

# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name     | Satellite | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|--------------------------|-----------|---------|------|------------|-----------|---------------------------------------|------------------|
| @MAX                     | Galaxy 15 | 133.0   | 18   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| @MAX HD                  | Galaxy 14 | 125.0   | 8    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| 5 StarMAX                | Galaxy 15 | 133.0   | 18   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| 5StarMAX HD              | Galaxy 14 | 125.0   | 8    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| A&E                      | Galaxy 18 | 123.0   | 23   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| A&E HD                   | Galaxy 14 | 125.0   | 23   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ABC Family               | Galaxy 14 | 125.0   | 11   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ABC Family HD            | Galaxy 14 | 125.0   | 7    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ActionMAX                | Galaxy 15 | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| ActionMAX HD             | Galaxy 15 | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| AMC                      | Galaxy 15 | 133.0   | 1    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| AMC HD                   | Galaxy 14 | 125.0   | 2    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Animal Planet            | AMC 10    | 135.0   | 14   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Animal Planet HD         | Galaxy 13 | 127.0   | 22   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Antena 3                 | Galaxy 23 | 121.0   | 2    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Antenna 1 TV (Greek)     | SES 3     | 103.0   | 10   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| ART America              | Galaxy 17 | 91.0    | 22   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Aspire                   | Galaxy 17 | 91.0    | 14   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| BBC America              | AMC 11    | 131.0   | 5    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| BBC America HD           | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| BBC World News           | Galaxy 13 | 127.0   | 20   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| BeIN Eng                 | Galaxy 23 | 121.0   | 20   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| BeIN Eng HD              | Galaxy 23 | 121.0   | 21   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| BeIN Spa                 | Galaxy 23 | 121.0   | 12   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| BeIN Spa HD              | Galaxy 23 | 121.0   | 7    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| BET                      | Galaxy 14 | 125.0   | 6    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| BET HD                   | Galaxy 14 | 125.0   | 9    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Bio                      | AMC 11    | 131.0   | 16   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Bio HD                   | Galaxy 13 | 127.0   | 24   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Blaze                    | AMC 11    | 131.0   | 18   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Bloomberg TV             | AMC 10    | 135.0   | 16   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Bloomberg TV HD          | Galaxy 17 | 91.0    | 14   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Boomerang                | Galaxy 15 | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Bravo                    | AMC 11    | 131.0   | 8    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Bravo HD                 | Galaxy 14 | 125.0   | 5    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| BTN HD                   | Galaxy 17 | 91.0    | 5    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| C1R                      | Galaxy 17 | 91.0    | 21   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Canal Sur                | Galaxy 23 | 121.0   | 17   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Caracol TV Internacional | Galaxy 13 | 127.0   | 17   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Caribvision              | Galaxy 11 | 55.5    | 17   | Mar-04     | Mar-10    | 08:21 AM                              | 11:55            |
| Cartoon HD               | Galaxy 15 | 133.0   | 10   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Cartoon Net. ESP         | Galaxy 14 | 125.0   | 15   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Cartoon Network          | Galaxy 14 | 125.0   | 11   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| CASA Club TV             | Galaxy 17 | 91.0    | 20   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Cbeebies                 | AMC 10    | 135.0   | 24   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| CBS Sports Network       | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| CBS Sports Network HD    | AMC 11    | 131.0   | 5    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| CCTV-4 (Chinese)         | Galaxy 17 | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Ceebeebies               | AMC 10    | 135.0   | 19   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Cee-TV                   | Galaxy 11 | 55.5    | 23   | Mar-04     | Mar-10    | 08:21 AM                              | 11:55            |
| Centric                  | Galaxy 14 | 125.0   | 16   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Centroamericana          | Galaxy 23 | 121.0   | 24   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Channel 1 Russia (C1R)   | Galaxy 17 | 91.0    | 18   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |

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| Service/Program Name             | Satellite    | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|----------------------------------|--------------|---------|------|------------|-----------|---------------------------------------|------------------|
| Chiller                          | AMC 11       | 131.0   | 3    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Cine Latino                      | SES 3        | 103.0   | 13   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Cine Mexicano                    | Galaxy 23    | 121.0   | 19   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Cinemax                          | Galaxy 15    | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Cinemax HD                       | Galaxy 15    | 133.0   | 16   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Cinemax West                     | Galaxy 15    | 133.0   | 8    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Cinemax West HD                  | Galaxy 15    | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Classic Arts Showcase            | Galaxy 17    | 91.0    | 18   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Cloo                             | Galaxy 15    | 133.0   | 21   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| CMT                              | AMC 11       | 131.0   | 7    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| CMT HD                           | AMC 10       | 135.0   | 7    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| CNBC                             | AMC 10       | 135.0   | 19   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| CNBC HD                          | Galaxy 14    | 125.0   | 19   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| CNN                              | Galaxy 14    | 125.0   | 19   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| CNN                              | Galaxy 15    | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| CNN (Espanol)                    | Galaxy 14    | 125.0   | 2    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| CNN en Español                   | Galaxy 15    | 133.0   | 14   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| CNN HD                           | Galaxy 15    | 133.0   | 21   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| CNN Headline News                | Galaxy 14    | 125.0   | 22   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Comcast Sports Net.              | Galaxy 17    | 91.0    | 22   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Comedy Central                   | AMC 11       | 131.0   | 11   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Comedy Central HD                | AMC 11       | 131.0   | 7    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Crime & Investigation Network HD | Galaxy 13    | 127.0   | 11   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| C-SPAN                           | AMC 11       | 131.0   | 11   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| C-Span 2                         | AMC 10       | 135.0   | 7    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| C-Span 3                         | AMC 10       | 135.0   | 11   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| CTC                              | Galaxy 16    | 99.0    | 6    | Mar-03     | Mar-09    | 11:33 AM                              | 12:00            |
| CubaPlay                         | Galaxy 23    | 121.0   | 8    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Daystar                          | SES 3        | 103.0   | 5    | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Deutsche Welle                   | SES 3        | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Deutsche Welle                   | Galaxy 17    | 91.0    | 13   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Discovery Channel                | AMC 10       | 135.0   | 3    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Discovery Channel HD             | AMC 10       | 135.0   | 3    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Discovery en Español             | AMC 11       | 131.0   | 13   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Discovery Familia                | AMC 11       | 131.0   | 15   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Disney Channel                   | Galaxy 14    | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Disney HD                        | Galaxy 14    | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Disney Jr                        | Galaxy 14    | 125.0   | 13   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Disney XD                        | Galaxy 14    | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Disney XD                        | Galaxy 18    | 123.0   |      | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Disney XD HD                     | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| DIY(Do-It-Yourself)              | AMC 11       | 131.0   | 9    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Dominican View                   | SES 3        | 103.0   | 20   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| E!                               | AMC 10       | 135.0   | 14   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| E! HD                            | AMC 11       | 131.0   | 9    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Ecuavisa Internacional           | Eutelsat 117 | 116.8   | 14   | Mar-03     | Mar-09    | 12:55 PM                              | 12:00            |
| El Garage                        | SES 6        | 40.5    | 9    | Mar-04     | Mar-11    | 07:18 AM / 08:18 AM                   | 11:50            |
| El Gourmet                       | SES 6        | 40.5    | 14   | Mar-04     | Mar-11    | 07:18 AM / 08:18 AM                   | 11:50            |
| Ella                             | Galaxy 17    | 91.0    | 20   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Encore                           | Galaxy 15    | 133.0   | 14   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore -(East)                   | Galaxy 14    | 125.0   | 14   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Encore -(West)                   | Galaxy 14    | 125.0   | 14   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Encore Action                    | Galaxy 15    | 133.0   | 4    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |

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|-----------------------------|-------------|---------|------|------------|-----------|---------------------------------------|------------------|
| Encore Drama                | Galaxy 15   | 133.0   | 11   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore Family               | Galaxy 15   | 133.0   | 11   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore HD                   | Galaxy 13   | 127.0   | 9    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Encore Love Stories         | Galaxy 15   | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore Mystery              | Galaxy 15   | 133.0   | 9    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore West                 | Galaxy 15   | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Encore Westerns             | Galaxy 15   | 133.0   | 6    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Enlace Juvenile             | Intelsat 21 | 58.0    | 22   | Mar-04     | Mar-10    | 08:31 AM                              | 11:55            |
| Enlace TBN                  | Galaxy 23   | 121.0   | 6    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| EPL Overflow                | Galaxy 14   | 125.0   | 6    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN                        | Galaxy 15   | 133.0   | 6    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| ESPN Classic                | Galaxy 18   | 123.0   | 21   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| ESPN Deportes               | Galaxy 14   | 125.0   | 2    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN Deportes               | Galaxy 14   | 125.0   | 6    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN Goal-Buzz Beat HD      | Galaxy 18   | 123.0   | 4    | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| ESPN Goal-Buzz Beat SD      | Galaxy 18   | 123.0   | 8    | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| ESPN HD                     | Galaxy 14   | 125.0   | 16   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN U.SD                   | Galaxy 14   | 125.0   | 8    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN Uni. HD                | Galaxy 14   | 125.0   | 16   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPN2                       | Galaxy 15   | 133.0   | 21   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| ESPN2 HD                    | Galaxy 14   | 125.0   | 8    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| ESPNews                     | Galaxy 18   | 123.0   | 14   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| ESPNews HD                  | Galaxy 15   | 133.0   | 2    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| ESPNU HD                    | Galaxy 15   | 133.0   | 21   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Esquire                     | AMC 10      | 135.0   | 22   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| ET TV Global NY (Chinese)   | Galaxy 23   | 121.0   | 6    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| ETTV                        | Galaxy 23   | 121.0   | 8    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| EuroNews                    | Galaxy 23   | 121.0   | 4    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| EWTN                        | Galaxy 15   | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| EWTN                        | Galaxy 17   | 91.0    | 10   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| EWTN Espanol                | Galaxy 15   | 133.0   | 5    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| EWTN Español (ESP)          | Galaxy 17   | 91.0    | 5    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Fantasy Sports              | Galaxy 23   | 121.0   | 4    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Fight Now TV                | Galaxy 23   | 121.0   | 9    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Flix                        | AMC 11      | 131.0   | 12   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Food Network                | AMC 11      | 131.0   | 5    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Food Network HD             | AMC 10      | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| FORO tv                     | AMC 10      | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| FOX Business Network        | Galaxy 17   | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Business Network HD     | Galaxy 17   | 91.0    | 18   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX College Sports Atlantic | Galaxy 17   | 91.0    | 8    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX College Sports Central  | Galaxy 17   | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX College Sports Pacific  | Galaxy 17   | 91.0    | 19   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Deportes                | Galaxy 15   | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| FOX Life                    | AMC 10      | 135.0   | 16   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Fox Movie Channel           | Galaxy 17   | 91.0    | 19   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX News Channel            | Galaxy 17   | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX News HD                 | Galaxy 15   | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| FOX Soccer Channel          | Galaxy 17   | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Soccer HD               | Galaxy 17   | 91.0    | 19   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Soccer Plus             | Galaxy 17   | 91.0    | 23   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Soccer Plus HD          | Galaxy 17   | 91.0    | 16   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FOX Sports 1                | Galaxy 15   | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |

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|---------------------------|-----------|---------|------|------------|-----------|---------------------------------------|------------------|
| FOX Sports 2              | Galaxy 17 | 91.0    | 16   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FoxMoviesHD               | Galaxy 15 | 133.0   | 18   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| FUEL TV                   | Galaxy 17 | 91.0    | 8    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| fuse                      | Galaxy 23 | 121.0   | 19   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| fuse HD                   | Galaxy 14 | 125.0   | 23   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Fusion                    | AMC 10    | 135.0   | 23   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| FX                        | Galaxy 17 | 91.0    | 16   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| FX HD                     | Galaxy 17 | 91.0    | 16   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Fxx                       | Galaxy 17 | 91.0    | 9    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| G4                        | AMC 10    | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| G4 HD                     | AMC 11    | 131.0   | 23   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Galavision                | AMC 11    | 131.0   | 23   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Galavisión                | AMC 10    | 135.0   | 12   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| GAME SHOW NETWORK (GSN)   | AMC 11    | 131.0   | 10   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| GMA Pinoy                 | SES 3     | 103.0   | 16   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| GOL TV                    | SES 3     | 103.0   | 14   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| GOL TV (Spanish)          | SES 3     | 103.0   | 1    | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Golf HD                   | Galaxy 14 | 125.0   | 2    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Great American Country    | AMC 11    | 131.0   | 16   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| HI TV                     | Galaxy 14 | 125.0   | 22   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| H2                        | AMC 11    | 131.0   | 14   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Hallmark Channel          | AMC 11    | 131.0   | 21   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Hallmark Movie Channel    | AMC 11    | 131.0   | 2    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Hallmark Movie Channel HD | AMC 11    | 131.0   | 6    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| HBO                       | Galaxy 15 | 133.0   | 6    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO                       | Galaxy 14 | 125.0   | 21   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO (West)                | Galaxy 14 | 125.0   | 15   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO 2 (west)              | Galaxy 14 | 125.0   | 23   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO 2 East                | Galaxy 14 | 125.0   | 21   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Comedy East           | Galaxy 15 | 133.0   | 22   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Comedy HD             | Galaxy 14 | 125.0   | 4    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Family                | Galaxy 14 | 125.0   | 4    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Family                | Galaxy 15 | 133.0   | 4    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Family (West)         | Galaxy 14 | 125.0   | 11   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Family HD             | Galaxy 15 | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Family West           | Galaxy 15 | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Family West HD        | Galaxy 14 | 125.0   | 18   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO HD                    | Galaxy 15 | 133.0   | 18   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Latino                | Galaxy 14 | 125.0   | 13   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Latino                | Galaxy 15 | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Latino HD             | Galaxy 15 | 133.0   | 11   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Signature             | Galaxy 14 | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Signature             | Galaxy 15 | 133.0   | 15   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Signature (West)      | Galaxy 14 | 125.0   | 15   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Signature HD          | Galaxy 15 | 133.0   | 15   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Signature West        | Galaxy 15 | 133.0   | 1    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Signature West HD     | Galaxy 14 | 125.0   | 24   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO West                  | Galaxy 15 | 133.0   | 2    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO West HD               | Galaxy 14 | 125.0   | 2    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO Zone East             | Galaxy 15 | 133.0   | 22   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO Zone HD               | Galaxy 14 | 125.0   | 16   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| HBO2 HD                   | Galaxy 15 | 133.0   | 16   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| HBO2 West                 | Galaxy 15 | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |

# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name       | Satellite    | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest<br>Duration |
|----------------------------|--------------|---------|------|------------|-----------|---------------------------------------|---------------------|
| HBO2 West                  | Galaxy 15    | 133.0   | 23   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| HBO2 West HD               | Galaxy 14    | 125.0   | 23   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| HD Theater                 | AMC 11       | 131.0   | 9    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| Headline NEWS              | Galaxy 15    | 133.0   | 10   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| HGTV                       | AMC 11       | 131.0   | 15   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| HGTV HD                    | AMC 10       | 135.0   | 11   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| History                    | Galaxy 18    | 123.0   | 21   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00               |
| History Channel HD         | Galaxy 14    | 125.0   | 15   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| History en Español         | AMC 11       | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| HITN                       | Galaxy 23    | 121.0   | 24   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00               |
| Home Shopping Net.         | AMC 10       | 135.0   | 18   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| HSN                        | AMC 10       | 135.0   | 8    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| HTV música                 | Galaxy 15    | 133.0   | 14   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| IDInvestigativeDiscoveryHD | Galaxy 13    | 127.0   | 14   | Mar-03     | Mar-09    | 01:41 PM                              | 12:00               |
| IFC                        | Galaxy 14    | 125.0   | 24   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| IFC                        | Galaxy 15    | 133.0   | 17   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| IFC HD                     | Galaxy 14    | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| Infinito                   | Galaxy 14    | 125.0   | 3    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| Infinito                   | Galaxy 15    | 133.0   | 7    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| Inspiration                | Galaxy 15    | 133.0   | 22   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| Investigation Discovery    | AMC 11       | 131.0   | 21   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| iTVN                       | Galaxy 23    | 121.0   | 15   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00               |
| Jewelry Television         | Galaxy 23    | 121.0   | 5    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00               |
| Jus Punjabi                | SES 3        | 103.0   | 9    | Mar-03     | Mar-09    | 11:52 AM                              | 12:00               |
| La Familia Network         | Galaxy 23    | 121.0   | 11   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00               |
| LAS                        | Eutelsat 113 | 113.0   | 24   | Mar-03     | Mar-09    | 12:37 PM                              | 12:00               |
| Latele Novela              | Galaxy 23    | 121.0   | 9    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00               |
| Life OK                    | Galaxy 17    | 91.0    | 24   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00               |
| Lifetime                   | AMC 11       | 131.0   | 20   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| Lifetime                   | Galaxy 14    | 125.0   | 22   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| Logo                       | AMC 11       | 131.0   | 22   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| María+Visión               | Intelsat 21  | 58.0    | 4    | Mar-04     | Mar-10    | 08:31 AM                              | 11:55               |
| MavTV                      | Galaxy 17    | 91.0    | 12   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00               |
| MAX Latino                 | Galaxy 15    | 133.0   | 3    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| Mediaset                   | Galaxy 17    | 91.0    | 19   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00               |
| Mexicanal                  | Eutelsat 113 | 113.0   | 19   | Mar-03     | Mar-09    | 12:37 PM                              | 12:00               |
| Military Channel           | AMC 11       | 131.0   | 19   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| MLB Network                | Galaxy 17    | 91.0    | 24   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00               |
| MLB Network HD             | Galaxy 17    | 91.0    | 19   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00               |
| MLB-NHL plex               | SES 3        | 103.0   | 20   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00               |
| Momentum TV                | Eutelsat 117 | 116.8   | 19   | Mar-03     | Mar-09    | 12:55 PM                              | 12:00               |
| MoreMAX                    | Galaxy 15    | 133.0   | 19   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| MoreMAX HD                 | Galaxy 15    | 133.0   | 24   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00               |
| MSG                        | SES 3        | 103.0   | 5    | Mar-03     | Mar-09    | 11:52 AM                              | 12:00               |
| MSG Plus                   | SES 3        | 103.0   | 20   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00               |
| MSNBC                      | AMC 10       | 135.0   | 19   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| MSNBC HD                   | Galaxy 14    | 125.0   | 24   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00               |
| MTV                        | AMC 10       | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| MTV HD                     | AMC 10       | 135.0   | 20   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00               |
| MTV Hits                   | AMC 11       | 131.0   | 5    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| MTV Tr3s                   | AMC 11       | 131.0   | 20   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| MTV2                       | AMC 11       | 131.0   | 19   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00               |
| Multimedios                | Eutelsat 113 | 113.0   | 17   | Mar-03     | Mar-09    | 12:37 PM                              | 12:00               |

# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name           | Satellite | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|--------------------------------|-----------|---------|------|------------|-----------|---------------------------------------|------------------|
| mun2                           | AMC 11    | 131.0   | 17   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Music Choice                   | Galaxy 14 | 125.0   | 11   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Nat Geo Mundo                  | Galaxy 17 | 91.0    | 6    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| National Geographic Channel    | Galaxy 17 | 91.0    | 21   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| National Geographic Channel HD | Galaxy 17 | 91.0    | 4    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| National Geographic Wild       | Galaxy 17 | 91.0    | 15   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| National Geographic Wild HD    | Galaxy 17 | 91.0    | 3    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| National Jewish TV             | Galaxy 23 | 121.0   | 18   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| NBA TV                         | Galaxy 14 | 125.0   | 1    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| NBA TV                         | Galaxy 13 | 127.0   | 7    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| NBA TV HD                      | Galaxy 13 | 127.0   | 3    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| NBA-MLS plex                   | SES 3     | 103.0   | 13   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| NBC Sports Network             | Galaxy 17 | 91.0    | 13   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| NESN                           | AMC 11    | 131.0   | 13   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| NESN HD                        | AMC 11    | 131.0   | 15   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| New Tang Dynasty               | Galaxy 23 | 121.0   | 13   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| NHL Network                    | Galaxy 17 | 91.0    | 15   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| NHL Network HD                 | Galaxy 15 | 133.0   | 15   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Nick Jr.                       | AMC 11    | 131.0   | 13   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Nickelodeon                    | AMC 10    | 135.0   | 13   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Nickelodeon HD                 | AMC 11    | 131.0   | 15   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Nickelodeon Toons              | AMC 11    | 131.0   | 13   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| NTN24                          | SES 3     | 103.0   | 15   | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Nuestra Tele                   | SES 3     | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| One World Sports               | Galaxy 13 | 127.0   | 8    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Outdoor Channel                | Galaxy 18 | 123.0   | 1    | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Outdoor Channel HD             | Galaxy 18 | 123.0   | 11   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| OuterMAX                       | Galaxy 15 | 133.0   | 14   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| OuterMAX HD                    | Galaxy 14 | 125.0   | 24   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| OWN                            | AMC 10    | 135.0   | 18   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| OWN HD                         | Galaxy 13 | 127.0   | 5    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Oxygen                         | Galaxy 17 | 91.0    | 8    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Palladia HD                    | AMC 10    | 135.0   | 15   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Passiones                      | Galaxy 23 | 121.0   | 13   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Pay Per View (IN DEMAND 1)     | AMC 11    | 131.0   | 14   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Pay Per View (IN DEMAND 3)     | AMC 11    | 131.0   | 6    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Pay Per View HD                | AMC 10    | 135.0   | 21   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Planet Green                   | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Planet Green HD                | AMC 10    | 135.0   | 7    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Playboy Esp                    | Galaxy 23 | 121.0   | 7    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Playboy TV (Adult)             | Galaxy 23 | 121.0   | 22   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Puerto Rico Network            | Galaxy 16 | 99.0    | 19   | Mar-03     | Mar-09    | 11:33 AM                              | 12:00            |
| Puerto Rico Network            | Galaxy 23 | 121.0   | 20   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| QVC                            | AMC 10    | 135.0   | 24   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| QVC HD                         | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Rai Italia (Italian)           | Galaxy 17 | 91.0    | 18   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Reelz                          | Galaxy 13 | 127.0   | 8    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| ReelzChannel                   | Galaxy 17 | 91.0    | 14   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| RTN Russian                    | Galaxy 17 | 91.0    | 21   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| RTPi                           | Galaxy 11 | 55.5    | 5    | Mar-04     | Mar-10    | 08:21 AM                              | 11:55            |
| RTPi (Portuguese)              | Galaxy 19 | 97.0    | 20   | Mar-03     | Mar-09    | 11:24 AM                              | 12:00            |
| RTR Planeta                    | Galaxy 16 | 99.0    | 19   | Mar-03     | Mar-09    | 11:33 AM                              | 12:00            |
| Science                        | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |

# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name      | Satellite | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|---------------------------|-----------|---------|------|------------|-----------|---------------------------------------|------------------|
| Science HD                | Galaxy 13 | 127.0   | 5    | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Semilitas                 | Galaxy 23 | 121.0   | 20   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| SET Asia (South Asian)    | Galaxy 23 | 121.0   | 5    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Shalom TV                 | Galaxy 16 | 99.0    | 23   | Mar-03     | Mar-09    | 11:33 AM                              | 12:00            |
| ShopNBC                   | Galaxy 14 | 125.0   | 9    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Showtime                  | AMC 11    | 131.0   | 5    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime (West)           | AMC 10    | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Showtime 2 (West)         | AMC 10    | 135.0   | 17   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Showtime Beyond           | AMC 11    | 131.0   | 16   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Extreme          | AMC 11    | 131.0   | 17   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Extreme HD       | Galaxy 14 | 125.0   | 24   | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Showtime Family Zone      | AMC 11    | 131.0   | 6    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime HD               | AMC 10    | 135.0   | 5    | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Showtime Next             | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Showcase         | AMC 11    | 131.0   | 21   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Showcase (West)  | AMC 10    | 135.0   | n/a  | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Showtime Showcase HD      | Galaxy 14 | 125.0   | 5    | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Showtime Showcase West    | Galaxy 18 | 123.0   | 18   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Showtime Showcase West HD | AMC 11    | 131.0   | 13   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Too              | AMC 11    | 131.0   | 21   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Too HD           | Galaxy 14 | 125.0   | n/a  | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Showtime Too West         | Galaxy 18 | 123.0   | 24   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Showtime Too West HD      | AMC 11    | 131.0   | 10   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime West             | Galaxy 18 | 123.0   | 17   | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Showtime West HD          | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Showtime Women            | AMC 11    | 131.0   | 18   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Smithsonian Channel       | AMC 11    | 131.0   | 24   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Smithsonian Channel HD    | AMC 11    | 131.0   | 15   | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| SoapNet                   | Galaxy 18 | 123.0   | 7    | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| Sorpresa                  | Galaxy 23 | 121.0   | 7    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Speed Channel             | Galaxy 15 | 133.0   | 4    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Speed Channel HD          | Galaxy 15 | 133.0   | 11   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Spice Xcess (Adult)       | Galaxy 23 | 121.0   | 15   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Spice Xcess XX            | Galaxy 23 | 121.0   | 21   | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Spike HD                  | AMC 10    | 135.0   | 15   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Spike TV                  | AMC 11    | 131.0   | 4    | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Sportsman Channel         | Galaxy 23 | 121.0   | 1    | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| SportsNet New York        | Galaxy 17 | 91.0    | 2    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| SportsNet New York HD     | Galaxy 17 | 91.0    | 1    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Sprout                    | AMC 10    | 135.0   | 18   | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Stars India Gold          | Galaxy 17 | 91.0    | 8    | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Stars India Plus          | Galaxy 17 | 91.0    | 15   | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| Starz                     | Galaxy 15 | 133.0   | 6    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Cinema              | Galaxy 15 | 133.0   | 6    | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Comedy              | Galaxy 15 | 133.0   | 12   | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Comedy HD           | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Starz Edge                | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Edge HD             | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Starz HD                  | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Starz InBlack             | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Kids & Family       | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Starz Kids & Family HD    | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Starz West                | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |

# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name    | Satellite    | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|-------------------------|--------------|---------|------|------------|-----------|---------------------------------------|------------------|
| Starz West HD           | Galaxy 13    | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Style                   | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Style HD                | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Sundance Channel        | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Super Cana Carib        | SES 3        | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Supercanal Canal Caribe | SES 3        | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| SUR Peru                | Galaxy 23    | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Syfy                    | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Syfy HD                 | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TBN Enlace              | Galaxy 23    | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| TBS                     | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TBS (Main)              | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| TBS in HD               | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| TCM                     | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| TeenNick                | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Tele El Salvador        | SES 2        | 87.0    |      | Mar-03     | Mar-10    | 10:39 AM                              | 11:55            |
| Tele El Salvador        | SES 3        | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| telefe internacional    | Galaxy 23    | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Telemicro Internacional | Eutelsat 113 | 113.0   |      | Mar-03     | Mar-09    | 12:37 PM                              | 12:00            |
| TEMPO                   | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Tempo                   | Galaxy 23    | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| The Cooking Channel     | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| The Filipino Channel    | Galaxy 17    | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| The Golf Channel        | Galaxy 17    | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| The Hub                 | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| The Israeli Network     | Galaxy 23    | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| The Learning Channel    | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| The Movie Channel       | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| The Movie Channel HD    | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| The Weather Channel     | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| The Weather Channel HD  | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| ThrillerMAX             | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| ThrillerMAX HD          | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TLC                     | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TLC HD                  | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TLNovelas               | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TMC West                | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TMC West                | Galaxy 18    | 123.0   |      | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| TMC West HD             | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| TMC Xtra                | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| TMC Xtra HD             | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TMC Xtra West           | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TMC Xtra West           | Galaxy 18    | 123.0   |      | Mar-03     | Mar-09    | 01:23 PM                              | 12:00            |
| TMC Xtra West HD        | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| TNT                     | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TNT                     | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| TNT in HD               | Galaxy 13    | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| Travel Channel          | AMC 11       | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Travel Channel HD       | AMC 10       | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Trinity Broadcast Net   | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TRU TV                  | Galaxy 15    | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| truTV                   | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| truTV HD                | Galaxy 14    | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |



# Satellite Sun Outage Dates and Times for Spring 2018

## Phoenix, AZ

| Service/Program Name     | Satellite | Azimuth | Xpdr | First Date | Last Date | Earliest Start<br>STD / DST (if appl) | Longest Duration |
|--------------------------|-----------|---------|------|------------|-----------|---------------------------------------|------------------|
| Turner Classic Movies    | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Turner Classic Movies HD | Galaxy 14 | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| TV 5                     | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| TV Asia (South Asian)    | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| TV Chile                 | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| TV Colombia              | SES 3     | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| TV Dominicana            | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| TV Games                 | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| TV Globo (Brazilian)     | Galaxy 11 | 55.5    |      | Mar-04     | Mar-10    | 08:21 AM                              | 11:55            |
| TV Japan                 | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| TV Land                  | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| TV One                   | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| TV Polonia (Polish)      | Galaxy 19 | 97.0    |      | Mar-03     | Mar-09    | 11:24 AM                              | 12:00            |
| TV Record                | SES 6     | 40.5    |      | Mar-04     | Mar-11    | 07:18 AM / 08:18 AM                   | 11:50            |
| TV Record (Brazilian)    | SES 6     | 40.5    |      | Mar-04     | Mar-11    | 07:18 AM / 08:18 AM                   | 11:50            |
| TV5 Monde (French)       | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| TVE International        | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| TVLandHD (no backup)     | AMC 10    | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| TVN 24                   | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| Universal HD             | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Up Net                   | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| USA HD                   | Galaxy 14 | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| USA Network              | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| USA Network              | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Utilísima Satelital      | AMC 10    | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| VERIA Living             | Galaxy 13 | 127.0   |      | Mar-03     | Mar-09    | 01:41 PM                              | 12:00            |
| VH-1                     | AMC 10    | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| VH1 Classic              | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| VH1 HD                   | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| VH1 Soul                 | AMC 11    | 131.0   |      | Mar-03     | Mar-09    | 01:59 PM                              | 12:00            |
| Viendo Movies            | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| VME Kids                 | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| W MAX                    | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| WAPA America             | Galaxy 16 | 99.0    |      | Mar-03     | Mar-09    | 11:33 AM                              | 12:00            |
| WE HD                    | Galaxy 14 | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| WE tv                    | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| Weather Ch               | AMC 10    | 135.0   |      | Mar-03     | Mar-09    | 02:17 PM                              | 12:00            |
| Willow Plus              | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |
| WMAX                     | Galaxy 15 | 133.0   |      | Mar-03     | Mar-09    | 02:08 PM                              | 12:00            |
| WMAX HD                  | Galaxy 14 | 125.0   |      | Mar-03     | Mar-09    | 01:32 PM                              | 12:00            |
| Word Network             | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| World Fishing Network    | Galaxy 17 | 91.0    |      | Mar-03     | Mar-10    | 10:57 AM                              | 12:00            |
| YES HD                   | SES 3     | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| YES Network              | SES 3     | 103.0   |      | Mar-03     | Mar-09    | 11:52 AM                              | 12:00            |
| Zee TV (South Asian)     | Galaxy 23 | 121.0   |      | Mar-03     | Mar-09    | 01:14 PM                              | 12:00            |