

# Alaska Weather Calendar



**2027**

**weather and climate info**

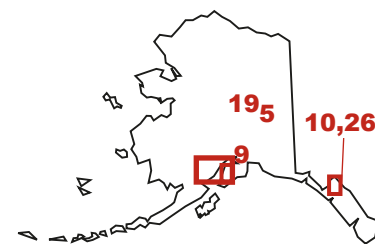
**astronomical predictions**

**bonus: WW II weather in AK**



## ↑ First Light

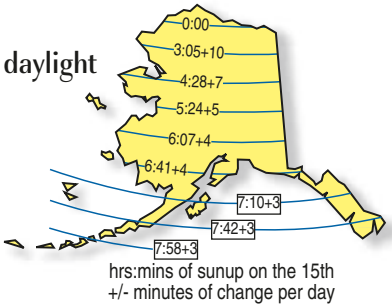
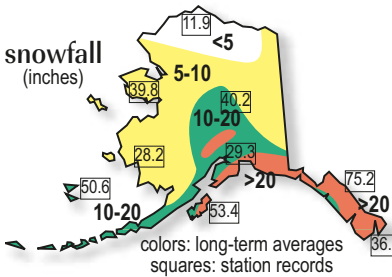
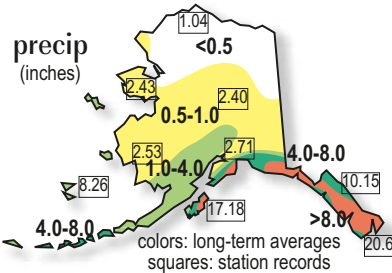
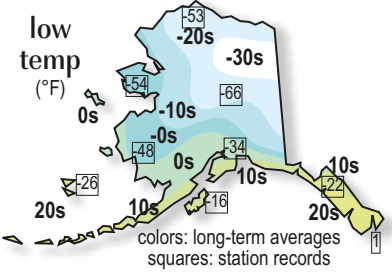
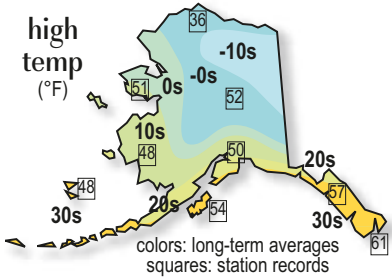
The first rays of the 2000s cast their warm hues onto Redoubt Volcano, but not yet onto a cold fog sweeping over Cook Inlet. The band of pinkish sky, called the *belt of Venus*, is sunlight scattered by the air — including, importantly, particulates (e.g., dust). As the light wind carries the cold air (the morning lows in the area ranged down to  $-25^{\circ}\text{F}/-32^{\circ}\text{C}$ ) over the relatively warm water ( $\sim 32^{\circ}\text{F}/0^{\circ}\text{C}$ ) *sea smoke* forms. Sea smoke, more broadly *steam fog*, forms a bit differently than most fogs. Instead of cooling moist air to the point of condensation, steam fog starts with a warming of the air and adding of moisture. Condensation happens when the moistened air rises, and mixes with the very cold air above, and the mixture ends up saturated, causing fog.



© Ray Hafen / Accent Alaska

↓ **Below left:** A two-for-one ice phenomena scene: A sunset-backlit *pressure ridge* of clear ice on Skilak Lake with *frost flowers* in the foreground. **Below right:** Globes of soft ice described as “slush balls” cover the Chilkat River flats near Haines.

January climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

| week 1  | week 2   | week 3  | week 4  | week 5   | week 6  |   |
|---|--|---|---|--|---|---|
| <p>© Greg Daniels / Accent Alaska</p>   | <p>© Russ White</p>  | <p>S M T W T F S</p> <p>December</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30 31</p> <p>February</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28</p> | <p>1/364<sup>1</sup><br/>Quadrantid meteor shower<sup>2</sup></p> <p><b>1</b></p> <p>New Year's Day</p>   | <p>2/363<br/>perihelion<sup>3</sup></p> <p><b>2</b></p>                      |   |   |
| <p>3/362</p> <p><b>3</b></p> <p>Alaska Statehood Day</p>  | <p>4/361</p> <p><b>4</b></p>   | <p>5/360</p> <p><b>5</b></p> <p>1975: Middle of an epic multi-week, state-wide cold snap. At Clearwater (see May photo) January 4-6 daily highs were -63 to -65F (-53 to -54C).</p>   | <p>6/359</p> <p><b>6</b></p>  | <p>7/358<br/>new moon<br/>1124</p> <p><b>7</b></p> <p>Orthodox Christmas</p> | <p>8/357</p> <p><b>8</b></p>  | <p>9/356</p> <p><b>9</b></p> <p>2022: 2nd major cold outflow winds to hit Southcentral this year. Palmer still picking up the pieces from 90+ mph (145 km/hr) gusts on the 2nd.</p> |
| <p>10/355</p> <p><b>10</b></p> <p>2026: Three multi-day snow dumps the past 15 days added to 5 to 11 ft (1.5-3.4 m) in the Haines area and around 5 ft (1.5 m) in Juneau.</p> | <p>11/354</p> <p><b>11</b></p>   | <p>12/353</p> <p><b>12</b></p>  | <p>13/352</p> <p><b>13</b></p> <p>subnivium: the habitat at the base of the snowpack. The insulating snow moderates the temperature, providing a haven for rodents and insects.</p> | <p>14/351</p> <p><b>14</b></p> <p>Orthodox New Year</p>                      | <p>15/350<br/>first quarter</p> <p><b>15</b></p>                      | <p>16/349</p> <p><b>16</b></p>  |
| <p>17/348<br/>tides: 39%</p> <p><b>17</b></p>   | <p>18/347<br/>tides: 37%</p> <p><b>18</b></p> <p>Martin Luther King, Jr. Day</p> | <p>19/346</p> <p><b>19</b></p> <p>1937: 15.5 inches (39 cm) of snow fell in Fairbanks, the biggest day in the city's all-time snowiest month: total 65.5 inches (167 cm).</p>   | <p>20/345<br/>tides: 164%</p> <p><b>20</b></p>  | <p>21/344<br/>tides: 173%</p> <p><b>21</b></p>                               | <p>22/343<br/>tides: 176%<br/>full moon<br/>0317</p> <p><b>22</b></p> | <p>23/342<br/>tides: 171%</p> <p><b>23</b></p>  |
| <p>24/341<br/>tides: 159%</p> <p><b>24</b></p>  | <p>25/340<br/>tides: 164%</p> <p><b>25</b></p>                                   | <p>26/339</p> <p><b>26</b></p> <p>2002: The -1F (-18.5C) low on this date ended a 1,849 day stretch without a below zero Fahrenheit reading at the Juneau Airport.</p>  | <p>27/338</p> <p><b>27</b></p>  | <p>28/337</p> <p><b>28</b></p>   | <p>29/336<br/>last quarter</p> <p><b>29</b></p>                       | <p>30/335</p> <p><b>30</b></p>  |
| <p>31/334<br/>tides: 41%</p> <p><b>31</b></p>   |  |   |   |  |   |   |

- Notes:
1. See the back cover for information on how to use the extra date features in this calendar.
  2. 2nd: The Quadrantid meteor shower can be seen from approx. Dec 28 through Jan 12 but peaks on Jan 2nd-4th.
  3. 2nd: Perihelion: the point of Earth's orbit closest to the sun.

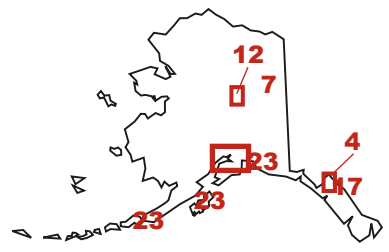
# January 2027



© Jim Green

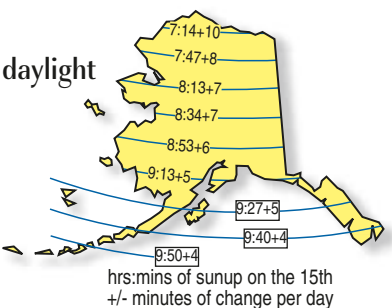
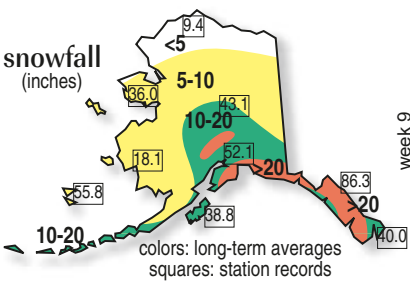
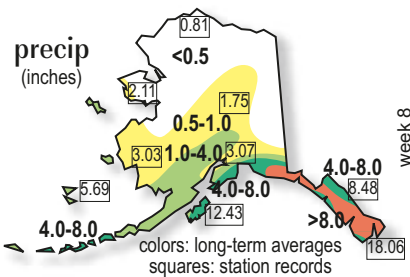
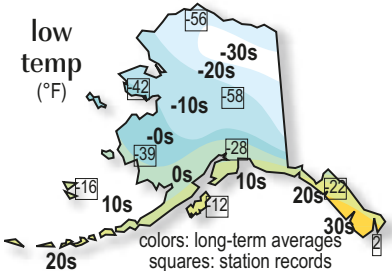
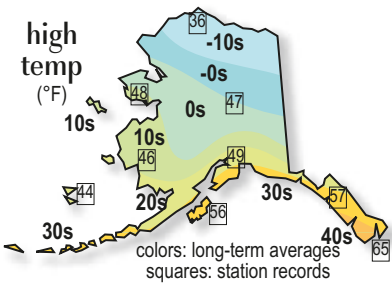
↑ **Fur Rondy Flashback**

Hot air balloons lift off in Anchorage during the 1985 Fur Rendezvous winter festival. The once-common sight of the colorful lighter-than-air crafts became rare in Anchorage soon after for a number of reasons, the weather not one of them. While there are plenty of days you would not want to try to launch one of these airships, Anchorage has many clear, light-wind days, and many of them in winter. Cold is not a problem. Since the lift comes from the temperature (hence density) difference between the air in the balloon and the ambient air, the colder it is, the easier it is to achieve the needed buoyancy. And during good winter flying weather, there is almost always an *inversion*, (the ambient air warming with height): good for balloon control and personal comfort.



↓ **Below top:** Frost flowers growing right at the end of cottonwood sprigs near Haines give a fitting look to the term. **Below bottom:** A highly stratified and stable lower atmosphere around Fairbanks with the coldest air (around -40 °F/C) at the surface, with ice fog visible.

February climate



week 6  
week 7  
week 8  
week 9  
week 10

SUNDAY

MONDAY



TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

|   |  |  |  |               |   |
|---|--|--|--|---------------|---|
| <p>32/333<br/>tides: 38%</p>  <p>© Helena Muenich</p> | <p>33/332<br/>tides: 42%<br/>Mercury E elongation<sup>1</sup></p>                    | <p>34/331</p>  | <p>35/330</p>  | <p>36/329</p> | <p>37/328<br/>new moon 0656<br/>annular solar eclipse<sup>2</sup></p>           |
| <p>38/327<br/>Mercury very near moon<sup>3</sup></p>  | <p>39/326</p>  | <p>40/325</p>  | <p>41/324<br/>Jupiter at opposition<sup>4</sup></p> <p>Ash Wednesday</p> | <p>42/323</p> | <p>43/322</p>   |
| <p>45/320<br/>tides: 38%</p> <p>St. Valentine's Day</p>   | <p>46/319</p> <p>Presidents' Day</p>   | <p>47/318<br/>tides: 37%</p> <p>Elizabeth Peratrovich Day (Alaska)</p> | <p>48/317</p>  | <p>49/316</p> | <p>50/315<br/>tides: 159%<br/>Mars at opposition<br/>Jupiter very near moon</p> |
| <p>52/313<br/>tides: 159%</p>   | <p>53/312<br/>tides: 157%</p>  | <p>54/311</p>  | <p>55/310</p>  | <p>56/309</p> | <p>57/308</p>   |
| <p>59/306</p>   |  |  |  |               | <p>58/307<br/>last quarter</p>  |

# February 2027

- Notes:
1. 2nd: Point in the planet's orbit of the greatest angular distance from the sun.
  2. 6th: Visible from southern S. America; partial visible from western Africa.
  3. 7th: Occulation of Mercury by the moon will be visible in some areas.
  4. 10th: Jupiter is opposite the sun, so closest pass by Earth. Same for Mars on the 19th.
  5. 20th-21st: Visible globally except for the Pacific and most Pacific rim areas.

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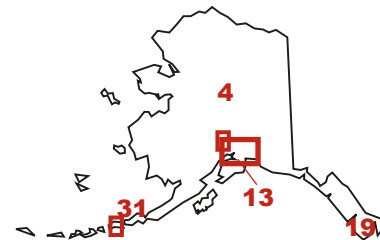
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|---------|----|----|----|----|----|----|---|
| S       | M  | T  | W  | T  | F  | S  |   |
| January |    |    |    |    |    | 1  | 2 |
| 3       | 4  | 5  | 6  | 7  | 8  | 9  |   |
| 10      | 11 | 12 | 13 | 14 | 15 | 16 |   |
| 17      | 18 | 19 | 20 | 21 | 22 | 23 |   |
| 24      | 25 | 26 | 27 | 28 | 29 | 30 |   |
| 31      |    |    |    |    |    |    |   |
| March   |    |    |    |    |    |    |   |
|         | 1  | 2  | 3  | 4  | 5  | 6  |   |
| 7       | 8  | 9  | 10 | 11 | 12 | 13 |   |
| 14      | 15 | 16 | 17 | 18 | 19 | 20 |   |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 |   |
| 28      | 29 | 30 | 31 |    |    |    |   |



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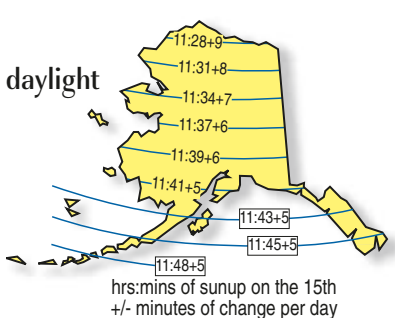
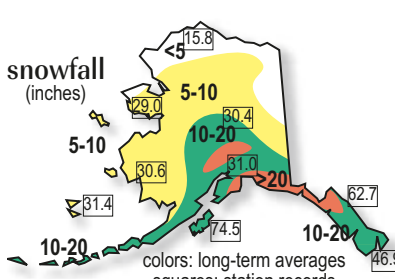
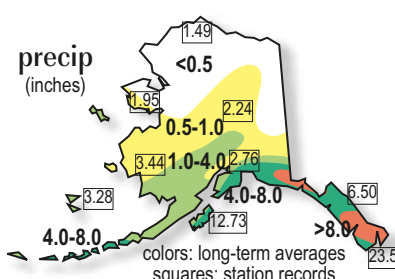
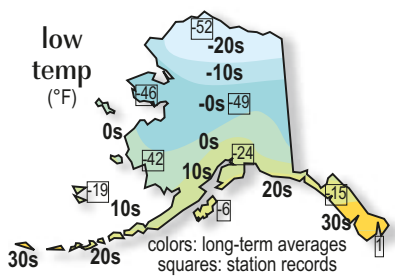
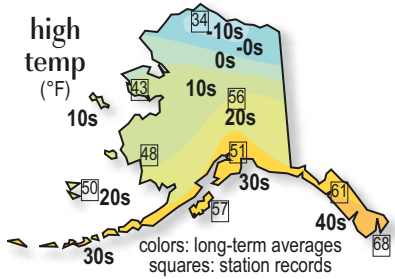
## ↑ Cloven Cloud

A *fallstreak* splits a layer of *altocumulus* over the Matanuska River. The clouds in the photo, despite being around 10,000 feet (3,000 m) up and some 35 Fahrenheit degrees below freezing ( $-19^{\circ}\text{C}$ ), would have been mostly or totally composed of *supercooled* liquid water droplets — poised to freeze, but too clean. They lacked freezing *nuclei*, small particles that act as a sort of template to get the crystal structure started. When such nuclei are introduced in large numbers (often due to aircraft operations), freezing is rapid, as is subsequent growth of the crystals. The resultant snowflakes fall out of the cloud, leaving a clear area, and often make holes in lower clouds too (official: *cavum*, popular: *hole punch clouds*). Usually the crystals evaporate before reaching the ground (*virga*).



**Below top:** Deep snow at the Iditarod cabin at Winterlake Lodge on Finger Lake. **Below bottom:** Volcano lineup, L-R: Roundtop, Isanotski, Pogromni (in the distance), and a venting Shishaldin, on a brilliant clear day above the usual low stratus deck.

# March climate



# March 2027

|          | SUNDAY  | MONDAY   | TUESDAY                                     | WEDNESDAY                                | THURSDAY   | FRIDAY  | SATURDAY                                       |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
|----------|---|--|---|--|--|---|--|---|---|---|---|---|---|----------|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|---|---|---|--|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---------------------|
| week 10  | <br>60/305<br>tides: 37%<br><b>1</b>                | 61/304<br>tides: 35%<br><b>2</b>   | 62/303<br>tides: 41%<br><b>3</b>            | 63/302<br>Venus near moon<br><b>4</b>    | 64/301<br>Mercury near moon<br><b>5</b>  | 65/300<br><b>6</b>  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| week 11  | 66/299<br><b>7</b>                                  | 67/298<br>new moon 0029<br><b>8</b>  | 68/297<br><b>9</b>                          | 69/296<br><b>10</b>                      | 70/295<br><b>11</b>  | 71/294<br><b>12</b>   | 72/293<br><b>13</b>                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| week 12  | 73/292<br><b>14</b><br>Daylight Saving Time begins! | 74/291<br>tides: 43%<br>first quarter<br><b>15</b>                         | 75/290<br>Mercury W elongation<br><b>16</b> | 76/289<br><b>17</b><br>St. Patrick's Day | 77/288<br><b>18</b>  | 78/287<br>Mars near, Jupiter very near moon <sup>2</sup><br><b>19</b> | 79/286<br><b>20</b><br>Vernal Equinox 12:25 pm |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| week 13  | 80/285<br><b>21</b>                                 | 81/284<br>full moon 0144<br><b>22</b>                                      | 82/283<br><b>23</b><br>Purim                | 83/282<br><b>24</b>                      | 84/281<br><b>25</b>  | 85/280<br><b>26</b><br>Good Friday                                    | 86/279<br><b>27</b>                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| week 14  | 87/278<br><b>28</b><br>Easter                       | 88/277<br>tides: 40%<br>last quarter<br><b>29</b><br>Seward's Day (Alaska) | 89/276<br>tides: 38%<br><b>30</b>           | 90/275<br>tides: 35%<br><b>31</b>        | <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td colspan="7">February</td> </tr> <tr> <td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td> </tr> <tr> <td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> </tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td> </tr> <tr> <td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td> </tr> <tr> <td>28</td><td colspan="6"></td> </tr> <tr> <td colspan="7">April</td> </tr> <tr> <td></td><td></td><td>1</td><td>2</td><td>3</td><td colspan="2"></td> </tr> <tr> <td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td> </tr> <tr> <td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td> </tr> </table> |   | S  | M | T | W | T | F | S | February |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |  |  |  |  |  |  | April |  |  |  |  |  |  |  |  | 1 | 2 | 3 |  |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  | <br>© Craig Walters |
| S        | M   | T  | W   | T  | F  | S   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| February |   |  |   |  |  |   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
|          | 1   | 2  | 3   | 4  | 5  | 6   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 7        | 8   | 9  | 10  | 11                                       | 12   | 13  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 14       | 15  | 16   | 17  | 18                                       | 19   | 20  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 21       | 22  | 23   | 24  | 25                                       | 26   | 27  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 28       |   |  |   |  |  |   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| April    |   |  |   |  |  |   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
|          |   | 1  | 2   | 3  |  |   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 4        | 5   | 6  | 7   | 8  | 9  | 10  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 11       | 12  | 13   | 14  | 15                                       | 16   | 17  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 18       | 19  | 20   | 21  | 22                                       | 23   | 24  |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |
| 25       | 26  | 27   | 28  | 29                                       | 30   |   |  |   |   |   |   |   |   |          |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |   |   |   |  |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                     |

Notes: 1. 14th: Changes are possible; check the status of Daylight Saving Time laws in your area.  
 2. 19th: The moon will swing by Mars and Jupiter, with an occultation of Jupiter visible mainly in Australia and New Zealand. The two planets will make their closest approach to each other on the 30th, and then gradually drift apart over the summer.



© John Hyde / Connect Images / Alaska Stock

## ↑ Ice on Rock Masterpiece

Sunbeams provide perfect contrasty light to capture the grandeur (as much as a photo can, versus being there) of the snow, glaciers, and peaks of the Juneau Icefield. The glaciated area straddles the US-Canada border between Juneau and Skagway, extending east almost to Atlin Lake, British Columbia, an area of around 1,500 square miles (3,900 sq. km). Some 140 glaciers emanate from the high altitude source, many descending far down valleys, carving as they go, ending on the lower slopes, or at the ocean. The icefield is one of the longest-studied anywhere, with the research and teaching mission of the Juneau Icefield Research Program going back to the 1940s. During that time, the program has helped document the continued retreat of virtually all the valley glaciers.



↓ **Below left:** Backcountry skiing on the Ruth Glacier in whiteout conditions. **Below right:** Sunlight refracted in ice crystals produces *iridescent* colors in mountain wave clouds over the Chugach Mountains. The clouds have a look of highly turbulent *breaking waves*.

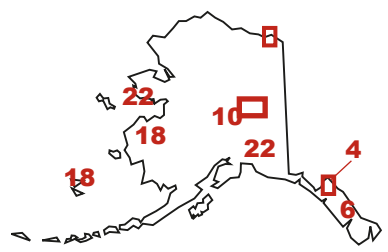




© Sebastian Saarloos

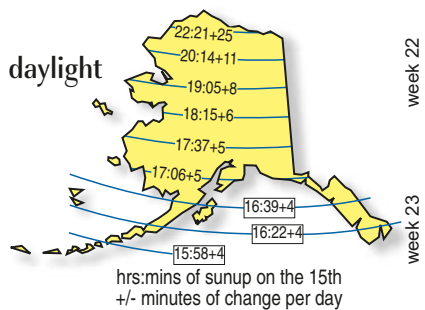
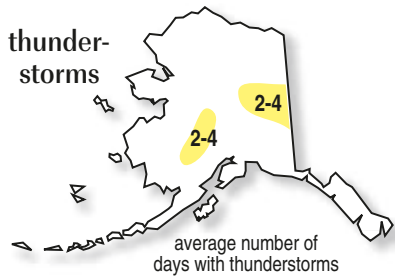
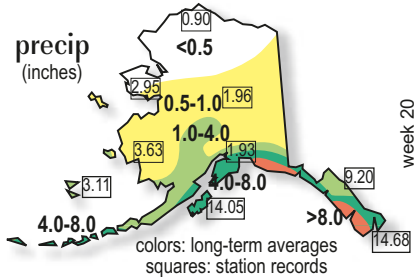
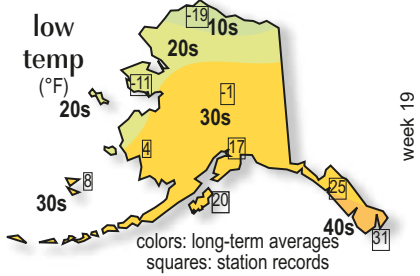
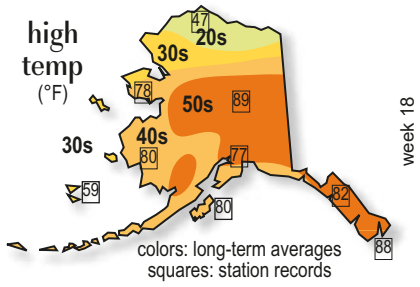
## ↑ Lake of the Midnight Sun

A very early sunrise reflects off the clouds, and in turn, off the calm water of Clearwater Lake near Delta Junction. At this latitude, 170 miles (270 km) south of the Arctic Circle, there's no real "night" from about May 20 to July 20. Due to the geometry of the earth's orbit and rotation, the closer to the "top" or "bottom" of the earth one is, the smaller the angle the sun's path makes with the horizon. This means that in summer, not only is the sun down for a shorter time, but when it is, it stays close to the horizon longer, so twilight lasts much longer than at lower latitudes. There's extra time to enjoy the sunset, or sunrise, or both, as they tend to merge on the longest days (if you don't mind the late/early hour). In the winter the short days are thankfully lengthened by the long twilight.



↓ **Below left:** A rainbow over Lynn Canal, the northern stretch of the Inside Passage. **Below right:** Youth brace themselves against a cold wind in Kaktovik. Spring comes slowly to the North Slope. Usually fewer than one third of May days reach the melting point (32 °F/0 °C).

May climate



SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

| SUNDAY   | MONDAY                               | TUESDAY                            | WEDNESDAY  | THURSDAY  | FRIDAY   | SATURDAY                           |
|--|--------------------------------------|------------------------------------|--|---|--|------------------------------------|
| <p>© Jim Green</p>                                 |                                      |                                    | <p>April</p> <p>June</p>                                     |   | <p>© Seth Adams</p>  |                                    |
| 122/243<br><b>2</b><br>Orthodox Easter             | 123/242<br><b>3</b>                  | 124/241<br><b>4</b>                | 125/240<br><b>5</b>  | 126/239<br>new moon 0258<br><b>6</b> ☀                  | 127/238<br>tides: 164%<br>Venus near Saturn<br><b>7</b>        | 128/237<br>tides: 169%<br><b>8</b> |
| 129/236<br>tides: 167%<br><b>9</b><br>Mother's Day | 130/235<br>tides: 160%<br><b>10</b>  | 131/234<br><b>11</b>               | 132/233<br>first quarter<br>Jupiter near moon<br><b>12</b> 🌙 | 133/232<br>Mars near moon<br><b>13</b>                  | 134/231<br><b>14</b>   | 135/230<br><b>15</b>               |
| 136/229<br><b>16</b>                               | 137/228<br><b>17</b>                 | 138/227<br><b>18</b>               | 139/226<br>tides: 152%<br><b>19</b>                          | 140/225<br>tides: 154%<br>full moon 0259<br><b>20</b> 🌕 | 141/224<br>tides: 152%<br><b>21</b>                            | 142/223<br><b>22</b>               |
| 143/222<br><b>23</b>                               | 144/221<br><b>24</b>                 | 145/220<br>tides: 43%<br><b>25</b> | 146/219<br>tides: 43%<br><b>26</b>                           | 147/218<br><b>27</b>                                    | 148/217<br>last quarter<br>Mercury E elongation<br><b>28</b> 🌘 | 149/216<br><b>29</b>               |
| 150/215<br><b>30</b>                               | 151/214<br><b>31</b><br>Memorial Day |                                    |  |   |  |                                    |

Notes: 1. 18th: Common mistake. I withheld the Celsius conversions because they are a give-away. The highs in Celsius were 4 and 16 degrees. That would make it *four* times warmer in St. Marys. Clearly this kind of comparison is not valid using temperature scales.

May  
2027



## ↑ River of Ice, River of Water

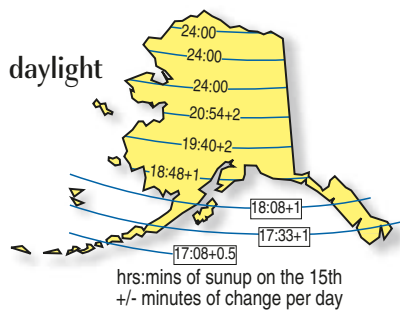
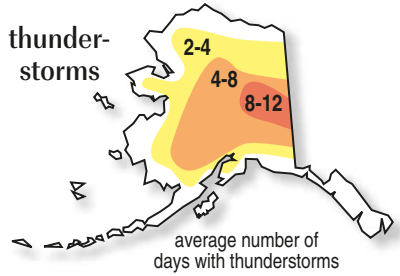
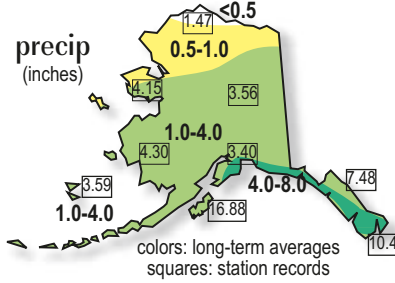
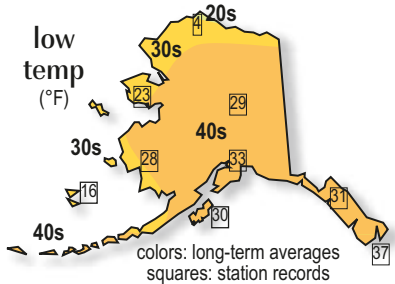
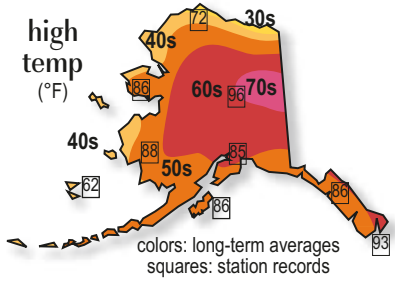
Tents of backcountry travelers are overwhelmed by the land, water, ice, and sky of Kluane National Park in southwest Yukon Territory, Canada. The Donjek Glacier and Donjek River are backed by hints of the massive St. Elias Mountains and the dark cumulus clouds spilling out from them. It's a rich and active classroom for the formal or informal study of geology, volcanology, glaciology, hydrology, and meteorology and how they shape each other, (not to mention biological sciences). The backbone feature of the region is the crowd of coastal mountains stretching from Glacier Bay to Prince William Sound. These mountains block, steer, or modify any weather system that happens along, thus shaping the weather and climate of every place, and everything that they in turn shape.



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↓ **Below top:** Small boats and ice. Paddlers approach Barter Island and the village of Kaktovik in mid-June. **Below bottom:** Large boat and ice. Researchers sample melt ponds in the Chukchi Sea on July 10, 2011.

June climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

|  |   |   |                                     |  |   |  |  |
|--|---|---|-------------------------------------|--|---|--|--|
| week 23<br> | 152/213<br><b>1</b>   | 153/212<br><b>2</b>                             | 154/211<br><b>3</b>                 | 155/210<br>tides: 165%<br>new moon 1140<br><b>4</b>  | 156/209<br>tides: 175%<br>Mercury near moon<br><b>5</b>   |  |  |
|  | 157/208<br>tides: 180%<br><b>6</b>  | 158/207<br>tides: 177%<br><b>7</b>              | 159/206<br>tides: 168%<br><b>8</b>  | 160/205<br>tides: 152%<br>Jupiter near moon<br><b>9</b>  | 161/204<br>Mars near moon<br><b>10</b>  | 162/203<br>first quarter<br><b>11</b>   | 163/202<br><b>12</b>   |
| week 24  | 164/201<br><b>13</b>  | 165/200<br><b>14</b><br>Flag Day                | 166/199<br><b>15</b>                | 167/198<br><b>16</b>   | 168/197<br><b>17</b>  | 169/196<br>full moon 1644<br><b>18</b>  | 170/195<br><b>19</b><br>Juneteenth   |
|  | 171/194<br><b>20</b><br>Father's Day  | 172/193<br><b>21</b><br>Summer Solstice 6:11 am | 173/192<br><b>22</b>                | 174/191<br><b>23</b>   | 175/190<br><b>24</b>  | 176/189<br><b>25</b>   | 177/188<br>last quarter<br><b>26</b>    |
| week 25  | 178/187<br><b>27</b>  | 179/186<br><b>28</b>                            | 180/185<br>tides: 143%<br><b>29</b> | 181/184<br>tides: 144%<br><b>30</b>  | <br>Kathryn Hansen<br>NASA |  | S M T W T F S  |
|  | Of the 50 warmest days ever recorded at Kotzebue, ranging from 78-85F (26-29C), all but one were in June or July, with the one being in August. |   |                                     |  |   |  | May<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 29<br>30 31<br>July<br>1 2 3<br>4 5 6 7 8 9 10<br>11 12 13 14 15 16 17<br>18 19 20 21 22 23 24<br>25 26 27 28 29 30 31 |

# June 2027

# War & Weather in Alaska

Alaska's weather is not patient with the unprepared. When war came to Alaska in 1942, there was little time for the military to learn to operate on the weather's terms, and little leeway for it not to. This test was met with resolve, but not without extreme hardship and loss of life. Here are some ways Alaska and the war shaped each other, weather-wise.

## How the weather affected the war machine

### Aleutian campaign weather woes

When the Japanese captured Attu and Kiska Islands, the US military response quickly ran into a ferocious enemy: the weather. The Aleutian Islands border two distinct water bodies that shape their climate. To the south, the vast, deep Pacific is relatively warm, giving it a large moisture load and the thermal energy to power large low pressure systems known for strong winds and abundant precipitation. To the north, the shallower Bering Sea cools much more than the North Pacific during winter. The resulting temperature contrast between the two invigorates low pressure systems arriving from the southwest.

### The winds of winter

During the long winter, the weather is driven alternately between these amped-up lows and a north or northwest flow of frigid Siberian air, which brings frequent snow showers, sometimes organized into small but intense polar lows. These dangerous systems, which, on satellite imagery, bear a striking resemblance to tropical storms, defied reliable forecasting until recent times.

**Data: Average wind speed at Shemya ranges from 13.1 mph in July to 21.5 mph in November. Sustained winds of 60 mph or more have occurred at least once each month from October through April.**



It wasn't just on the Al-Can... there was plenty of mud to contend with in the Aleutians.



Despite the weather, many of the troops lived in tents. This photo was likely taken at Adak. [US Navy / National Archives # 80-G-475616]

### The fogs of summer

During the short summer season Pacific storms weaken and more often give way to persistent high pressure, which almost always results in fog and or low stratus, especially over the Bering Sea, which remains very cold through early summer.

**Data: Dense fog (visibility <= 1/4 mile) occurs on average 82 days per year at Shemya, 54 days in June, July, and August.**

### Terrain-induced weather

Complicating this mix are the rugged mountains. Clouds and precipitation are enhanced on the windward side of the terrain. On the leeward side is a rain shadow effect which reduces precipitation and sometimes even clears clouds and fog from an otherwise unbroken sea of white.

When strong winds blow, the mountains create a chaos of up-and-drafts, turbulence, and accelerated flow through mountain gaps, and downwind of ridges (the infamous williwaw.)

**Data: Reliably measured gusts: Dutch Harbor 115 mph, Adak 122 mph.**

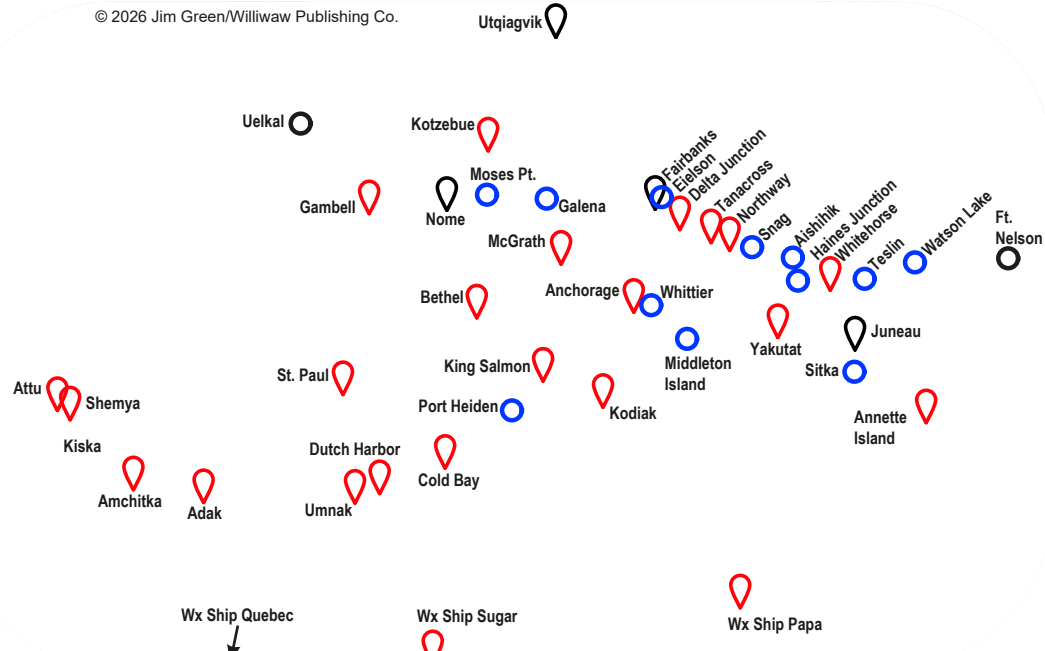
### Penetrating Cold

The Aleutian Islands are the southernmost part of Alaska, on a latitude similar to Dublin, Ireland, but don't expect any correlation with the temperature. And it wasn't just about the temperature. It was the unrelenting wetness and wind that wore down trained soldiers. The cold penetrates much more than in the drier, calmer conditions of the mainland.

This map depicts most of the key wartime weather installations that remained operational for a number of years post-war, but it is not comprehensive.

- new upper air station
- existing upper air station
- new surface station
- Lend-Lease air route (and Al-Can to Delta Junction)

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Note: In many cases on this map current place names have been used instead of lesser known military names, e.g., the Lend-Lease airstrip at Nome was known as Marks Field.

## How the war affected the weather machine

### New weather stations

With the building of new airfields came new weather stations, many still active today. Weather ships were put into major use during the war. Manned ships provided valuable upstream data about storms via surface observations and upper air balloon soundings. These were the precursor to still-crucial weather buoys. See the map above for some specifics.

**Data: Snag Airfield, built for Northwest Staging Route, operated as a weather reporting site until 1966. On February 3, 1947 it broke (and still holds) the record for the coldest temperature in North America: -63.0 °C (-81.4 °F).**

### Big upgrade for upper air soundings

Weather balloons have been used for centuries to ascertain cloud heights and winds aloft, but with limited usefulness until development of radio-based systems in the 1930s. When the US entered the war there were only four or five such stations in Alaska giving sporadic reports. The military expanded this to around a dozen stations during the war. After, military and Weather Bureau installations and upgrades brought the network, by the end of the 1940s, to functionally close to what it has been



Newly installed "rawinsonde" upper air sounding equipment at St Paul, c1950. The dish antenna is visible behind the observer as a metal grid. As it rotates to track the balloon, the observer's seat and desk rotate around a common pivot in order to stay clear. The circular plotting board was used to graphically calculate the wind speed and direction. [NWS]

**Data: Average annual snowfall ranges from 60 to 100 inches and often lingers into May, longer at elevation. Even in the warmest month only about half of days reach the mid 50s F near the water.**

Leather boots, no matter how well greased, can't keep that kind of wet and cold out for long. Late in the campaign better clothing, including rubber boots, was issued.

**Data: Many ground troops were downed by foot issues such as frostbite, trench foot, and gangrene. In the battle of Attu 1,200 soldiers suffered "severe cold injuries."**

### The high toll of the weather

Low visibility and ceilings were pivotal in many battles. Many air missions were aborted when targets could not be located. Many aircraft crashed into cloud-hidden terrain or could not locate their base and ditched at sea when fuel ran out.

**Data: Allied forces (US & Canadian) lost 225 aircraft in the Aleutian Campaign, 41 in combat, 184 due to accidents, mostly weather related.**

The persistent pea soup could be used to advantage at times. In the amphibious operation to retake Attu, the Allied forces approached and landed in the fog, aided by the newly-developed radar. And when they landed at Kiska, it was deserted; the Japanese forces had used the cover of weather to evacuate weeks earlier.

**Data: Despite no enemies during the retaking of Kiska, approximately 30 troops were killed by friendly fire amidst, quite literally in this case, "the fog of war."**

### Infrastructure build-up hurdles

The Alaska Highway (then usually called the Al-Can), and the Northwest Staging Route airfields used in the Lend-Lease program were the most prominent war projects, but scores of other bases and airfields were built throughout Alaska. Engineers and construction crews scrambled to deal with permafrost, the upper active layer of which turns to a muddy soup in summer when disturbed. Road crews resorted to draining the water off with wooden culverts, or overlaying it with small-diameter timber, a technique called "corduroy" (see photo). Even away from permafrost there were plenty of wet areas to deal with, especially during spring breakup and fall rains.

### Legendary cold

When Al-Can construction started in March 1942, even the southern parts of the route were still experiencing double-digit below zero temperatures. When construction wound down at the end of October, the northern end of the route had been as cold as -11F. Other projects, and daily flight operations, continued through winters.

**Data: The winter of 1942-43 was decidedly colder than average. At Northway there were 25 days with lows -50F or colder, a statistic matched only once since.**

### Strategic climate partner

Cloud cover was an asset for keeping things hidden, and that's one reason a spur of the Alaska Railroad was built to Whittier, via a tunnel through the mountains. If the terminus in Seward had been bombed, Whittier might have survived, simply because the Japanese may not have known it was there. It's that cloudy.



"Corduroy" paving (foreground) and a wooden culvert to deal with excessive water. [U.S. Army Corps of Engineers]



The building of the Al-Can provided an opportunity for black troops to prove themselves in a segregated military, and that they did, despite inferior equipment and the fact that not many of them had cold weather experience (neither did many of the white troops -- of course Alaska Natives were highly experienced). [U.S. Army Corps of Engineers]

### September 2026

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |    |    |

### October 2026

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

### November 2026

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |    |    |    |    |    |

### December 2026

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

since, using automated radio tracking dish antennae to return temperature, moisture, and wind data at pressure levels well up into the stratosphere. The advent of this system was aided by technologies developed by the military, such as radar, and miniaturized electronics, and its implementation financed by the military, until civilian agencies shared the job. This worldwide system improved analysis of



The installation of a rain gauge on Gastineau Peak near Juneau in 1941. [NOAA]

weather systems, and eventually provided the main input to computer models of the atmosphere developed in the 1950s and now the key component of weather forecasting.

### New knowledge and continuing research

During and after the war, the increased inflow of weather data on land, sea and above the surface, much of it from areas not previously well studied, spurred western science understanding of the weather and laid the groundwork for further research. Real-world experience and local knowledge of flying in Alaska weather was amassed (see graphic from pilot weather book to right).

The cold weather research lab at Ladd Field (now Fort Wainwright) in Fairbanks opened in 1940 and continued long after the war. It focused on dealing with the cold from an aviation standpoint, to equip both planes and pilots. North of Alaska, the military maintained research stations on ice islands for several years as they drifted with the Arctic currents.



A page from a military manual for pilots on flying weather in the Aleutians, c1950s. [NAS Adak].



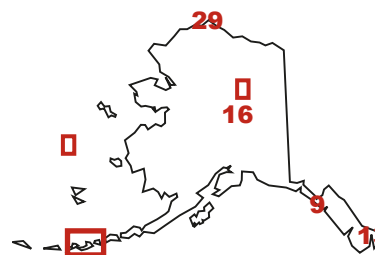
Researchers on the ice in the Beaufort Sea, 1949. [NOAA]



courtesy of Jacob Whitaker

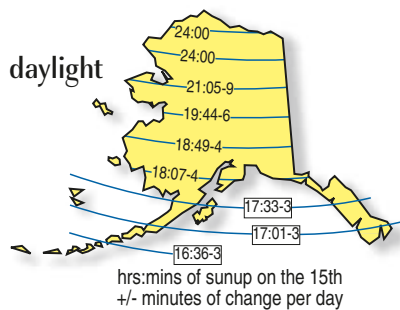
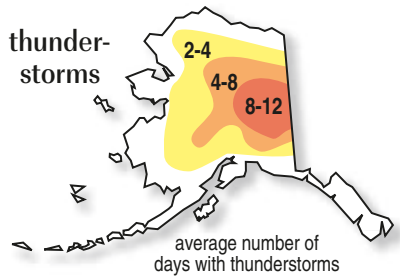
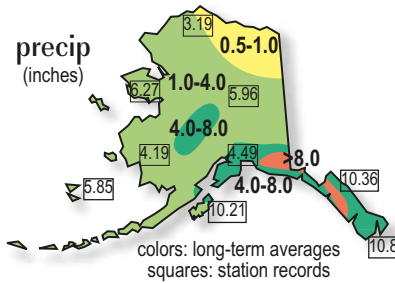
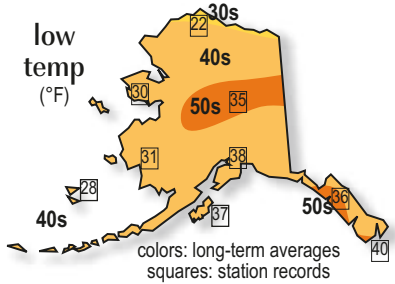
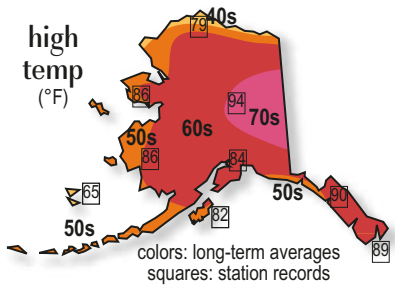
## ↑ Neighborhood Volcano

Steam escapes the summit crater of Makushin Volcano, elevation 5,905 ft (1,800 m). Steam venting is common to many of Alaska's volcanoes, vs an eruption, which involves an ejection of ash and/or lava. Ash can be a major threat to aviation, even far from the source, so specialized computer models are used to forecast the spread of the plume. Although Makushin has had only minor eruptions since 1938, the colorful chemical evidences in the water and on the ground hint of its potential. Just 16 miles (26 km) from downtown Unalaska, it's got to be one of the more accessible volcanoes in Alaska. If you don't already live there, you can catch a scheduled flight (weather permitting) to Dutch Harbor/Unalaska and hike to the top (weather and mountain skills permitting).



↓ **Below left:** Typical summer low clouds shroud Hall Island in the northern Bering Sea. **Below right:** Pyrocumulus clouds rise above a wild-fire in the Yukon Flats. Note the spreading anvil on top of the more distant cloud, and the spreading lower layer of mostly smoke.

# July climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

|         | SUNDAY  | MONDAY                  | TUESDAY   | WEDNESDAY   | THURSDAY                        | FRIDAY  | SATURDAY                 |  |  |  |    |    |    |  |
|---------|---|-------------------------|---|---|---------------------------------|---------|--------------------------|--|--|--|----|----|----|--|
| week 27 | <br>© Kim Heacox / Accent Alaska |                         | <p>S M T W T F S</p> <p>June</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30</p> <p>August</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p> | <br>© Chris Flowers | 182/183                         | 1       | 183/182                  | 2  | 184/181<br>tides: 169%<br>new moon<br>1902   | 3  |    |    |    |  |
| week 28 | 185/180<br>tides: 179%<br>aphelion <sup>1</sup>   | 186/179<br>tides: 183%  | 187/178<br>tides: 179%<br>Jupiter near moon   | 188/177<br>tides: 167%  | 189/176                         | 190/175 | 191/174<br>first quarter | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| week 29 | 192/173   | 193/172                 | 194/171   | 195/170   | 196/169<br>Mercury W elongation | 197/168 | 198/167                  | 11   | 12   | 13   | 14 | 15 | 16 | 17   |
| week 30 | 199/166<br>full moon<br>0745  | 200/165                 | 201/164   | 202/163   | 203/162                         | 204/161 | 205/160                  | 18  | 19   | 20   | 21 | 22 | 23 | 24   |
| week 31 | 206/159   | 207/158<br>last quarter | 208/157<br>tides: 42%   | 209/156<br>tides: 37%   | 210/155<br>tides: 40%           | 211/154 | 212/153                  | 25   | 26  | 27   | 28 | 29 | 30 | 31   |

Notes: 1. 4th: Aphelion: the point of Earth's orbit farthest from the sun.

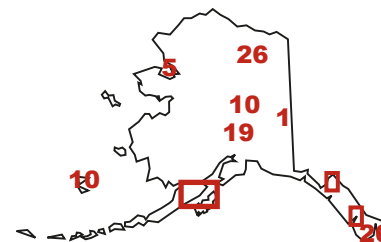
# July 2027



© Tom Walker

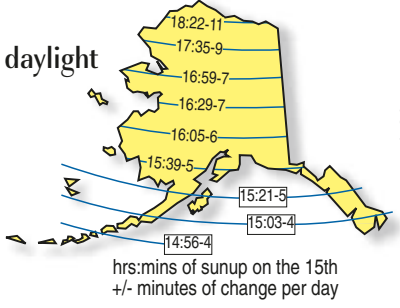
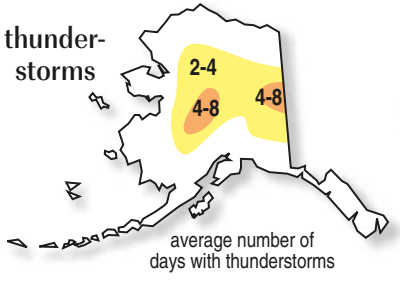
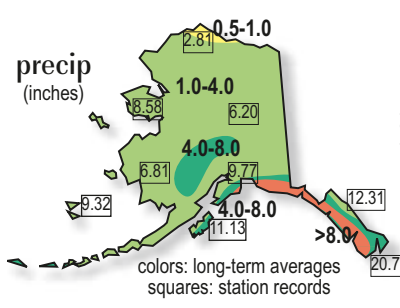
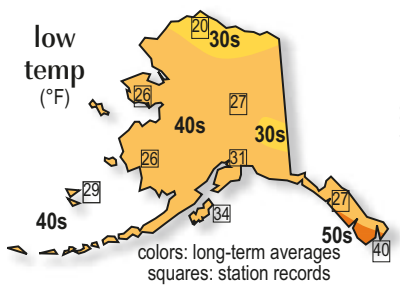
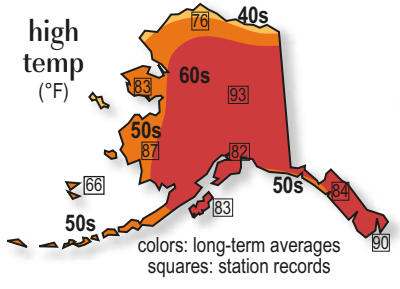
## ↑ Flying Saucers

Sunrise catches a dramatic display of *lenticular* clouds on the coast of Shelikof Strait, in the Katmai Wilderness. An example of *orographically* forced clouds, ones produced by wind flowing over mountains, the category includes not only the distinctive lenticular forms of *cap clouds* or *lee wave clouds*, but harder-to-spot larger-scale versions that might cover the whole sky when viewed from the ground. Interesting ones tend to form somewhat in advance of an approaching low-pressure system, when multiple layers of moisture move in at mountaintop level, but not so much as to flood the area with lower clouds that can block the view. This is a situation leading to the “stacked plate” look seen in the photo. The eye-catching forms have been thought to be UFOs many times.



↓ **Below left:** The Chilkat Valley, plumb full of fog to the brim, with a fog bow for extra credit. **Below right:** Like a cloud poster in many a classroom, this scene in Sumner Strait shows low (cumulus), middle (altocumulus) and high clouds (cirrus) laid out easy to see.

# August climate



|           | SUNDAY                                 | MONDAY   | TUESDAY   | WEDNESDAY                          | THURSDAY  | FRIDAY   | SATURDAY             |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-----------|--|--|---|------------------------------------|---|--|----------------------|---|---|---|---|---|---|---|------|--|--|--|--|--|--|--|--|--|---|---|---|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| week 32   | 213/152<br><b>1</b>                    | 214/151<br>new moon<br>0205<br>total solar<br>eclipse <sup>1</sup><br><b>2</b> ●       | 215/150<br><b>3</b>                                       | 216/149<br><b>4</b>                | 217/148<br><b>5</b>   | 218/147<br><b>6</b>  | 219/146<br><b>7</b>  |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| week 33   | 220/145<br>first quarter<br><b>8</b> ● | 221/144<br><b>9</b>  | 222/143<br>tides: 42%<br><b>10</b>                        | 223/142<br>tides: 35%<br><b>11</b> | 224/141<br>tides: 36%<br>Perseid mete-<br>or shower <sup>2</sup><br><b>12</b> | 225/140<br>tides: 42%<br><b>13</b>   | 226/139<br><b>14</b> |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| week 34   | 227/138<br><b>15</b>                   | 228/137<br>full moon<br>2329<br>penumbral<br>lunar eclipse <sup>3</sup><br><b>16</b> ● | 229/136<br><b>17</b>                                      | 230/135<br><b>18</b>               | 231/134<br><b>19</b>  | 232/133<br><b>20</b>   | 233/132<br><b>21</b> |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| week 35   | 234/131<br><b>22</b>                   | 235/130<br><b>23</b>   | 236/129<br>last quarter<br><b>24</b> ●                    | 237/128<br>tides: 38%<br><b>25</b> | 238/127<br>tides: 35%<br><b>26</b>  | 239/126<br>tides: 43%<br><b>27</b>   | 240/125<br><b>28</b> |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| week 36   | 241/124<br><b>29</b>                   | 242/123<br><b>30</b>   | 243/122<br>tides: 157%<br>new moon<br>0941<br><b>31</b> ● | <p>© Sam Edwards</p>               |   | <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td colspan="7">July</td> </tr> <tr> <td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td></td> </tr> <tr> <td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td> </tr> <tr> <td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td> </tr> <tr> <td colspan="7">September</td> </tr> <tr> <td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td> </tr> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> </tr> <tr> <td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td> </tr> </table> |                      | S | M | T | W | T | F | S | July |  |  |  |  |  |  |  |  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | September |  |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |
| S         | M                                      | T  | W   |                                    |   | T  | F                    | S |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| July      |  |  |   |                                    |   |  |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|           |  |  | 1   | 2                                  | 3   |  |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 4         | 5                                      | 6  | 7   | 8                                  | 9   | 10   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 11        | 12                                     | 13   | 14  | 15                                 | 16  | 17   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 18        | 19                                     | 20   | 21  | 22                                 | 23  | 24   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 25        | 26                                     | 27   | 28  | 29                                 | 30  | 31   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| September |  |  |   |                                    |   |  |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|           |  |  | 1   | 2                                  | 3   | 4  |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 5         | 6                                      | 7  | 8   | 9                                  | 10  | 11   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 12        | 13                                     | 14   | 15  | 16                                 | 17  | 18   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 19        | 20                                     | 21   | 22  | 23                                 | 24  | 25   |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| 26        | 27                                     | 28   | 29  | 30                                 |   |  |                      |   |   |   |   |   |   |   |      |  |  |  |  |  |  |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

1944: Northway's 3.91 inches (99 mm) of rain in 24 hours amounts to 39% of the yearly average for the station. Think of the unpaved Al-Can.

2021: The high at Kotzebue on this date was set at 2:05 am, 70F/21C, the low at 1:28 pm, 59F/15C. This is due to a long cooling after 80F on the 4th.

2008: This month, St. Paul's calmest ever (of 34 years), 8.1 mph (13.0 km/hr), still beats Fairbanks' windiest (Feb 2011), 8.0 mph (12.9 km/hr).

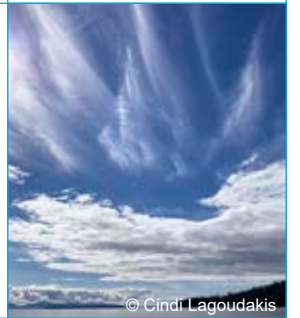
1970: 9.7" (25 cm) at Summit (elev. 2409/735 m) on the AK RR, was one of Alaska's heaviest July snowfalls, excepting remote mountain locations.

The NWS 8 inch "standard rain gauge" has been in use for over 100 years. It's more reliably accurate than high tech automated gauges.

2025: Big state: the NWS had both a heat advisory (for Ketchikan), and a winter storm warning (for the Dalton Highway) in effect on this date.

- Notes:
1. 2nd: Path of totality runs along the north coast of Africa to the southern Arabian Peninsula. Partial eclipse visible in Europe, most of Africa, SW Asia.
  2. 12th: Perseid meteor shower runs from mid-July through about August 24th, with a peak around the 12th.
  3. 16-17th: Penumbral lunar eclipse visible in the Americas and Pacific region... in Alaska and Hawaii as the moon rises in the late evening of the 16th (17th in most other areas).

# August 2027

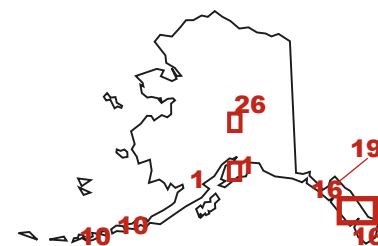




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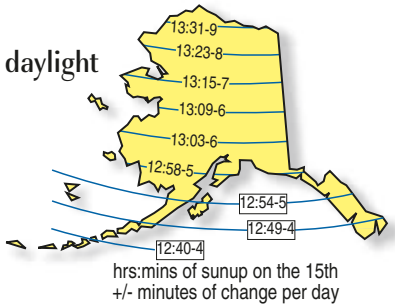
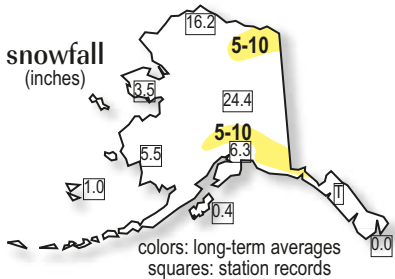
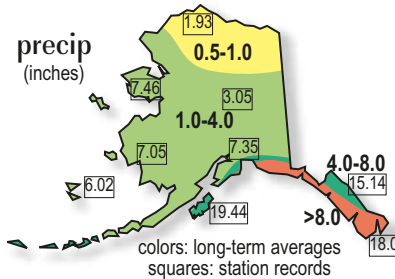
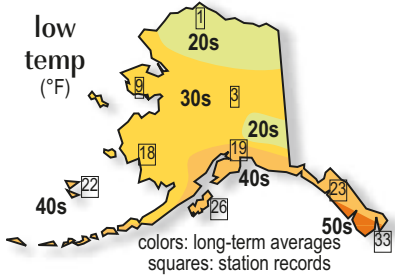
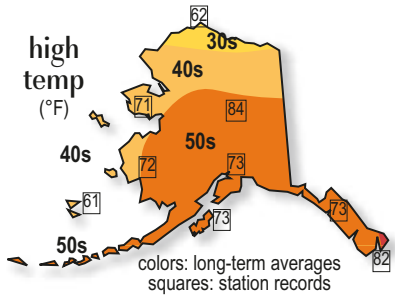
## ↑ Transitions

The moonrise around the corner lights the mountains above Dawes Glacier in Southeast Alaska as the stars come out. September is a month of transition in Alaska. One transition is the return of an appreciable duration of darkness, making the viewing of nighttime phenomena easier. (This transition is well underway in August in the more southerly parts of Alaska such as pictured). Dawes Glacier flows out of the icefields of the Boundary Ranges and transitions back to water in Endicott Arm. It is one of the southernmost of the many tidewater glaciers scattered along Alaska's coast north and west to the Kenai Peninsula. The number of glaciers classified as tidewater has been gradually reduced since around the mid-1700s as some have pulled back from the water's edge.



↓ **Below top:** Sandhill cranes pass by the snowy flanks of Denali on their journey south for the winter. **Below bottom:** Bunchberry, or dwarf dogwood, with leaves turned red and fringed with frost, another signpost of the changing season.

# September climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

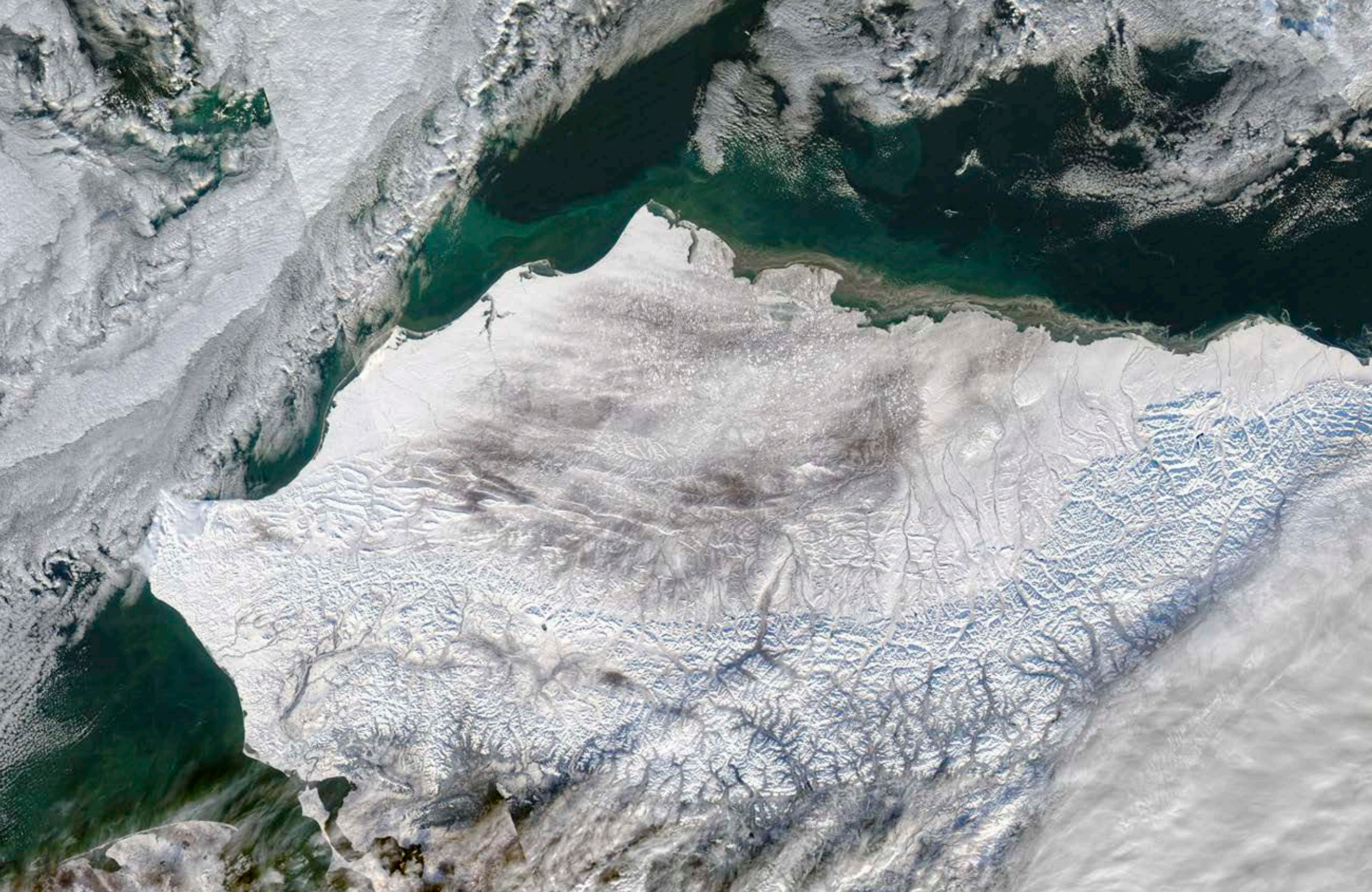
THURSDAY

FRIDAY

SATURDAY

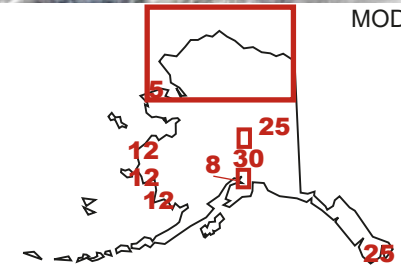
|                         |  |                                      |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
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| <p>© Donna Dewhurst</p> | 244/121<br>tides: 155%<br><b>1</b>   | 245/120<br>tides: 150%<br><b>2</b>   | 246/119<br><b>3</b>  | 247/118<br>tides: 148%<br><b>4</b>  |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         | 2016, 1st-3rd: Warm spell in Southcentral: monthly records fell at many places, e.g. Portage Glacier (69F/21C), Port Alsworth (77F/25C). |                                      |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 248/117<br><b>5</b>     | 249/116<br><b>6</b><br>Labor Day   | 250/115<br>first quarter<br><b>7</b> | 251/114<br>tides: 35%<br><b>8</b>                                  | 252/113<br>tides: 32%<br><b>9</b>   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  | 1994: The remains of tropical storm John brought strong winds and record warmth of 66F (19C) to Dutch Harbor and Cold Bay.  |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 255/110<br><b>12</b>    | 256/109<br><b>13</b>   | 257/108<br><b>14</b>                 | 258/107<br>full moon<br>1504<br><b>15</b>                          | 259/106<br><b>16</b>  |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  | 2009: Strong showers moved through the SE panhandle, delivering up to an inch (25 mm) of rain, along with gusty winds and some lightning.   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 262/103<br><b>19</b>    | 263/102<br><b>20</b>   | 264/101<br><b>21</b>                 | 265/100<br>tides: 44%<br><b>22</b><br>Autumnal Equinox<br>10:02 pm | 266/99<br>tides: 37%<br>last quarter<br><b>23</b>   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  | 267/98<br>tides: 40%<br>Mercury E elongation<br><b>24</b>   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 269/96<br><b>26</b>     | 270/95<br><b>27</b>  | 271/94<br><b>28</b>                  | 272/93<br>new moon<br>1836<br><b>29</b>                            | 273/92<br>tides: 157%<br><b>30</b>  |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  | <p>© Chuck Maas</p>   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  | <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td colspan="7">August</td> </tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td colspan="4"></td></tr> <tr> <td colspan="7">October</td> </tr> <tr><td colspan="6"></td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td colspan="6"></td></tr> </table> | S  | M  | T | W | T | F | S | August |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  | October |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  |
| S                       | M  | T                                    | W  | T   | F  | S  |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| August                  |  |                                      |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 1                       | 2  | 3                                    | 4  | 5   | 6  | 7  |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 8                       | 9  | 10                                   | 11   | 12  | 13 | 14 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 15                      | 16   | 17                                   | 18   | 19  | 20 | 21 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 22                      | 23   | 24                                   | 25   | 26  | 27 | 28 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 29                      | 30   | 31                                   |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| October                 |  |                                      |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
|                         |  |                                      |  |   |    | 1  | 2 |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 3                       | 4  | 5                                    | 6  | 7   | 8  | 9  |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 10                      | 11   | 12                                   | 13   | 14  | 15 | 16 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 17                      | 18   | 19                                   | 20   | 21  | 22 | 23 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 24                      | 25   | 26                                   | 27   | 28  | 29 | 30 |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |
| 31                      |  |                                      |  |   |    |    |   |   |   |   |   |        |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |

# September 2027



## ↑ Snow Time

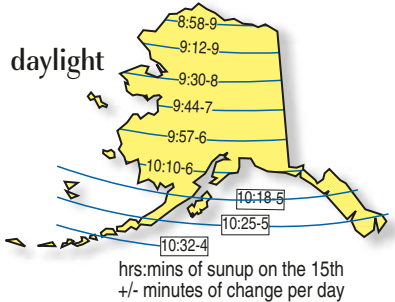
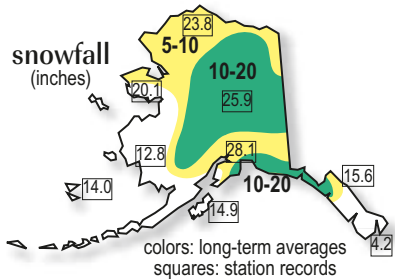
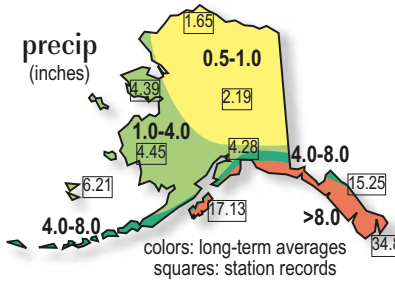
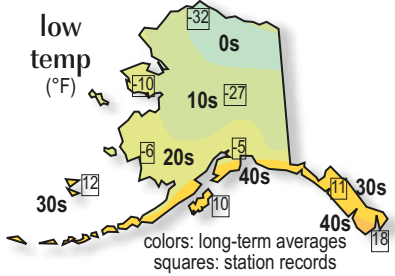
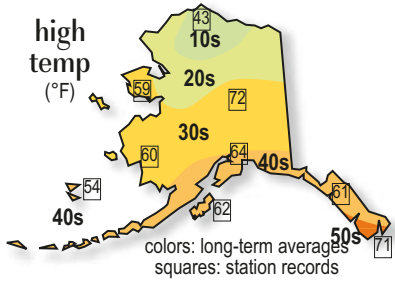
Clear skies across northern Alaska reveal the Brooks Range and the North Slope under early layers of snow. The snow, and the low sun angle, bring out detail in a variety of landforms. In the center of the coastal plain the brown of dormant vegetation shows through the thinner snow, bringing out the white of frozen rivers, the seemingly innumerable lakes, and more subtly, bands of snow where it fell unevenly. Conversely, unfrozen Feniak Lake stands out against the white mountains in the western Brooks Range, as do the Neruokpuk Lakes in the northeast. One thing hard to spot: sea ice. While it's not out of normalcy to have a lack of sea ice near Alaska on this date, that it now happens about five times more often than 40 years ago is a major change, with large weather impacts.



MODIS image from 15 October 2022 courtesy NASA

↓ Two ridges at different stages of fall. **Below left:** Eagle River Valley near Anchorage, no ice or low elevation snow. **Below right:** Nenana River near Denali National Park, freezeup in progress, some snow on hillside.

October climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

| week 40  | week 41  | week 42   | week 43   | week 44   | week 45   |   |
|--|--|---|---|---|---|---|
| <p>© Donna Dewhurst</p>  | <p>© Tom Walker</p>  | <p>S M T W T F S</p> <p>September</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30</p> <p>November</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30</p> |   | <p>274/91</p> <p>tides: 164%</p> <p><b>1</b></p>                      | <p>275/90</p> <p>tides: 162%</p> <p><b>2</b></p> <p>Rosh Hashana</p>    |   |
| <p>276/89</p> <p><b>3</b></p>  | <p>277/88</p> <p><b>4</b></p>  | <p>278/87</p> <p><b>5</b></p>   | <p>279/86</p> <p>tides: 42%</p> <p><b>6</b></p> | <p>280/85</p> <p>tides: 34%</p> <p>first quarter</p> <p><b>7</b> </p> | <p>281/84</p> <p>tides: 34%</p> <p><b>8</b></p>                         | <p>282/83</p> <p>tides: 43%</p> <p><b>9</b></p>                         |
| <p>283/82</p> <p><b>10</b></p>   | <p>284/81</p> <p><b>11</b></p> <p>Indigenous People's Day<sup>1</sup></p> <p>Columbus Day<sup>1</sup></p> <p>Yom Kippur</p>                  | <p>285/80</p> <p><b>12</b></p>  | <p>286/79</p> <p><b>13</b></p>                  | <p>287/78</p> <p><b>14</b></p>  | <p>288/77</p> <p>full moon 0547</p> <p><b>15</b> </p>                   | <p>289/76</p> <p>Orionid meteor shower<sup>2</sup></p> <p><b>16</b></p> |
| <p>290/75</p> <p>Saturn at opposition</p> <p><b>17</b></p>   | <p>291/74</p> <p><b>18</b></p> <p>Alaska Day</p>   | <p>292/73</p> <p><b>19</b></p>  | <p>293/72</p> <p><b>20</b></p>                  | <p>294/71</p> <p><b>21</b></p>  | <p>295/70</p> <p>last quarter</p> <p><b>22</b> </p>                     | <p>296/69</p> <p><b>23</b></p>  |
| <p>297/68</p> <p><b>24</b></p>   | <p>298/67</p> <p><b>25</b></p>   | <p>299/66</p> <p><b>26</b></p>  | <p>300/65</p> <p><b>27</b></p>                  | <p>301/64</p> <p>tides: 158%</p> <p><b>28</b></p>                     | <p>302/63</p> <p>tides: 167%</p> <p>new moon 0536</p> <p><b>29</b> </p> | <p>303/62</p> <p>tides: 168%</p> <p><b>30</b></p>                       |
| <p>304/61</p> <p>tides: 163%</p> <p>Mars, Venus, moon close</p> <p><b>31</b></p>   | <p>2012: From 29F (-2C) at Ketchikan to -23 (-31C) at Tok, Virtually all of Alaska was below freezing; many monthly cold records broken.</p> |   |   |   |   |   |
| <p>1997: Shishmaref suffered severe beach erosion when northwest winds drove seas estimated as high as 30 feet (9 m) onshore there.</p>                |  |   |   |   |   |   |
| <p>2025: Ex-typhoon Halong hit the SW coast with high winds and storm surge flooding. At least one person died and ~1,600 were displaced.</p>          |  |   |   |   |   |   |
| <p>1980: Rain changed to snow in Anchorage and by the 10th reached a depth of 8 inches (20 cm). That was the deepest it got all winter.</p>            |  |   |   |   |   |   |
| <p>Marine Weather: as a rule of thumb, ocean waves can build to a height in feet equal to half the wind speed in knots, given a long enough fetch.</p> |  |   |   |   |   |   |
| <p>1996: An arctic front hit Southcentral with as much as 28 inches (70 cm) of snow, freezing rain, and rain.</p>                                      |  |   |   |   |   |   |

Notes: 1. 12th: Alaska, some other states, and many local governments recognize Indigenous People's Day. Columbus Day remains a federal holiday.  
3. 19th: The Orionid meteor shower is active the latter half of October with a broad peak around the 21st or 22nd.

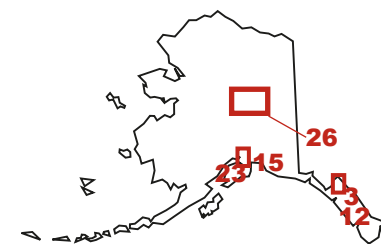
# October 2027



© Patrick J. Endres

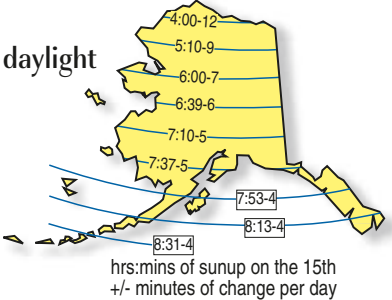
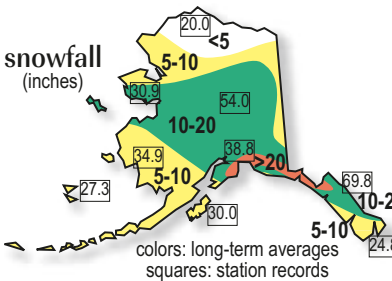
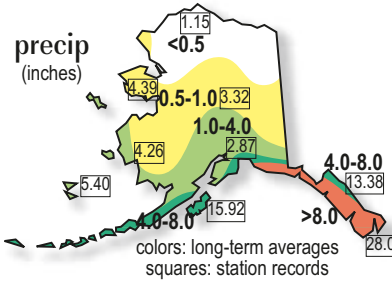
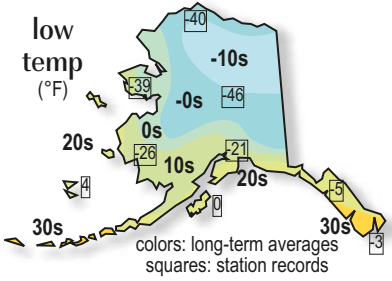
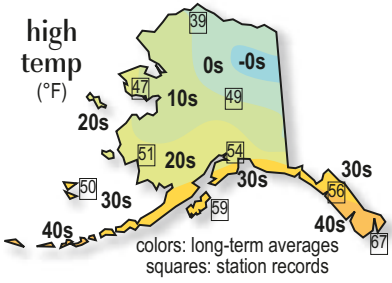
## ↑ Polar Perks








The late morning sunrise liberally colors frosty birch and aspen trees in Fairbanks under a sky with plenty of blue with only patchy, thin clouds. Mitigating factors to the short days/low sun in the interior include that lack of heavy or frequent cloud cover, the long twilight (discussed on the May page) and, in the case of Fairbanks, a low profile horizon to the south to not block the sun too much. In addition, during the coldest weather, with its strong inversion, the especially rapid decrease in density with height magnifies the atmospheric refraction that makes the sun appear higher in the sky than it otherwise would. The effect is not huge, but every little bit helps, right? And the same physics can lead to interesting mirages such as *fata morgana*. Add to that the aurora borealis.



↓ **Below top:** Drift patterns in the snow, Haines. **Below bottom left:** Yet more frost flowers, Knik area. **Below bottom right:** Natural bubble ice art, Wasilla area.

November climate



| SUNDAY   | MONDAY   | TUESDAY   | WEDNESDAY   | THURSDAY   | FRIDAY   | SATURDAY  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
|--|--|---|---|--|--|---|---|---|---|---|---|---|---------|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|---|---|---|---|--|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---|
| week 45<br><br>© Jim Green | 305/60<br>tides: 153%<br><b>1</b>  | 306/59<br><b>2</b><br>General Election  | 307/58<br><b>3</b><br>2001: 60-mph (97-km/hr) gusts raked downtown Juneau thanks to a rapidly deepening "bomb" low. Other panhandle towns had lesser gusts. | 308/57<br>tides: 41%<br>Mercury W elongation<br><b>4</b> | 309/56<br>tides: 38%<br>first quarter<br><b>5</b>    | 310/55<br>tides: 40%<br><b>6</b>  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| week 46<br><b>7</b><br>Daylight Saving Time ends <sup>1</sup>  | 312/53<br><b>8</b>   | 313/52<br><b>9</b>  | 314/51<br><b>10</b>   | 315/50<br><b>11</b><br>Veterans' Day                     | 316/49<br><b>12</b>  | 317/48<br><b>13</b> <br>full moon 1826<br>1974: No rain today at Little Port Walter. Yes, on the previous 47 days, a total of 99.83 inches (2,540 mm). |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| week 47<br><b>14</b><br>tides: 159%<br>Leonid meteor shower <sup>2</sup>                                   | 319/46<br>tides: 165%<br><b>15</b><br>2012: A roof avalanche off a house in Valdez blew in the front door and garage door of an adjacent house, flooding into rooms and halls. | 320/45<br>tides: 165%<br><b>16</b>  | 321/44<br>tides: 159%<br><b>17</b>  | 322/43<br>tides: 149%<br><b>18</b>                       | 323/42<br><b>19</b>  | 324/41<br>last quarter<br><b>20</b>    |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| week 48<br><b>21</b>   | 326/39<br><b>22</b>  | 327/38<br><b>23</b><br>2002: 2-day rainfall totals of 3-11 inches (75-280 mm) surged many Kenai Peninsula rivers to their 2nd "100 year" flood in two months. | 328/37<br>Venus very near Mars<br><b>24</b>   | 329/36<br><b>25</b><br>Thanksgiving                      | 330/35<br>tides: 160%<br><b>26</b>   | 331/34<br>tides: 164%<br>new moon 1824<br><b>27</b>    |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| week 49<br><b>28</b><br>tides: 163%  | 333/32<br>tides: 157%<br>Mars near moon<br><b>29</b>   | 334/31<br>Uranus at opposition <sup>3</sup><br>Venus very near moon <sup>4</sup><br><b>30</b>   | <br>© Bruce M. Herman  |  | <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td colspan="7">October</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td> </tr> <tr> <td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> <tr> <td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> <tr> <td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td> </tr> <tr> <td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td> </tr> <tr> <td>31</td><td colspan="6"></td> </tr> <tr> <td colspan="7">December</td> </tr> <tr> <td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td></td> </tr> <tr> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td> </tr> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> </tr> <tr> <td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td> </tr> </table> | S   | M | T | W | T | F | S | October |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  | December |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 |  | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  | <br>© Calvin W. Hall |
| S  | M  | T   | W   | T  | F  | S   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| October  |  |   |   |  |  |   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
|  |  |   |   |  | 1  | 2   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 3  | 4  | 5   | 6   | 7  | 8  | 9   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 10   | 11   | 12  | 13  | 14   | 15   | 16  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 17   | 18   | 19  | 20  | 21   | 22   | 23  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 24   | 25   | 26  | 27  | 28   | 29   | 30  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 31   |  |   |   |  |  |   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| December   |  |   |   |  |  |   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
|  |  | 1   | 2   | 3  | 4  |   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 5  | 6  | 7   | 8   | 9  | 10   | 11  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 12   | 13   | 14  | 15  | 16   | 17   | 18  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 19   | 20   | 21  | 22  | 23   | 24   | 25  |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |
| 26   | 27   | 28  | 29  | 30   | 31   |   |   |   |   |   |   |   |         |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |

# November 2027

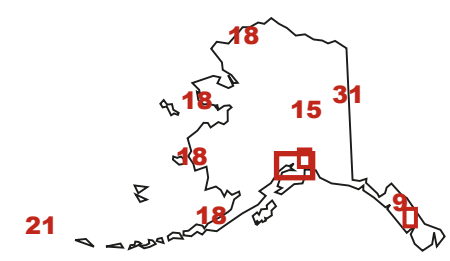
- Notes:
1. 7th: As of press time. Changes possible.
  2. 14th: visible ~14th-20th with a peak ~16th-17th.
  3. 30th: Uranus at the closest approach to Earth, offering the best viewing opportunity, though without a telescope it will appear only as a modest star.
  4. 30th: Occultation of Venus by the moon viewable from far southern latitudes.



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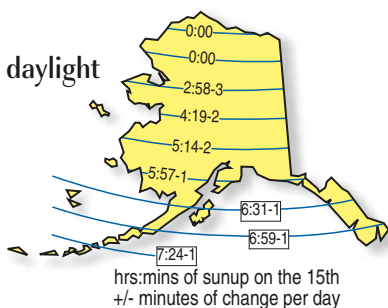
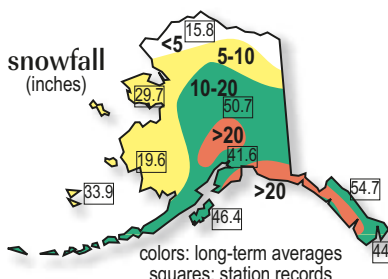
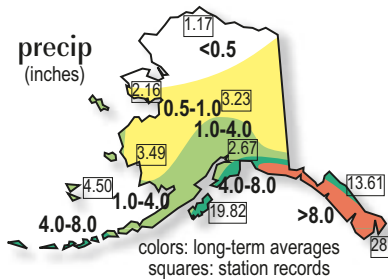
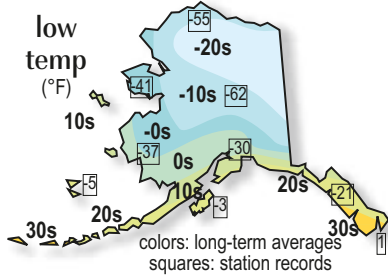
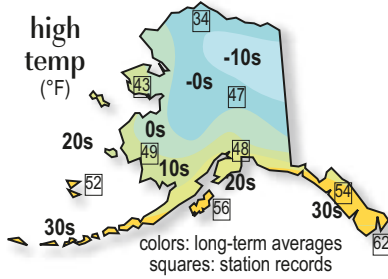
↑ **Last Light**

A Nordic skater skates off into the sunset on Rabbit Slough in the Palmer Hay Flats State Game Refuge. In the distance, the western end of the Chugach Mountains, including Pioneer Peak and Twin Peaks, is thinly veiled by fog, which commonly comes off open water on Cook Inlet and its northern extension, Knik Arm. The skating venue looks good, and well used. Favorable weather to boost skating prospects is, of course, plenty of cold weather, but little or no snow to cover the ice, and it looks like that's what it's been. The seemingly ubiquitous hoarfrost covers all the vegetation, evidence not only of cold, but also that the fog has visited this area too. The liquid water in fog is usually what grows the hoarfrost crystals the fastest.



↓ **Below top:** An unusually bright, wintry day in Petersburg, looking across the foggy Wrangell Narrows to Petersburg Mountain, on Kupreanof Island. **Below bottom:** Aurora borealis over Glacier View, in the Matanuska Valley.

December climate



SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

| week 49  | week 50   | week 51  | week 52  | week 53  |
|--|---|--|--|--|
| <br>© Cindi Lagoudakis<br>S M T W T F S<br>November<br>1 2 3 4 5 6<br>7 8 9 10 11 12 13<br>14 15 16 17 18 19 20<br>21 22 23 24 25 26 27<br>28 29 30<br>January 2028<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 29<br>30 31 | 335/30<br><b>1</b>  | 336/29<br><b>2</b>                             | 337/28<br><b>3</b>                                     | 338/27<br><b>4</b>   |
| 339/26<br>first quarter<br><b>5</b>   | 340/25<br>tides: 42%<br>Geminid meteor shower <sup>1</sup><br><b>6</b>  | 341/24<br>tides: 44%<br><b>7</b>               | 342/23<br><b>8</b>                                     | 343/22<br><b>9</b>   |
| 346/19<br>tides: 158%<br><b>12</b>   | 347/18<br>tides: 169%<br>full moon 0709<br><b>13</b>  | 348/17<br>tides: 175%<br><b>14</b>             | 349/16<br>tides: 176%<br><b>15</b>                     | 350/15<br>tides: 169%<br><b>16</b>   |
| 353/12<br><b>19</b>  | 354/11<br>last quarter<br><b>20</b>                 | 355/10<br>Winter Solstice 5:43 pm<br><b>21</b> | 356/9<br><b>22</b>                                     | 357/8<br><b>23</b>   |
| 360/5<br>tides: 153%<br><b>26</b>  | 361/4<br>tides: 152%<br>new moon 1112<br><b>27</b>  | 362/3<br>tides: 149%<br><b>28</b>              | 363/2<br>Mars very near moon <sup>2</sup><br><b>29</b> | 364/1<br>Venus near moon<br><b>30</b>  |
|  |   |  |  | 365/0<br><b>31</b>   |
|  |   |  |  | <br>© Fred Hirschmann |

Due to tech advances, solar panels can work in Alaska. Due to low sun angles, putting them on a south wall instead of the roof can make sense.

1962: 20" (51 cm) of new snow yesterday in Juneau jacked the city's snow depth from 1" on the 1st to 36" (92 cm). Rain followed.

2025: The first of 31 days this winter in Fairbanks to hit <=-40F/C, the most days since 1971 and double the number of most years in between.

1998: 20-40 mph (30-60 km/hr) winds raked the west coast, thanks to the large gradient between a 1072 mb high in the YT, and a Bering Sea low.

1959: The 139-mph (224-km/hr) gust at Shemya is especially incredible considering it was not accelerated by terrain as are many extreme winds.

1980: Last day of the year, last day constantly below zero F (-18C) since the last day of November in Eagle and Yukon neighbor Dawson.

Notes: 1. 6th: The Geminid meteor shower is visible around the 6th-17th with a peak on the night of the 13th.  
 2. 29th: Occultation of Mars by the crescent moon may be visible in some areas.

# December 2027

