



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

[MENU](#)   [MAPA](#)

| ESTACIÓN  |                  |       |        | LÁZARO CÁRDENAS, MICH. |                  |       |        | ENERO 2016 |                  |       |        |
|-----------|------------------|-------|--------|------------------------|------------------|-------|--------|------------|------------------|-------|--------|
| DÍA       | HORA             | PIES  | METROS | DÍA                    | HORA             | PIES  | METROS | DÍA        | HORA             | PIES  | METROS |
| Viernes   | Cuarto Menguante |       |        | Lunes                  |                  |       |        | Jueves     |                  |       |        |
| 1         | 0127             | 0.43  | 0.13   | 11                     | 0749             | 1.31  | 0.40   | 21         | 0350             | 0.75  | 0.23   |
|           | 0736             | 1.38  | 0.42   |                        | 1656             | -0.13 | -0.04  |            | 0833             | 1.38  | 0.42   |
|           | 1419             | 0.00  | 0.00   |                        |                  |       |        |            | 1540             | -0.72 | -0.22  |
|           | 2035             | 1.15  | 0.35   |                        |                  |       |        |            | 2259             | 1.54  | 0.47   |
| Sábado    |                  |       |        | Martes                 |                  |       |        | Viernes    |                  |       |        |
| 2         | 0203             | 0.46  | 0.14   | 12                     | 0658             | 1.28  | 0.39   | 22         | 0417             | 0.82  | 0.25   |
|           | 0752             | 1.31  | 0.40   |                        | 1721             | 0.07  | 0.02   |            | 0853             | 1.31  | 0.40   |
|           | 1431             | -0.07 | -0.02  |                        |                  |       |        |            | 1610             | -0.59 | -0.18  |
|           | 2058             | 1.28  | 0.39   |                        |                  |       |        |            | 2336             | 1.38  | 0.42   |
| Domingo   |                  |       |        | Miércoles              |                  |       |        | Sábado     | Luna Llena       |       |        |
| 3         | 0232             | 0.52  | 0.16   | 13                     | 0617             | 1.25  | 0.38   | 23         | 0441             | 0.92  | 0.28   |
|           | 0802             | 1.25  | 0.38   |                        | 1716             | 0.36  | 0.11   |            | 0903             | 1.25  | 0.38   |
|           | 1439             | -0.13 | -0.04  |                        |                  |       |        |            | 1636             | -0.43 | -0.13  |
|           | 2121             | 1.35  | 0.41   |                        |                  |       |        |            |                  |       |        |
| Lunes     |                  |       |        | Jueves                 |                  |       |        | Domingo    |                  |       |        |
| 4         | 0254             | 0.62  | 0.19   | 14                     | 0617             | 1.25  | 0.38   | 24         | 0017             | 1.21  | 0.37   |
|           | 0801             | 1.18  | 0.36   |                        | 1349             | 0.49  | 0.15   |            | 0442             | 1.02  | 0.31   |
|           | 1444             | -0.20 | -0.06  |                        | 1937             | 0.72  | 0.22   |            | 0840             | 1.15  | 0.35   |
|           | 2144             | 1.38  | 0.42   |                        | 2336             | 0.59  | 0.18   |            | 1651             | -0.20 | -0.06  |
| Martes    |                  |       |        | Viernes                |                  |       |        | Lunes      |                  |       |        |
| 5         | 0306             | 0.75  | 0.23   | 15                     | 0632             | 1.25  | 0.38   | 25         | 0120             | 1.02  | 0.31   |
|           | 0743             | 1.18  | 0.36   |                        | 1309             | 0.26  | 0.08   |            | 0300             | 1.02  | 0.31   |
|           | 1450             | -0.30 | -0.09  |                        | 1939             | 1.02  | 0.31   |            | 0722             | 1.12  | 0.34   |
|           | 2207             | 1.38  | 0.42   |                        |                  |       |        |            | 1642             | 0.03  | 0.01   |
| Miércoles |                  |       |        | Sábado                 | Cuarto Creciente |       |        | Martes     |                  |       |        |
| 6         | 0308             | 0.85  | 0.26   | 16                     | 0051             | 0.56  | 0.17   | 26         | 0654             | 1.15  | 0.35   |
|           | 0739             | 1.21  | 0.37   |                        | 0650             | 1.25  | 0.38   |            | 1557             | 0.20  | 0.06   |
|           | 1500             | -0.39 | -0.12  |                        | 1319             | 0.00  | 0.00   |            |                  |       |        |
|           | 2233             | 1.38  | 0.42   |                        | 2008             | 1.31  | 0.40   |            |                  |       |        |
| Jueves    |                  |       |        | Domingo                |                  |       |        | Miércoles  |                  |       |        |
| 7         | 0305             | 0.92  | 0.28   | 17                     | 0139             | 0.56  | 0.17   | 27         | 0709             | 1.15  | 0.35   |
|           | 0747             | 1.31  | 0.40   |                        | 0707             | 1.28  | 0.39   |            | 1436             | 0.23  | 0.07   |
|           | 1515             | -0.46 | -0.14  |                        | 1340             | -0.26 | -0.08  |            | 2057             | 0.72  | 0.22   |
|           | 2301             | 1.35  | 0.41   |                        | 2041             | 1.51  | 0.46   |            |                  |       |        |
| Viernes   |                  |       |        | Lunes                  |                  |       |        | Jueves     |                  |       |        |
| 8         | 0307             | 0.98  | 0.30   | 18                     | 0218             | 0.59  | 0.18   | 28         | 0134             | 0.56  | 0.17   |
|           | 0800             | 1.35  | 0.41   |                        | 0724             | 1.31  | 0.40   |            | 0725             | 1.15  | 0.35   |
|           | 1535             | -0.49 | -0.15  |                        | 1407             | -0.49 | -0.15  |            | 1416             | 0.13  | 0.04   |
|           | 2338             | 1.28  | 0.39   |                        | 2115             | 1.64  | 0.50   |            | 2032             | 0.92  | 0.28   |
| Sábado    | Luna Nueva       |       |        | Martes                 |                  |       |        | Viernes    |                  |       |        |
| 9         | 0321             | 1.05  | 0.32   | 19                     | 0251             | 0.62  | 0.19   | 29         | 0205             | 0.46  | 0.14   |
|           | 0811             | 1.38  | 0.42   |                        | 0745             | 1.35  | 0.41   |            | 0739             | 1.12  | 0.34   |
|           | 1600             | -0.43 | -0.13  |                        | 1436             | -0.66 | -0.20  |            | 1410             | 0.03  | 0.01   |
|           |                  |       |        |                        | 2149             | 1.67  | 0.51   |            | 2039             | 1.12  | 0.34   |
| Domingo   |                  |       |        | Miércoles              |                  |       |        | Sábado     |                  |       |        |
| 10        | 0032             | 1.21  | 0.37   | 20                     | 0321             | 0.66  | 0.20   | 30         | 0229             | 0.39  | 0.12   |
|           | 0339             | 1.12  | 0.34   |                        | 0809             | 1.38  | 0.42   |            | 0750             | 1.08  | 0.33   |
|           | 0813             | 1.35  | 0.41   |                        | 1508             | -0.72 | -0.22  |            | 1414             | -0.07 | -0.02  |
|           | 1628             | -0.33 | -0.10  |                        | 2224             | 1.64  | 0.50   |            | 2053             | 1.25  | 0.38   |
|           |                  |       |        |                        |                  |       |        | Domingo    | Cuarto Menguante |       |        |
|           |                  |       |        |                        |                  |       |        | 31         | 0250             | 0.36  | 0.11   |
|           |                  |       |        |                        |                  |       |        |            | 0800             | 1.02  | 0.31   |
|           |                  |       |        |                        |                  |       |        |            | 1423             | -0.16 | -0.05  |
|           |                  |       |        |                        |                  |       |        |            | 2108             | 1.35  | 0.41   |

**HORA DEL MERIDIANO LOCAL 90° W**



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

[MENU](#)   [MAPA](#)

| ESTACIÓN  |            |       |        | LÁZARO CÁRDENAS, MICH. |                  |       |        | FEBRERO 2016 |            |       |        |
|-----------|------------|-------|--------|------------------------|------------------|-------|--------|--------------|------------|-------|--------|
| DÍA       | HORA       | PIES  | METROS | DÍA                    | HORA             | PIES  | METROS | DÍA          | HORA       | PIES  | METROS |
| Lunes     |            |       |        | Jueves                 |                  |       |        | Domingo      |            |       |        |
| 1         | 0310       | 0.39  | 0.12   | 11                     | 0008             | 0.92  | 0.28   | 21           | 0412       | 0.59  | 0.18   |
|           | 0808       | 0.98  | 0.30   |                        | 0510             | 0.75  | 0.23   |              | 0912       | 1.15  | 0.35   |
|           | 1430       | -0.23 | -0.07  |                        | 0843             | 0.82  | 0.25   |              | 1606       | -0.30 | -0.09  |
|           | 2123       | 1.41  | 0.43   |                        | 1632             | 0.49  | 0.15   |              | 2253       | 1.08  | 0.33   |
| Martes    |            |       |        | Viernes                |                  |       |        | Lunes        | Luna Llena |       |        |
| 2         | 0324       | 0.49  | 0.15   | 12                     | 0003             | 0.79  | 0.24   | 22           | 0352       | 0.62  | 0.19   |
|           | 0805       | 0.95  | 0.29   |                        | 0318             | 0.75  | 0.23   |              | 0909       | 1.05  | 0.32   |
|           | 1433       | -0.33 | -0.10  |                        | 1231             | 0.46  | 0.14   |              | 1606       | -0.07 | -0.02  |
|           | 2138       | 1.44  | 0.44   |                        | 2007             | 0.95  | 0.29   |              | 2246       | 0.92  | 0.28   |
| Miércoles |            |       |        | Sábado                 |                  |       |        | Martes       |            |       |        |
| 3         | 0330       | 0.59  | 0.18   | 13                     | 0143             | 0.66  | 0.20   | 23           | 0316       | 0.59  | 0.18   |
|           | 0744       | 0.98  | 0.30   |                        | 0619             | 0.85  | 0.26   |              | 0845       | 0.95  | 0.29   |
|           | 1437       | -0.43 | -0.13  |                        | 1237             | 0.10  | 0.03   |              | 1550       | 0.10  | 0.03   |
|           | 2154       | 1.44  | 0.44   |                        | 1956             | 1.28  | 0.39   |              | 2224       | 0.82  | 0.25   |
| Jueves    |            |       |        | Domingo                |                  |       |        | Miércoles    |            |       |        |
| 4         | 0325       | 0.69  | 0.21   | 14                     | 0152             | 0.52  | 0.16   | 24           | 0259       | 0.49  | 0.15   |
|           | 0736       | 1.08  | 0.33   |                        | 0645             | 0.92  | 0.28   |              | 0820       | 0.92  | 0.28   |
|           | 1447       | -0.52 | -0.16  |                        | 1305             | -0.20 | -0.06  |              | 1517       | 0.23  | 0.07   |
|           | 2212       | 1.44  | 0.44   |                        | 2017             | 1.54  | 0.47   |              | 2130       | 0.79  | 0.24   |
| Viernes   |            |       |        | Lunes                  | Cuarto Creciente |       |        | Jueves       |            |       |        |
| 5         | 0319       | 0.75  | 0.23   | 15                     | 0217             | 0.46  | 0.14   | 25           | 0239       | 0.36  | 0.11   |
|           | 0750       | 1.21  | 0.37   |                        | 0712             | 1.05  | 0.32   |              | 0804       | 0.85  | 0.26   |
|           | 1503       | -0.62 | -0.19  |                        | 1336             | -0.46 | -0.14  |              | 1421       | 0.23  | 0.07   |
|           | 2231       | 1.44  | 0.44   |                        | 2045             | 1.71  | 0.52   |              | 2032       | 0.89  | 0.27   |
| Sábado    |            |       |        | Martes                 |                  |       |        | Viernes      |            |       |        |
| 6         | 0322       | 0.75  | 0.23   | 16                     | 0243             | 0.39  | 0.12   | 26           | 0241       | 0.26  | 0.08   |
|           | 0813       | 1.35  | 0.41   |                        | 0738             | 1.15  | 0.35   |              | 0759       | 0.82  | 0.25   |
|           | 1524       | -0.62 | -0.19  |                        | 1408             | -0.66 | -0.20  |              | 1400       | 0.13  | 0.04   |
|           | 2249       | 1.38  | 0.42   |                        | 2114             | 1.74  | 0.53   |              | 2018       | 1.05  | 0.32   |
| Domingo   |            |       |        | Miércoles              |                  |       |        | Sábado       |            |       |        |
| 7         | 0336       | 0.79  | 0.24   | 17                     | 0307             | 0.36  | 0.11   | 27           | 0254       | 0.16  | 0.05   |
|           | 0841       | 1.38  | 0.42   |                        | 0804             | 1.25  | 0.38   |              | 0802       | 0.79  | 0.24   |
|           | 1549       | -0.56 | -0.17  |                        | 1438             | -0.75 | -0.23  |              | 1352       | 0.00  | 0.00   |
|           | 2307       | 1.28  | 0.39   |                        | 2142             | 1.71  | 0.52   |              | 2025       | 1.21  | 0.37   |
| Lunes     | Luna Nueva |       |        | Jueves                 |                  |       |        | Domingo      |            |       |        |
| 8         | 0357       | 0.79  | 0.24   | 18                     | 0329             | 0.39  | 0.12   | 28           | 0309       | 0.10  | 0.03   |
|           | 0911       | 1.35  | 0.41   |                        | 0827             | 1.28  | 0.39   |              | 0809       | 0.75  | 0.23   |
|           | 1615       | -0.39 | -0.12  |                        | 1506             | -0.75 | -0.23  |              | 1355       | -0.10 | -0.03  |
|           | 2325       | 1.18  | 0.36   |                        | 2207             | 1.61  | 0.49   |              | 2038       | 1.35  | 0.41   |
| Martes    |            |       |        | Viernes                |                  |       |        | Lunes        |            |       |        |
| 9         | 0422       | 0.75  | 0.23   | 19                     | 0348             | 0.46  | 0.14   | 29           | 0322       | 0.10  | 0.03   |
|           | 0941       | 1.25  | 0.38   |                        | 0848             | 1.28  | 0.39   |              | 0814       | 0.72  | 0.22   |
|           | 1641       | -0.13 | -0.04  |                        | 1531             | -0.66 | -0.20  |              | 1403       | -0.20 | -0.06  |
|           | 2346       | 1.05  | 0.32   |                        | 2230             | 1.44  | 0.44   |              | 2052       | 1.41  | 0.43   |
| Miércoles |            |       |        | Sábado                 |                  |       |        |              |            |       |        |
| 10        | 0448       | 0.75  | 0.23   | 20                     | 0404             | 0.52  | 0.16   |              |            |       |        |
|           | 1005       | 1.05  | 0.32   |                        | 0904             | 1.25  | 0.38   |              |            |       |        |
|           | 1701       | 0.16  | 0.05   |                        | 1552             | -0.49 | -0.15  |              |            |       |        |
|           |            |       |        |                        | 2247             | 1.28  | 0.39   |              |            |       |        |

HORA DEL MERIDIANO LOCAL 90° W



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

[MENU](#)   [MAPA](#)

| ESTACIÓN  |                  |       |        | LÁZARO CÁRDENAS, MICH. |                  |       |        | MARZO 2016           |                  |       |        |
|-----------|------------------|-------|--------|------------------------|------------------|-------|--------|----------------------|------------------|-------|--------|
| DÍA       | HORA             | PIES  | METROS | DÍA                    | HORA             | PIES  | METROS | DÍA                  | HORA             | PIES  | METROS |
| Martes    | Cuarto Menguante |       |        | Viernes                |                  |       |        | Lunes                |                  |       |        |
| 1         | 0328             | 0.13  | 0.04   | 11                     | 0517             | 0.23  | 0.07   | 21                   | 0342             | 0.26  | 0.08   |
|           | 0816             | 0.69  | 0.21   |                        | 1242             | 0.72  | 0.22   |                      | 0926             | 1.05  | 0.32   |
|           | 1408             | -0.30 | -0.09  |                        | 1440             | 0.69  | 0.21   |                      | 1538             | 0.00  | 0.00   |
|           | 2103             | 1.48  | 0.45   |                        | 2033             | 0.95  | 0.29   |                      | 2146             | 1.05  | 0.32   |
| Miércoles |                  |       |        | Sábado                 |                  |       |        | Martes               |                  |       |        |
| 2         | 0330             | 0.23  | 0.07   | 12                     | 0951             | 0.26  | 0.08   | 22                   | 0326             | 0.26  | 0.08   |
|           | 0810             | 0.69  | 0.21   |                        | 1924             | 1.21  | 0.37   |                      | 0934             | 0.98  | 0.30   |
|           | 1410             | -0.36 | -0.11  |                        |                  |       |        |                      | 1529             | 0.16  | 0.05   |
|           | 2115             | 1.48  | 0.45   |                        |                  |       |        |                      | 2130             | 0.95  | 0.29   |
| Jueves    |                  |       |        | Domingo                |                  |       |        | Miércoles Luna Llena |                  |       |        |
| 3         | 0326             | 0.36  | 0.11   | 13                     | 0311             | 0.43  | 0.13   | 23                   | 0312             | 0.20  | 0.06   |
|           | 0751             | 0.75  | 0.23   |                        | 0551             | 0.49  | 0.15   |                      | 0939             | 0.85  | 0.26   |
|           | 1415             | -0.49 | -0.15  |                        | 1148             | -0.03 | -0.01  |                      | 1509             | 0.33  | 0.10   |
|           | 2129             | 1.48  | 0.45   |                        | 1931             | 1.51  | 0.46   |                      | 2100             | 0.92  | 0.28   |
| Viernes   |                  |       |        | Lunes                  |                  |       |        | Jueves               |                  |       |        |
| 4         | 0313             | 0.46  | 0.14   | 14                     | 0214             | 0.33  | 0.10   | 24                   | 0310             | 0.10  | 0.03   |
|           | 0739             | 0.92  | 0.28   |                        | 0635             | 0.69  | 0.21   |                      | 0926             | 0.72  | 0.22   |
|           | 1427             | -0.59 | -0.18  |                        | 1238             | -0.33 | -0.10  |                      | 1428             | 0.39  | 0.12   |
|           | 2142             | 1.48  | 0.45   |                        | 1955             | 1.71  | 0.52   |                      | 2014             | 0.95  | 0.29   |
| Sábado    |                  |       |        | Martes                 | Cuarto Creciente |       |        | Viernes              |                  |       |        |
| 5         | 0306             | 0.46  | 0.14   | 15                     | 0220             | 0.20  | 0.06   | 25                   | 0304             | 0.03  | 0.01   |
|           | 0753             | 1.12  | 0.34   |                        | 0709             | 0.89  | 0.27   |                      | 0854             | 0.62  | 0.19   |
|           | 1444             | -0.66 | -0.20  |                        | 1318             | -0.56 | -0.17  |                      | 1334             | 0.36  | 0.11   |
|           | 2154             | 1.44  | 0.44   |                        | 2023             | 1.80  | 0.55   |                      | 1948             | 1.08  | 0.33   |
| Domingo   |                  |       |        | Miércoles              |                  |       |        | Sábado               |                  |       |        |
| 6         | 0309             | 0.43  | 0.13   | 16                     | 0238             | 0.13  | 0.04   | 26                   | 0258             | 0.00  | 0.00   |
|           | 0819             | 1.28  | 0.39   |                        | 0740             | 1.05  | 0.32   |                      | 0830             | 0.52  | 0.16   |
|           | 1505             | -0.62 | -0.19  |                        | 1354             | -0.66 | -0.20  |                      | 1315             | 0.26  | 0.08   |
|           | 2202             | 1.41  | 0.43   |                        | 2051             | 1.77  | 0.54   |                      | 1945             | 1.25  | 0.38   |
| Lunes     |                  |       |        | Jueves                 |                  |       |        | Domingo              |                  |       |        |
| 7         | 0322             | 0.36  | 0.11   | 17                     | 0258             | 0.10  | 0.03   | 27                   | 0305             | -0.07 | -0.02  |
|           | 0853             | 1.35  | 0.41   |                        | 0809             | 1.18  | 0.36   |                      | 0815             | 0.49  | 0.15   |
|           | 1529             | -0.49 | -0.15  |                        | 1424             | -0.66 | -0.20  |                      | 1309             | 0.10  | 0.03   |
|           | 2213             | 1.31  | 0.40   |                        | 2115             | 1.67  | 0.51   |                      | 1955             | 1.38  | 0.42   |
| Martes    | Luna Nueva       |       |        | Viernes                |                  |       |        | Lunes                |                  |       |        |
| 8         | 0343             | 0.30  | 0.09   | 18                     | 0316             | 0.13  | 0.04   | 28                   | 0318             | -0.10 | -0.03  |
|           | 0930             | 1.35  | 0.41   |                        | 0835             | 1.21  | 0.37   |                      | 0814             | 0.49  | 0.15   |
|           | 1554             | -0.26 | -0.08  |                        | 1451             | -0.56 | -0.17  |                      | 1316             | 0.00  | 0.00   |
|           | 2228             | 1.25  | 0.38   |                        | 2136             | 1.54  | 0.47   |                      | 2008             | 1.44  | 0.44   |
| Miércoles |                  |       |        | Sábado                 |                  |       |        | Martes               |                  |       |        |
| 9         | 0410             | 0.23  | 0.07   | 19                     | 0331             | 0.16  | 0.05   | 29                   | 0331             | -0.10 | -0.03  |
|           | 1012             | 1.21  | 0.37   |                        | 0857             | 1.18  | 0.36   |                      | 0816             | 0.46  | 0.14   |
|           | 1618             | 0.00  | 0.00   |                        | 1513             | -0.39 | -0.12  |                      | 1324             | -0.10 | -0.03  |
|           | 2243             | 1.12  | 0.34   |                        | 2150             | 1.35  | 0.41   |                      | 2020             | 1.51  | 0.46   |
| Jueves    |                  |       |        | Domingo                |                  |       |        | Miércoles            |                  |       |        |
| 10        | 0441             | 0.20  | 0.06   | 20                     | 0340             | 0.23  | 0.07   | 30                   | 0334             | 0.00  | 0.00   |
|           | 1102             | 0.98  | 0.30   |                        | 0914             | 1.15  | 0.35   |                      | 0811             | 0.46  | 0.14   |
|           | 1634             | 0.36  | 0.11   |                        | 1530             | -0.20 | -0.06  |                      | 1329             | -0.20 | -0.06  |
|           | 2245             | 0.98  | 0.30   |                        | 2154             | 1.18  | 0.36   |                      | 2030             | 1.54  | 0.47   |
|           |                  |       |        |                        |                  |       |        | Jueves               | Cuarto Menguante |       |        |
|           |                  |       |        |                        |                  |       |        | 31                   | 0324             | 0.10  | 0.03   |
|           |                  |       |        |                        |                  |       |        |                      | 0759             | 0.52  | 0.16   |
|           |                  |       |        |                        |                  |       |        |                      | 1334             | -0.30 | -0.09  |
|           |                  |       |        |                        |                  |       |        |                      | 2041             | 1.54  | 0.47   |

**HORA DEL MERIDIANO LOCAL 90° W**



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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| ESTACIÓN  |            |       |        | LÁZARO CÁRDENAS, MICH.     |      |       |        | ABRIL 2016 |                  |       |        |
|-----------|------------|-------|--------|----------------------------|------|-------|--------|------------|------------------|-------|--------|
| DÍA       | HORA       | PIES  | METROS | DÍA                        | HORA | PIES  | METROS | DÍA        | HORA             | PIES  | METROS |
| Viernes   |            |       |        | Lunes                      |      |       |        | Jueves     | Luna Llena       |       |        |
| 1         | 0310       | 0.20  | 0.06   | 11                         | 0330 | 0.33  | 0.10   | 21         | 0314             | 0.00  | 0.00   |
|           | 0742       | 0.66  | 0.20   |                            | 0459 | 0.36  | 0.11   |            | 1031             | 0.92  | 0.28   |
|           | 1343       | -0.39 | -0.12  |                            | 1045 | -0.10 | -0.03  |            | 1440             | 0.69  | 0.21   |
|           | 2053       | 1.54  | 0.47   |                            | 1857 | 1.71  | 0.52   |            | 2000             | 1.12  | 0.34   |
| Sábado    |            |       |        | Martes                     |      |       |        | Viernes    |                  |       |        |
| 2         | 0254       | 0.26  | 0.08   | 12                         | 0159 | 0.26  | 0.08   | 22         | 0317             | -0.03 | -0.01  |
|           | 0734       | 0.85  | 0.26   |                            | 0616 | 0.62  | 0.19   |            | 1102             | 0.79  | 0.24   |
|           | 1358       | -0.46 | -0.14  |                            | 1204 | -0.26 | -0.08  |            | 1347             | 0.75  | 0.23   |
|           | 2101       | 1.51  | 0.46   |                            | 1926 | 1.84  | 0.56   |            | 1921             | 1.18  | 0.36   |
| Domingo   |            |       |        | Miércoles Cuarto Creciente |      |       |        | Sábado     |                  |       |        |
| 3         | 0246       | 0.23  | 0.07   | 13                         | 0203 | 0.13  | 0.04   | 23         | 0320             | -0.07 | -0.02  |
|           | 0750       | 1.08  | 0.33   |                            | 0657 | 0.85  | 0.26   |            | 1906             | 1.31  | 0.40   |
|           | 1417       | -0.46 | -0.14  |                            | 1254 | -0.39 | -0.12  |            |                  |       |        |
|           | 2104       | 1.48  | 0.45   |                            | 1955 | 1.87  | 0.57   |            |                  |       |        |
| Lunes     |            |       |        | Jueves                     |      |       |        | Domingo    |                  |       |        |
| 4         | 0251       | 0.13  | 0.04   | 14                         | 0222 | 0.03  | 0.01   | 24         | 0316             | -0.10 | -0.03  |
|           | 0820       | 1.25  | 0.38   |                            | 0732 | 1.05  | 0.32   |            | 1910             | 1.41  | 0.43   |
|           | 1439       | -0.36 | -0.11  |                            | 1333 | -0.39 | -0.12  |            |                  |       |        |
|           | 2108       | 1.44  | 0.44   |                            | 2021 | 1.80  | 0.55   |            |                  |       |        |
| Martes    |            |       |        | Viernes                    |      |       |        | Lunes      |                  |       |        |
| 5         | 0306       | 0.00  | 0.00   | 15                         | 0243 | 0.00  | 0.00   | 25         | 0315             | -0.10 | -0.03  |
|           | 0859       | 1.35  | 0.41   |                            | 0804 | 1.15  | 0.35   |            | 0904             | 0.39  | 0.12   |
|           | 1504       | -0.20 | -0.06  |                            | 1405 | -0.33 | -0.10  |            | 1128             | 0.36  | 0.11   |
|           | 2120       | 1.41  | 0.43   |                            | 2043 | 1.67  | 0.51   |            | 1920             | 1.54  | 0.47   |
| Miércoles |            |       |        | Sábado                     |      |       |        | Martes     |                  |       |        |
| 6         | 0329       | -0.10 | -0.03  | 16                         | 0301 | 0.00  | 0.00   | 26         | 0324             | -0.10 | -0.03  |
|           | 0944       | 1.35  | 0.41   |                            | 0834 | 1.21  | 0.37   |            | 0818             | 0.36  | 0.11   |
|           | 1531       | 0.07  | 0.02   |                            | 1431 | -0.16 | -0.05  |            | 1203             | 0.23  | 0.07   |
|           | 2136       | 1.31  | 0.40   |                            | 2059 | 1.51  | 0.46   |            | 1932             | 1.61  | 0.49   |
| Jueves    | Luna Nueva |       |        | Domingo                    |      |       |        | Miércoles  |                  |       |        |
| 7         | 0358       | -0.20 | -0.06  | 17                         | 0315 | 0.03  | 0.01   | 27         | 0335             | -0.03 | -0.01  |
|           | 1037       | 1.21  | 0.37   |                            | 0900 | 1.21  | 0.37   |            | 0809             | 0.39  | 0.12   |
|           | 1558       | 0.39  | 0.12   |                            | 1453 | 0.00  | 0.00   |            | 1223             | 0.13  | 0.04   |
|           | 2148       | 1.21  | 0.37   |                            | 2107 | 1.35  | 0.41   |            | 1943             | 1.64  | 0.50   |
| Viernes   |            |       |        | Lunes                      |      |       |        | Jueves     |                  |       |        |
| 8         | 0432       | -0.20 | -0.06  | 18                         | 0323 | 0.07  | 0.02   | 28         | 0335             | 0.07  | 0.02   |
|           | 1147       | 1.05  | 0.32   |                            | 0925 | 1.18  | 0.36   |            | 0754             | 0.46  | 0.14   |
|           | 1614       | 0.75  | 0.23   |                            | 1508 | 0.20  | 0.06   |            | 1238             | 0.03  | 0.01   |
|           | 2127       | 1.12  | 0.34   |                            | 2103 | 1.21  | 0.37   |            | 1954             | 1.67  | 0.51   |
| Sábado    |            |       |        | Martes                     |      |       |        | Viernes    | Cuarto Menguante |       |        |
| 9         | 0515       | -0.10 | -0.03  | 19                         | 0326 | 0.07  | 0.02   | 29         | 0307             | 0.20  | 0.06   |
|           | 1854       | 1.18  | 0.36   |                            | 0946 | 1.12  | 0.34   |            | 0739             | 0.56  | 0.17   |
|           |            |       |        |                            | 1513 | 0.39  | 0.12   |            | 1254             | 0.00  | 0.00   |
|           |            |       |        |                            | 2050 | 1.15  | 0.35   |            | 2006             | 1.67  | 0.51   |
| Domingo   |            |       |        | Miércoles                  |      |       |        | Sábado     |                  |       |        |
| 10        | 0823       | 0.00  | 0.00   | 20                         | 0319 | 0.07  | 0.02   | 30         | 0243             | 0.26  | 0.08   |
|           | 1835       | 1.48  | 0.45   |                            | 1007 | 1.02  | 0.31   |            | 0732             | 0.75  | 0.23   |
|           |            |       |        |                            | 1500 | 0.56  | 0.17   |            | 1312             | -0.07 | -0.02  |
|           |            |       |        |                            | 2035 | 1.08  | 0.33   |            | 2015             | 1.64  | 0.50   |

HORA DEL MERIDIANO LOCAL 90° W



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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| ESTACIÓN  |            |       |        | LÁZARO CÁRDENAS, MICH. |                  |      |        | MAYO 2016 |                  |      |        |
|-----------|------------|-------|--------|------------------------|------------------|------|--------|-----------|------------------|------|--------|
| DÍA       | HORA       | PIES  | METROS | DÍA                    | HORA             | PIES | METROS | DÍA       | HORA             | PIES | METROS |
| Domingo   |            |       |        | Miércoles              |                  |      |        | Sábado    | Luna Llena       |      |        |
| 1         | 0225       | 0.26  | 0.08   | 11                     | 0139             | 0.43 | 0.13   | 21        | 0330             | 0.00 | 0.00   |
|           | 0735       | 0.98  | 0.30   |                        | 0544             | 0.69 | 0.21   |           | 1853             | 1.44 | 0.44   |
|           | 1332       | -0.07 | -0.02  |                        | 1116             | 0.00 | 0.00   |           |                  |      |        |
|           | 2018       | 1.61  | 0.49   |                        | 1855             | 1.94 | 0.59   |           |                  |      |        |
| Lunes     |            |       |        | Jueves                 |                  |      |        | Domingo   |                  |      |        |
| 2         | 0221       | 0.13  | 0.04   | 12                     | 0146             | 0.30 | 0.09   | 22        | 0342             | 0.00 | 0.00   |
|           | 0755       | 1.21  | 0.37   |                        | 0643             | 0.92 | 0.28   |           | 1839             | 1.54 | 0.47   |
|           | 1355       | 0.00  | 0.00   |                        | 1220             | 0.03 | 0.01   |           |                  |      |        |
|           | 2014       | 1.57  | 0.48   |                        | 1924             | 1.94 | 0.59   |           |                  |      |        |
| Martes    |            |       |        | Viernes                | Cuarto Creciente |      |        | Lunes     |                  |      |        |
| 3         | 0230       | 0.00  | 0.00   | 13                     | 0206             | 0.16 | 0.05   | 23        | 0351             | 0.00 | 0.00   |
|           | 0828       | 1.38  | 0.42   |                        | 0726             | 1.12 | 0.34   |           | 1841             | 1.64 | 0.50   |
|           | 1420       | 0.13  | 0.04   |                        | 1308             | 0.10 | 0.03   |           |                  |      |        |
|           | 2022       | 1.57  | 0.48   |                        | 1949             | 1.84 | 0.56   |           |                  |      |        |
| Miércoles |            |       |        | Sábado                 |                  |      |        | Martes    |                  |      |        |
| 4         | 0250       | -0.20 | -0.06  | 14                     | 0227             | 0.13 | 0.04   | 24        | 0353             | 0.07 | 0.02   |
|           | 0912       | 1.48  | 0.45   |                        | 0804             | 1.25 | 0.38   |           | 1848             | 1.71 | 0.52   |
|           | 1449       | 0.33  | 0.10   |                        | 1346             | 0.20 | 0.06   |           |                  |      |        |
|           | 2038       | 1.54  | 0.47   |                        | 2009             | 1.74 | 0.53   |           |                  |      |        |
| Jueves    |            |       |        | Domingo                |                  |      |        | Miércoles |                  |      |        |
| 5         | 0318       | -0.33 | -0.10  | 15                     | 0245             | 0.10 | 0.03   | 25        | 0349             | 0.16 | 0.05   |
|           | 1005       | 1.48  | 0.45   |                        | 0837             | 1.35 | 0.41   |           | 1857             | 1.77 | 0.54   |
|           | 1521       | 0.59  | 0.18   |                        | 1417             | 0.36 | 0.11   |           |                  |      |        |
|           | 2058       | 1.51  | 0.46   |                        | 2024             | 1.61 | 0.49   |           |                  |      |        |
| Viernes   | Luna Nueva |       |        | Lunes                  |                  |      |        | Jueves    |                  |      |        |
| 6         | 0354       | -0.39 | -0.12  | 16                     | 0259             | 0.10 | 0.03   | 26        | 0348             | 0.26 | 0.08   |
|           | 1111       | 1.41  | 0.43   |                        | 0909             | 1.38 | 0.42   |           | 0821             | 0.49 | 0.15   |
|           | 1555       | 0.92  | 0.28   |                        | 1444             | 0.52 | 0.16   |           | 1019             | 0.46 | 0.14   |
|           | 2112       | 1.38  | 0.42   |                        | 2030             | 1.48 | 0.45   |           | 1906             | 1.80 | 0.55   |
| Sábado    |            |       |        | Martes                 |                  |      |        | Viernes   |                  |      |        |
| 7         | 0437       | -0.36 | -0.11  | 17                     | 0309             | 0.10 | 0.03   | 27        | 0339             | 0.39 | 0.12   |
|           | 1301       | 1.35  | 0.41   |                        | 0939             | 1.38 | 0.42   |           | 0733             | 0.59 | 0.18   |
|           | 1627       | 1.21  | 0.37   |                        | 1505             | 0.69 | 0.21   |           | 1131             | 0.43 | 0.13   |
|           | 1958       | 1.28  | 0.39   |                        | 2021             | 1.38 | 0.42   |           | 1918             | 1.84 | 0.56   |
| Domingo   |            |       |        | Miércoles              |                  |      |        | Sábado    |                  |      |        |
| 8         | 0534       | -0.20 | -0.06  | 18                     | 0314             | 0.07 | 0.02   | 28        | 0244             | 0.49 | 0.15   |
|           | 1719       | 1.51  | 0.46   |                        | 1010             | 1.35 | 0.41   |           | 0716             | 0.79 | 0.24   |
|           |            |       |        |                        | 1516             | 0.85 | 0.26   |           | 1211             | 0.43 | 0.13   |
|           |            |       |        |                        | 2008             | 1.35 | 0.41   |           | 1930             | 1.80 | 0.55   |
| Lunes     |            |       |        | Jueves                 |                  |      |        | Domingo   | Cuarto Menguante |      |        |
| 9         | 0740       | -0.03 | -0.01  | 19                     | 0317             | 0.03 | 0.01   | 29        | 0212             | 0.49 | 0.15   |
|           | 1749       | 1.74  | 0.53   |                        | 1042             | 1.31 | 0.40   |           | 0725             | 1.02 | 0.31   |
|           |            |       |        |                        | 1508             | 1.02 | 0.31   |           | 1242             | 0.43 | 0.13   |
|           |            |       |        |                        | 1957             | 1.35 | 0.41   |           | 1936             | 1.74 | 0.53   |
| Martes    |            |       |        | Viernes                |                  |      |        | Lunes     |                  |      |        |
| 10        | 0943       | 0.00  | 0.00   | 20                     | 0321             | 0.00 | 0.00   | 30        | 0200             | 0.36 | 0.11   |
|           | 1822       | 1.87  | 0.57   |                        | 1125             | 1.25 | 0.38   |           | 0745             | 1.25 | 0.38   |
|           |            |       |        |                        | 1444             | 1.12 | 0.34   |           | 1312             | 0.49 | 0.15   |
|           |            |       |        |                        | 1925             | 1.38 | 0.42   |           | 1933             | 1.71 | 0.52   |
|           |            |       |        |                        |                  |      |        | Martes    |                  |      |        |
|           |            |       |        |                        |                  |      |        | 31        | 0203             | 0.16 | 0.05   |
|           |            |       |        |                        |                  |      |        |           | 0816             | 1.48 | 0.45   |
|           |            |       |        |                        |                  |      |        |           | 1342             | 0.59 | 0.18   |
|           |            |       |        |                        |                  |      |        |           | 1934             | 1.74 | 0.53   |

HORA DEL MERIDIANO LOCAL 90° W



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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| ESTACIÓN  |            |       |        | LÁZARO CÁRDENAS, MICH. |                  |      |        | JUNIO 2016 |                  |      |        |
|-----------|------------|-------|--------|------------------------|------------------|------|--------|------------|------------------|------|--------|
| DÍA       | HORA       | PIES  | METROS | DÍA                    | HORA             | PIES | METROS | DÍA        | HORA             | PIES | METROS |
| Miércoles |            |       |        | Sábado                 |                  |      |        | Martes     |                  |      |        |
| 1         | 0219       | -0.03 | -0.01  | 11                     | 0159             | 0.46 | 0.14   | 21         | 0426             | 0.13 | 0.04   |
|           | 0856       | 1.64  | 0.50   |                        | 0729             | 1.28 | 0.39   |            | 1827             | 1.74 | 0.53   |
|           | 1416       | 0.75  | 0.23   |                        | 1251             | 0.66 | 0.20   |            |                  |      |        |
|           | 1948       | 1.77  | 0.54   |                        | 1927             | 1.90 | 0.58   |            |                  |      |        |
| Jueves    |            |       |        | Domingo                | Cuarto Creciente |      |        | Miércoles  |                  |      |        |
| 2         | 0246       | -0.23 | -0.07  | 12                     | 0219             | 0.36 | 0.11   | 22         | 0447             | 0.26 | 0.08   |
|           | 0943       | 1.74  | 0.53   |                        | 0811             | 1.44 | 0.44   |            | 1820             | 1.80 | 0.55   |
|           | 1454       | 0.95  | 0.29   |                        | 1337             | 0.75 | 0.23   |            |                  |      |        |
|           | 2010       | 1.77  | 0.54   |                        | 1946             | 1.80 | 0.55   |            |                  |      |        |
| Viernes   |            |       |        | Lunes                  |                  |      |        | Jueves     |                  |      |        |
| 3         | 0319       | -0.36 | -0.11  | 13                     | 0236             | 0.30 | 0.09   | 23         | 0505             | 0.43 | 0.13   |
|           | 1038       | 1.80  | 0.55   |                        | 0849             | 1.57 | 0.48   |            | 1819             | 1.84 | 0.56   |
|           | 1538       | 1.15  | 0.35   |                        | 1416             | 0.85 | 0.26   |            |                  |      |        |
|           | 2036       | 1.71  | 0.52   |                        | 2002             | 1.71 | 0.52   |            |                  |      |        |
| Sábado    | Luna Nueva |       |        | Martes                 |                  |      |        | Viernes    |                  |      |        |
| 4         | 0359       | -0.39 | -0.12  | 14                     | 0251             | 0.26 | 0.08   | 24         | 0501             | 0.59 | 0.18   |
|           | 1144       | 1.77  | 0.54   |                        | 0922             | 1.64 | 0.50   |            | 1828             | 1.87 | 0.57   |
|           | 1632       | 1.35  | 0.41   |                        | 1448             | 0.98 | 0.30   |            |                  |      |        |
|           | 2058       | 1.61  | 0.49   |                        | 2009             | 1.64 | 0.50   |            |                  |      |        |
| Domingo   |            |       |        | Miércoles              |                  |      |        | Sábado     |                  |      |        |
| 5         | 0445       | -0.33 | -0.10  | 15                     | 0303             | 0.20 | 0.06   | 25         | 0403             | 0.79 | 0.24   |
|           | 1312       | 1.77  | 0.54   |                        | 0954             | 1.71 | 0.52   |            | 0725             | 0.85 | 0.26   |
|           | 1845       | 1.48  | 0.45   |                        | 1515             | 1.12 | 0.34   |            | 0947             | 0.85 | 0.26   |
|           | 2009       | 1.51  | 0.46   |                        | 2001             | 1.57 | 0.48   |            | 1842             | 1.84 | 0.56   |
| Lunes     |            |       |        | Jueves                 |                  |      |        | Domingo    |                  |      |        |
| 6         | 0542       | -0.13 | -0.04  | 16                     | 0311             | 0.16 | 0.05   | 26         | 0204             | 0.85 | 0.26   |
|           | 1507       | 1.77  | 0.54   |                        | 1024             | 1.71 | 0.52   |            | 0708             | 1.12 | 0.34   |
|           |            |       |        |                        | 1532             | 1.25 | 0.38   |            | 1137             | 0.92 | 0.28   |
|           |            |       |        |                        | 1952             | 1.57 | 0.48   |            | 1855             | 1.80 | 0.55   |
| Martes    |            |       |        | Viernes                |                  |      |        | Lunes      | Cuarto Menguante |      |        |
| 7         | 0702       | 0.07  | 0.02   | 17                     | 0320             | 0.10 | 0.03   | 27         | 0133             | 0.69 | 0.21   |
|           | 1658       | 1.87  | 0.57   |                        | 1056             | 1.71 | 0.52   |            | 0733             | 1.35 | 0.41   |
|           |            |       |        |                        | 1537             | 1.35 | 0.41   |            | 1237             | 0.98 | 0.30   |
|           |            |       |        |                        | 1952             | 1.61 | 0.49   |            | 1901             | 1.80 | 0.55   |
| Miércoles |            |       |        | Sábado                 |                  |      |        | Martes     |                  |      |        |
| 8         | 0833       | 0.30  | 0.09   | 18                     | 0332             | 0.07 | 0.02   | 28         | 0134             | 0.46 | 0.14   |
|           | 1753       | 1.94  | 0.59   |                        | 1132             | 1.67 | 0.51   |            | 0805             | 1.61 | 0.49   |
|           |            |       |        |                        | 1525             | 1.44 | 0.44   |            | 1321             | 1.05 | 0.32   |
|           |            |       |        |                        | 1950             | 1.64 | 0.50   |            | 1903             | 1.80 | 0.55   |
| Jueves    |            |       |        | Domingo                |                  |      |        | Miércoles  |                  |      |        |
| 9         | 0153       | 0.75  | 0.23   | 19                     | 0347             | 0.03 | 0.01   | 29         | 0151             | 0.20 | 0.06   |
|           | 0506       | 0.82  | 0.25   |                        | 1221             | 1.64 | 0.50   |            | 0843             | 1.84 | 0.56   |
|           | 1012       | 0.46  | 0.14   |                        | 1522             | 1.54 | 0.47   |            | 1401             | 1.12 | 0.34   |
|           | 1832       | 1.97  | 0.60   |                        | 1929             | 1.67 | 0.51   |            | 1915             | 1.87 | 0.57   |
| Viernes   |            |       |        | Lunes                  | Luna Llena       |      |        | Jueves     |                  |      |        |
| 10        | 0142       | 0.59  | 0.18   | 20                     | 0405             | 0.07 | 0.02   | 30         | 0217             | 0.00 | 0.00   |
|           | 0637       | 1.05  | 0.32   |                        | 1348             | 1.61 | 0.49   |            | 0925             | 1.97 | 0.60   |
|           | 1149       | 0.59  | 0.18   |                        | 1522             | 1.61 | 0.49   |            | 1439             | 1.21 | 0.37   |
|           | 1902       | 1.97  | 0.60   |                        | 1853             | 1.71 | 0.52   |            | 1938             | 1.90 | 0.58   |

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**SECRETARIA DE MARINA ARMADA DE MEXICO  
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| ESTACIÓN  |            |       |        | LÁZARO CÁRDENAS, MICH. |                  |      |        | JULIO 2016 |                  |       |        |
|-----------|------------|-------|--------|------------------------|------------------|------|--------|------------|------------------|-------|--------|
| DÍA       | HORA       | PIES  | METROS | DÍA                    | HORA             | PIES | METROS | DÍA        | HORA             | PIES  | METROS |
| Viernes   |            |       |        | Lunes                  | Cuarto Creciente |      |        | Jueves     |                  |       |        |
| 1         | 0250       | -0.20 | -0.06  | 11                     | 0206             | 0.56 | 0.17   | 21         | 0457             | 0.33  | 0.10   |
|           | 1009       | 2.07  | 0.63   |                        | 0829             | 1.64 | 0.50   |            | 1415             | 1.74  | 0.53   |
|           | 1520       | 1.31  | 0.40   |                        | 1357             | 1.08 | 0.33   |            | 1702             | 1.67  | 0.51   |
|           | 2008       | 1.94  | 0.59   |                        | 1935             | 1.77 | 0.54   |            | 1910             | 1.71  | 0.52   |
| Sábado    |            |       |        | Martes                 |                  |      |        | Viernes    |                  |       |        |
| 2         | 0327       | -0.30 | -0.09  | 12                     | 0222             | 0.46 | 0.14   | 22         | 0522             | 0.56  | 0.17   |
|           | 1056       | 2.10  | 0.64   |                        | 0856             | 1.80 | 0.55   |            | 1634             | 1.67  | 0.51   |
|           | 1602       | 1.41  | 0.43   |                        | 1436             | 1.08 | 0.33   |            |                  |       |        |
|           | 2041       | 1.90  | 0.58   |                        | 1952             | 1.74 | 0.53   |            |                  |       |        |
| Domingo   |            |       |        | Miércoles              |                  |      |        | Sábado     |                  |       |        |
| 3         | 0406       | -0.30 | -0.09  | 13                     | 0238             | 0.36 | 0.11   | 23         | 0541             | 0.82  | 0.25   |
|           | 1145       | 2.07  | 0.63   |                        | 0922             | 1.90 | 0.58   |            | 1739             | 1.67  | 0.51   |
|           | 1651       | 1.51  | 0.46   |                        | 1505             | 1.15 | 0.35   |            |                  |       |        |
|           | 2113       | 1.84  | 0.56   |                        | 2001             | 1.67 | 0.51   |            |                  |       |        |
| Lunes     | Luna Nueva |       |        | Jueves                 |                  |      |        | Domingo    |                  |       |        |
| 4         | 0446       | -0.20 | -0.06  | 14                     | 0249             | 0.30 | 0.09   | 24         | 0406             | 1.08  | 0.33   |
|           | 1240       | 2.00  | 0.61   |                        | 0947             | 1.94 | 0.59   |            | 1802             | 1.67  | 0.51   |
|           | 1759       | 1.57  | 0.48   |                        | 1527             | 1.25 | 0.38   |            |                  |       |        |
|           | 2135       | 1.71  | 0.52   |                        | 1952             | 1.67 | 0.51   |            |                  |       |        |
| Martes    |            |       |        | Viernes                |                  |      |        | Lunes      |                  |       |        |
| 5         | 0527       | 0.00  | 0.00   | 15                     | 0258             | 0.20 | 0.06   | 25         | 0051             | 0.98  | 0.30   |
|           | 1350       | 1.90  | 0.58   |                        | 1012             | 1.97 | 0.60   |            | 0737             | 1.41  | 0.43   |
|           |            |       |        |                        | 1538             | 1.35 | 0.41   |            | 1154             | 1.25  | 0.38   |
|           |            |       |        |                        | 1943             | 1.71 | 0.52   |            | 1821             | 1.67  | 0.51   |
| Miércoles |            |       |        | Sábado                 |                  |      |        | Martes     | Cuarto Menguante |       |        |
| 6         | 0611       | 0.26  | 0.08   | 16                     | 0310             | 0.13 | 0.04   | 26         | 0054             | 0.69  | 0.21   |
|           | 1552       | 1.84  | 0.56   |                        | 1038             | 1.97 | 0.60   |            | 0753             | 1.71  | 0.52   |
|           |            |       |        |                        | 1542             | 1.44 | 0.44   |            | 1309             | 1.25  | 0.38   |
|           |            |       |        |                        | 1952             | 1.77 | 0.54   |            | 1837             | 1.71  | 0.52   |
| Jueves    |            |       |        | Domingo                |                  |      |        | Miércoles  |                  |       |        |
| 7         | 0706       | 0.59  | 0.18   | 17                     | 0325             | 0.07 | 0.02   | 27         | 0116             | 0.39  | 0.12   |
|           | 1735       | 1.87  | 0.57   |                        | 1106             | 1.94 | 0.59   |            | 0822             | 1.97  | 0.60   |
|           |            |       |        |                        | 1545             | 1.51 | 0.46   |            | 1357             | 1.25  | 0.38   |
|           |            |       |        |                        | 2008             | 1.84 | 0.56   |            | 1855             | 1.80  | 0.55   |
| Viernes   |            |       |        | Lunes                  |                  |      |        | Jueves     |                  |       |        |
| 8         | 0853       | 0.89  | 0.27   | 18                     | 0344             | 0.07 | 0.02   | 28         | 0144             | 0.13  | 0.04   |
|           | 1819       | 1.87  | 0.57   |                        | 1140             | 1.90 | 0.58   |            | 0856             | 2.13  | 0.65   |
|           |            |       |        |                        | 1554             | 1.54 | 0.47   |            | 1433             | 1.25  | 0.38   |
|           |            |       |        |                        | 2028             | 1.84 | 0.56   |            | 1918             | 1.90  | 0.58   |
| Sábado    |            |       |        | Martes                 | Luna Llena       |      |        | Viernes    |                  |       |        |
| 9         | 0151       | 0.85  | 0.26   | 19                     | 0407             | 0.10 | 0.03   | 29         | 0216             | -0.07 | -0.02  |
|           | 0720       | 1.21  | 0.37   |                        | 1219             | 1.87 | 0.57   |            | 0930             | 2.23  | 0.68   |
|           | 1130       | 1.05  | 0.32   |                        | 1612             | 1.61 | 0.49   |            | 1504             | 1.25  | 0.38   |
|           | 1850       | 1.87  | 0.57   |                        | 2045             | 1.84 | 0.56   |            | 1946             | 1.97  | 0.60   |
| Domingo   |            |       |        | Miércoles              |                  |      |        | Sábado     |                  |       |        |
| 10        | 0153       | 0.69  | 0.21   | 20                     | 0432             | 0.16 | 0.05   | 30         | 0250             | -0.20 | -0.06  |
|           | 0759       | 1.44  | 0.44   |                        | 1307             | 1.80 | 0.55   |            | 1005             | 2.26  | 0.69   |
|           | 1302       | 1.05  | 0.32   |                        | 1635             | 1.64 | 0.50   |            | 1533             | 1.28  | 0.39   |
|           | 1914       | 1.84  | 0.56   |                        | 2047             | 1.77 | 0.54   |            | 2017             | 2.00  | 0.61   |
|           |            |       |        |                        |                  |      |        | Domingo    |                  |       |        |
|           |            |       |        |                        |                  |      |        | 31         | 0325             | -0.26 | -0.08  |
|           |            |       |        |                        |                  |      |        |            | 1040             | 2.20  | 0.67   |
|           |            |       |        |                        |                  |      |        |            | 1602             | 1.31  | 0.40   |
|           |            |       |        |                        |                  |      |        |            | 2049             | 2.00  | 0.61   |

**HORA DEL MERIDIANO LOCAL 90° W**



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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| ESTACIÓN  |                  |       |        | LÁZARO CÁRDENAS, MICH. |            |      |        | AGOSTO 2016 |                  |       |        |
|-----------|------------------|-------|--------|------------------------|------------|------|--------|-------------|------------------|-------|--------|
| DÍA       | HORA             | PIES  | METROS | DÍA                    | HORA       | PIES | METROS | DÍA         | HORA             | PIES  | METROS |
| Lunes     |                  |       |        | Jueves                 |            |      |        | Domingo     |                  |       |        |
| 1         | 0359             | -0.20 | -0.06  | 11                     | 0216       | 0.33 | 0.10   | 21          | 0516             | 0.98  | 0.30   |
|           | 1115             | 2.10  | 0.64   |                        | 0905       | 1.97 | 0.60   |             | 1232             | 1.48  | 0.45   |
|           | 1632             | 1.38  | 0.42   |                        | 1510       | 1.05 | 0.32   |             | 2214             | 1.12  | 0.34   |
|           | 2118             | 1.94  | 0.59   |                        | 1954       | 1.54 | 0.47   |             |                  |       |        |
| Martes    | Luna Nueva       |       |        | Viernes                |            |      |        | Lunes       |                  |       |        |
| 2         | 0431             | -0.03 | -0.01  | 12                     | 0226       | 0.23 | 0.07   | 22          | 0806             | 1.38  | 0.42   |
|           | 1153             | 1.97  | 0.60   |                        | 0923       | 2.00 | 0.61   |             | 1140             | 1.35  | 0.41   |
|           | 1701             | 1.44  | 0.44   |                        | 1521       | 1.15 | 0.35   |             | 1323             | 1.35  | 0.41   |
|           | 2142             | 1.80  | 0.55   |                        | 1948       | 1.57 | 0.48   |             | 2329             | 0.79  | 0.24   |
| Miércoles |                  |       |        | Sábado                 |            |      |        | Martes      |                  |       |        |
| 3         | 0500             | 0.20  | 0.06   | 13                     | 0235       | 0.16 | 0.05   | 23          | 0722             | 1.67  | 0.51   |
|           | 1233             | 1.80  | 0.55   |                        | 0943       | 2.03 | 0.62   |             | 1309             | 1.21  | 0.37   |
|           | 1728             | 1.51  | 0.46   |                        | 1524       | 1.21 | 0.37   |             | 1755             | 1.41  | 0.43   |
|           | 2143             | 1.64  | 0.50   |                        | 1940       | 1.67 | 0.51   |             |                  |       |        |
| Jueves    |                  |       |        | Domingo                |            |      |        | Miércoles   | Cuarto Menguante |       |        |
| 4         | 0523             | 0.49  | 0.15   | 14                     | 0247       | 0.07 | 0.02   | 24          | 0015             | 0.46  | 0.14   |
|           | 1323             | 1.64  | 0.50   |                        | 1003       | 2.03 | 0.62   |             | 0741             | 1.94  | 0.59   |
|           | 1655             | 1.54  | 0.47   |                        | 1523       | 1.28 | 0.39   |             | 1340             | 1.12  | 0.34   |
|           | 1831             | 1.54  | 0.47   |                        | 1950       | 1.77 | 0.54   |             | 1831             | 1.54  | 0.47   |
| Viernes   |                  |       |        | Lunes                  |            |      |        | Jueves      |                  |       |        |
| 5         | 0522             | 0.79  | 0.24   | 15                     | 0304       | 0.00 | 0.00   | 25          | 0056             | 0.16  | 0.05   |
|           | 1830             | 1.57  | 0.48   |                        | 1024       | 2.00 | 0.61   |             | 0810             | 2.13  | 0.65   |
|           |                  |       |        |                        | 1527       | 1.31 | 0.40   |             | 1407             | 1.02  | 0.31   |
|           |                  |       |        |                        | 2011       | 1.87 | 0.57   |             | 1902             | 1.67  | 0.51   |
| Sábado    |                  |       |        | Martes                 |            |      |        | Viernes     |                  |       |        |
| 6         | 0347             | 0.98  | 0.30   | 16                     | 0324       | 0.00 | 0.00   | 26          | 0134             | -0.07 | -0.02  |
|           | 1849             | 1.61  | 0.49   |                        | 1045       | 1.97 | 0.60   |             | 0842             | 2.23  | 0.68   |
|           |                  |       |        |                        | 1539       | 1.31 | 0.40   |             | 1433             | 0.98  | 0.30   |
|           |                  |       |        |                        | 2039       | 1.94 | 0.59   |             | 1931             | 1.84  | 0.56   |
| Domingo   |                  |       |        | Miércoles              |            |      |        | Sábado      |                  |       |        |
| 7         | 0157             | 0.92  | 0.28   | 17                     | 0347       | 0.03 | 0.01   | 27          | 0210             | -0.20 | -0.06  |
|           | 0805             | 1.38  | 0.42   |                        | 1105       | 1.90 | 0.58   |             | 0912             | 2.26  | 0.69   |
|           | 1318             | 1.18  | 0.36   |                        | 1600       | 1.28 | 0.39   |             | 1456             | 0.95  | 0.29   |
|           | 1905             | 1.61  | 0.49   |                        | 2110       | 1.90 | 0.58   |             | 1959             | 1.94  | 0.59   |
| Lunes     |                  |       |        | Jueves                 | Luna Llena |      |        | Domingo     |                  |       |        |
| 8         | 0141             | 0.75  | 0.23   | 18                     | 0411       | 0.16 | 0.05   | 28          | 0242             | -0.26 | -0.08  |
|           | 0812             | 1.61  | 0.49   |                        | 1124       | 1.80 | 0.55   |             | 0941             | 2.20  | 0.67   |
|           | 1404             | 1.08  | 0.33   |                        | 1625       | 1.28 | 0.39   |             | 1518             | 0.98  | 0.30   |
|           | 1919             | 1.61  | 0.49   |                        | 2145       | 1.80 | 0.55   |             | 2026             | 1.97  | 0.60   |
| Martes    |                  |       |        | Viernes                |            |      |        | Lunes       |                  |       |        |
| 9         | 0148             | 0.59  | 0.18   | 19                     | 0436       | 0.39 | 0.12   | 29          | 0313             | -0.20 | -0.06  |
|           | 0829             | 1.77  | 0.54   |                        | 1143       | 1.71 | 0.52   |             | 1007             | 2.07  | 0.63   |
|           | 1430             | 1.02  | 0.31   |                        | 1654       | 1.25 | 0.38   |             | 1540             | 1.02  | 0.31   |
|           | 1934             | 1.57  | 0.48   |                        | 2225       | 1.64 | 0.50   |             | 2051             | 1.94  | 0.59   |
| Miércoles | Cuarto Creciente |       |        | Sábado                 |            |      |        | Martes      |                  |       |        |
| 10        | 0202             | 0.46  | 0.14   | 20                     | 0500       | 0.66 | 0.20   | 30          | 0341             | -0.07 | -0.02  |
|           | 0846             | 1.90  | 0.58   |                        | 1205       | 1.57 | 0.48   |             | 1030             | 1.90  | 0.58   |
|           | 1452             | 1.02  | 0.31   |                        | 1733       | 1.25 | 0.38   |             | 1559             | 1.05  | 0.32   |
|           | 1947             | 1.57  | 0.48   |                        | 2322       | 1.41 | 0.43   |             | 2115             | 1.84  | 0.56   |
|           |                  |       |        |                        |            |      |        | Miércoles   |                  |       |        |
|           |                  |       |        |                        |            |      |        | 31          | 0406             | 0.13  | 0.04   |
|           |                  |       |        |                        |            |      |        |             | 1047             | 1.74  | 0.53   |
|           |                  |       |        |                        |            |      |        |             | 1612             | 1.08  | 0.33   |
|           |                  |       |        |                        |            |      |        |             | 2133             | 1.71  | 0.52   |

**HORA DEL MERIDIANO LOCAL 90° W**





**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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**ESTACIÓN**

**LÁZARO CÁRDENAS, MICH.**

**SEPTIEMBRE 2016**

| DÍA       | HORA             | PIES | METROS | DÍA       | HORA       | PIES  | METROS | DÍA       | HORA             | PIES  | METROS |
|-----------|------------------|------|--------|-----------|------------|-------|--------|-----------|------------------|-------|--------|
| Jueves    | Luna Nueva       |      |        | Domingo   |            |       |        | Miércoles |                  |       |        |
| 1         | 0423             | 0.36 | 0.11   | 11        | 0201       | 0.03  | 0.01   | 21        | 0652             | 1.84  | 0.56   |
|           | 1057             | 1.54 | 0.47   |           | 0904       | 1.94  | 0.59   |           | 1329             | 0.92  | 0.28   |
|           | 1605             | 1.08 | 0.33   |           | 1454       | 0.89  | 0.27   |           | 1736             | 1.12  | 0.34   |
|           | 2142             | 1.54 | 0.47   |           | 1935       | 1.48  | 0.45   |           | 2346             | 0.13  | 0.04   |
| Viernes   |                  |      |        | Lunes     |            |       |        | Jueves    |                  |       |        |
| 2         | 0428             | 0.62 | 0.19   | 12        | 0216       | -0.03 | -0.01  | 22        | 0716             | 2.03  | 0.62   |
|           | 1056             | 1.38 | 0.42   |           | 0921       | 1.94  | 0.59   |           | 1334             | 0.75  | 0.23   |
|           | 1545             | 1.08 | 0.33   |           | 1450       | 0.92  | 0.28   |           | 1823             | 1.31  | 0.40   |
|           | 2108             | 1.38 | 0.42   |           | 1945       | 1.64  | 0.50   |           |                  |       |        |
| Sábado    |                  |      |        | Martes    |            |       |        | Viernes   | Cuarto Menguante |       |        |
| 3         | 0409             | 0.85 | 0.26   | 13        | 0234       | -0.07 | -0.02  | 23        | 0035             | -0.07 | -0.02  |
|           | 1031             | 1.28 | 0.39   |           | 0935       | 1.90  | 0.58   |           | 0745             | 2.17  | 0.66   |
|           | 1510             | 1.02 | 0.31   |           | 1455       | 0.89  | 0.27   |           | 1355             | 0.66  | 0.20   |
|           | 2003             | 1.28 | 0.39   |           | 2008       | 1.77  | 0.54   |           | 1859             | 1.54  | 0.47   |
| Domingo   |                  |      |        | Miércoles |            |       |        | Sábado    |                  |       |        |
| 4         | 0218             | 0.98 | 0.30   | 14        | 0255       | -0.03 | -0.01  | 24        | 0116             | -0.23 | -0.07  |
|           | 0806             | 1.31 | 0.40   |           | 0945       | 1.84  | 0.56   |           | 0814             | 2.20  | 0.67   |
|           | 1434             | 0.92 | 0.28   |           | 1509       | 0.82  | 0.25   |           | 1418             | 0.56  | 0.17   |
|           | 1932             | 1.25 | 0.38   |           | 2039       | 1.84  | 0.56   |           | 1932             | 1.67  | 0.51   |
| Lunes     |                  |      |        | Jueves    |            |       |        | Domingo   |                  |       |        |
| 5         | 0114             | 0.85 | 0.26   | 15        | 0319       | 0.03  | 0.01   | 25        | 0152             | -0.26 | -0.08  |
|           | 0739             | 1.48 | 0.45   |           | 0957       | 1.77  | 0.54   |           | 0841             | 2.10  | 0.64   |
|           | 1436             | 0.82 | 0.25   |           | 1529       | 0.75  | 0.23   |           | 1439             | 0.56  | 0.17   |
|           | 1928             | 1.21 | 0.37   |           | 2116       | 1.80  | 0.55   |           | 2001             | 1.77  | 0.54   |
| Martes    |                  |      |        | Viernes   | Luna Llena |       |        | Lunes     |                  |       |        |
| 6         | 0101             | 0.66 | 0.20   | 16        | 0344       | 0.20  | 0.06   | 26        | 0224             | -0.20 | -0.06  |
|           | 0746             | 1.64 | 0.50   |           | 1012       | 1.67  | 0.51   |           | 0903             | 1.97  | 0.60   |
|           | 1445             | 0.72 | 0.22   |           | 1555       | 0.69  | 0.21   |           | 1458             | 0.56  | 0.17   |
|           | 1930             | 1.21 | 0.37   |           | 2158       | 1.71  | 0.52   |           | 2028             | 1.77  | 0.54   |
| Miércoles |                  |      |        | Sábado    |            |       |        | Martes    |                  |       |        |
| 7         | 0112             | 0.49 | 0.15   | 17        | 0410       | 0.49  | 0.15   | 27        | 0252             | -0.07 | -0.02  |
|           | 0800             | 1.77 | 0.54   |           | 1029       | 1.57  | 0.48   |           | 0921             | 1.80  | 0.55   |
|           | 1449             | 0.69 | 0.21   |           | 1627       | 0.62  | 0.19   |           | 1514             | 0.56  | 0.17   |
|           | 1936             | 1.25 | 0.38   |           | 2252       | 1.54  | 0.47   |           | 2053             | 1.71  | 0.52   |
| Jueves    |                  |      |        | Domingo   |            |       |        | Miércoles |                  |       |        |
| 8         | 0127             | 0.36 | 0.11   | 18        | 0435       | 0.79  | 0.24   | 28        | 0316             | 0.10  | 0.03   |
|           | 0815             | 1.87 | 0.57   |           | 1044       | 1.44  | 0.44   |           | 0931             | 1.64  | 0.50   |
|           | 1452             | 0.69 | 0.21   |           | 1708       | 0.62  | 0.19   |           | 1526             | 0.59  | 0.18   |
|           | 1944             | 1.25 | 0.38   |           |            |       |        |           | 2116             | 1.61  | 0.49   |
| Viernes   | Cuarto Creciente |      |        | Lunes     |            |       |        | Jueves    |                  |       |        |
| 9         | 0141             | 0.23 | 0.07   | 19        | 0026       | 1.31  | 0.40   | 29        | 0336             | 0.33  | 0.10   |
|           | 0831             | 1.94 | 0.59   |           | 0447       | 1.15  | 0.35   |           | 0933             | 1.48  | 0.45   |
|           | 1457             | 0.75 | 0.23   |           | 0951       | 1.31  | 0.40   |           | 1529             | 0.59  | 0.18   |
|           | 1948             | 1.28 | 0.39   |           | 1955       | 0.69  | 0.21   |           | 2136             | 1.48  | 0.45   |
| Sábado    |                  |      |        | Martes    |            |       |        | Viernes   | Luna Nueva       |       |        |
| 10        | 0150             | 0.13 | 0.04   | 20        | 0653       | 1.54  | 0.47   | 30        | 0345             | 0.56  | 0.17   |
|           | 0847             | 1.94 | 0.59   |           | 2236       | 0.43  | 0.13   |           | 0927             | 1.35  | 0.41   |
|           | 1458             | 0.82 | 0.25   |           |            |       |        |           | 1521             | 0.59  | 0.18   |
|           | 1942             | 1.35 | 0.41   |           |            |       |        |           | 2155             | 1.31  | 0.40   |

**HORA DEL MERIDIANO LOCAL 90° W**



**SECRETARIA DE MARINA ARMADA DE MEXICO  
TABLAS NUMERICAS DE PREDICION DE MAREAS**

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| ESTACIÓN  |                  |      |        | LÁZARO CÁRDENAS, MICH. |            |       |        | OCTUBRE 2016 |                  |       |        |
|-----------|------------------|------|--------|------------------------|------------|-------|--------|--------------|------------------|-------|--------|
| DÍA       | HORA             | PIES | METROS | DÍA                    | HORA       | PIES  | METROS | DÍA          | HORA             | PIES  | METROS |
| Sábado    |                  |      |        | Martes                 |            |       |        | Viernes      |                  |       |        |
| 1         | 0333             | 0.79 | 0.24   | 11                     | 0143       | -0.07 | -0.02  | 21           | 0648             | 2.00  | 0.61   |
|           | 0905             | 1.25 | 0.38   |                        | 0838       | 1.77  | 0.54   |              | 1314             | 0.46  | 0.14   |
|           | 1516             | 0.52 | 0.16   |                        | 1423       | 0.49  | 0.15   |              | 1813             | 1.12  | 0.34   |
|           | 2209             | 1.15 | 0.35   |                        | 1938       | 1.44  | 0.44   |              |                  |       |        |
| Domingo   |                  |      |        | Miércoles              |            |       |        | Sábado       | Cuarto Menguante |       |        |
| 2         | 0252             | 0.92 | 0.28   | 12                     | 0201       | -0.07 | -0.02  | 22           | 0011             | -0.16 | -0.05  |
|           | 0800             | 1.25 | 0.38   |                        | 0843       | 1.74  | 0.53   |              | 0718             | 2.07  | 0.63   |
|           | 1508             | 0.49 | 0.15   |                        | 1429       | 0.43  | 0.13   |              | 1336             | 0.33  | 0.10   |
|           | 2116             | 0.95 | 0.29   |                        | 2003       | 1.57  | 0.48   |              | 1854             | 1.35  | 0.41   |
| Lunes     |                  |      |        | Jueves                 |            |       |        | Domingo      |                  |       |        |
| 3         | 0057             | 0.89 | 0.27   | 13                     | 0221       | 0.00  | 0.00   | 23           | 0056             | -0.20 | -0.06  |
|           | 0715             | 1.35 | 0.41   |                        | 0846       | 1.71  | 0.52   |              | 0747             | 2.03  | 0.62   |
|           | 1446             | 0.43 | 0.13   |                        | 1443       | 0.30  | 0.09   |              | 1400             | 0.23  | 0.07   |
|           | 2004             | 0.85 | 0.26   |                        | 2036       | 1.67  | 0.51   |              | 1930             | 1.48  | 0.45   |
| Martes    |                  |      |        | Viernes                |            |       |        | Lunes        |                  |       |        |
| 4         | 0013             | 0.72 | 0.22   | 14                     | 0245       | 0.13  | 0.04   | 24           | 0133             | -0.16 | -0.05  |
|           | 0711             | 1.51 | 0.46   |                        | 0856       | 1.64  | 0.50   |              | 0811             | 1.90  | 0.58   |
|           | 1443             | 0.36 | 0.11   |                        | 1506       | 0.13  | 0.04   |              | 1421             | 0.20  | 0.06   |
|           | 1937             | 0.82 | 0.25   |                        | 2119       | 1.67  | 0.51   |              | 2002             | 1.54  | 0.47   |
| Miércoles |                  |      |        | Sábado                 | Luna Llena |       |        | Martes       |                  |       |        |
| 5         | 0015             | 0.52 | 0.16   | 15                     | 0313       | 0.36  | 0.11   | 25           | 0205             | -0.03 | -0.01  |
|           | 0720             | 1.64 | 0.50   |                        | 0912       | 1.57  | 0.48   |              | 0829             | 1.77  | 0.54   |
|           | 1451             | 0.33 | 0.10   |                        | 1536       | 0.03  | 0.01   |              | 1440             | 0.20  | 0.06   |
|           | 1932             | 0.82 | 0.25   |                        | 2211       | 1.57  | 0.48   |              | 2032             | 1.54  | 0.47   |
| Jueves    |                  |      |        | Domingo                |            |       |        | Miércoles    |                  |       |        |
| 6         | 0031             | 0.36 | 0.11   | 16                     | 0342       | 0.66  | 0.20   | 26           | 0232             | 0.13  | 0.04   |
|           | 0732             | 1.74 | 0.53   |                        | 0927       | 1.48  | 0.45   |              | 0841             | 1.61  | 0.49   |
|           | 1456             | 0.33 | 0.10   |                        | 1612       | 0.00  | 0.00   |              | 1455             | 0.20  | 0.06   |
|           | 1932             | 0.85 | 0.26   |                        | 2321       | 1.41  | 0.43   |              | 2100             | 1.51  | 0.46   |
| Viernes   |                  |      |        | Lunes                  |            |       |        | Jueves       |                  |       |        |
| 7         | 0048             | 0.23 | 0.07   | 17                     | 0411       | 0.98  | 0.30   | 27           | 0255             | 0.33  | 0.10   |
|           | 0745             | 1.80 | 0.55   |                        | 0923       | 1.38  | 0.42   |              | 0844             | 1.44  | 0.44   |
|           | 1450             | 0.39 | 0.12   |                        | 1657       | 0.07  | 0.02   |              | 1506             | 0.20  | 0.06   |
|           | 1934             | 0.89 | 0.27   |                        |            |       |        |              | 2126             | 1.41  | 0.43   |
| Sábado    | Cuarto Creciente |      |        | Martes                 |            |       |        | Viernes      |                  |       |        |
| 8         | 0102             | 0.13 | 0.04   | 18                     | 0648       | 1.35  | 0.41   | 28           | 0311             | 0.56  | 0.17   |
|           | 0759             | 1.84 | 0.56   |                        | 1855       | 0.20  | 0.06   |              | 0836             | 1.35  | 0.41   |
|           | 1443             | 0.46 | 0.14   |                        |            |       |        |              | 1508             | 0.20  | 0.06   |
|           | 1934             | 0.95 | 0.29   |                        |            |       |        |              | 2152             | 1.28  | 0.39   |
| Domingo   |                  |      |        | Miércoles              |            |       |        | Sábado       |                  |       |        |
| 9         | 0114             | 0.03 | 0.01   | 19                     | 0551       | 1.64  | 0.50   | 29           | 0310             | 0.75  | 0.23   |
|           | 0814             | 1.84 | 0.56   |                        | 2149       | 0.10  | 0.03   |              | 0824             | 1.25  | 0.38   |
|           | 1436             | 0.52 | 0.16   |                        |            |       |        |              | 1504             | 0.16  | 0.05   |
|           | 1930             | 1.08 | 0.33   |                        |            |       |        |              | 2221             | 1.15  | 0.35   |
| Lunes     |                  |      |        | Jueves                 |            |       |        | Domingo      | Luna Nueva       |       |        |
| 10        | 0127             | 0.00 | 0.00   | 20                     | 0616       | 1.87  | 0.57   | 30           | 0246             | 0.89  | 0.27   |
|           | 0828             | 1.84 | 0.56   |                        | 1306       | 0.62  | 0.19   |              | 0750             | 1.21  | 0.37   |
|           | 1427             | 0.56 | 0.17   |                        | 1715       | 0.85  | 0.26   |              | 1506             | 0.13  | 0.04   |
|           | 1927             | 1.25 | 0.38   |                        | 2313       | -0.03 | -0.01  |              | 2301             | 1.02  | 0.31   |
|           |                  |      |        |                        |            |       |        | Lunes        |                  |       |        |
|           |                  |      |        |                        |            |       |        | 31           | 0140             | 0.98  | 0.30   |
|           |                  |      |        |                        |            |       |        |              | 0658             | 1.28  | 0.39   |
|           |                  |      |        |                        |            |       |        |              | 1509             | 0.10  | 0.03   |

HORA DEL MERIDIANO LOCAL 90° W



**SECRETARIA DE MARINA ARMADA DE MEXICO  
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| ESTACIÓN  |                  |      |        | LÁZARO CÁRDENAS, MICH. |            |       |        | NOVIEMBRE 2016 |                  |       |        |
|-----------|------------------|------|--------|------------------------|------------|-------|--------|----------------|------------------|-------|--------|
| DÍA       | HORA             | PIES | METROS | DÍA                    | HORA       | PIES  | METROS | DÍA            | HORA             | PIES  | METROS |
| Martes    |                  |      |        | Viernes                |            |       |        | Lunes          | Cuarto Menguante |       |        |
| 1         | 0639             | 1.38 | 0.42   | 11                     | 0157       | 0.20  | 0.06   | 21             | 0037             | 0.00  | 0.00   |
|           | 1500             | 0.10 | 0.03   |                        | 0757       | 1.61  | 0.49   |                | 0724             | 1.84  | 0.56   |
|           |                  |      |        |                        | 1424       | -0.13 | -0.04  |                | 1352             | 0.07  | 0.02   |
|           |                  |      |        |                        | 2046       | 1.54  | 0.47   |                | 1934             | 1.31  | 0.40   |
| Miércoles |                  |      |        | Sábado                 |            |       |        | Martes         |                  |       |        |
| 2         | 0642             | 1.51 | 0.46   | 12                     | 0224       | 0.36  | 0.11   | 22             | 0118             | 0.10  | 0.03   |
|           | 1450             | 0.10 | 0.03   |                        | 0811       | 1.61  | 0.49   |                | 0746             | 1.74  | 0.53   |
|           | 2021             | 0.49 | 0.15   |                        | 1451       | -0.33 | -0.10  |                | 1414             | 0.00  | 0.00   |
|           | 2243             | 0.49 | 0.15   |                        | 2132       | 1.54  | 0.47   |                | 2012             | 1.38  | 0.42   |
| Jueves    |                  |      |        | Domingo                |            |       |        | Miércoles      |                  |       |        |
| 3         | 0652             | 1.61 | 0.49   | 13                     | 0256       | 0.59  | 0.18   | 23             | 0154             | 0.23  | 0.07   |
|           | 1454             | 0.10 | 0.03   |                        | 0830       | 1.54  | 0.47   |                | 0803             | 1.61  | 0.49   |
|           | 1944             | 0.52 | 0.16   |                        | 1525       | -0.39 | -0.12  |                | 1433             | 0.00  | 0.00   |
|           | 2331             | 0.33 | 0.10   |                        | 2231       | 1.48  | 0.45   |                | 2046             | 1.41  | 0.43   |
| Viernes   |                  |      |        | Lunes                  | Luna Llena |       |        | Jueves         |                  |       |        |
| 4         | 0704             | 1.67 | 0.51   | 14                     | 0331       | 0.89  | 0.27   | 24             | 0225             | 0.39  | 0.12   |
|           | 1458             | 0.13 | 0.04   |                        | 0846       | 1.48  | 0.45   |                | 0814             | 1.48  | 0.45   |
|           | 1936             | 0.56 | 0.17   |                        | 1608       | -0.39 | -0.12  |                | 1448             | -0.03 | -0.01  |
|           | 2358             | 0.23 | 0.07   |                        |            |       |        |                | 2119             | 1.41  | 0.43   |
| Sábado    |                  |      |        | Martes                 |            |       |        | Viernes        |                  |       |        |
| 5         | 0716             | 1.74 | 0.53   | 15                     | 0004       | 1.38  | 0.42   | 25             | 0252             | 0.59  | 0.18   |
|           | 1447             | 0.20 | 0.06   |                        | 0411       | 1.15  | 0.35   |                | 0812             | 1.35  | 0.41   |
|           | 1930             | 0.62 | 0.19   |                        | 0830       | 1.35  | 0.41   |                | 1500             | -0.03 | -0.01  |
|           |                  |      |        |                        | 1704       | -0.30 | -0.09  |                | 2150             | 1.35  | 0.41   |
| Domingo   |                  |      |        | Miércoles              |            |       |        | Sábado         |                  |       |        |
| 6         | 0019             | 0.13 | 0.04   | 16                     | 0303       | 1.44  | 0.44   | 26             | 0311             | 0.75  | 0.23   |
|           | 0730             | 1.74 | 0.53   |                        | 1841       | -0.10 | -0.03  |                | 0801             | 1.28  | 0.39   |
|           | 1428             | 0.26 | 0.08   |                        |            |       |        |                | 1506             | -0.07 | -0.02  |
|           | 1926             | 0.72 | 0.22   |                        |            |       |        |                | 2222             | 1.28  | 0.39   |
| Lunes     | Cuarto Creciente |      |        | Jueves                 |            |       |        | Domingo        |                  |       |        |
| 7         | 0038             | 0.07 | 0.02   | 17                     | 0511       | 1.64  | 0.50   | 27             | 0309             | 0.92  | 0.28   |
|           | 0744             | 1.74 | 0.53   |                        | 2058       | -0.03 | -0.01  |                | 0751             | 1.25  | 0.38   |
|           | 1414             | 0.33 | 0.10   |                        |            |       |        |                | 1509             | -0.10 | -0.03  |
|           | 1926             | 0.89 | 0.27   |                        |            |       |        |                | 2259             | 1.18  | 0.36   |
| Martes    |                  |      |        | Viernes                |            |       |        | Lunes          |                  |       |        |
| 8         | 0056             | 0.03 | 0.01   | 18                     | 0550       | 1.80  | 0.55   | 28             | 0230             | 1.02  | 0.31   |
|           | 0755             | 1.67 | 0.51   |                        | 1300       | 0.52  | 0.16   |                | 0727             | 1.25  | 0.38   |
|           | 1403             | 0.30 | 0.09   |                        | 1635       | 0.69  | 0.21   |                | 1515             | -0.10 | -0.03  |
|           | 1930             | 1.08 | 0.33   |                        | 2239       | -0.03 | -0.01  |                |                  |       |        |
| Miércoles |                  |      |        | Sábado                 |            |       |        | Martes         | Luna Nueva       |       |        |
| 9         | 0114             | 0.03 | 0.01   | 19                     | 0625       | 1.90  | 0.58   | 29             | 0649             | 1.31  | 0.40   |
|           | 0758             | 1.64 | 0.50   |                        | 1306       | 0.33  | 0.10   |                | 1525             | -0.10 | -0.03  |
|           | 1359             | 0.20 | 0.06   |                        | 1800       | 0.92  | 0.28   |                |                  |       |        |
|           | 1943             | 1.28 | 0.39   |                        | 2347       | -0.03 | -0.01  |                |                  |       |        |
| Jueves    |                  |      |        | Domingo                |            |       |        | Miércoles      |                  |       |        |
| 10        | 0134             | 0.10 | 0.03   | 20                     | 0657       | 1.90  | 0.58   | 30             | 0633             | 1.38  | 0.42   |
|           | 0754             | 1.61 | 0.49   |                        | 1328       | 0.16  | 0.05   |                | 1535             | -0.07 | -0.02  |
|           | 1407             | 0.03 | 0.01   |                        | 1852       | 1.15  | 0.35   |                |                  |       |        |
|           | 2009             | 1.44 | 0.44   |                        |            |       |        |                |                  |       |        |



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**ESTACIÓN**

**LÁZARO CÁRDENAS, MICH.**

**DECEMBER 2016**

| DÍA                                 | HORA | PIES  | METROS | DÍA                               | HORA | PIES  | METROS | DÍA                         | HORA | PIES  | METROS |
|-------------------------------------|------|-------|--------|-----------------------------------|------|-------|--------|-----------------------------|------|-------|--------|
| <b>Jueves 1</b>                     |      |       |        | <b>Domingo 11</b>                 |      |       |        | <b>Miércoles 21</b>         |      |       |        |
|                                     | 0633 | 1.48  | 0.45   |                                   | 0222 | 0.66  | 0.20   |                             | 0126 | 0.36  | 0.11   |
|                                     | 1534 | 0.00  | 0.00   |                                   | 0749 | 1.54  | 0.47   |                             | 0738 | 1.54  | 0.47   |
|                                     |      |       |        |                                   | 1452 | -0.62 | -0.19  |                             | 1416 | -0.07 | -0.02  |
|                                     |      |       |        |                                   | 2202 | 1.54  | 0.47   |                             | 2033 | 1.35  | 0.41   |
| <b>Viernes 2</b>                    |      |       |        | <b>Lunes 12</b>                   |      |       |        | <b>Jueves 22</b>            |      |       |        |
|                                     | 0640 | 1.54  | 0.47   |                                   | 0300 | 0.82  | 0.25   |                             | 0206 | 0.46  | 0.14   |
|                                     | 1522 | 0.03  | 0.01   |                                   | 0814 | 1.54  | 0.47   |                             | 0757 | 1.44  | 0.44   |
|                                     |      |       |        |                                   | 1530 | -0.69 | -0.21  |                             | 1436 | -0.13 | -0.04  |
|                                     |      |       |        |                                   | 2259 | 1.54  | 0.47   |                             | 2107 | 1.41  | 0.43   |
| <b>Sábado 3</b>                     |      |       |        | <b>Martes Luna Llena 13</b>       |      |       |        | <b>Viernes 23</b>           |      |       |        |
|                                     | 0650 | 1.61  | 0.49   |                                   | 0346 | 1.02  | 0.31   |                             | 0240 | 0.56  | 0.17   |
|                                     | 1517 | 0.10  | 0.03   |                                   | 0838 | 1.48  | 0.45   |                             | 0810 | 1.35  | 0.41   |
|                                     | 2003 | 0.39  | 0.12   |                                   | 1615 | -0.66 | -0.20  |                             | 1452 | -0.16 | -0.05  |
|                                     | 2253 | 0.33  | 0.10   |                                   |      |       |        |                             | 2138 | 1.44  | 0.44   |
| <b>Domingo 4</b>                    |      |       |        | <b>Miércoles 14</b>               |      |       |        | <b>Sábado 24</b>            |      |       |        |
|                                     | 0700 | 1.64  | 0.50   |                                   | 0014 | 1.48  | 0.45   |                             | 0308 | 0.69  | 0.21   |
|                                     | 1507 | 0.20  | 0.06   |                                   | 0449 | 1.18  | 0.36   |                             | 0810 | 1.25  | 0.38   |
|                                     | 1943 | 0.49  | 0.15   |                                   | 0849 | 1.35  | 0.41   |                             | 1504 | -0.20 | -0.06  |
|                                     | 2345 | 0.30  | 0.09   |                                   | 1706 | -0.49 | -0.15  |                             | 2208 | 1.41  | 0.43   |
| <b>Lunes 5</b>                      |      |       |        | <b>Jueves 15</b>                  |      |       |        | <b>Domingo 25</b>           |      |       |        |
|                                     | 0711 | 1.61  | 0.49   |                                   | 0216 | 1.44  | 0.44   |                             | 0328 | 0.82  | 0.25   |
|                                     | 1432 | 0.26  | 0.08   |                                   | 1813 | -0.26 | -0.08  |                             | 0756 | 1.21  | 0.37   |
|                                     | 1928 | 0.62  | 0.19   |                                   |      |       |        |                             | 1513 | -0.23 | -0.07  |
|                                     |      |       |        |                                   |      |       |        |                             | 2237 | 1.35  | 0.41   |
| <b>Martes 6</b>                     |      |       |        | <b>Viernes 16</b>                 |      |       |        | <b>Lunes 26</b>             |      |       |        |
|                                     | 0015 | 0.26  | 0.08   |                                   | 0423 | 1.54  | 0.47   |                             | 0332 | 0.95  | 0.29   |
|                                     | 0723 | 1.57  | 0.48   |                                   | 1951 | 0.00  | 0.00   |                             | 0751 | 1.21  | 0.37   |
|                                     | 1406 | 0.26  | 0.08   |                                   |      |       |        |                             | 1521 | -0.26 | -0.08  |
|                                     | 1930 | 0.82  | 0.25   |                                   |      |       |        |                             | 2307 | 1.28  | 0.39   |
| <b>Miércoles Cuarto Creciente 7</b> |      |       |        | <b>Sábado 17</b>                  |      |       |        | <b>Martes 27</b>            |      |       |        |
|                                     | 0039 | 0.30  | 0.09   |                                   | 0528 | 1.61  | 0.49   |                             | 0304 | 1.02  | 0.31   |
|                                     | 0731 | 1.51  | 0.46   |                                   | 1359 | 0.56  | 0.17   |                             | 0749 | 1.25  | 0.38   |
|                                     | 1351 | 0.16  | 0.05   |                                   | 1517 | 0.56  | 0.17   |                             | 1530 | -0.30 | -0.09  |
|                                     | 1943 | 1.02  | 0.31   |                                   | 2144 | 0.16  | 0.05   |                             | 2345 | 1.18  | 0.36   |
| <b>Jueves 8</b>                     |      |       |        | <b>Domingo 18</b>                 |      |       |        | <b>Miércoles 28</b>         |      |       |        |
|                                     | 0102 | 0.33  | 0.10   |                                   | 0611 | 1.67  | 0.51   |                             | 0246 | 1.08  | 0.33   |
|                                     | 0728 | 1.48  | 0.45   |                                   | 1310 | 0.36  | 0.11   |                             | 0737 | 1.28  | 0.39   |
|                                     | 1348 | 0.00  | 0.00   |                                   | 1809 | 0.79  | 0.24   |                             | 1544 | -0.26 | -0.08  |
|                                     | 2005 | 1.21  | 0.37   |                                   | 2332 | 0.23  | 0.07   |                             |      |       |        |
| <b>Viernes 9</b>                    |      |       |        | <b>Lunes 19</b>                   |      |       |        | <b>Jueves Luna Nueva 29</b> |      |       |        |
|                                     | 0124 | 0.39  | 0.12   |                                   | 0646 | 1.64  | 0.50   |                             | 0059 | 1.12  | 0.34   |
|                                     | 0721 | 1.48  | 0.45   |                                   | 1330 | 0.16  | 0.05   |                             | 0234 | 1.12  | 0.34   |
|                                     | 1359 | -0.23 | -0.07  |                                   | 1909 | 1.02  | 0.31   |                             | 0715 | 1.31  | 0.40   |
|                                     | 2035 | 1.38  | 0.42   |                                   |      |       |        |                             | 1600 | -0.23 | -0.07  |
| <b>Sábado 10</b>                    |      |       |        | <b>Martes Cuarto Menguante 20</b> |      |       |        | <b>Viernes 30</b>           |      |       |        |
|                                     | 0151 | 0.52  | 0.16   |                                   | 0038 | 0.30  | 0.09   |                             | 0654 | 1.35  | 0.41   |
|                                     | 0729 | 1.51  | 0.46   |                                   | 0714 | 1.61  | 0.49   |                             | 1614 | -0.10 | -0.03  |
|                                     | 1421 | -0.46 | -0.14  |                                   | 1354 | 0.00  | 0.00   |                             |      |       |        |
|                                     | 2115 | 1.51  | 0.46   |                                   | 1954 | 1.21  | 0.37   |                             |      |       |        |
|                                     |      |       |        |                                   |      |       |        | <b>Sábado 31</b>            |      |       |        |
|                                     |      |       |        |                                   |      |       |        |                             | 0648 | 1.38  | 0.42   |
|                                     |      |       |        |                                   |      |       |        |                             | 1619 | 0.00  | 0.00   |