V Kopertehov 160211
12033 H tp 27 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	435-?	L Ross 101110
12050 V tp 12 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	NK 110915
		<u>Knowledge</u>	F		1	220	E
		<u>Legislative Assembly of British Columbia</u>	F		3	222	E
12063 H tp 28 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	Kyl 416 050611
12081 V tp 13 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2 HD	20500-2/3 8PSK	517-?	L Ross 161111
12094 H tp 29 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	NK 120218
		<u>AMI-audio Eastern</u>	F		17	556	E
12111 V tp 14 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	NK 110915
12124 H tp 30 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	NK 131018
12142 V tp 15 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	J Brewer 090501
12155 H tp 31 <u>North America</u> <u>Ku</u> 44-52	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	517-?	NK 140904
12172 V tp 16 <u>North America</u>	<u>Shaw)</u> <u>Direct</u>	<u>Shaw Direct</u>	P	Digicipher 2	19510-3/4	449-?	NK 170220

Ku 44-52							
12185 H tp 32 North America Ku 44-52		Shaw Direct		Digicipher 2	19510-3/4	517-?	Kyl 416 130627
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Anik F2 at 111.1°W



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[107.3°W <C> 113.0°W](#) | [HD](#) | [SatTracker](#) | [LyngSat Maps](#) | [110.0°W <Ku> 113.0°W](#)

Azimuth & elevation in Herndon, Virginia, United States: 226.9° & 33.0°
 The EIRP values are for Richmond, Virginia, United States

Anik F2 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Anik-F2.html>

Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3740 V tp 1B North America C 41		VSEN Henrico (08.45-11.30 ET)	F	NTSC		
3820 V tp 3B North America C 41		VSEN Varina (08.45-12.30 ET)	F	NTSC		
3900 V tp 5B North America C 41		(feeds)		NTSC		
3920 H tp 6A North America C 41		(feeds)		NTSC		
3940 V tp 6B North America C 41						J Deboy 170317
3980 V tp 7B North America C 41		VSEN Wise (08.30-13.17 ET)	F	NTSC		
4020 V tp 8B North America C 41		(feeds)		NTSC		
4060 V tp 9B North America C 41		(feeds)		NTSC		
4104 H tp 10B North America C 41		Saskatchewan mux	DVB-S2	4143-? 8PSK		J Deboy 170315
		City Saskatchewan	F	MPEG-4	1 35 34 E	
		Saskatchewan Legislative Network	F	MPEG-4	2 33 32 E	
		[Access Comm test card]	MPEG-4	3 1793 1795 E		

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AdChoices

LNB Satellite Dish

Live Satellite

Satellite View

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11745 V tp 2 North America Ku 44-50		Shaw Direct	P	Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-? NK 110915
11758 H tp 18 North America Ku 44-50		Shaw Direct	P	Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-? NK 111216
11770 V tp 19 North America Ku 44-50		LIVE SatNet		DVB-S	3270-?	W Hepburn 150426
		LIVE 1	F		1 257 259 E	
		LIVE 2	F		2 513 515 E	
		LIVE 3	F		3 769 771 E	
11819 H tp 20 North America Ku 44-50		Shaw Direct	P	Digicipher 2 HD	20500-2/3 8PSK	517-? NK 121111
11837 V		Shaw Direct	P	Digicipher 2	20500-2/3	517-? Kyl 416

News at LyngSat:

NHK World TV
on Intelsat 902

Ukraine 24
on Intelsat 902

TRT Türk
on Intelsat 902

The Word Network
on Intelsat 902

Payam-e-Afghan TV
on Intelsat 902

CNL Evropa
on Intelsat 902

News at LyngSat Stream:

TV Zabrze






































Prajaa TV
Kannada


Rakshana TV

TV Master

Málaga 24h

TV Kłodzka


tp 5 North America Ku 44-50	 Shaw Direct		HD	8PSK		140902
11850 H tp 21 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	Kyl 416 150225
11880 H tp 22 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-?	NK 131016
11898 V tp 7 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-?	NK 131016
11928 V tp 8 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	L Ross 161023
11972 H tp 25 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-?	NK 121111
11989 V tp 10 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	Kyl 416 140902
12002 H tp 26 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2	19510-3/4	517-?	NK 140926
12020 V tp 11 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	Kyl 416 140902
12033 H tp 27 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-?	NK 131016
12050 V tp 12 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	J Brewer 100927
12063 H tp 28 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2	19510-3/4	517-?	Kyl 416 140902
12081 V tp 13 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-4	20500-2/3 8PSK	517-?	NK 131016
12094 H tp 29 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2	19510-3/4	517-?	NK 140831
12111 V tp 14 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2	19510-3/4	517-?	Kyl 416 140902
12142 V tp 15 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	L Ross 161023
12155 H tp 31 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 HD	20500-2/3 8PSK	517-?	L Ross 161023
12172 V tp 16 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2	19510-3/4	517-?	NK 140904
12185 H tp 32 North America Ku 44-50	 Shaw Direct	Shaw Direct	 Digicipher 2 MPEG-2/HD	20500-2/3 8PSK	517-?	NK 110915
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 AdChoices

DIRECTV Satellite TV

SAT Satellite

FTA Satellite

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
19776 L		@ WildBlue	DVB-S	15000-3/4 Turbo		R Hewitt 060331

North America Ka						
19794 L		@ WildBlue	DVB-S	15000-3/4 Turbo		R Hewitt 060331
North America Ka	wildblue					
19814 L		@ WildBlue	DVB-S	15000-3/4 Turbo		R Hewitt 060331
North America Ka	wildblue					
19905 L		@ WildBlue	DVB-S	22500-3/4 Turbo		R Hewitt 060331
North America Ka	wildblue					
19932 L		@ WildBlue	DVB-S	22500-3/4 Turbo		R Hewitt 060331
North America Ka	wildblue					
19966 L		@ WildBlue	DVB-S	15000-1/2 Turbo		R Hewitt 060331
North America Ka	wildblue					
20002 L		@ WildBlue	DVB-S	15000-3/4 Turbo		R Hewitt 060331
North America Ka	wildblue					
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Eutelsat 1 13 West A at 113.0°W



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Azimuth & elevation in Herndon, Virginia, United States: 228.9° & 31.9°

The EIRP values are for Richmond, Virginia, United States

Eutelsat 113 West A © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Eutelsat-113-West-A.html>

Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3704 V tp 1C1 C1		Canal Pro	F	DVB-S MPEG-2	2120-3/4 49	5.5 52 Sp	I Antunez 170105
3720 V tp 1C1 C1		TRC TV	F	DVB-S2 MPEG-4/HD	3000-5/6 8PSK 1 - 100	7.7 9.4 50 Sp	L Sosa 160414
3731 V tp 1C1 C1		TV Tabasqueña	F	DVB-S	3782-7/8 6 - 97	7.7 7.2 100 Sp	Abbie 121217
		La Más Choca de Todas	F		6	101 Sp	
3734 H tp 2C1 C1		(feeds)		DVB-S	3410-?		R Camacho 090730
3736 V tp 1C1 C1		TeleFórmula	F S	DVB-S	3254-3/4 1 - 512	7.7 5.5 4112 Sp	Abbie 121217
3744 V tp 3C1 C1		TV Cuatro 4.1	F S	DVB-S	2893-3/4 2 - 33	7.7 5.5 36 Sp	Abbie 121217
3747 H tp 4C1 C1		Veracidad Channel	F S	DVB-S MPEG-4/HD	2542-7/8 257	7.2 258 Sp	Y Núñez 170215
3752 V tp 3C1 C1		Telemar	F S	DVB-S	2893-3/4 1 - 4194	7.7 5.5 4195 Sp	Soporte Telemar 060729
3760 V tp 3C1 C1		Telesur (Mexico)	F	DVB-S	2893-3/4 1 - 4194	7.7 5.5 4195 Sp	Mitchell 110420
3764 H tp 4C1 C1		RCG TV 1	F S	DVB-S	2934-3/4 1 - 4194	7.7 5.5 4195 Sp	Abbie 121217
3765 V tp 3C1 C1		Megacanal	F	DVB-S	3254-3/4 1 - 8000	7.7 5.5 8001 Sp	Voyager 110522
3768 H tp 4C1 C1		Sistema Michoacano de TV	F S	DVB-S	2976-7/8 100 - 33	7.7 7.2 37 Sp	Abbie 121217
		La Radio de Todos FM	F S		100	36 Sp	
3769 V tp 3C1 C1		Video Rola		DVB-S	3363-3/4 1 - 1360	7.7 5.5 1120 Sp	Abbie 121217
		La Radio de Todos FM	F S		1	1125 Sp	
3773 V tp 3C1 C1		Green TV (Mexico)	F S	DVB-S MPEG-4	2532-3/4 1 - 481	7.7 5.5 482 Sp	Abbie 121217
3773 H tp 4C1 C1		Trecevisión	F	DVB-S	2875-3/4 4194	5.5 4195 Sp	Abbie 121217
3779 H tp 4C1 C1		TeleFórmula	F S	DVB-S2 MPEG-4/HD	4800-2/3 8PSK 101	6.6 256 Sp AC3	D Dragos 170624
3784 H tp 4C1 C1		Tele 10 (Mexico)	F	DVB-S	2666-7/8 1 - 4194	7.7 7.2 4195 Sp	Abbie 121221
				DVB-S	2083-3/4		Abbie 161203
		W Radio	F S		1	80 Sp	
		Radiópolis	F		2	2076 Sp	
		Los 40 Principales México	F S		3	2332 Sp	
		Ke buena	F S		4	2588 Sp	
		TDW	F		5	2844 Sp	
		W Radio	F S		6	3100 Sp	
		Los 40 Principales México	F S		7	1795 Sp	
		Los 40 Principales México	F S		8	2051 Sp	
		Ke buena	F S		9	2307 Sp	
		Ke buena	F S		10	2563 Sp	
		WFM	F		11	2817 Sp	
3794 H tp 4C1 C1		RCG TV 1	F S	DVB-S2 MPEG-4	1660-3/5 8PSK 256	5.5 300 Sp	D Dragos 170624

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TV Master

Praja TV
Kannada

TV Kłodzka

TV Zabrze

Málaga 24h

Rakshana TV

News at LyngSat:

VTV 4
on Intelsat 902

















CNL Evropa
on Intelsat 902


Face 1 Persia
on Eutelsat 7B

BVN TV Europa
on Intelsat 902

TRT Türk
on Intelsat 902

Kurdistan TV
on Intelsat 902

3796 H tp 4C1 C 1		TV Tabasqueña	F	DVB-S	3470-? 1 - 49	?-? 51 Sp	Loriv 61 160803
3809 H tp 6C1 C 1		Canal 22		DVB-S2	10000-5/6 8PSK	9.4	Abbie 170720
		Canal 22 Nacional		MPEG-4 BISS	1 49	51 Sp AC3	
		Canal 22 Metropolitana y Nacional	F	MPEG-4/HD	2 65	.7 Sp AC3	
		Canal 22.2	F	MPEG-4/HD	3 81	83 Sp AC3	
3821 H tp 6C1 C 1		Hidalgo TV	F S	DVB-S	3255-7/8 2 - 33	?-? 7.2 36 Sp	Abbie 121217
		Hidalgo Radio	F S		2	37 Sp	
3825 H tp 6C1 C 1							A Solis 170621
3828 V tp 7C1 C 1		Conoce México	F	DVB-S MPEG-4/HD	2550-5/6 257	6.5 258 Sp	F Medina 141202
3829 H tp 6C1 C 1		Canal Once	F	DVB-S2 MPEG-4/HD	3620-5/6 8PSK 2 - 319	?-? 9.4 311 Sp	Abbie 121217
3834 H tp 6C1 C 1		Una Voz Con Todos	F	DVB-S2 MPEG-4	3620-5/6 8PSK 1 - 513	?-? 9.4 4112 Sp	Abbie 121217
3835 V tp 7C1 C 1		Mayavisión	F	DVB-S MPEG-4	1807-3/4 1 - 32	?-? 5.5 33 Sp	Abbie 121217
3837 V tp 7C1 C 1		Conoce México	F	DVB-S MPEG-4/HD	2550-7/8 1 - 257	?-? 7.2 258 Sp	Abbie 121217
3848 V tp 7C1 C 1		Multimedios TV		DVB-S2	13842-3/4 8PSK	7.9	R Saucedo 141116
		Multimedios Plus		MPEG-4 PowerVu	1 111	101 Sp	
		Milenio TV	S	MPEG-4 PowerVu	2 211	203 Sp	
		TLR	S	MPEG-4 PowerVu	3 311	304 Sp AC3	
		Multimedios TV USA		MPEG-4 PowerVu	4 411	403 Sp AC3	
		Milenio TV	S	MPEG-4/HD PowerVu	5 511	504 Sp AC3	
		Multimedios TV Houston		MPEG-4 PowerVu	6 611	604 Sp AC3	
		Multimedios TV		MPEG-4/HD PowerVu	11 1111	1104 Sp AC3	
3848 H tp 8C1 C 1		World TV (Mexico)	F	DVB-S2 MPEG-2/HD	3200-3/4 8PSK 2 - 308	?-? 7.9 256 Sp	Alex 10 160428
3853 H tp 8C1 C 1		Imagen Informativa	F	DVB-S	3255-3/4 1 - 4131	?-? 5.5 4129 Sp	R Lorencez 070122
3857 H tp 8C1 C 1		C7 Jalisco 17.1	F S	DVB-S	2804-3/4 1 - 4194	?-? 5.5 4195 Sp	Abbie 121217
		XEJB AM 630	F			4197 Sp	
		XEJB FM 96.3	F			4197 Sp	
3863 H tp 8C1 C 1		TV Nuevo León	F S	DVB-S	3200-3/4 1 - 308	?-? 5.5 256 Sp	Abbie 121217
		1510 La Nueva Radio	F S			256 Sp	
3867 H tp 8C1 C 1		Tlaxcala TV	F S	DVB-S2 MPEG-4	2415-3/5 8PSK 1 - 308	?-? 5.5 256 Sp	Abbie 121217
		Radio Tlaxcala	F		1	256 Sp	
3875 H tp 8C1 C 1		Imagen TV	F	DVB-S2 MPEG-4/HD	5000-? 2 - 516	?-? 4116 Sp	Mikhel 161027
3880 V tp 9C1 C 1		TVC Networks		DVB-S2	30000-2/3 8PSK	6.6	Abbie 161207
		MTV Latino		MPEG-4 PowerVu	9 900	930 Sp AC3	
		Nickelodeon Norte		MPEG-4 PowerVu	10 1000	1030 Sp AC3	
		KW TV		MPEG-4 PowerVu	11 1100	1110 Sp	
		[Canal 12 test card]		MPEG-4 PowerVu	12 1200	1230 AC3	
		NBA TV		MPEG-4 PowerVu	14 1400	1430 E AC3	
		Excelsior TV	S	MPEG-4 PowerVu	15 1500	1530 Sp AC3	
		TeleFórmula	S	MPEG-4 PowerVu	16 1600	1630 Sp AC3	
		Cine Nostalgia		MPEG-4 PowerVu	17 1700	1730 Sp AC3	
		Cine Estelar		MPEG-4 PowerVu	18 1800	1830 Sp AC3	
		WOBI TV		MPEG-4 PowerVu	19 1900	1930 Sp AC3	
		Ocho TV	F S	MPEG-4	20 2000	2030 Sp AC3	
		Megacanal	F	MPEG-4	21 2100	2130 Sp AC3	
		(feeds)			22 2200	2230	
		TVC		MPEG-4/HD PowerVu	23 2300	2330 Sp AC3	

		<u>Video Rola</u>		MPEG-4/HD PowerVu	24	2400	2430 Sp AC3	
		<u>TVC Deportes</u>		MPEG-4/HD PowerVu	25	2500	2530 Sp AC3	
		<u>Efekto TV</u>	S	MPEG-4/HD PowerVu	26	2600	2630 Sp AC3	
		<u>Green TV</u> (Mexico)	S	MPEG-4/HD PowerVu	27	2700	2730 Sp AC3	
3900 H tp 10C1 C 1		<u>Hi-TV</u>		DVB-S2	30000-3/5 8PSK		5.5	J Toro 150416
		<u>Az Corazón</u>		MPEG-4 Conax	4	97	99 Sp AC3	
		<u>Azteca Trece</u> (-2h)		MPEG-4 Conax	5	113	115 Sp AC3	
		<u>Azteca Siete</u> (-1h)		MPEG-4 Conax	6	129	131 Sp AC3	
		<u>Azteca Noticias</u>	S	MPEG-4 Conax	16	289	291 Sp AC3	
3955 H tp 12C1 C 1		<u>Excelsior TV</u>	F S	DVB-S2 MPEG-4/HD	2400-? QPSK 59		60 Sp	G Gallardo 130916
4034 H tp 16C3 C 3		Claro TV promo		DVB-S	3551-3/4 33		5.5 38 Sp	Abbie 121217
4064 V tp 19C3 C 3		<u>TV Más</u>	F S	DVB-S2 MPEG-4/HD	3080-3/4 8PSK 308		7.9 256 Sp	M Hernández 150609
		<u>Radiomás</u>	F S				257 Sp	
4077 V tp 19C3 C 3		(CEPROPIE feeds)		DVB-S2	6660-3/4 8PSK			D Dragos 170626
4140 H tp 22C3 C 3		<u>Alterna TV</u>		DVB-S2	30000-5/6 8PSK		9.4	Abbie 161204
		<u>Canal Once</u>		MPEG-4 PowerVu	201	3510	3511 Sp AC3	
		<u>Fix & Foxi</u>		MPEG-4 PowerVu	202	3520	35.1 G AC3	
		<u>AyM Sports</u>		MPEG-4 PowerVu	203	3530	3531 Sp AC3	
		<u>Latin American Sports USA</u>		MPEG-4 PowerVu	204	3540	541 Sp AC3	
		<u>Latin American Sports Puerto Rico</u>		MPEG-4 PowerVu	205	3550	3551 Sp AC3	
		<u>Telemicro Internacional</u>		MPEG-4 PowerVu	206	3560	3561 Sp AC3	
		<u>Ecuavisa Internacional</u>		MPEG-4 PowerVu	207	3570	3571 Sp AC3	
		<u>CB TV Michoacan</u>		MPEG-4 PowerVu	208	3580	3581 Sp AC3	
		<u>PX Sports</u>		MPEG-4/HD PowerVu	209	3590	3591 Sp AC3	
		<u>Canal 22 Internacional</u>		MPEG-4/HD PowerVu	210	3600	3601 Sp AC3	
		<u>Motorsport TV North America</u>		MPEG-4/HD PowerVu	211	3610	3611 E AC3	
		<u>Motorsport TV Latin America</u>		MPEG-4/HD PowerVu	212	3620	3621 Sp AC3	
4189 H tp 24C3 C 3		<u>The Erotic Networks</u>		DVB-S2	15000-5/6 8PSK		9.4	Kyl 416 160727
		<u>Hustler TV USA</u>		MPEG-2 Digicipher	4		E AC3	
		<u>Manhandle XX.5</u>		MPEG-2 Digicipher	5		E AC3	
		<u>Cheap Thrills</u>		MPEG-2 Digicipher	6		E AC3	
		<u>Xtsy Latin</u>		MPEG-2 Digicipher	7		E AC3	
		<u>Xtsy XXX</u>		MPEG-2 Digicipher	8		E AC3	
		<u>Juicy</u>		MPEG-2 Digicipher	9		E AC3	
		<u>Real</u>		MPEG-2 Digicipher	10		E AC3	
		<u>Penthouse TV</u>		MPEG-2 Digicipher	11		E AC3	
		<u>Xtsy XX.5</u>		MPEG-2 Digicipher	12		E AC3	
		<u>TEN</u>		MPEG-2 Digicipher	13		E AC3	
		<u>Manhandle XXX</u>		MPEG-2 Digicipher	14		E AC3	
		<u>Girlfriends Films</u>		MPEG-2 Digicipher	15		E AC3	
		<u>Hustler HD USA</u>		MPEG-4/HD Digicipher	16		E	

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► Gestión anuncios

TV en vivo

TV West

Key West

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated	
11994 V tp 14K Ku 2		DVB-S	4340-2/3	1-1	M Vallado 161019	
	<u>Esperanza TV</u>	F S MPEG-4	1 3601	3604 Sp		
	<u>Hope Channel</u>	F S MPEG-4	2 3602	3606 E		
	<u>Radio Nuevo Tiempo</u> (Brazil)	F S	3	3704 E		
12028 H tp 17K	(feeds)	DVB-S	2600-?		Pana 130920	

	Ku 2						
12046 H tp 17K Ku 2		Reuters Live	F	DVB-S2 MPEG-4/HD	19200-3/5 8PSK 1 - 3551	?-? 5.5 3552 E AC3	Gdavisloop 161231
12076 H tp 19K Ku 2		Home2US		DVB-S	5787-?		W Tony 170203
		Hwazan Satellite TV	F S		9 273	33 C	
		Taiwan Macroview TV	F S		26 306	307 C	
		BVN TV Amerika	F		27 322	323 Du	
		VRT Radio 1	F S		31	340 Du	
12110 H tp 21K Ku 2		Tele Restauración	F	DVB-S	2170-? 51	52 Sp	O Osuna 090218
12126 V tp 22K Ku 2		(feeds)		DVB-S	6022-?		A Camargo 060717
12136 V tp 22K Ku 2		(feeds)		DVB-S	3255-?		W Frankson 071211
12151 V tp 22K Ku 2		(feeds)		DVB-S	3255-?		Jose 060726
12157 V tp 22K Ku 2		(feeds)		DVB-S	3038-?		W Frankson 070713
12161 H tp 23K Ku 2		Apostolic Oneness Network	F S	DVB-S	1480-3/4 30 - 481	?-? 5.5 482 E	Master Control Room 150730
12165 H tp 23K Ku 2		(feeds)		DVB-S	3333-?		Jose 061215
12165 V tp 24K Ku 2		(feeds)		DVB-S	3255-?		W Frankson 070708
12172 V tp 24K Ku 2		(feeds)		DVB-S	3333-?		Jose 061215
12193 V tp 24K Ku 2		(feeds)		DVB-S	3255-?		Jose 061215
Eutelsat 113 West A © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/Eutelsat-113-West-A.html							

Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Eutelsat 1 15 West B at 1 14.9°W



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Azimuth & elevation in Herndon, Virginia, United States: 230.9° & 30.6°

The EIRP values are for Richmond, Virginia, United States

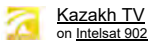
Eutelsat 115 West B © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Eutelsat-115-West-B.html>

Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3780 V C 0		DVB-S2	30000-5/6 QPSK		Moncho Orbita Central 170611
	NBC West	MPEG-2 PowerVu	501 49	50 E AC3	
	FS1	MPEG-2 PowerVu	502 1006	1007 E AC3	
	This TV Network	MPEG-4/HD PowerVu	507 1031	1032 E AC3	
	360 North	S MPEG-2 PowerVu	508 1036	1037 E AC3	
	History W est	MPEG-2 PowerVu	601 210	200 E AC3	
	USA Network W est	MPEG-2 PowerVu	602 500	501 E AC3	
	ESPN US	MPEG-2 PowerVu	603 7680	4128 E AC3	
	ESPN 2 US	MPEG-2 PowerVu	604 1160	1130 E AC3	
	TNT West	MPEG-2 PowerVu	605 2024	2000 E AC3	
	Discovery Channel W est	MPEG-2 PowerVu	606 33	34 E AC3	
	HLN	MPEG-2 PowerVu	607 724	700 E AC3	
	HGTV West	MPEG-2 PowerVu	608 336	337 E AC3	
	TBS West	MPEG-2 PowerVu	609 320	321 E AC3	
	This TV Network	MPEG-2 PowerVu	702 2073	2037 E AC3	
	NBC Sports Network	MPEG-2 PowerVu	703 2071	2066 E AC3	
	FNX	MPEG-2 PowerVu	704 2069	2042 E AC3	
	Disney Channel W est	MPEG-2 PowerVu	705 2063	2062 E AC3	
	Hallmark Channel W est	MPEG-2 PowerVu	706 2060	2059 E AC3	
	Fox News Channel	S MPEG-2 PowerVu	707 2057	2056 E AC3	
	HBO West	MPEG-2 PowerVu	708 2054	2053 E AC3	
	Showtime W est	MPEG-2 PowerVu	709 2051	2050 E AC3	
	Starz West	F MPEG-2	710 2048	2047 E AC3	

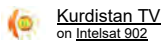
Eutelsat 115 West B © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Eutelsat-115-West-B.html>

Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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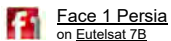
[Kazakh TV](#)
on [Intelsat 902](#)



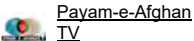
[Kurdistan TV](#)
on [Intelsat 902](#)



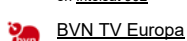
[VTV 4](#)
on [Intelsat 902](#)



[Face 1 Persia](#)
on [Eutelsat 7B](#)



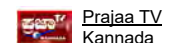
[Payam-e-Afghan TV](#)
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[BVN TV Europa](#)
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Eutelsat 1 17 West A at 1 16.8°W



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114.9°W <C> 118.8°W HD | [SatTracker](#) | [LyngSat Maps](#) 114.9°W <Ku> 118.8°W

Azimuth & elevation in Herndon, Virginia, United States: 232.8° & 29.4°

The EIRP values are for Richmond, Virginia, United States

Eutelsat 117 West A © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Eutelsat-117-West-A.html>














Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 V tp 1 C 37-39	Edusat	DVB-S	27000-3/4	5.5	Abbie 130918
	Telesecundaria	F S	1 33	48 Sp	
	TV Docencia	F S	2 32	49 Sp	
	ILCE Canal 13 Innova	F	3 37	53 Sp	
	UnAD		4 4386	4402 Sp	
	ILCE Canal 15 Summa Saberes	F	5 38	54 Sp	
	Canal 22 Nacional	F	6 39	55 Sp	
	Telebachillerato	F S	7 35	51 Sp	
	Canal de Iberoamericano	F S	8 40	56 Sp	
	Tele México	F	9 41	57 Sp	
	TV Universidad	F	10 42	58 Sp	
	Red de las Artes	F	11 43	59 Sp	
	Aprende TV	F S	12 44	60 Sp	
	Canal del Congreso	F S	13 45	61 Sp	
	Especiales	F	14 46	62 Sp	
	Transmisiones Especiales 27	F	15 36	52 Sp	
	TV UNAM	F	16 47	63 Sp	
3744 V tp 3 C 37-39	INE TV	F	DVB-S2 MPEG-4 2665-3/4 8PSK 2 - 256	?-? 7.9 258 Sp	Abbie 140729
3748 V tp 3 C 37-39	Radio Centro	F S	DVB-S 2100-7/8 2	?-? 7.2 36 Sp	Abbie 130916
3768 V tp 3 C 37-39	Inti Network	F	DVB-S2 MPEG-4/HD 4800-3/4 8PSK 16 - 528	?-? 7.9 784 Sp	R Olivera 151028
3772 V tp 3 C 37-39	Gama TV		DVB-S BISS 3515-3/4 1 - 308	?-? 5.5 256 Sp	Zip 33024 130619
3786 V tp 5 C 37-39	Telecentro (Dominican Republic)	F S	DVB-S MPEG-2 4000-3/4 49	5.5 51 Sp	J Cordero 170303
3793 V tp 5 C 37-39	(feeds)		DVB-S2 4240-3/4 QPSK		Abbie 140729
3798 V tp 5 C 37-39	TPSD		DVB-S2 5225-8/9 8PSK	10.7	J Cordero 170301
	Color V isión 9	F S	MPEG-2 9 1101	1501 Sp	
	Noticias 16	F S	MPEG-2 16 1103	1503 Sp	
	Canal 25	F S	MPEG-2 25 1104	1504 Sp	
	Red Nacional de Noticias	F S	MPEG-2 27 1213	1513 Sp	
	Buenavision TV	F	MPEG-2 30 1205	1505 Sp	
	Sport V isión	F S	MPEG-2 35 1206	1506 Sp	
	Ame 47 TV	F	MPEG-2 47 1211	1511 Sp	
	Naranja TV	F	MPEG-2 60 1218	1518 Sp	
	Santo Domingo TV	F	MPEG-2 69 1215	1515 Sp	
3804 V tp 5 C 37-39	Congreso TV	F	DVB-S2 MPEG-4 1480-5/6 8PSK 1 - 4131	?-? 9.4 4129 Sp	Abbie 140729
3804 H tp 6 C 37-39	Canal Judicial	F S	DVB-S 4000-3/4 1 - 512	?-? 5.5 4112 Sp	Zip 33024 130623
3808 H tp 6 C 37-39	Canal Antigua	F S	DVB-S 2170-3/4 1 - 4194	?-? 5.5 4195 Sp	Abbie 140729











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3820 H tp 6 C 37-39		Canal Uno		DVB-S2 MPEG-4 BISS	2000-3/4 8PSK 1 - 33	?-? 7.9 256 Sp	Zip 33024 130619
3824 H tp 6 C 37-39		Canal 10 (Mexico)	F	DVB-S MPEG-4	1808-3/4 1 - 32	?-? 5.5 33 Sp	Zip 33024 130623
3840 V tp 7 C 37-39				DVB-S2	30000-3/4 8PSK		Abbie 161206
		(feeds)			3900	3910	
		Film & Arts México		MPEG-4 PowerVu	1	100	130 Sp AC3 140 E AC3
		TVC Deportes 2		MPEG-4 PowerVu	2	200	230 Sp AC3
		Mega Sports		MPEG-4 PowerVu	3	300	330 Sp AC3
		Pánico		MPEG-4/HD PowerVu	5	500	540 Sp AC3
		TVC		MPEG-4 PowerVu	7	700	730 Sp AC3
		Video Rola		MPEG-4 PowerVu	8	800	830 Sp AC3
		Pasiones Latinoamérica		MPEG-4 PowerVu	28	2800	2830 Sp AC3 2840 E AC3
		Cine Mexicano (Mexico)		MPEG-4 PowerVu	29	2900	2930 Sp AC3 2940 E AC3
		Pánico		MPEG-4 PowerVu	30	3000	3030 Sp AC3 3040 E AC3
		AMC México		MPEG-4 PowerVu	31	3100	3130 Sp AC3 3140 E AC3
		Platino 2		MPEG-4 PowerVu	32	3200	3230 Sp AC3 3240 E AC3
		Platino		MPEG-4 PowerVu	33	3300	3330 Sp AC3 3340 E AC3
		Más Chic Lationamérica		MPEG-4 PowerVu	34	3400	3430 Sp AC3 3440 E AC3
		Elgourmet		MPEG-4 PowerVu	35	3500	3530 Sp AC3
		Sundance TV Latin America		MPEG-4 PowerVu	36	3600	3630 Sp AC3 3640 E AC3
		Hola! TV		MPEG-4 PowerVu	37	3700	3730 Sp AC3
		NFL Network		MPEG-4 PowerVu	38	3800	3830 Sp AC3 3840 E AC3
3845 H tp 8 C 37-39		Azteca Guatemala		DVB-S MPEG-2 BISS	3460-3/4 768	5.5 769 Sp	J Belisle 170508
3850 H tp 8 C 37-39		El Financiero Bloomberg	F	DVB-S2 MPEG-4/HD	5000-5/6 8PSK 100	9.4 1.1 Sp AC3	J Velasquez 161222
3853 H tp 8 C 37-39		UCSG TV	F S	DVB-S2 MPEG-4	1667-3/4 8PSK 1 - 101	?-? 7.9 256 Sp	Abbie 140729
3868 V tp 9 C 37-39				DVB-S2	8131-3/4 8PSK		Abbie 161203
		PX Sports	F	MPEG-4/HD	1	2001	3001 Sp AC3
		Trace Sport Stars		MPEG-4/HD BISS	2	2002	3002 E 4002 E AC3
3883 H tp 10 C 37-39		TV Manabita	F	DVB-S2 MPEG-4	1350-3/4 8PSK 1 - 4113	?-? 7.9 4352 Sp	Zip 33024 130619
3885 H tp 10 C 37-39		[RTC test card]		DVB-S	1481-3/4 2 - 33	?-? 5.5 36 Sp	Abbie 140729
3888 V tp 9 C 37-39		Telerama (Ecuador)	F S	DVB-S2 MPEG-4	1480-2/3 8PSK 1 - 101	?-? 6.6 256 Sp	Abbie 130916
3889 H tp 10 C 37-39		[RTC test card]		DVB-S	4181-3/4 2 - 33	?-? 5.5 36 Sp	Abbie 140729
3890 V tp 9 C 37-39		Telefuturo (Dominican Republic)	F S	DVB-S MPEG-4	1475-3/4 258	5.5 512 Sp	J Cordero 170407
3897 V tp 9 C 37-39		Canela TV	F S	DVB-S MPEG-4	1480-3/4 1 - 101	?-? 5.5 256 Sp	Abbie 140729
3899 H tp 10 C 37-39		CorTV	F	DVB-S2 MPEG-4	4167-3/4 2 - 50	?-? 51 Sp	J Sandoval 150817
		Oaxaqueña Radio Aro FM	F S			52 Sp	
		Global 96.9 Aro FM	F S			53 Sp	
3903 H tp 10 C 37-39		UNAH UTV	F S	DVB-S2 MPEG-4	1480-5/6 8PSK 1 - 258	?-? 9.4 257 Sp	Abbie 140801
3903 V tp 11 C 37-39		La Voz de María	F S	DVB-S	2200-7/8 1 - 308	?-? 7.2 256 Sp	Luis Alberto Rosario 120326
3905 H tp 10 C 37-39		Teleceiba	F S	DVB-S2 MPEG-4	1600-3/4 QPSK 1 - 481	?-1 4.0 482 Sp	Abbie 140729

3908 H tp 10 C 37-39		Canal Antigua	F S	DVB-S	2170-3/4 1 - 4194	?-? 5.5 4195 Sp	R Lorencez 080901
3911 H tp 10 C 37-39		Vea Canal	F S	DVB-S	2500-3/4 1 - 128	?-? 5.5 144 Sp	Abbie 140729
3916 H tp 10 C 37-39		IPN	F	DVB-S	1520-3/4 1 - 4450	?-? 5.5 4195 Sp	Abbie 140729
3920 V tp 11 C 37-39		MW Network		Digicipher 2	7320-3/4	258-?	Abbie 140729
		Movie World			1 235	Sp	
		Momentum			2 239	Sp	
		Beverly Hills Movies			3 245	Sp	
3926 V tp 11 C 37-39		Globo TV	F S	DVB-S	2222-3/4 1 - 308	?-? 5.5 256 Sp	O Ponce 130918
		Radio Globo Honduras	F S			37 Sp	
3930 V tp 11 C 37-39		Teleuniverso (Dominican Republic)	F S	DVB-S MPEG-4	2310-7/8 1 - 128	?-? 7.2 144 Sp	Abbie 140729
3932 V tp 11 C 37-39		Mas TV Canal 54	F	DVB-S2 MPEG-4	1447-3/4 8PSK 1 - 4113	?-? 7.9 4352 Sp	WJS 141227
3940 H tp 12 C 37-39		Televisa Networks		Digicipher 2	29270-3/4	754-?	Abbie 140801
		De Película			1 1	Sp	
		Golden			2 2	Sp	
		Golden Edge			3 3	Sp	
		Unicable			4 4	Sp	
		TeleHit			5 5	Sp	
		RMS			6 6	Sp	
		Bandamax			7 7	Sp	
		11novelas América			8 8	Sp	
		Las Estrellas México			9 9	Sp	
		Foro TV (Mexico)			10 10	Sp	
		Canal 5 (Mexico City)			11 11	Sp	
		Gala TV (Mexico)			12 12	Sp	
		Tiin			13 13	Sp	
		Las Estrellas México +2			14 14	Sp	
3949 V tp 13 C 37-39		Honduras mux		DVB-S2	11250-3/4 8PSK	7.9	D Dragos 170522
		Canal 11 (Honduras)	F	MPEG-4	55	54 Sp AC3	
		TVH	F	MPEG-4	68	67 Sp AC3	
		CCI Channel	F S	MPEG-4	72	71 Sp AC3	
		FFAA TV	F	MPEG-4	81	80 Sp AAC	
		Nuevo Mundo	F S	MPEG-4	89	88 Sp AC3	
		Canal 11 (Honduras)	F	HEVC/HD	96	97 Sp AAC	
		CHTV	F S	MPEG-4	4110	62 Sp AC3	
		DTV (Honduras)	F	MPEG-4	1 611	631 Sp AC3	
		Si TV	F S	MPEG-4	2 711	731 Sp AC3	
		Mi Viña Channel	F S	MPEG-4	3 831	811 Sp AC3	
		HCH	F S	MPEG-4	6 880	881 Sp AC3	
		Waldivisión Internacional	F S	MPEG-4	7 813	832 Sp AC3	
		Todo Deportes TV	F S	MPEG-4	12 47	46 Sp AC3	
		TeleProgreso	F S	MPEG-4	13 65	64 Sp AC3	
		JBN TV	F	MPEG-4	15 70	69 Sp AC3	
		Radio Globo Honduras	F S			50 Sp AC3	
		HCH Radio	F S			63 Sp AC3	
		Radio Visión Honduras	F			625 Sp AC3	
		Musiguera	F S		10	52 Sp AC3	
3957 V tp 13 C 37-39		Honduras mux		DVB-S2	1595-3/4 8PSK		D Dragos 170523
		Todo Deportes TV	F S	MPEG-4	47	46 Sp AC3	
		Canal 11 (Honduras)	F	MPEG-4	55	54 Sp AC3	
		TeleProgreso	F S	MPEG-4	65	64 Sp AC3	
		TVH	F	MPEG-4	68	67 Sp AC3	
		JBN TV	F	MPEG-4	70	69 Sp AC3	
		CCI Channel	F S	MPEG-4	72	71 Sp AC3	
		FFAA TV	F	MPEG-4	81	80 Sp AAC	
		Nuevo Mundo	F S	MPEG-4	89	88 Sp AC3	
		Canal 11 (Honduras)	F	HEVC/HD	96	97 Sp AAC	
		DTV (Honduras)	F	MPEG-4	611	631 Sp AC3	
		Si TV	F S	MPEG-4	711	731 Sp AC3	
		Waldivisión Internacional	F S	MPEG-4	813	832 Sp AC3	

		<u>Mi Vía Channel</u>	F S	MPEG-4	831	811 Sp AC3	
		<u>HCH</u>	F S	MPEG-4	880	881 Sp AC3	
		<u>CHTV</u>	F S	MPEG-4	41.0	62 Sp AC3	
		<u>Radio Globo Honduras</u>	F S			50 Sp	
		<u>Musiquera</u>	F S			52 Sp AC3	
		<u>HCH Radio</u>	F S			63 Sp AC3	
		<u>Radio Visión Honduras</u>	F			625 Sp AC3	
3960 V tp 13 C 37-39		<u>CB TV México</u>	F	DVB-S2 MPEG-4	1595-5/6 8PSK 1 - 513	7-? 9.4 4112 Sp	Abbie 140729
3962 V tp 13 C 37-39		<u>NTV</u> (Guatemala)	F	DVB-S2 MPEG-4/HD	1800-3/4 QPSK 1 - 101	7-? 4.0 102 Sp	Abbie 130918
3968 V tp 13 C 37-39		<u>Ecuavisa</u>		DVB-S	7500-3/4	5.5	Abbie 140729
		<u>Ecuavisa</u>		BISS	1 308	256 Sp	
		<u>Ecuavisa Internacional</u>		BISS	2 309	258 Sp	
3969 H tp 14 C 37-39		<u>Monte María TV</u>	F S	DVB-S2 MPEG-4	1100-3/4 QPSK 1 - 32	7-? 4.0 33 Sp	Abbie 140729
3975 H tp 14 C 37-39		<u>Honduras mux</u>		DVB-S2	2170-3/4 8PSK	7.9	J Belisle 150810
		<u>Congreso TV</u>	F	MPEG-4	37	38 Sp	
		<u>TV Nacional de Honduras</u>	F S	MPEG-4	1 33	4112 Sp	
3976 V tp 13 C 37-39		<u>RTG</u>	F S	DVB-S	2666-3/4 1 - 4194	7-? 5.5 4195 Sp	Abbie 140729
3984 V tp 15 C 37-39		<u>NTR Canal 44</u>	F	DVB-S	3100-3/4 1 - 33	7-? 5.5 34 Sp	Abbie 130918
4009 V tp 15 C 37-39		<u>Dominican Republic mux</u>		DVB-S	6379-3/4	5.5	RDSantiago 110713
		<u>Telesistema</u>	F S		1 58	59 Sp	
		<u>Tele Antillas</u>	F S		2 34	35 Sp	
		<u>Coral 39</u>	F		3 42	43 Sp	
4014 H tp 16 C 37-39				DVB-S2	17600-5/6 8PSK		J Belisle 170508
		<u>Claro Cinema</u>		MPEG-4/HD	32	33 Sp	
		<u>Claro Sports</u>		MPEG-4/HD	36	35 Sp	
		<u>Concert Channel</u>		MPEG-4/HD	39	38 E AC3	
		<u>Canal Claro</u>		MPEG-4/HD	42	41 Sp	
4015 V tp 15 C 37-39		<u>Ecuador TV 7</u>	F	DVB-S	3000-3/4 1 - 512	7-? 5.5 4112 Sp	Abbie 140729
4031 V tp 17 C 37-39		<u>Dominican Republic mux</u>		DVB-S	15200-5/6	6.5	Abbie 140801
		<u>Telemicro Canal 5</u>	F S		1 308	256 Sp	
		<u>Digital 15</u>	F S		2 512	650 Sp	
		<u>Telemicro Internacional</u>	F		3 309	258 Sp	
		<u>Independencia FM</u>	F		1	257 Sp	
		<u>Primera FM</u>	F		2	660 Sp	
4044 H tp 18 C 37-39		<u>Panamericana TV</u>	F S	DVB-S	3333-3/4 1 - 1160	7-? 5.5 1120 Sp	M Torres 170208
4049 H tp 18 C 37-39		<u>México Gobierno Federal</u>		DVB-S	3330-3/4	5.5	Abbie 140729
		[México Gobierno Federal test card]			1 512	4114	
		[México Gobierno Federal test card]			2 274	4113	
4052 V tp 17 C 37-39		<u>TV Méxicuense</u>		DVB-S2	5146-3/4 8PSK	7.9	M Valdez 160204
		<u>TV Méxicuense</u>	F S	MPEG-2/HD	49	51 Sp	
		<u>+ Méxicuense</u>	F	MPEG-4/HD	65	67 Sp	
		<u>Radio Méxicuense 91.1 FM</u>	F			68 Sp	
		<u>Radio Méxicuense 1600 AM</u>	F			69 Sp	
4057 V tp 17 C 37-39		<u>CB TV Michoacan</u>	F	DVB-S2	1596-5/6 8PSK 513	9.4 4112 Sp	G Gallardo 151015
4064 H tp 18 C 37-39				Digicipher 2	19510-3/4	560-?	Abbie 140729
		<u>Canal del Congreso</u>	F S		1 1	Sp	
		<u>Canal Once</u>			2 2	Sp	
		<u>Canal Judicial</u>	F S		3 3	Sp	
		<u>Gobierno de la República</u>	F		4 4	Sp	
		<u>Canal Once</u>	F		5 5	Sp	

4075 H tp 18 C 37-39		Cemesatel (Wed 10.30-13.30)	F	DVB-S	2962-3/4 100	5.5 110 Sp	A Camargo 060719
4084 H tp 20 C 37-39		Guatevisión	F S	DVB-S	3162-7/8 1 - 768	7-7 7.2 769 Sp	RDSantiago 110713
4090 H tp 20 C 37-39		El Financiero Bloomberg		DVB-S2	5000-5/6 8PSK	9.4	Fubar 140919
		El Financiero Bloomberg	F	MPEG-4/HD	1 100	110 Sp	
		El Financiero Bloomberg	F	MPEG-2	2 8000	8001 Sp	
4098 H tp 20 C 37-39		Tele Ciudadana	F	DVB-S	3200-2/3 1010	4.4 512 Sp	M Torres 170214
4103 H tp 22 C 37-39		Ecuavisa Quito	F	DVB-S2 MPEG-4	1600-2/3 8PSK 1 - 101	7-7 6.6 256 Sp	Abbie 140729
4106 H tp 20 C 37-39		Telesur (Mexico)	F	DVB-S	3200-2/3 1 - 512	7-7 4.4 1010 Sp	Abbie 140729
4109 H tp 20 C 37-39		México Travel Channel	F S	DVB-S2 MPEG-4	2885-3/4 QPSK 1 - 4113	7-7 4.0 4352 Sp	Abbie 140729
4116 H tp 20 C 37-39		TV Arquidiocesana	F S	DVB-S2 MPEG-4	2500-3/4 8PSK 616	7.9 4320 Sp	J Estuardo 160825
4120 V tp 21 C 37-39				DVB-S2	30000-5/6 8PSK		WJS 160314
		Flow Sports	F	MPEG-4	241	242 E	
		Nacion TV Internacional	S	MPEG-4 Digicipher	10 4084	260 Sp	
4134 H tp 22 C 37-39		Ecuador TV		DVB-S	4400-3/4	5.5	Abbie 140729
		Ecuador TV 7	F		1 512	1010 Sp	
		Ecuador TV Internacional	F S		2 514	4112 Sp	
4152 H tp 22 C 37-39							M Torres 170212
4155 H tp 22 C 37-39		Oromar TV	F S	DVB-S2 MPEG-4	1480-3/4 8PSK 1 - 101	7-7 7.9 256 Sp	Abbie 140729
4175 H tp 24 C 37-39		RTV	F S	DVB-S2 MPEG-4	1850-7 8PSK 49	50 Sp	R Díaz 150308
4178 H tp 24 C 37-39		Azteca Honduras	F	DVB-S2	2800-3/4 8PSK 1 - 611	7-7 7.9 631 Sp	Abbie 140729
4189 H tp 24 C 37-39		Edusat		Digicipher 2	9760-3/4	459-7	Abbie 140729
		Telesecundaria	F S		1 11	Sp	
		TV Docencia	F S		2 12	Sp	
		(Edusat feeds)			3 13		
		(Edusat feeds)			4 14		
		(Edusat feeds)			5 15		
		TV UNAM	F		7 17	Sp	







Eutelsat 117 West A © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Eutelsat-117-West-A.html>





► Gestión anuncios

TV en vivo

TV West

7 Azteca canal TV vivo

Eutelsat 117 West A © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/Eutelsat-117-West-A.html							
Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11733 V tp 2 Ku 1		Star TV México	P	DVB-S2 MPEG-4 Irdeto	9000-3/4 8PSK	7.9	StarTVuser 170126
11980 V tp 14 Ku 1		Star TV México	P	DVB-S2 MPEG-4 Irdeto	30000-3/4 8PSK	7.9	J Toro 170701
12020 V tp 16 Ku 1		Star TV México	P	DVB-S2 MPEG-4 Irdeto	30000-3/4 8PSK	7.9	StarTVuser 170205
12060 V tp 18 Ku 2		Tigo	P	DVB-S Conax	30000-3/4	5.5	J Toro 150416
		Tigo promo			40	39 Sp	
12080 H tp 19 Ku 2		Tigo	P	DVB-S Conax	30000-3/4	5.5	J Toro 170701
12100 V tp 20 Ku 2		Tigo	P	DVB-S Conax	29000-3/4	5.5	P Seguin 150115

12123 V tp 22 Ku 2		Tele Vida Abundante		DVB-S2 MPEG-4	3078-3/4 8PSK 1 - 4131	?-? 7.9 4129 Sp	Moncho Orbita Central 160411
12184 H tp 23 Ku 2		XEWT 12		DVB-S2 MPEG-4 BISS	1680-3/4 8PSK 1 - 101	?-? 7.9 201 Sp	Moncho Orbita Central 160411
12189 H tp 23 Ku 2		XEWT 12		DVB-S BISS	1660-7/8 101 - 101	?-? 7.2 201 Sp	Fubar 140405

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Anik F3 at 1 18.8°W



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[116.8°W <C> 121.0°W](#) | [HD](#) | [SatTracker](#) | [LyngSat Maps](#) | [116.8°W <Ku> 121.0°W](#)

[Anik F3 & EchoStar 14 & DirecTV 7S](#) | [Anik F3](#) | [DirecTV 7S](#) | [EchoStar 14](#)

Azimuth & elevation in Herndon, Virginia, United States: 234.7° & 28.0°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3934 H tp 6A North America C 42		Univisión	DVB-S	5714-3/4	5.5	Abbie 121001
		KUKC-TV (Univisión - Kansas City)	F	1 101	102 Sp	
		WUVF-TV (Univisión - Naples)	F	2 201	202 Sp	
		WUMN-TV (Univisión - Minneapolis)	F	3 301	302 Sp	

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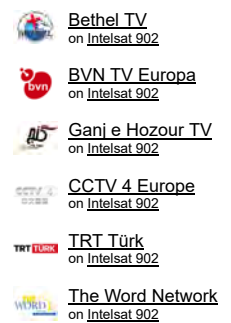
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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11715 R tp 1 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-701 5.5	NK 170908
11728 L tp 2 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-702 5.5	D de Jong 170524
11745 R tp 3 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-703 5.5	NK 170220
11758 L tp 4 North America Ku 51-52		Dish USA	P DVB-S MPEG-4 Nagravision 3	20000-3/4	4097-704 5.5	B Eckart 120809
11776 R tp 5 North America Ku 51-52		Dish USA	P DVB-S MPEG-4 Nagravision 3	20000-3/4	4097-705 5.5	B Eckart 140327
11789 L tp 6 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-706 5.5	NK 170220
11806 R tp 7 North America Ku 51-52		Dish USA [You have a Dish at 1 18.7° info card]	P DVB-S Nagravision 3	20000-3/4	4097-707 5.5	NK 170223
11819 L tp 8 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-708 5.5	NK 170220
11837 R tp 9 North America Ku 51-52		Dish USA	P DVB-S MPEG-4 Nagravision 3	20000-3/4	4097-709 5.5	B Eckart 120809
11850 L tp 10 North America Ku 51-52		Dish USA	P DVB-S MPEG-4 Nagravision 3	20000-3/4	4097-710 5.5	B Eckart 140327
11867 R tp 11 North America Ku 51-52		Dish USA	P DVB-S MPEG-4 Nagravision 3	20000-3/4	4097-711 5.5	B Eckart 140327
11880 L tp 12 North America Ku 51-52		Dish USA	P DVB-S Nagravision 3	20000-3/4	4097-712 5.5	NK 170908
11898 R		Dish USA	P DVB-S	20000-3/4	4097-713	B Eckart

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News at LyngSat:



tp 13 <u>North America</u> Ku 51-52				Nagravision 3		5.5	140816
11911 L tp 14 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-714 5.5	NK 170908
11928 R tp 15 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-715 5.5	NK 170908
11959 R tp 17 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S MPEG-4/HD Nagravision 3	20000-3/4	4097-717 5.5	NK 170220
11972 L tp 18 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-718 5.5	NK 170220
11989 R tp 19 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-719 5.5	NK 170908
12002 L tp 20 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-720 5.5	NK 170908
12020 R tp 21 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-721 5.5	NK 170220
12033 L tp 22 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-722 5.5	NK 170908
12050 R tp 23 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S MPEG-4/HD Nagravision 3	20000-3/4	4097-723 5.5	NK 170220
12063 L tp 24 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-724 5.5	NK 170908
12081 R tp 25 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-725 5.5	NK 170220
12094 L tp 26 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-726 5.5	NK 170908
12111 R tp 27 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-727 5.5	NK 170220
12124 L tp 28 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-728 5.5	NK 170908
12142 R tp 29 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-729 5.5	NK 170908
12155 L tp 30 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-730 5.5	NK 170908
12172 R tp 31 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S Nagravision 3	20000-3/4	4097-732 5.5	NK 170223
12185 L tp 32 <u>North America</u> Ku 51-52		<u>Dish USA</u>		DVB-S MPEG-4/HD Nagravision 3	20000-3/4	4097-732 5.5	NK 170908
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Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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EchoStar 9/Galaxy 23 at 121.0°W









Atlantic Main | America | America **P** | America **HD** | America **UHD** | **UHD** | **Headlines** | **Launches** Asia
 118.8°W <C> 123.0°W HD | SatTracker | LyngSat Maps 119.0°W <Ku> 123.0°W

Azimuth & elevation in Herndon, Virginia, United States: 236.7° & 26.5°

The EIRP values are for Richmond, Virginia, United States

EchoStar 9/Galaxy 23 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/EchoStar-9-Galaxy-23.html>

EchoStar 9/Galaxy 23 © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/EchoStar-9-Galaxy-23.html									
Frequency Beam EIRP (dBW)		Provider Name Channel Name		System Encryption	SR-FEC SID-VPID		ONID-TID C/N lock APID Lang.	Source Updated	
3721 H tp 1 C 42		Cox Sports TV		DVB-S PowerVu	4340-7/8 1 - 1160		7-7 7.2 1120 E 1124 E AC3	F Miata 160618	
3732 V tp 2 C 42		MASN		DVB-S2	14400-8/9 8PSK		10.7	Abbie 140705	
		MASN Baltimore		MPEG-4 PowerVu	100	100	101 E AC3		
		MASN Washington		MPEG-4 PowerVu	110	110	111 E AC3		
		MASN 2 Baltimore		MPEG-4 PowerVu	120	120	121 E AC3		
		MASN 2 Washington		MPEG-4 PowerVu	130	130	131 E AC3		
3780 V tp 4 C 42		Level 3		DVB-S	29270-7/8		781-4096 7.2	P Parente 170606	
		Sino TV	F		6	600	610 C AC3		
		ViendoMovies Este		PowerVu	7	700	710 Sp 711 Sp AC3		
		ViendoMovies Oeste		PowerVu	8	800	810 Sp 811 Sp AC3		
		Semillitas TV	F		10	1000	1010 Sp		
		EuroNews English	S	PowerVu	55	300	29. E AC3		
		RT Español	F S		113	3130	3131 Sp 3132 Sp AC3		
		UTV Movies International		Irdeto	114	3140	3141 Hi		
		3800 H tp 5 C 42		Encompass		Digicipher 2	19510-3/4		36-?
	[Encompass test card]				4	269			
	Mnet America		F		5	415	E		
	KBS World		F S		6	119	K		
	NTD TV East		F S		7	313	E		
	[Encompass test card]				8	906			
3820 V tp 6 C 42		OlympuSat	P	Digicipher 2	29270-3/4		546-?	E Bressler 161107	
		Enlace	F S		5	105	E		
		On TV 4U	F		6	106	E		
		Shop LC	F S		10	110	E		
		[test card]			12	112			
		Gem Shopping Network	F S		14	114	E		
3840 H tp 7 C 42		MX1		DVB-S2	30000-5/6 8PSK		9.4	Abbie 161110	
		Willow		MPEG-4 PowerVu	1	2001	3001 E AC3		
		3ABN International	F S	MPEG-2	2	2002	3002 E		
		Fntsy Sports Network		MPEG-4 PowerVu	3	2003	3003 E		
		Fight Network		MPEG-4 PowerVu	4	2004	3004 E		
		Vibrant TV Network		MPEG-4 BISS	5	4096	4097 E		
		The Israeli Network		MPEG-2 Viaccess	6	2006	3006 He		
		RT America	F S	MPEG-4/HD	7	2007	4007 E		
		Tempo		MPEG-4 PowerVu	8	2008	3008 E AC3		
		RT Español	F S	MPEG-4/HD	9	2009	4009 Sp		
		Baby TV Latin America		MPEG-4 Viaccess	13	2013	3013 Sp		
		Youtoo America		MPEG-4/HD BISS	14	2014	3014 E AC3		
		Rai Italia America		Irdeto	15	2015	3015 I 4015 I AC3		
		RT D	F S	MPEG-4/HD	17	2017	4017 E		
		Rai Radio 1	F S		16		3016 I		

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TV Klodzka

TV Master

Prajaa TV
Kannada

Rakshana TV

Málaga 24h

TV Zabrze

News at LyngSat:

ENTV
on Intelsat 902








Payam-e-Afghan
TV
on Intelsat 902







Vozrozhdeniye
on Intelsat 902

Thai TV Global
Network
on Intelsat 902

Bethel TV
on Intelsat 902

VTV 4
on Intelsat 902

3877 H tp 9 C 42		HITN		DVB-S	4444-3/4		5.5	E de Lauter 090722
		HITN	F		1	256	257 Sp AC3	
		(HITN feeds)			10	512	513	
3889 H tp 9 C 42		MX1		DVB-S	13020-3/4		5.5	N Ari 140511
		BabyFirst TV		Viaccess 2.5 Viaccess 2.6	1	2002	3002 E 5002 E AC3	
		Micasa Network	F	MPEG-4	4	2004	3004 E	
		ETTV Global	F		5	2005	3005 C 4005 C AC3	
		EBC News	F S		6	2006	3006 C 4006 C AC3	
		ET Super	F		7	2007	3007 C 4007 C AC3	
		Baby TV Latin America		Viaccess 2.6	12	2012	3012 E 4012 Sp	
3910 H tp 11 C 42		MX1		DVB-S2	14400-3/4 8PSK		7.9	C Rosler 160203
		Fashion One Latin America	F	MPEG-4/HD	1	2001	3001 Sp	
		ET East	F	MPEG-4	2	2002	3002 C	
		ET Super	F	MPEG-4	3	2003	3003 C	
3980 V tp 14 C 42		Level 3		DVB-S	29270-7/8		782-? 7.2	P Parente 150922
		Z ETC Bollywood		PowerVu	102	3020	3021 Hi 3022 Hi AC3	
		Z Living USA		MPEG-4/HD PowerVu	103	3030	3031 E AC3	
		Telefe Internacional		PowerVu	104	3040	3041 Sp AC3	
		Zee TV USA		MPEG-4/HD Conax	105	3050	3051 Hi AC3	
		Zee TV USA		PowerVu	106	3060	3061 Hi AC3	
		SET Asia		PowerVu	107	3070	3071 Hi AC3	
		Vivid TV		PowerVu	108	3080	3081 E AC3	
		Jewish Life TV	F S		109	3090	3091 E AC3 3092 E	
		Estrella TV East		PowerVu	110	3101	3102 Sp	
		Estrella TV West		PowerVu	111	3111	3112 Sp	
		(feeds)			120	3200	3201	
4000 H tp 15 C 42		Encompass		Digicipher 2	19510-3/4		35-?	Abbie 140705
		Bang U XX.5			3	301	E	
		Brazzers TV XX.5			4	400	E	
		FM			5	500	Sp	
		Playboy TV USA			6	600	E	
		Tennis Channel			7	305	E	
		Playboy TV en Español			8	069	Sp	
		CRN 1	F S		9	521	E	
		CRN 2	F S		10	522	E	
		CRN 3	F S		11	523	E	
		CRN 4	F S		12	524	E	
		CRN 5	F S		13	525	E	
		CRN 6	F S		14	526	Sp	
		CRN 7	F S		16	527	Sp	
4011 V tp 16 C 42		The Erotic Networks		DVB-S2	15000-5/6 8PSK		9.4 AC3	M McCaskill 140925
		Hustler TV USA		MPEG-2 Digicipher	4	80	81 E AC3	
		Manhandle XX.5		MPEG-2 Digicipher	5	144	145 E AC3	
		Cheap Thrills		MPEG-2 Digicipher	6	272	273 E AC3	
		Xtsy Latin		MPEG-2 Digicipher	7	336	337 E AC3	
		Xtsy XXX		MPEG-2 Digicipher	8	400	401 E AC3	
		Juicy		MPEG-2 Digicipher	9	592	593 E AC3	
		Real		MPEG-2 Digicipher	10	208	209 E AC3	
		Penthouse TV		MPEG-2 Digicipher	11	464	465 E AC3	
		Xtsy XX.5		MPEG-2 Digicipher	12	528	529 E AC3	
		TEN		MPEG-2 Digicipher	13	571	572 E AC3	
		Manhandle XXX		MPEG-2 Digicipher	14	656	657 E AC3	
		Girlfriends Films		MPEG-2 Digicipher	15	608	609 E AC3	
4033 V tp 16 C 42		United Teleports		DVB-S	8333-5/6		6.5	Abbie 140705
		V me Kids	F	MPEG-2	1	101	102 Sp AC3	
		Canal Sur (USA)	F	MPEG-2	2	611	631 Sp AC3	
		Sur Perú	F	MPEG-2	3	711	731 Sp AC3	
		México TV	F	MPEG-2	4	811	831 Sp AC3	

		Estudio 5	F	MPEG-4	5	34	256 Sp AC3	
		(feeds)			6	258	257	
4050 V tp 18 C 42		The California Channel	F	DVB-S	2590-3/4 1 - 1110		2-2 5.5 1212 E AC3	B Chester 121118
4055 V tp 18 C 42		Biz TV (USA)	F	DVB-S	6510-3/4 4444 - 190		2-1 5.5 192 E	V Kopertehov 160206
4080 H tp 19 C 42		OlympuSat	P	DVB-S2 MPEG-4/HD Digicipher	30000-5/6 8PSK		9.4	E Bressler 161109
		[test card]		MPEG-2	316			
4100 V tp 20 C 42		OlympuSat	P	Digicipher 2	29270-3/4		740-?	E Bressler 161107
		TBN US	F S		7	207	E	
		Hillsong Channel	F S		8	208	E	
		Juce TV	F S		9	209	E	
		Smile TV	F S		10	210	E	
		SBN Domestic	F S		12	212	E	
		God TV US	F		14	214	E	
		EWTN US	F S		15	215	E	
4115 H tp 21 C 42		Jewelry TV		DVB-S	18085-3/4		5.5	D Brockwell 130930
		Jewelry TV	F S	MPEG-2/HD	512		514 E AC3	
		Jewelry TV	F S		4130		4133 E AC3	
4140 V tp 22 C 42				DVB-S2	30000-5/6 8PSK			Abbie 161221
		Beln Sports USA		MPEG-4/HD PowerVu	1	1001	1002 E AC3	
		Beln Sports en Español		MPEG-4/HD PowerVu	2	2001	2002 Sp AC3	
		Pasiones Estados Unidos	F	MPEG-4	3	101	256 Sp AC3	
		Centroamérica TV	F	MPEG-4	4	4384	4385 Sp AC3	
		TV Dominicana	F	MPEG-4	5	4896	4897 Sp AC3 4898 Sp	
		TyC Sports		MPEG-4/HD PowerVu	7	71	72 Sp AC3	
		Cinema Dinamita		MPEG-2 PowerVu	32	320	321 Sp AC3	
		Hola! TV		MPEG-4/HD PowerVu	53	531	532 Sp AC3	
		Semillitas TV		MPEG-4 PowerVu	71	711	712 Sp AC3	
		ViendoMovies Este		MPEG-4 PowerVu	72	721	722 Sp AC3	
		ViendoMovies Oeste		MPEG-4 PowerVu	73	731	732 Sp AC3	
		Atreseries		MPEG-4/HD PowerVu	411	4111	4112 Sp AC3	
		Antena 3 Internacional		MPEG-4/HD PowerVu	413	4131	4132 Sp AC3	
4192 V tp 24 C 42		RTVE		DVB-S	11070-5/6		6.5	F Alves 160217
		TVE Internacional América 1			11	4368	4369 Sp	
		Canal 24 Horas	S		12	4384	4385 Sp	
		TVE Star HD		MPEG-4/HD	13	4432	4433 Sp AC3	
		TVE Internacional América 2			14	4416	4417 Sp	
		RNE Radio Nacional	F S		201		35 Sp	
		RNE Radio Clásica	F S		202		36 Sp	
		RNE Radio 3	F S		203		46 Sp	
		Radio Exterior	F S		204		47 Sp	
		RNE Radio 5	F S		205		49 Sp	






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AdChoices

Live Satellite

Channel Free HD Live TV

Galaxy Live

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11715 V tp 1 Ku 45		(feeds)	DVB-S	6510-?		G Campbell 080513
11724 V tp 1 Ku 45		(feeds)	DVB-S	6510-?		G Campbell 080513
11899 V tp 13 Ku 45		<u>Dish USA</u>	 DVB-S Nagravision 3	20000-3/4	4106-513 5.5	B Eckart 130922
11928 V tp 15 Ku 45		<u>Dish USA</u>	 DVB-S Nagravision 3	20000-3/4	4106-515 5.5	B Eckart 131111
11943 H tp 16		<u>Dish USA</u>	 DVB-S HD	20000-3/4	4106-516 5.5	N Berdos 120114

	Ku 45	dish			Nagravision 3			
11957 V	tp 17 Ku 45	dish	Dish USA	P	DVB-S HD Nagravision 3	20000-1/2	4106-517 2.7	B Eckart 101115
11990 H	tp 18 Ku 45		[EchoStar test card]		DVB-S	20000-3/4 1021	5.5 1022	A Flores 140524
12016 V	tp 21 Ku 45	dish	Dish USA	P	DVB-S Nagravision 3	20000-3/4	4106-521 5.5	A Flores 140524
12045 V	tp 23 Ku 45	dish	Dish USA	P	DVB-S Nagravision 3	20000-3/4	4106-523 5.5	B Eckart 130922
12167 H	tp 32 Ku 45		(feeds)		DVB-S	6000-?		G Campbell 080420
12171 V	tp 31 Ku 45		[EchoStar test card]		DVB-S	5800-3/4 ? - 1021	65535-1 5.5 .022	P Smith 111002
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Galaxy 18 at 123.0°W

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Azimuth & elevation in Herndon, Virginia, United States: 238.5° & 25.1°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
4020 H tp 16 C 45.7-46.7	Pac-12	DVB-S2	30000-5/6 8PSK	9.4 AC3	Abbie 121116
	Pac-12 Networks	MPEG-4 PowerVu	1 110	100 E AC3	
	Pac-12 Arizona	MPEG-4 PowerVu	2 210	200 E AC3	
	Pac-12 Los Angeles	MPEG-4 PowerVu	3 310	300 E AC3	
	Pac-12 Bay Area	MPEG-4 PowerVu	4 410	400 E AC3	
	Pac-12 Oregon	MPEG-4 PowerVu	5 510	500 E AC3	
	Pac-12 Washington	MPEG-4 PowerVu	6 610	600 E AC3	
	Pac-12 Mountain	MPEG-4 PowerVu	7 710	700 E AC3	
4040 V tp 17 C 45.7-46.7	Viacom Media Networks PSM 3	Digicipher 2	29270-3/4	766-?	Kyl 416 150331
	Logo W est		1 160	E	
	MTV 2 West		2 260	E	
	MTV Classic W est		3 360	E	
	TeenNick W est		4 460	E	
	Nicktoons W est		5 560	E	
	Spike TV Canada		6 1.0	E	
	MTV U East		7 270	E	
	Aapka Colors		8 370	Hi	
	Nick Jr W est		11 660	E	
4100 H tp 20 C 45.7-46.7	ESPN Bristol Pod	Digicipher 2	29270-3/4	666-?	Abbie 140731
	ESPNNews		1 1	E	
	Disney XD East		4 4	E	
	ABC News Now		10 10	E	
4120 V tp 21 C 45.7-46.7	ESPN College Extra	Digicipher 2	29270-3/4	639-?	Kyl 416 150723
	ESPN College Extra 1		801	E	
	ESPN College Extra 2		802	E	
	ESPN College Extra 3		803	E	
	ESPN College Extra 4		804	E	
	ESPN College Extra 5		805	E	
	ESPN College Extra 6		806	E	
	ESPN College Extra 7		807	E	
	ESPN College Extra 8		808	E	
4140 H tp 22 C 45.7-46.7	ESPN	DVB-S2	30000-5/6 8PSK	9.4 AC3	Abbie 140716
	ESPNNews	MPEG-4/HD Digicipher	44 65	66 E AC3	
	ESPNU	MPEG-4/HD Digicipher	45 69	70 E AC3	
	ESPN Deportes	MPEG-4/HD Digicipher	47 74	7. Sp AC3	
	ESPN Goal Line	MPEG-4/HD Digicipher	48 78	79 E AC3	
	ESPN Buzzer Beater	MPEG-4/HD Digicipher	48 78	79 E AC3	
	Longhorn Network	MPEG-4/HD Digicipher	49 82	83 E AC3	
	SEC Network promo	MPEG-4/HD Digicipher	50 86	87 E AC3	
4176 H tp 24 C 45.7-46.7		DVB-S	20000-3/4		Fubar 160415
	Outdoor Channel	PowerVu	1 1160	1120 E 1124 E AC3	
	Outdoor Channel	MPEG-2/HD	20 1660	1620 E AC3	

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		PowerVu			
	<u>Sportsman Channel</u>	MPEG-4/HD PowerVu	32	2260	2210 E AC3 2211 E
	<u>Sportsman Channel</u>	MPEG-2 PowerVu	37	2160	2130 E AC3 .131 E






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AdChoices

Live Satellite

Galaxy Online

Galaxy Watch

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
11732 H tp 2 Ku 50.6-53.6		<u>Veterans Af fairs Knowledge Network</u>	DVB-S2	14374-2/3 8PSK	7-0 6.6	M Vallado 160516
		<u>Veterans Affairs Knowledge Network 1</u>	MPEG-4/HD PowerVu	1	100	710 E
		<u>Veterans Affairs Knowledge Network 2</u>	MPEG-4/HD PowerVu	2	800	810 E
		<u>Veterans Affairs Knowledge Network 1</u>	MPEG-4 PowerVu	3	300	310 E
		<u>Veterans Affairs Knowledge Network 2</u>	MPEG-4 PowerVu	4	400	410 E
11736 V tp 1 Ku 50.6-53.6						A Rybnikov 170626
11738 V tp 1 Ku 50.6-53.6		<u>TVW Cable Channel</u>	F S DVB-S MPEG-4	1680-3/4 201	5.5 202 E	A Rybnikov 170628
11747 V tp 3 Ku 50.6-53.6		(feeds)	DVB-S	2667-?		Jose 060728
12033 H tp 16 Ku 50.6-53.6		<u>Daystar TV</u>	F S DVB-S MPEG-2/HD	8200-3/4 1 - 49	7-7 5.5 52 E	F Miata 150819
12078 V tp 19 Ku 50.6-53.6		<u>KBS World</u>	F S DVB-S	3680-3/4 33	5.5 36 K	A Rybnikov 170628
12173 H tp 24 Ku 50.6-53.6		<u>EXRN Radio Network</u>	DVB-S	2894-3/4	5.5	A Rybnikov 170628
		<u>EXRN Radio Network</u>	F		4156 E	
		<u>EXRN Radio Network</u>	F		4157 E	

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Galaxy 14 at 125.0°W



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Azimuth & elevation in Herndon, Virginia, United States: 240.3° & 23.6°
 The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 H tp 1 C 39.4-41.4		Trinity Broadcasting	DVB-S	26667-3/4	5.5	Abbie 140814
		TBN US	F S MPEG-2/HD	1 257	258 E AC3	
		Juce TV	F S	2 513	514 E 516 E AC3	
		TBN US	F S	3 769	770 E 772 E AC3	
		Hillsong Channel	F S	4 1025	1026 E 1028 E AC3	
		Juce TV	F S	5 1281	1282 E 1284 E AC3	
		Smile TV	F S	6 1537	1538 E 1540 E AC3	
		Enlace	F S	7 1793	1794 Sp 1796 Sp AC3	
3740 V tp 2 C 39.4-41.4		AMC Networks	DVB-S2	30000-5/6 8PSK	714-? 9.4	Abbie 140812
		AMC West	MPEG-4/HD PowerVu	101 610	670 E 671 Sp	
		AMC East	MPEG-4/HD PowerVu	102 110	170 E 171 Sp	
		We TV East	MPEG-4/HD PowerVu	104 210	270 E	
		IFC East	MPEG-4/HD PowerVu	106 310	370 E	
		Fuse East	MPEG-4/HD PowerVu	108 410	470 E	
		Sundance TV East	MPEG-4/HD PowerVu	110 510	570 E	
		AMC East	MPEG-4/HD PowerVu	200 710	770 E 771 Sp	
		AMC West	MPEG-4/HD PowerVu	201 810	870 E 871 Sp	
3760 H tp 3 C 39.4-41.4		Evine	DVB-S	19886-3/4	1-? 5.5	Kyl 416 161013
		Evine Live	F S MPEG-4/HD	1 49	51 E AC3	
		Evine Live	F S MPEG-2	2 65	67 E AC3	
		Evine Too	F MPEG-4	3 81	83 E	
3780 V tp 4 C 39.4-41.4		NBC Universal	DVB-S2	30000-3/4 8PSK	120-303 7.9	Kyl 416 160408
		Golf Channel US	MPEG-4/HD PowerVu	10 110	102 E AC3	
		NBC Sports Network	MPEG-4/HD PowerVu	11 1110	1102 E AC3	
		NBC Sports Network Alternate	MPEG-4/HD PowerVu	12 210	200 E AC3	
		Golf Channel US Alternate	MPEG-4/HD PowerVu	13 410	402 E	
		Comcast SportsNet Northwest	MPEG-4/HD PowerVu	14 510	502 E	
		Comcast SportsNet Northwest Plus	MPEG-4/HD PowerVu	15 610	600 E	
3790 H tp 5 C 39.4-41.4			DVB-S	13200-5/6 8PSK		Abbie 161117
		Outside TV	MPEG-4 PowerVu	1 110	100 E AC3	
		[test card]	MPEG-4 PowerVu	2 210	200 AC3	
		The Blaze	MPEG-4 PowerVu	4 410	400 E AC3	
3820 V tp 6 C 39.4-41.4		Turner	DVB-S2	30000-3/4 8PSK	544-201 7.9 AC3	Abbie 170114
		Engineering TV	MPEG-4 PowerVu	99 2110	2100 E AC3	
		Boomerang US	MPEG-4 PowerVu	104 1710	1700 E AC3	
		TNT East	MPEG-4 PowerVu	140 1810	1800 E AC3	
		TNT East	MPEG-4 PowerVu	141 510	500 E AC3	
		Cartoon Network East	MPEG-4	142 1010	1000 E AC3	

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- TRT Türk
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TV
on Intelsat 902
- CCTV 4 Europe
on Intelsat 902
- Vozrozhdeniye
on Intelsat 902



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Kannada
- TV Zabrze
- TV Klodzka
- Rakshana TV
- Málaga 24h
- TV Master

				PowerVu				
			CNN USA	MPEG-4 PowerVu	144	110	100 E AC3	
			TBS East	MPEG-4 PowerVu	145	710	700 E AC3	
			CNN Airport Network	MPEG-4/HD PowerVu	146	414	404 E AC3	
			TCM US	MPEG-4 PowerVu	147	1410	1400 E AC3	
			Tru TV East	MPEG-4 PowerVu	149	1210	1200 E AC3	
			HLN	MPEG-4 PowerVu	151	210	200 E AC3	
			CNN en Español	MPEG-4 PowerVu	184	410	400 Sp AC3	
			CNN International North America	MPEG-4 PowerVu	194	310	300 E AC3	
			WPCH-TV (Atlanta)	MPEG-4/HD PowerVu	206	1910	1900 E AC3	
			TCM Canada	MPEG-4/HD PowerVu	248	2310	2300 E AC3	
3840 H tp 7 C 39.4-41.4			ABC Cable Networks	DVB-S2	30000-5/6 8PSK		9.4 AC3	Abbie 150111
			Disney Channel East	MPEG-4/HD Digicipher	1	17	18 E AC3 19 Sp AC3	
			Freeform East	MPEG-4/HD Digicipher	2	33	34 E AC3	
			Disney XD East	MPEG-4/HD Digicipher	3	49	50 E AC3 51 Sp AC3	
			Disney Junior East	MPEG-4/HD Digicipher	4	65	66 E AC3 67 Sp AC3	
			Disney Channel W est	MPEG-4/HD Digicipher	5	81	82 E AC3 83 Sp AC3	
			Freeform W est	MPEG-4/HD Digicipher	6	97	98 E AC3	
			Disney XD W est	MPEG-4/HD Digicipher	7	113	114 E AC3 115 Sp AC3	
			Disney Junior W est	MPEG-4/HD Digicipher	8	129	130 E AC3 131 Sp AC3	
			ESPN Classic USA	MPEG-4/HD Digicipher	9	145	146 E AC3	
3860 V tp 8 C 39.4-41.4			HBO The Works	DVB-S2	30000-5/6 8PSK		9.4	Abbie 140812
			HBO Comedy East	MPEG-4/HD Digicipher	120	273	274 E	
			HBO Comedy W est	MPEG-4/HD Digicipher	121	289	290 E	
			HBO Zone East	MPEG-4/HD Digicipher	122	305	306 E	
			HBO Zone West	MPEG-4/HD Digicipher	123	321	322 E	
			ThrillerMax East	MPEG-4/HD Digicipher	124	337	338 E	
			ThrillerMax W est	MPEG-4/HD Digicipher	125	353	354 E	
			MovieMax	MPEG-4/HD Digicipher	126	369	370 E	
			MaxLatino	MPEG-4/HD Digicipher	127	385	386 Sp	
			5 StarMax	MPEG-4/HD Digicipher	128	401	402 E	
			OuterMax	MPEG-4/HD Digicipher	129	417	.18 E	
3880 H tp 9 C 39.4-41.4			ESPN	DVB-S2	30000-5/6 8PSK		9.4	Abbie 140812
			ESPN US	MPEG-4/HD Digicipher	22	65	66 E	
			ESPN US Alternate	MPEG-4/HD Digicipher	23	69	70 E	
			ESPN US Alternate	MPEG-4/HD Digicipher	24	74	75 E	
			ESPN US Alternate	MPEG-4/HD Digicipher	25	78	79 E	
			ESPN US Alternate	MPEG-4/HD Digicipher	26	82	83 E	
3900 V tp 10 C 39.4-41.4				DVB-S2	29079-5/6 8PSK		1-?	Abbie 170822
			This TV Network	F	MPEG-4	40	256	257 E AC3
			Shop LC	F S	MPEG-4/HD	101	3160	3161 E AC3
			MavTV		MPEG-4/HD PowerVu	102	3260	3261 E AC3
			NTD TV East	F S	MPEG-4	104	3460	3461 C AC3
			America's Value Channel (17-22 ET)	F S	MPEG-4	105	3560	3500 E AC3
			Sony Movie Channel USA		MPEG-4 PowerVu	108	3860	3861 E AC3
			CBeebies Latinoamérica		MPEG-4 PowerVu	109	1010	1001 E AC3
			Gospel Broadcasting Network	F S	MPEG-4	111	1110	1101 E
			Cine Sony		MPEG-4 PowerVu	112	1210	1200 AC3
			Newsmax TV	S	MPEG-4/HD PowerVu	113	1310	1300 E AC3
			Fox Life Latin		MPEG-4 PowerVu	207	3760	3700 Sp AC3
3920 H tp 11 C 39.4-41.4			ABC Cable Networks	Digicipher 2	29270-3/4		703-?	Abbie 150111
			Disney Channel East			1	100	E
			Freeform East			3	300	E
			Disney Junior East			4	400	E

		Disney Channel W est			5	500	E	
		Freeform W est			6	600	E	
		Disney XD East			7	700	E	
		ESPN Classic USA			8	800	E	
3940 V tp 12 C 39.4-41.4	STARZ	Starz		Digicipher 2	19510-3/4		215-?	C Galligan 080820
		MoviePlex			1	75	E	
		RetroPlex			2	73	E	
		Starz Cinema W est			3	77	E	
		Starz Comedy W est			4	78	E	
		Starz West			5	79	E	
		Starz Edge W est			6	80	E	
		Starz In Black W est			7	81	E	
		Starz Kids & Family W est			8	82	E	
		Starz Encore W est			9	83	E	
		Starz Encore Family W est			10	84	E	
		IndiePlex			11	74	E	
3960 H tp 13 C 39.4-41.4				DVB-S	29270-3/4		776-?	Abbie 161122
		[test card]		MPEG-2 PowerVu	1	110	100 AC3	
		[test card]		MPEG-4/HD	11	710	700 AC3	
		Ant1 Satellite		MPEG-4 PowerVu	30	510	501 Gr	
		This TV Network		MPEG-4 PowerVu	40	256	257 E AC3	
		WGN America East		MPEG-4/HD PowerVu	50	310	300 E AC3	
		WGN America West		MPEG-4/HD PowerVu	55	410	400 E AC3	
		WGN 720	S	PowerVu	20		102 E	
3980 V tp 14 C 39.4-41.4	ESPN	ESPN		DVB-S2	30000-5/6 8PSK		9.4 AC3	Abbie 140812
		ESPN 2 US		MPEG-4/HD Digicipher	32	65	66 E AC3	
		ESPNU		MPEG-4/HD Digicipher	35	78	79 E AC3	
		ESPN Goal Line		MPEG-4/HD Digicipher	36	82	83 E AC3	
4020 V tp 16 C 39.4-41.4	HBO THE WORKS	HBO The Works		DVB-S2	30000-5/6 8PSK		9.4 AC3	Abbie 140812
		HBO West		MPEG-4/HD Digicipher	101	273	274 E AC3	
		HBO 2 West		MPEG-4/HD Digicipher	102	289	290 E AC3	
		HBO Signature W est		MPEG-4/HD Digicipher	103	305	306 E AC3	
		HBO Family W est		MPEG-4/HD Digicipher	104	321	322 E AC3	
		HBO Latino Oeste		MPEG-4/HD Digicipher	105	337	338 Sp AC3	
		Cinemax W est		MPEG-4/HD Digicipher	106	353	354 E AC3	
		MoreMax West		MPEG-4/HD Digicipher	107	369	370 E AC3	
		ActionMax W est (USA)		MPEG-4/HD Digicipher	108	385	386 E AC3	
4040 H tp 17 C 39.4-41.4	turner	Turner		DVB-S2	30000-3/4 8PSK		544-101 7.9 AC3	Abbie 140812
		NBA TV		MPEG-4/HD Verimatrix	240	610	600 E AC3	
		TNT East		MPEG-4/HD Verimatrix	241	51.	500 E AC3 501 Sp AC3	
		Cartoon Network East		MPEG-4/HD Verimatrix	242	910	900 E AC3 901 Sp AC3	
		CNN USA		MPEG-4/HD Verimatrix	244	710	700 E AC3	
		TBS East		MPEG-4/HD Verimatrix	245	810	800 E AC3 801 Sp AC3	
		CNN Airport Network		MPEG-4/HD Verimatrix	246	410	400 E AC3	
		TCM US		MPEG-4/HD Verimatrix	247	110	100 E AC3	
		Tru TV East		MPEG-4/HD Verimatrix	249	210	200 E AC3	
		HLN		MPEG-4/HD Verimatrix	251	310	300 E AC3	
		[NBA TV test card]		MPEG-4 Verimatrix	300	1010	1000	
4080 H tp 19 C 39.4-41.4	NBCUniversal UNIVERSAL NETWORKS	NBC Universal		DVB-S2	30000-3/4 8PSK		8405-? 7.9 AC3	Kyl 416 160408
		CNBC US		MPEG-4/HD PowerVu	51	510	511 E AC3	
		CNBC US Alternate		MPEG-4/HD PowerVu	52	520	521 E AC3	
		Bravo W est		MPEG-4/HD PowerVu	53	530	531 E AC3	
		Syfy West		MPEG-4/HD PowerVu	54	540	541 E AC3	
		MSNBC		MPEG-4/HD PowerVu	55	550	551 E AC3	
		USA Network W est		MPEG-4/HD PowerVu	56	5.0	561 E AC3	

		CNBC US	MPEG-4 PowerVu	58	580	581 E AC3	
		CNBC US Alternate	MPEG-4 PowerVu	59	590	591 E AC3	
		CNBC World	MPEG-2 PowerVu	60	600	601 E	
		USA Network W est	MPEG-2 PowerVu	63	630	631 E	
4100 V tp 20 C 39.4-41.4		BET Networks	Digicipher 2	29270-7/8		783-?	A Flores 140405
		BET East		2	503	E	
		Centric East		3	500	E	
		BET Hip-Hop		4	502	E	
		BET Gospel		5	501	E	
		BET West		6	504	E	
		BET Canada		7	508	E	
		BET Caribbean		8	505	E	
		BET East	HD	150	603	E	
		BET West	HD	151	604	E	
		Centric Caribbean		162	506	E	
4120 H tp 21 C 39.4-41.4		A+E Networks	DVB-S2	30000-5/6		1748-? AC3	Kyl 416 151103
		Viceland W est	MPEG-4/HD PowerVu	10	1010	1001 E AC3	
		Lifetime W est	MPEG-4/HD PowerVu	11	1110	1101 E AC3	
		A+E West	MPEG-4/HD PowerVu	12	1210	120. E AC3	
		History W est	MPEG-4/HD PowerVu	14	1410	1401 E AC3	
		FYI West	MPEG-4/HD PowerVu	15	1510	1501 E AC3	
		Lifetime Movie Network W est	MPEG-4/HD PowerVu	16	1610	1601 E AC3	
4140 V tp 22 C 39.4-41.4		Music Choice	DVB-S2	30000-3/4 8PSK		665-? 7.9	Abbie 150111
		MC Play	F MPEG-2	60	2112	84	
		MC Play	F MPEG-4/HD	160	109	2560	
		Contemporary Instrumentals	F		1	82	
		Tejano	F		4	146	
		Kidz Only!	F		5	401	
		Throwback Jamz	F		6	402	
		Rock Hits	F		7	403	
		Gospel	F		8	465	
		Indie	F		9	466	
		Hit List	F		10	467	
		Party Favorites	F		11	529	
		Today's Country	F		12	530	
		Hip-Hop Classics	F		13	531	
		Rap	F		14	593	
		Hip-Hop and R&B	F		15	594	
		Classic Rock	F		16	595	
		R&B Classics	F		17	657	
		R&B Soul	F		18	658	
		Alternative	F		19	659	
		Metal	F		20	785	
		Rock	F		21	786	
		Reggae	F		22	787	
		Soft Rock	F		23	849	
		Pop Hits	F		24	850	
		Y2K	F		25	851	
		'90s	F		26	1041	
		'80s	F		27	1042	
		Pop Rhythmic	F		28	1043	
		Dance/EDM	F		29	1105	
		Contemporary Christian	F		30	1106	
		Pop Latino	F		31	110.	
		Classic Country	F		32	1169	
		Romances	F		33	1170	
		Sounds of the Season	F		34	1171	
		Country Hits	F		35	1233	
		'70s	F		36	1234	
		Solid Golden Oldies	F		37	1235	
		Pop Country	F		38	1297	
		Tropicales	F		39	1298	
		Mexicana	F		40	1299	
		Soundscapes	F		41	1361	
		Smooth Jazz	F		42	1362	
		Toddler Tunes	F		43	1363	
		Stage & Screen	F		44	1425	

		Teen MC	F		45	1426		
		Musica Urbana	F		46	1427		
		Love Songs	F		47	913		
		Adult Alternative	F		48	914		
		Jazz	F		49	915		
		Blues	F		50	273		
		Taste of Italy	F		51	18		
		Singers & Swing	F		59	83		
		Easy Listening	F		61	145		
		Classical Masterpieces	F		62	19		
		Light Classical	F		63	81		
4160 H tp 23 C 39.4-41.4		A&E Networks		DVB-S2	30000-5/6 8PSK	2748-101 9.4	Abbie 140812	
		A&E East		MPEG-4/HD PowerVu	1	110	170 E AC3	
		History East		MPEG-4/HD PowerVu	2	210	270 E AC3	
		Lifetime East		MPEG-4/HD PowerVu	3	31.	370 E AC3	
		Lifetime Movie Network East		MPEG-4/HD PowerVu	4	410	470 E AC3	
		FYI East		MPEG-4/HD PowerVu	5	510	570 E AC3	
		Viceland East		MPEG-4/HD PowerVu	6	610	670 E AC3	
4180 V tp 24 C 39.4-41.4		Showtime HD East Plex 2		DVB-S2	30000-5/6 8PSK	9.4	Kyl 416 170525	
		Showtime East		MPEG-4/HD Digicipher	1	17	18 E AC3	
		The Movie Channel East		MPEG-4/HD Digicipher	2	33	34 E AC3	
		Showtime 2 East		MPEG-4/HD Digicipher	3	49	50 E AC3	
		Showtime Showcase East		MPEG-4/HD Digicipher	4	65	66 E AC3	
		The Movie Channel Xtra East		MPEG-4/HD Digicipher	5	81	82 E AC3	
		Showtime Extreme East		MPEG-4/HD Digicipher	6	97	98 E AC3	
		Showtime Beyond East		MPEG-4/HD Digicipher	7	113	114 E AC3	
		Showtime Next East		MPEG-4/HD Digicipher	8	129	130 E AC3	
		Showtime Women East		MPEG-4/HD Digicipher	9	145	146 E AC3	
		Flix East		MPEG-4/HD Digicipher	10	161	162 E AC3	
		Showtime Family Zone East		MPEG-4/HD Digicipher	11	177	178 E AC3	
		Galaxy 14 © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/Galaxy-14.html						

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ABS-2A 75°E

Galaxy 13/Horizons 1 at 127. 0°W



Atlantic Main | America | America **P** | America **HD** | America **UHD** | **UHD** | **Headlines** | **Launches** Asia

125.0°W <C> 131.0°W HD | UHD | SatTracker | LyngSat Maps 124.9°W <Ku> 129.0°W

Azimuth & elevation in Herndon, Virginia, United States: 242.0° & 22.2°

The EIRP values are for Richmond, Virginia, United States

Galaxy 13/Horizons 1 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Galaxy-13-Horizons-1.html>

Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3760 V tp 3 C 42-44	HDNet	DVB-S	28076-3/4	5.5	Abbie 140824
	AXS TV	MPEG-2/HD	2 33	36 E AC3	
	HDNet Movies	MPEG-2/HD	3 49	52 E AC3	
3780 H tp 4 C 42-44		DVB-S2	30000-2/3 8PSK	8002-?	J Peña 170206
	BBC World News Americas	MPEG-4/HD PowerVu+	100 1000	1001 E AC3	
	Caracol TV Internacional	MPEG-2 PowerVu+	208 286	2822 Sp AC3	
	NHK World TV	MPEG-4/HD PowerVu+	215 1360	1320 E	
	NHK World TV	MPEG-2 PowerVu+	217 1560	1520 E	
3800 V tp 5 C 42-44	Intelsat	DVB-S	27690-3/4	8001-? 5.5	J Peña 170206
	BBC World News Americas	PowerVu+	1 1160	104 E AC3 1120 E	
	Mega TV (USA)	PowerVu+	11 1760	1720 Sp	
	BBC World News Americas	MPEG-4/HD PowerVu+	50 5060	5020 E	
3820 H tp 6 C 42-44		DVB-S2	30000-5/6 8PSK	101-?	Abbie 140824
	Reelz	MPEG-4/HD	1 110	100 E AC3	
	Bloomberg TV US	MPEG-4/HD PowerVu	2 210	200 E AC3	
	One World Sports	MPEG-4/HD PowerVu	3 310	300 E AC3	
	WWE Network	MPEG-4/HD PowerVu	4 410	400 E AC3	
	Playboy TV USA	MPEG-4/HD PowerVu	7 710	700 E AC3	
3840 V tp 7 C 42-44	A+E NETWORKS	DVB-S2	30000-5/6 8PSK	3747-? 9.4	Kyl 416 151216
	A&E Networks	MPEG-4 PowerVu	1 100	110 Sp	
	History en Español	MPEG-4 PowerVu	2 200	210 E	
	Military History US	MPEG-4 PowerVu	3 300	310 E	
	Lifetime Real Women	MPEG-4/HD PowerVu	100 610	611 E AC3	
3880 V tp 9 C 42-44	STARZ	DVB-S2	30000-8/9 8PSK	10.7	C Hammer 170919
	IndiePlex	MPEG-4/HD Digicipher	31 1936	1937 E AC3	
	RetroPlex	MPEG-4/HD Digicipher	32 2000	2001 E AC3	
	Starz Encore Action East	MPEG-4/HD Digicipher	35 2192	21.3 E AC3	
	Starz Encore Black East	MPEG-4/HD Digicipher	36 2256	2257 E AC3	
	MoviePlex	MPEG-4/HD Digicipher	37 2320	2321 E AC3	
	Starz Encore Classic East	MPEG-4/HD Digicipher	38 2384	2385 E AC3	
	Starz Encore Suspense East	MPEG-4/HD Digicipher	40 2512	2513 E AC3	
	Starz Encore Family East	MPEG-4/HD Digicipher	41 2576	2577 E AC3	new
	Starz Encore Westerns East	MPEG-4/HD Digicipher	42 2640	2641 E AC3	new
	Starz Encore Español	MPEG-4/HD Digicipher	43 2704	2705 E AC3	new
3900 H tp 10 C 42-44	HBO HDTV	Digicipher 2	29270-7/8	112-?	Anonymous 030712
	HBO East	HD	51 151	E	
	HBO West	HD	62 162	E	
3920 V	NASA TV	DVB-S	28068-3/4		J Conlon

News at LyngSat Stream:



Prajaa TV
Kannada



Málaga 24h



Rakshana TV



TV Master



TV Zabrze



TV Kłodzka

News at LyngSat:



BVN TV Europa
on Intelsat 902



CNL Evropa
on Intelsat 902



The Word Network
on Intelsat 902












CCTV 4 Europe
on Intelsat 902



RTV San Marino
on Intelsat 902




NHK World TV
on Intelsat 902

tp 11 C 42-44							5.5	160912
		NASA TV Public	F S	MPEG-2/HD	101	274	275 E AC3 276 E	
		NASA TV Media	F S	MPEG-4/HD	103	4145	4148 E AC3 4149 E	
		NASA TV UHD	F	MPEG-4/UHD	104	4161	4164 E AC3 4165 E	
3960 V tp 13 C 42-44		Encompass		DVB-S2	30000-5/6 8PSK		806-? 9.4	Harv 141215
		MGM HD USA		MPEG-4/HD Digicipher	1	17	18 E AC3	
		The Africa Channel US		MPEG-4/HD Digicipher	2	65	66 E AC3	
		GSN East		MPEG-4/HD Digicipher	3	81	82 E AC3	
		Shorts HD		MPEG-4/HD Digicipher	4	49	50 E AC3	
		Tennis Channel		MPEG-4/HD Digicipher	5	33	34 E AC3	
		GSN West		MPEG-4/HD Digicipher	6	97	98 E AC3	
		Revolt		MPEG-4/HD Digicipher	7	113	114 E AC3	
3980 H tp 14 C 42-44		Discovery Networks		DVB-S2	30000-3/4 8PSK		802-? 7.9	Kyl 416 150523
		BBC America East		MPEG-4/HD Digicipher	1	17	18 E AC3	
		Investigation Discovery East		MPEG-4/HD Digicipher	2	33	34 E AC3	
		Discovery Family Channel		MPEG-4/HD Digicipher	3	49	50 E AC3	
		Oprah Winfrey Network East		MPEG-4/HD Digicipher	4	65	66 E AC3	
		Discovery Life Channel		MPEG-4/HD Digicipher	5	81	82 E AC3	
		Animal Planet East		MPEG-4/HD Digicipher	6	97	98 E AC3	
		Science		MPEG-4/HD Digicipher	7	113	114 E AC3	
		Velocity		MPEG-4/HD Digicipher	8	129	130 E AC3	
4000 V tp 15 C 42-44		Starz		DVB-S2	30000-8/9 8PSK		10.7	C Hammer 170919
		Starz East		MPEG-4/HD Digicipher	1	16	17 E AC3	
		Starz Kids & Family East		MPEG-4/HD Digicipher	2	80	81 E AC3	
		Starz Edge East		MPEG-4/HD Digicipher	3	144	145 E AC3	
		Starz Comedy East		MPEG-4/HD Digicipher	4	208	209 E AC3	
		Starz Encore East		MPEG-4/HD Digicipher	5	272	273 E AC3	
		Starz In Black East		MPEG-4/HD Digicipher	7	400	401 E AC3	
		Starz Cinema East		MPEG-4/HD Digicipher	8	464	465 E AC3	
4052 H tp 18 C 42-44		Herring Networks		DVB-S2	17500-5/6 8PSK		758-? 9.4	B Reagles 140925
		AWE		MPEG-2 Digicipher	100	16	17 E	
		AWE		MPEG-2/HD Digicipher	200	144	145 E	
		[test card]		MPEG-4/HD Digicipher	300	97	98	
		AWE International		MPEG-4/HD Digicipher	400	113	114 E	
		One America News Network		MPEG-4/HD Digicipher	500	129	130 E	
		One America News Network		MPEG-2 Digicipher	600		E	
4066 H tp 18 C 42-44		Apostolic Oneness Network	F S	DVB-S	3310-3/4 1 - 33		7-? 5.5 36 E	B Chester 101128
4070 H tp 18 C 42-44		MBC America		DVB-S2	3257-3/4 8PSK		7.9 AC3	Abbie 161108
		MBCD		MPEG-4/HD PowerVu	1	538	54. K AC3	
		MBC America		MPEG-4/HD PowerVu	2	513	515 K AC3	
4080 V tp 19 C 42-44		HDNet		DVB-S	28076-3/4		5.5	Abbie 140824
		AXS TV		MPEG-2/HD	2	33	36 E	
		HDNet Movies		MPEG-2/HD	3	49	52 E	
4120 V tp 21 C 42-44		NFL		DVB-S2	30000-5/6 8PSK		846-? 9.4 AC3	Abbie 140824
		NFL Network		MPEG-4/HD PowerVu	1	110	100 E AC3	
		NFL RedZone		MPEG-4/HD PowerVu	2	210	20. E AC3	
		NFL RedZone		MPEG-4/HD PowerVu	3	310	300 Sp AC3	
		NFL Alternate		MPEG-4/HD PowerVu	4	410	400 E AC3	
		NFL Alternate		MPEG-4/HD PowerVu	5	510	500 E AC3	
				MPEG-4/HD	6	610	600 E AC3	

		NFL Alternate		PowerVu				
4140 H tp 22 C 42-44		Discovery Networks		DVB-S2	30000-3/4 8PSK	501-? 7.9	Kyl 416 160430	
		Discovery Channel East		MPEG-4/HD Digicipher	1	17	18 E	
		TLC East		MPEG-4/HD Digicipher	2	33	34 E	
		Destination America		MPEG-4/HD Digicipher	3	49	50 E	
		TLC Canada		MPEG-4/HD Digicipher	4	65	66 E	
		American Heroes Channel USA		MPEG-4/HD Digicipher	5	81	82 E	
		Discovery en Español		MPEG-4/HD Digicipher	6	97	98 Sp	
		Discovery Familia		MPEG-4/HD Digicipher	7	113	114 Sp	
4160 V tp 23 C 42-44		Encompass		DVB-S2	30000-5/6 8PSK	9.4 AC3	J LaPrise 150223	
		Justice Central TV		MPEG-4/HD Digicipher	1	28	29 E AC3	
		Comedy TV (USA)		MPEG-4/HD Digicipher	2	33	34 E AC3	
		Recipe TV		MPEG-4/HD Digicipher	3	49	50 E AC3	
		Cars TV		MPEG-4/HD Digicipher	4	65	66 E AC3	
		Pets TV		MPEG-4/HD Digicipher	5	81	82 E AC3	
		My Destination TV		MPEG-4/HD Digicipher	6	97	98 E AC3	
		Es TV		MPEG-4/HD Digicipher	7	113	114 E AC3	
		FM		MPEG-4/HD Digicipher	9	20	21 E AC3	
		BlueHighways TV		MPEG-4/HD Digicipher	11	177	178 E AC3	


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Frequency Beam EIRP (dBW)		Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated	
11727 V tp 2 Ku		(feeds)	DVB-S	6620-?		R Caylor 051111	
11980 V tp 14 Ku		(feeds)	NTSC				
12050 H tp 17 Ku		(feeds)	DVB-S	13020-?		J Everett 060219	
12087 V tp 20 Ku		(feeds)	DVB-S	6111-?		J Hotsenpiller 040306	
12120 H tp 21 Ku		(feeds)	NTSC				
12140 V tp 22 Ku		@ HughesNet	DVB-S	30000-3/4	5.5	Greg 921 060604	
12160 H tp 23 Ku		(feeds)	NTSC				
12180 V tp 24 Ku		(feeds)	DVB-S	16278-?		M Reynolds 040428	

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AMC 11 at 131.0°W

Atlantic Main | America | America **P** | America **HD** | America **UHD** | [Headlines](#) | [Launches](#) Asia
 127.0°W <C> 133.0°W HD | [SatTracker](#) | [LyngSat Maps](#) 129.0°W <Ku> 180.0°E

Azimuth & elevation in Herndon, Virginia, United States: 245.3° & 19.2°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 V tp 1 North America 41-42	The Weather Channel	DVB-S2	30000-5/6 8PSK	9.4	Kyl 416 160726
	The Weather Channel	MPEG-2 Digicipher	1	E	
	The Weather Channel	MPEG-2/HD Digicipher	6	E	
3760 V tp 3 North America 41-42	In Demand	Digicipher 2	19510-3/4		Kyl 416 160726
	Hot Choice		2 110	E	
	In Demand 3		3 120	E	
	In Demand 2		6 150	E	
	In Demand Events		9 180	E	
	In Demand en Español		10 190	Sp	
3780 H tp 4 North America 41-42	A&E Networks	DVB-S2	30000-5/6 8PSK	748-? 9.4	Abbie 161113
	Viceland W est	MPEG-4/HD PowerVu	10 1010	1001 E AC3	
	Lifetime W est	MPEG-4/HD PowerVu	11 1110	1101 E AC3	
	A&E West	MPEG-4/HD PowerVu	12 1210	1201 E AC3	
	History W est	MPEG-4/HD PowerVu	14 1410	1401 E AC3	
	FYI West	MPEG-4/HD PowerVu	15 1510	1501 E AC3	
	Lifetime Movie Network W est	MPEG-4/HD PowerVu	16 1610	1601 E AC3	
3790 V tp 5 North America 41-42	Hallmark	DVB-S	12400-7/8	1-? 7.2	Harv 100711
	Hallmark Channel East	PowerVu+	11 1260	1220 E 1230 E AC3	
	Hallmark Channel W est	PowerVu+	21 1160	1120 E 1130 E AC3	
	Hallmark Movies & Mysteries East	PowerVu+	31 1360	1320 E 1330 E AC3	
	Hallmark Movies & Mysteries West	PowerVu+	41 1460	1420 E 1430 E AC3	
	GSN	PowerVu+	51 1560	1520 E 1530 E AC3	
3808 V tp 5 North America 41-42	Hallmark	DVB-S2	15800-5/6 8PSK	1-? 9.4	J Bennett 100324
	Hallmark Channel East	MPEG-4/HD PowerVu+	201 111	100 E	
	Hallmark Channel W est	MPEG-4/HD PowerVu+	202 211	200 E	
	Hallmark Movies & Mysteries East	MPEG-4/HD PowerVu+	203 311	300 E	
3840 V tp 7 North America 41-42	C-SPAN	NTSC		6.80 E	
3880 V tp 9 North America 41-42	Scripps Networks	DVB-S2	30000-5/6 8PSK	816-? 9.4	Mike H 160526
	HGTV East	MPEG-4/HD PowerVu	51 110	111 E AC3	
	Food Network East	MPEG-4/HD PowerVu	52 210	211 E AC3	
	DIY Network USA	MPEG-4/HD PowerVu	53 110	311 E AC3	
	Cooking Channel	MPEG-4/HD PowerVu	54 410	411 E AC3	
	Travel Channel East	MPEG-4/HD PowerVu	55 510	511 E AC3	
	HGTV West	MPEG-4/HD PowerVu	56 610	611 E AC3	
3880 V tp 9 North America 41-42	Food Network W est	MPEG-4/HD PowerVu	57 710	711 E AC3	

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Kazakh TV
on Intelsat 902

Vozrozhdeniye
on Intelsat 902

CNL Evropa
on Intelsat 902

Payam-e-Afghan
TV
on Intelsat 902

Thai TV Global
Network
on Intelsat 902

NHK World TV
on Intelsat 902

News at LyngSat Stream:

TV Master







TV Zabrze





Rakshana TV

Málaga 24h

TV Kłodzka

Prajaa TV
Kannada

		<u>Travel Channel W est</u>		MPEG-4/HD PowerVu	58	810	811 E AC3	
		<u>Great American Country</u>		MPEG-4/HD PowerVu	59	910	911 E AC3	
3900 H tp 10 North America 41-42		<u>NESN</u>		DVB-S2	30000-5/6 QPSK		839-? 5.2	Abbie 161113
		<u>NESN Boston</u>		MPEG-4/HD PowerVu	5	510	500 E AC3	
		<u>NESN Plus</u>		MPEG-4/HD PowerVu	6	610	600 E AC3	
		<u>NESN Connecticut</u>		MPEG-4/HD PowerVu	7	710	700 E AC3	
		<u>NESN Providence</u>		MPEG-4/HD PowerVu	8	810	800 E AC3	
		<u>NESN National</u>		MPEG-4/HD PowerVu	9	910	900 E AC3	
		<u>NESN Maine</u>		MPEG-4/HD PowerVu	10	1010	1000 E AC3	
		<u>Catholic TV</u>	S	MPEG-4/HD PowerVu	11	1110	1100 E AC3	
		<u>NESN Xtra</u>	F	MPEG-4/HD	12	1210	1200 E AC3	
3928 V tp 11 North America 41-42		<u>QVC</u>		DVB-S	14323-5/6		1-? 6.5	H Miller 080828
		<u>QVC US</u>	F S	MPEG-2/HD	1	100	101 E	
		<u>QVC US</u>	F S		2	200	201 E	
3940 H tp 12 North America 41-42		<u>A+E Networks</u>		DVB-S2	30000-5/6 8PSK		9.4	Abbie 161113
		<u>A+E East</u>		MPEG-4/HD PowerVu	1	110	170 E AC3	
		<u>History East</u>		MPEG-4/HD PowerVu	2	210	270 E AC3	
		<u>Lifetime East</u>		MPEG-4/HD PowerVu	3	310	370 E AC3	
		<u>Lifetime Movie Network East</u>		MPEG-4/HD PowerVu	4	410	470 E AC3	
		<u>FYI East</u>		MPEG-4/HD PowerVu	5	510	570 E AC3	
		<u>Viceland East</u>		MPEG-4/HD PowerVu	6	610	670 E AC3	
3995 V tp 15 North America 41-42		<u>Viacom Media Networks Music Suite</u>		Digicipher 2	19510-3/4		480-?	Kyl 416 130808
		<u>MTV 2 East</u>			1	125	E	
		<u>BET Jams</u>			2	225	E	
		<u>MTV Tr3s East</u>			3	325	E	
		<u>MTV Classic East</u>			4	425	E	
		<u>BET Soul</u>			5	525	E	
		<u>CMT Music</u>			6	625	E	
		<u>Nick Jr East</u>			7	175	E	
		<u>TeenNick East</u>			8	275	E	
		<u>Nicktoons East</u>			9	375	E	
		<u>Nick 2</u>			10	475	E	
		<u>Logo East</u>			13	575	E	
		<u>NickMusic</u>			14	675	E	
4020 H tp 16 North America 41-42		<u>Discovery Networks</u>		Digicipher 2	29270-3/4		770-?	F Miata 160724
		<u>Discovery Channel W est</u>	F		1	101	E	
		<u>TLC West</u>	F		2	102	E	
		<u>BBC America W est</u>			3	103	E	
		<u>Animal Planet W est</u>	F		4	104	E	
		<u>Oprah Winfrey Network W est</u>	F		5	105	E	
		<u>Velocity</u>		HD	10	610	E	
4040 V tp 17 North America 41-42		<u>Showtime HD Plex 3</u>		Digicipher 2	29270-3/4		805-?	Kyl 416 150407
		<u>Smithsonian Channel East</u>		MPEG-4/HD	1	111	E	
		<u>CBS Sports Network USA</u>		MPEG-4/HD	2	112	E	
		<u>Smithsonian Channel W est</u>		MPEG-4/HD	3	212	E	
		<u>CBS Sports Network USA</u>		MPEG-2	4	211	E	
		<u>CBS Sports Network Canada</u>		MPEG-4/HD	5	120	E	
		<u>CBS Sports Network Canada</u>		MPEG-2	6	110	E	
4060 H tp 18 North America 41-42		<u>Viacom Media Networks PSM 1</u>		Digicipher 2	29270-3/4		182-?	Kyl 416 160725
		<u>TV Land East</u>			1	130	E	
		<u>TV Land West</u>			2	230	E	
		<u>CMT West</u>			3	330	E	
		<u>CMT East</u>			4	430	E	
		<u>Spike TV East</u>			5	530	E	
		<u>Nickelodeon W est</u>			6	6.0	E	
		<u>MTV East</u>			7	735	E	
		<u>MTV West</u>			8	830	E	
		<u>Spike TV West</u>			9	930	E	
		<u>Nickelodeon East</u>			10	140	E	
					11	245	E	

		VH1 East					
		Comedy Central W est		12	3.0	E	
		Comedy Central East		13	440	E	
		VH1 West		14	540	E	
4075 V tp 19 North America 41-42		Showtime East Plex	Digicipher 2	19510-3/4			Kyl 416 150407
		Showtime East		1	100	E	
		Showtime 2 East		2	200	E	
		Showtime Showcase East		3	300	E	
		The Movie Channel East		4	400	E	
		Flix East		5	500	E	
		Smithsonian Channel East		6	600	E	
		The Movie Channel Xtra East		7	700	E	
		Showtime Beyond East		8	800	E	
		Showtime Extreme East		9	900	E	
4092 V tp 19U North America 41-42		Showtime East Plex	Digicipher 2	9760-3/4			L Ross 051128
		Showtime Next East		10	120	E	
		Showtime Family Zone East		11	220	E	
		Showtime W omen East		12	420	E	
4100 H tp 20 North America 41-42		Showtime HD W est Plex 2	DVB-S2	30000-5/6 8PSK		9.4 AC3	Kyl 416 170525
		Showtime W est	MPEG-4/HD Digicipher	1	17	18 E AC3	
		The Movie Channel W est	MPEG-4/HD Digicipher	2	33	34 E AC3	
		Showtime 2 W est	MPEG-4/HD Digicipher	3	49	50 E AC3	
		Showtime Showcase W est	MPEG-4/HD Digicipher	4	65	66 E AC3	
		The Movie Channel Xtra W est	MPEG-4/HD Digicipher	5	81	82 E AC3	
		Showtime Extreme W est	MPEG-4/HD Digicipher	6	97	98 E AC3	
		Showtime Beyond W est	MPEG-4/HD Digicipher	7	113	114 E AC3	
		Showtime Next W est	MPEG-4/HD Digicipher	8	129	130 E AC3	
		Showtime W omen West	MPEG-4/HD Digicipher	9	145	146 E AC3	
		Flix West	MPEG-4/HD Digicipher	10	161	162 E AC3	
		Showtime Family Zone W est	MPEG-4/HD Digicipher	11	177	178 E AC3	
4120 V tp 21 North America 41-42		Viacom Media Networks HD Plex 1	DVB-S2	30000-5/6 8PSK		11-? 9.4	Kyl 416 150806
		CMT West	MPEG-4/HD PowerVu+	101		E	
		MTV West	MPEG-4/HD PowerVu+	102		E	
		Nickelodeon East	MPEG-4/HD PowerVu+	103		E	
		VH1 East	MPEG-4/HD PowerVu+	104		E	
		Comedy Central East	MPEG-4/HD PowerVu+	105		E	
		Spike TV West	MPEG-4/HD PowerVu+	106		E	
		Spike TV Canada	MPEG-4/HD PowerVu+	107		E	
		Logo East	MPEG-4/HD PowerVu+	109		E	
		Logo W est	MPEG-4/HD PowerVu+	110		E	
4140 H tp 22 North America 41-42		Discovery Networks	Digicipher 2	19510-3/4		213-?	F Miata 160724
		Discovery Familia	F	1	901	Sp	
		Discovery Family Channel	F	2	902	E	
		Science	F	3	903	E	
		Destination America	F	4	904	E	
		Investigation Discovery East	F	5	905	E	
		BBC America East	F	6	906	E	
		American Heroes Channel USA	F	7	907	E	
		Discovery Life Channel	F	8	908	E	
		Discovery en Español	F	9	909	Sp	
4160 V tp 23 North America 41-42		Univisión	DVB-S2	30000-3/4 8PSK		7.9	Fubar 160505
		Univisión Este	MPEG-4/HD PowerVu	211	2110	2136 Sp	
		Univisión Oeste	MPEG-4/HD PowerVu	212	2210	2236 Sp	
		Galavisión Este	MPEG-4/HD PowerVu	213	2510	2536 Sp	
		Galavisión Oeste	MPEG-4/HD PowerVu	214	2610	2636 Sp	
		Univision Deportes Dos	MPEG-4 PowerVu	216	2810	2836 Sp	
		UniMás Este	MPEG-4/HD PowerVu	218	2310	2330 Sp	

		UniMás Oeste		MPEG-4/HD PowerVu	219	2410	2430 Sp	
AMC 11 © LyngSat, last updated 2017-09-28 - https://www.lyngsat.com/AMC-11.html								

Colour codes on this satellite chart: analog/clear analog/encrypted SD/clear SD/encrypted HD/clear HD/encrypted internet/interactive feeds

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Galaxy 15 at 133.0°W



Atlantic Main America America P America HD America UHD Headlines Launches Asia
 131.0°W <C> 135.0°W HD | SatTracker | LyngSat Maps 129.0°W <Ku> 180.0°E

Azimuth & elevation in Herndon, Virginia, United States: 246.9° & 17.7°

The EIRP values are for Richmond, Virginia, United States

Galaxy 15 © LyngSat, last updated 2017-09-28 - <https://www.lyngsat.com/Galaxy-15.html>

Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 H tp 1 North America 41.6	AMC NETWORKS AMC Networks	DVB-S	29270-5/6	714-? 6.5	S Pontillo 130204
	AMC West	PowerVu	1 1160	1130 E AC3 1131 Sp AC3	
	AMC East	PowerVu	2 1260	1230 E AC3 1231 Sp AC3	
	We TV West	PowerVu	3 310	300 E AC3	
	We TV East	PowerVu	4 410	400 E AC3	
	IFC West	PowerVu	5 510	500 E AC3	
	IFC East	PowerVu	6 610	600 E AC3	
	Fuse West	PowerVu	7 710	700 E AC3	
	Fuse East	PowerVu	8 810	800 E AC3	
	Sundance TV W est	PowerVu	9 910	970 E AC3	
	Sundance TV East	PowerVu	10 1010	1000 E AC3	
3740 V tp 2 North America 41.6	FOX Fox Networks Group	DVB-S2	31250-3/4 8PSK	7.9	Kyl 416 150225
	Fox News Channel	MPEG-2/HD Digicipher	1	E	
	Fox Sports Racing	MPEG-2/HD Digicipher	2	E	
	FX Movie Channel	MPEG-2/HD Digicipher	3	E	
	Fox Deportes	MPEG-2/HD Digicipher	4	Sp	
3760 H tp 3 North America 41.6	STARZ Starz	Digicipher 2	19510-3/4	216-?	C Galligan 040526
	Starz Encore Action East		1 27	E	
	Starz Encore Action W est		2 37	E	
	Starz Encore Classic East		3 24	E	
	Starz Encore Classic W est		4 34	E	
	Starz Encore Suspense East		5 26	E	
	Starz Encore Suspense W est		6 36	E	
	Starz Encore Black East		7 28	E	
	Starz Encore Black W est		8 38	E	
	Starz Encore W esters East		9 25	E	
	Starz Encore W esters W est		10 35	E	
	Starz Encore East		11 40	E	
3780 V tp 4 North America 41.6	FOX NETWORKS Fox Sports Networks	DVB-S2	31250-3/4 8PSK	7.9	A Hamilton 140802
	Fox Sports Ohio	MPEG-2/HD Digicipher	1		
	(Fox Sports feeds)	MPEG-2/HD	2		
	(Fox Sports feeds)	MPEG-2/HD	3		
	(Fox Sports feeds)	MPEG-2/HD	4		
3790 H tp 5 North America 41.6	EWTN EWTN	DVB-S	11936-3/4	3-? 5.5	G Tapley 170407
	EWTN US	F S	11 1100	1001 E 2101 E AC3	
	EWTN EEUU	F S	12 1200	1201 Sp 2201 Sp AC3	
	EWTN Canada	F S	13 1300	1301 E 2201 E AC3	
	EWTN Radio	F	41	6101 E	
	EWTN Radio Católica Mundial	F S	41	6101 Sp	
	Radio Paz	F S	50	5001 Sp	
3808 H tp 5 North America 41.6	EWTN EWTN	DVB-S2	16303-3/4 8PSK	7.9	F Miata 150502
	EWTN Asia-Pacific	F S	3100	3101 E	
	EWTN España Latinoamérica	F S	3200	3201 Sp	
	EWTN Africa & Asia	F S	3400	3401 Sp	

News at LyngSat:

CGTN
on Intelsat 902

Kazakh TV
on Intelsat 902

NetViet
on Intelsat 902

Bethel TV
on Intelsat 902

NHK World TV
on Intelsat 902

Payam-e-Afghan TV
on Intelsat 902

VISIT SES AT IBC

See you in Hall 1

SES

News at LyngSat Stream:

tvk TV Kłodzka









TV MASTER TV Master









Rakshana TV

Praja TV
Kannada

tvz TV Zabrze

Málaga 24h Málaga 24h

		EWTN US	FS	HD	8100	8101 E 8102 E AC3	
		EWTN EEUU	FS	HD	8110	8111 Sp AC3 8112 Sp	
3828 V tp 6 North America 41.6		Pop		Digicipher 2	14600-3/4	469-?	Caleb T 170224
		Pop East		MPEG-2	650	E	
		Pop West		MPEG-2	652	E	
		Pop East		MPEG-4/HD	950	E	
3840 H tp 7 North America 41.6		ABC Cable Networks		Digicipher 2	29270-3/4	703-?	B Marsh 040519
		Disney Channel W est			100	E	
		Freeform W est			200	E	
3860 V tp 8 North America 41.6		Starz		DVB-S2	30000-8/9 8PSK	10.7	C Hammer 170919
		IndiePlex		MPEG-4/HD Digicipher	71 4496	4497 E AC3	new
		RetroPlex		MPEG-4/HD Digicipher	72 4560	4561 E AC3	new
		Starz Encore Action W est		MPEG-4/HD Digicipher	74 4688	4689 E AC3	new
		Starz Encore Black W est		MPEG-4/HD Digicipher	75 4752	4753 E AC3	new
		MoviePlex		MPEG-4/HD Digicipher	76 4816	4817 E AC3	new
		Starz Encore Classic W est		MPEG-4/HD Digicipher	77 4880	4881 E AC3	new
		Starz Encore Suspense W est		MPEG-4/HD Digicipher	78 4944	4945 E AC3	new
		Starz Encore Family W est		MPEG-4/HD Digicipher	79 5008	5009 E AC3	new
		Starz Encore W esterns W est		MPEG-4/HD Digicipher	80 5072	5073 E AC3	new
		Starz Encore Español		MPEG-4/HD Digicipher	81 5136	5137 E AC3	new
3900 V tp 10 North America 41.6		Fox Networks Group		DVB-S2	31250-3/4 8PSK	7.9	A Hamilton 140802
		FS1		MPEG-2/HD Digicipher	1	E	
		FS1 Alternate		MPEG-2/HD Digicipher	2	E	
		FS2		MPEG-2/HD Digicipher	3	E	
3960 H tp 13 North America 41.6		Starz		Digicipher 2	19510-3/4	216-?	C Galligan 110801
		Starz East			1 20	E	
		Starz West			2 30	E	
		Starz Edge East			3 21	E	
		Starz Kids & Family East			4 31	E	
		Starz In Black East			5 22	E	
		Starz Cinema East			6 32	E	
		Starz Encore East			7 23	E	
		Starz Encore W est			8 33	E	
		Starz Encore Family East			9 29	E	
		Starz Encore Español			10 39	Sp	
		Starz Comedy East			11 41	E	
3980 V tp 14 North America 41.6		Starz		DVB-S2	30000-8/9 8PSK	10.7	C Hammer 170919
		Starz West		MPEG-4/HD Digicipher	51 3216	3217 E AC3	new
		Starz Kids & Family W est		MPEG-4/HD Digicipher	52 3280	3281 E AC3	new
		Starz Edge West		MPEG-4/HD Digicipher	53 3344	3345 E AC3	new
		Starz Comedy W est		MPEG-4/HD Digicipher	54 3408	3409 E AC3	new
		Starz Encore W est		MPEG-4/HD Digicipher	55 3472	3473 E AC3	new
		Starz In Black W est		MPEG-4/HD Digicipher	57 3600	3601 E AC3	new
		Starz Cinema W est		MPEG-4/HD Digicipher	58 3664	3665 E AC3	new
4000 H tp 15 North America 41.6		Turner		DVB-S2	30000-5/6 8PSK	544-? 9.4	Abbie 170111
		TNT West		MPEG-4/HD Verimatrix	231 110	100 E 101 Sp	
		Cartoon Network W est		MPEG-4/HD Verimatrix	232 310	300 E 301 Sp	
		TBS West		MPEG-4/HD Verimatrix	235 210	200 E 201 Sp	
4020 V tp 16 North America 41.6		Turner		DVB-S	29270-3/4	5.5	Abbie 170111
		TNT East		PowerVu	101 824	800 E AC3 801 Sp AC3	
		Cartoon Network East		PowerVu	102 924	900 E AC3 901 Sp AC3	
		TBS East		PowerVu	105 1024	1000 E AC3 1001 Sp AC3	
		Tru TV East		PowerVu	109 224	200 E AC3	
		CNN USA		PowerVu	114 624	600 E AC3	

		<u>HLN</u>		PowerVu	115	724	700 E AC3	
		<u>TNT West</u>		PowerVu	131	2024	2000 E AC3 2001 Sp AC3	
		<u>Cartoon Network W est</u>		PowerVu	132	2424	2400 E AC3 2401 Sp AC3	
		<u>Boomerang US</u>		PowerVu	134	2124	2100 E AC3 2101 Sp AC3	
		<u>TBS West</u>		PowerVu	135	2524	2500 E AC3 2501 Sp AC3	
		<u>TCM US</u>		PowerVu	137	1524	1500 E AC3 1501 Sp AC3	
		<u>Tru TV West</u>		PowerVu	139	2624	2600 E AC3	
4025 H tp 17 North America 41.6		<u>Media-Comm</u>		Digicipher 2	4880-3/4		694-?	T Kingsley 140429
		<u>Inspiration TV</u>	F S		1	100	E	
		<u>INSP East</u>			2	200	E	
4044 H tp 17 North America 41.6		<u>Media-Comm</u>		DVB-S2	22500-5/6 8PSK		9.4	T Kingsley 160128
		<u>INSP East</u>		MPEG-4/HD Digicipher	4	1100	1101 E AC3	
		<u>INSP East</u>		MPEG-2 Digicipher	6	2200	2201 E AC3	
		<u>INSP West</u>		MPEG-2 Digicipher	7	2300	2301 E AC3	
		<u>Fido TV Channel</u>		MPEG-4/HD Digicipher	8	1200	1201 E AC3	
4060 V tp 18 North America 41.6		<u>HBO The Works</u>		Digicipher 2	29270-7/8		206-?	Kyl 416 131205
		<u>HBO Comedy East</u>	T		6	105	E	
		<u>MovieMax</u>	T		7	115	E	
		<u>HBO Comedy W est</u>	T		15	118	E	
		<u>HBO Zone West</u>	T		16	119	E	
		<u>ThrillerMax East</u>	T		24	124	E	
		<u>HBO Zone East</u>	T		26	106	E	
		<u>MaxLatino</u>	T		27	116	Sp	
		<u>OuterMax</u>	T		30	296	E	
		<u>ThrillerMax W est</u>	T		34	134	E	
		<u>MovieMax</u>	T		35	309	E	
		<u>MaxLatino</u>	T		36	310	Sp	
		<u>5 StarMax</u>	T		37	311	E	
		<u>OuterMax</u>	T		38	138	E	
		<u>5 StarMax</u>	T		44	144	E	
4080 H tp 19 North America 41.6		<u>HBO The Works</u>		DVB-S2	30000-5/6 8PSK		9.4 AC3	Abbie 121115
		<u>HBO East</u>		MPEG-4/HD Digicipher	80	273	274 E AC3	
		<u>HBO 2 East</u>		MPEG-4/HD Digicipher	81	289	290 E AC3	
		<u>HBO Signature East</u>		MPEG-4/HD Digicipher	82	305	306 E AC3	
		<u>HBO Family East</u>		MPEG-4/HD Digicipher	83	321	322 E AC3	
		<u>HBO Latino Este</u>		MPEG-4/HD Digicipher	84	337	338 Sp AC3	
		<u>Cinemax East</u>		MPEG-4/HD Digicipher	85	353	354 E AC3	
		<u>MoreMax East</u>		MPEG-4/HD Digicipher	86	369	370 E AC3	
		<u>ActionMax East_ (USA)</u>		MPEG-4/HD Digicipher	87	385	386 E AC3	
4100 V tp 20 North America 41.6		<u>Fox Sports Networks</u>		DVB-S2	31250-3/4 8PSK		7.9	A Hamilton 140802
		<u>Fox Sports South</u>		MPEG-2/HD Digicipher	1		E	
		<u>Sport South</u>		MPEG-2/HD Digicipher	2		E	
		(Fox Sports feeds)		MPEG-2/HD	3			
		(Fox Sports feeds)		MPEG-2/HD	4			
4120 H tp 21 North America 41.6		<u>Fox Sports Networks</u>		DVB-S2	31250-3/4 8PSK		7.9	A Hamilton 140802
		<u>Fox Sports W est</u>		MPEG-2/HD Digicipher	1		E	
		<u>Fox Sports Prime T icket</u>		MPEG-2/HD Digicipher	2		E	
		(Fox Sports feeds)		MPEG-2/HD	3			
		(Fox Sports feeds)		MPEG-2/HD	4			
4140 V tp 22 North America 41.6		<u>Fox Sports Networks</u>		DVB-S2	31250-3/4 8PSK		7.9	A Hamilton 140802
		<u>Fox Sports Southwest</u>		MPEG-2/HD Digicipher	1		E	
		(Fox Sports feeds)		MPEG-2/HD	2			
		(Fox Sports feeds)		MPEG-2/HD	3			
		(Fox Sports feeds)		MPEG-2/HD	4			
4160 H tp 23 North America 41.6		<u>HBO The Works</u>		Digicipher 2	29270-7/8		205-?	R Chester 040404
		<u>HBO East</u>			1	101	E	
		<u>HBO 2 East</u>			2	102	E	
		<u>HBO Signature East</u>			3	103	E	

		<u>HBO Family East</u>			4	104	E	
		<u>HBO Latino Este</u>			8	107	Sp	
		<u>HBO West</u>			11	111	E	
		<u>HBO 2 West</u>			12	112	E	
		<u>HBO Signature W est</u>			13	113	E	
		<u>HBO Family W est</u>			14	114	E	
		<u>HBO Latino Oeste</u>			18	117	Sp	
		<u>Cinemax East</u>			21	121	E	
		<u>MoreMax East</u>			22	122	E	
		<u>ActionMax East</u> (USA)			23	123	E	
		<u>Cinemax W est</u>			31	131	E	
		<u>MoreMax West</u>			32	132	E	
		<u>ActionMax W est</u> (USA)			33	133	E	
4180 V tp 24 North America 41.6		<u>NBC Universal</u>		Digicipher 2	29270-3/4	636-?	Kyl 416 141118	
		<u>Cloo</u>			1	308	E	
		<u>Syfy West</u>			3	307	E	
		<u>USA Network W est</u>			5	302	E	
		<u>Oxygen East</u>			6	303	E	
		<u>USA Network East</u>			7	304	E	
		<u>Syfy East</u>			8	306	E	
		<u>NBC Universo Oeste</u>	F		11	305	Sp	
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AMC 10 at 135.0°W



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Azimuth & elevation in Herndon, Virginia, United States: 248.4° & 16.2°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name	System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3720 V tp 1 North America 41	INDEMAND In Demand	DVB-S2	30000-5/6 8PSK	845-? 9.4	Kyl 416 130117
	In Demand Team 1	MPEG-2 PowerVu	101	E	
	In Demand Team 2	MPEG-2 PowerVu	102	E	
	In Demand Team 3	MPEG-2 PowerVu	103	E	
	In Demand Team 4	MPEG-2 PowerVu	104	E	
	In Demand Team 5	MPEG-2 PowerVu	105	E	
	In Demand Team 6	MPEG-2 PowerVu	106	E	
	In Demand Team 7	MPEG-2 PowerVu	107	E	
	In Demand Team 8	MPEG-2 PowerVu	108	E	
	In Demand Team 9	MPEG-2 PowerVu	109	E	
	In Demand Team 10	MPEG-2 PowerVu	110	E	
	In Demand Game 1	MPEG-2 PowerVu	111	E	
	In Demand Game 2	MPEG-2 PowerVu	112	E	
	In Demand Game 3	MPEG-2 PowerVu	113	E	
	In Demand Game 4	MPEG-2 PowerVu	114	E	
	In Demand Game 5	MPEG-2 PowerVu	115	E	
	In Demand Game 6	MPEG-2 PowerVu	116	E	
	In Demand Game 7	MPEG-2 PowerVu	117	E	
	In Demand Game 8	MPEG-2 PowerVu	118	E	
	In Demand Game 9	MPEG-2 PowerVu	119	E	
	In Demand Game 10	MPEG-2 PowerVu	120	E	
	In Demand Game 11	MPEG-2 PowerVu	121	E	
	In Demand Game 12	MPEG-2 PowerVu	122	E	
	In Demand Game 13	MPEG-2 PowerVu	123	E	
	In Demand Game 14	MPEG-2 PowerVu	124	E	
3760 V tp 3 North America 41	VIACOM Viacom Media Networks HD Plex 2	DVB-S2	30000-5/6 8PSK	10-? 9.4	Kyl 416 150318
	CMT East	MPEG-4/HD PowerVu	201	E	
	MTV East	MPEG-4/HD PowerVu	202	E	
	Nickelodeon W est	MPEG-4/HD PowerVu	203	E	
	VH1 West	MPEG-4/HD PowerVu	204	E	
	MTV Live	MPEG-4/HD PowerVu	205	E	
	Spike TV East	MPEG-4/HD PowerVu	206	E	
	Comedy Central W est	MPEG-4/HD PowerVu	207	E	
	VH1 Caribbean	MPEG-4/HD PowerVu	208	E	
	Spike TV Caribbean	MPEG-4/HD PowerVu	209	E	
	Comedy Central Caribbean	MPEG-4/HD PowerVu	210	E	
3780 H tp 4 North America 41	Televisa Televisa Networks	DVB-S2	29200-3/4 8PSK	7.9	Fubar 160504
	Fusion	MPEG-4/HD PowerVu	111	3110	3134 E
	El Rey West	MPEG-4/HD PowerVu	112	3210	3234 E


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		<u>El Rey East</u>	MPEG-4/HD PowerVu	114	3410	3434 E	
		<u>TeleHit</u>	MPEG-4 PowerVu	126	1610	1636 Sp	
		<u>De Película Clásico</u>	MPEG-4 PowerVu	127	1710	1736 Sp	
		<u>De Película</u>	MPEG-4 PowerVu	128	1810	1836 Sp	
		<u>RMS</u>	MPEG-4 PowerVu	129	1910	1936 Sp	
		<u>Bandamax</u>	MPEG-4 PowerVu	130	2010	2036 Sp	
		<u>Foro TV</u> (Mexico)	MPEG-4 PowerVu	131	2110	2136 Sp	
		<u>11novelas América</u>	MPEG-4 PowerVu	132	2210	2236 Sp	
3820 H tp 6 North America 41		<u>Comcast Entertainment Group</u>	DVB-S	29270-3/4		1-? 5.5	Kyl 416 160408
		<u>Esquire East</u>	PowerVu+	1	1160	1120 E AC3 1130 E	
		<u>Sprout</u>	PowerVu+	6	1660	1620 E AC3 1630 E	
		<u>E! West</u>	PowerVu+	7	1760	1720 E AC3 1732 E	
		<u>Esquire West</u>	PowerVu+	10	1060	1020 E AC3 1030 E	
		<u>E! East</u>	PowerVu+	120	110	100 E 104 E AC3	
3840 V tp 7 North America 41		<u>NBC Universal</u>	DVB-S	29270-3/4		963-? 5.5	Kyl 416 160408
		<u>MSNBC</u>	Digicipher	1	1010	1011 E	
		<u>Syfy East</u>	Digicipher	2	1020	1021 E	
		<u>Syfy West</u>	Digicipher	3	1030	1031 E	
		<u>Bravo East</u>	Digicipher	4	1040	1041 E	
		<u>Bravo West</u>	Digicipher	5	1050	1051 E	
		<u>Oxygen East</u>	Digicipher	6	1060	1061 E	
		<u>Oxygen West</u>	Digicipher	7	1070	1071 E	
		<u>Chiller</u>	Digicipher	10	1100	1101 E	
		<u>Cloo</u>	Digicipher	11	1110	1111 E	
		<u>Telemundo Este</u>	Digicipher	12	1120	1121 Sp	
		<u>Telemundo Oeste</u>	Digicipher	13	1130	1131 Sp	
		<u>CNBC World</u>	Digicipher	14	1140	1141 E	
3920 V tp 11 North America 41		<u>Viacom Media Networks PSM 2</u>	Digicipher 2	29270-3/4		186-?	J Brewer 071021
		<u>MTV East</u>		7	735	E	
		<u>Nickelodeon East</u>		10	140	E	
		<u>VH1 East</u>		11	245	E	
3960 V tp 13 North America 41		<u>NBC Universal</u>	Digicipher 2	29270-3/4		750-?	Kyl 416 130114
		<u>CNBC Latin America</u>		103		Sp	
		<u>CNBC US</u>		2	101	E	
		<u>Oxygen West</u>		3	107	E	
		<u>MSNBC</u>		5	104	E	
		<u>Bravo West</u>		7	106	E	
3980 H tp 14 North America 41							Abbie 170731
4040 V tp 17 North America 41		<u>Viacom Media Networks HD Plex 4</u>	DVB-S2	30000-5/6 8PSK		14-? 9.4	Abbie 170722
		<u>Epix East</u>	MPEG-4/HD PowerVu+	301	110	100 E AC3	
		<u>Epix West</u>	MPEG-4/HD PowerVu+	302	210	200 E AC3	
		<u>Epix 2</u>	MPEG-4/HD PowerVu+	303	310	300 E AC3	
		<u>Epix Hits</u>	MPEG-4/HD PowerVu+	304	410	400 E AC3	
		<u>Epix Drive-In</u>	MPEG-4/HD PowerVu+	305	510	500 E AC3	
		<u>Epix East</u>	MPEG-4 PowerVu+	351	710	700 E AC3	
		<u>Epix West</u>	MPEG-4 PowerVu+	352	810	800 E AC3	
		<u>Epix Drive-In</u>	MPEG-4 PowerVu+	353	910	900 E AC3	
		<u>Epix 2</u>	MPEG-4 PowerVu+	354	1010	1000 E AC3	
4080 V tp 19 North America 41		<u>C-SPAN</u>	Digicipher 2	29270-3/4		932-?	R Fleeson 100522
		<u>C-SPAN</u>		11	101	E	
		<u>C-SPAN 2</u>		12	102	E	
		<u>C-SPAN 3</u>		13	103	E	
		<u>C-SPAN</u>	MPEG-4/HD	21	201	E	
		<u>C-SPAN 2</u>	MPEG-4/HD	22	202	E	
		<u>C-SPAN 3</u>	MPEG-4/HD	23	203	E	
		<u>C-SPAN Radio</u>		51	501	E	

			S				
4120 V tp 21 North America 41		Discovery Networks	DVB-S2	30000-3/4 8PSK		7.9	Kyl 416 140405
		Discovery Channel W est	MPEG-4/HD Digicipher	1	17	18 E	
		TLC West	MPEG-4/HD Digicipher	2	33	34 E	
		Animal Planet W est	MPEG-4/HD Digicipher	3	49	50 E	
		Investigation Discovery W est	MPEG-4/HD Digicipher	4	65	66 E	
		BBC America W est	MPEG-4/HD Digicipher	5	81	82 E	
4136 H tp 22 North America 41		Showtime W est Plex	Digicipher 2	19510-3/4			Kyl 416 150407
		Showtime W est		1	150	E	
		Showtime 2 W est		2	250	E	
		Showtime Showcase W est		3	350	E	
		The Movie Channel W est		4	450	E	
		Flix W est		5	550	E	
		Smithsonian Channel W est		6	1616	E	
		The Movie Channel Xtra W est		7	750	E	
		Showtime Beyond W est		8	850	E	
		Showtime Extreme W est		9	950	E	
4149 H tp 22 North America 41		Showtime W est Plex	Digicipher 2	9760-3/4			Abbie 120722
		Showtime Next W est		10	170	E	
		Showtime Family Zone W est		11	270	E	
		Showtime W omen West		12	470	E	
4180 H tp 24 North America 41		The Weather Channel	Digicipher 2	29270-7/8		677-?	J Brewer 090105
		The Weather Channel		1	100	E	
		The Weather Channel	HD	6	105	E	

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AMC 8 at 139.0°W

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Azimuth & elevation in Herndon, Virginia, United States: 251.4° & 13.2°

The EIRP values are for Richmond, Virginia, United States

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Frequency Beam EIRP (dBW)	Provider Name Channel Name		System Encryption	SR-FEC SID-VPID	ONID-TID C/N lock APID Lang.	Source Updated
3756 V tp 3 North America	Radio Disney	F	DVB-S	2100-3/4	5.5 4181 E	A Flores 140830
3766 V tp 3 North America	ESPN		DVB-S	3333-03-04		A Flores 140830
	ESPN Deportes Radio	F S			4207 Sp	
	ESPN Sports Radio	F S			4231 E	
4056 H tp 18 North America	Alaska mux		DVB-S	13250-3/4	5.5	L Karpinski 080722
	ARCS	F		110	100 E	
	University of Alaska TV	F		310	300 E	
	KUAC-TV (PBS - Fairbanks)	F		410	400 E	
	KIAL AM 1450	F			1120 E	
	KUAC FM	F S			1122 E	
	KTOO-FM	F			1124 E	
	KCAW-FM	F			1126 E	
	KSKA-FM	F			1130	
4080 V tp 19 North America	GCI		DVB-S	30000-?		M L 170430
	KUUU-TV (NBC - Anchorage)	F S	MPEG-4	1 4091	4097 E	
	KTBY-TV (Fox - Anchorage)	F	MPEG-4	2 4002	4003 E	
	KYES-TV (My - Anchorage)	F	MPEG-4	3 4004	4005 E	
	KTVA-TV (CBS - Anchorage)	F	MPEG-4/HD	5 4015	4014 E	
	KYUR-TV (ABC - Anchorage)	F	MPEG-4	6 4016	4017 E	
	360 North	F S	MPEG-4	8 4020	4021 E	
4111 V tp 21 North America	Fox Sports Radio	F	DVB-S	5000-2/3	4.4 4137 E AAC	A Flores 140830

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