



The Narrows, North end - midstream, 2019

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2019

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

January						February						March					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	02:42	06:00	-1.3E	01:42	03:54	-1.2E	04:42	08:06	-2.0E	03:36	06:30	-1.4E	03:18	06:54	-1.8E	03:06	05:36
Tu	08:00	10:18	2.3F	06:48	09:48	2.1F	10:00	11:54	1.5F	09:18	11:18	1.2F	08:54	11:06	1.2F	09:06	11:00
	13:48	17:48	-3.5E	12:36	16:36	-3.2E	14:54	18:48	-3.2E	14:00	18:06	-3.6E	13:48	17:18	-2.7E	13:48	17:36
	21:00	23:30	2.8F	20:18	22:42	2.9F	22:00			21:30			20:48	23:30	2.6F	21:12	23:42
2	03:54	07:18	-1.5E	02:54	05:06	-1.1E	05:24	00:30	3.1F	04:30	00:00	3.9F	04:12	07:42	-2.1E	04:06	07:24
W	09:12	11:18	2.1F	08:24	10:42	2.0F	10:48	08:48	-2.2E	10:12	07:42	-1.9E	09:48	11:54	1.5F	10:06	12:06
	14:24	18:30	-3.6E	13:24	17:30	-3.5E	15:42	12:42	1.7F	15:06	12:18	2.4F	14:42	18:24	-2.8E	15:00	18:48
	21:42			21:06	23:36	3.5F	22:42	19:30	-3.3E	22:24	19:06	-4.0E	21:36			22:12	
3	04:54	00:12	3.1F	03:54	06:30	-1.3E	06:06	01:06	3.2F	05:18	00:48	4.2F	04:48	00:12	2.7F	04:54	00:36
Th	10:12	08:18	-1.8E	09:36	11:42	2.1F	11:30	09:24	-2.3E	11:06	08:36	-2.4E	10:30	08:24	-2.3E	10:54	08:24
	15:06	12:06	1.9F	14:12	18:30	-3.7E	16:30	13:24	1.9F	16:06	13:06	2.8F	15:36	12:30	1.8F	16:06	13:00
	22:24	19:12	-3.6E	21:54	18:30	-4.0E	23:24	20:12	-3.4E	23:12	20:06	-4.2E	22:18	19:12	-3.0E	23:00	19:48
4	05:42	00:48	3.4F	04:54	00:24	4.0F	06:36	01:42	3.4F	06:00	01:36	4.5F	05:24	00:42	2.9F	05:36	01:24
F	11:06	09:06	-2.0E	10:30	07:54	-1.7E	12:06	09:54	-2.3E	11:48	09:12	-2.8E	11:06	08:54	-2.4E	11:42	09:06
	15:48	19:48	-3.6E	15:06	19:24	-4.0E	17:12	14:00	2.1F	17:06	14:00	3.1F	16:18	13:06	2.2F	17:06	13:54
	23:00			22:42				20:48	-3.5E		20:54	-4.3E	23:00	19:48	-3.2E	23:48	20:48
5	06:24	01:24	3.6F	05:48	01:12	4.4F	07:06	02:18	3.5F	06:42	02:24	4.6F	05:54	01:18	3.1F	06:18	02:12
Sa	11:48	09:48	-2.1E	11:24	08:48	-2.1E	12:42	10:18	-2.3E	12:36	09:54	-3.3E	11:42	09:24	-2.5E	12:30	09:48
	16:30	13:36	1.8F	16:00	13:24	2.5F	17:54	14:42	2.2F	18:06	14:48	3.3F	17:00	13:42	2.4F	18:06	14:42
	23:42	20:24	-3.6E	23:30	20:18	-4.3E		21:24	-3.6E		21:42	-4.2E	23:36	20:24	-3.3E		21:36
6	07:00	02:00	3.7F	06:36	02:00	4.6F	07:30	03:00	3.5F	07:18	03:12	4.6F	06:18	01:54	3.3F	06:54	03:00
Su	12:30	10:18	-2.1E	12:12	09:36	-2.4E	13:24	10:30	-2.4E	13:30	10:30	-3.6E	12:18	09:42	-2.7E	13:18	10:24
●	17:12	14:18	1.8F	17:00	14:12	2.7F	18:30	15:24	2.3F	19:00	15:36	3.3F	17:42	14:18	2.6F	19:06	15:30
		21:06	-3.6E		21:12	-4.5E		21:54	-3.5E		22:24	-3.9E		21:00	-3.3E		22:24
7	00:18	02:42	3.7F	00:18	02:48	4.7F	01:06	03:36	3.6F	01:24	04:00	4.4F	00:06	02:30	3.5F	01:18	03:42
M	07:36	10:42	-2.1E	07:18	10:18	-2.8E	07:54	10:54	-2.6E	07:54	11:12	-3.8E	06:42	09:54	-2.9E	07:30	11:00
	13:12	15:00	1.9F	13:00	15:06	2.9F	14:00	16:06	2.4F	14:18	16:30	3.2F	12:54	15:00	2.8F	14:00	16:18
	17:54	21:42	-3.6E	18:00	22:00	-4.5E	19:06	22:30	-3.3E	20:00	23:12	-3.3E	18:18	21:36	-3.2E	20:00	23:12
8	00:54	03:24	3.7F	01:06	03:36	4.7F	01:30	04:18	3.6F	02:12	04:42	4.0F	00:36	03:06	3.6F	02:06	04:30
Tu	08:06	11:00	-2.1E	08:00	11:00	-3.0E	08:18	11:24	-2.8E	08:36	11:54	-3.8E	07:06	10:18	-3.1E	08:06	11:36
	13:54	15:48	1.9F	13:48	15:54	2.9F	14:42	16:48	2.3F	15:12	17:18	3.0F	13:30	15:36	2.8F	14:48	17:06
	18:36	22:18	-3.5E	19:00	22:42	-4.2E	19:42	23:06	-3.0E	21:00	23:54	-2.6E	18:54	22:06	-3.0E	20:54	23:54
9	01:30	04:06	3.6F	01:48	04:24	4.5F	02:00	04:54	3.5F	03:00	05:30	3.4F	01:00	03:42	3.5F	02:48	05:18
W	08:36	11:24	-2.1E	08:42	11:42	-3.2E	08:42	12:00	-2.9E	09:12	12:36	-3.6E	07:24	10:54	-3.3E	08:42	12:18
	14:30	16:30	1.9F	14:42	16:48	2.8F	15:24	17:30	2.3F	16:00	18:12	2.8F	14:00	16:18	2.9F	15:30	17:54
	19:18	23:00	-3.3E	20:00	23:30	-3.7E	20:24	23:48	-2.6E	22:12			19:30	22:42	-2.7E	21:54	
10	02:00	04:48	3.5F	02:36	05:12	4.2F	02:30	05:36	3.3F	03:54	00:48	-1.9E	01:30	05:24	3.3F	03:42	00:36
Th	09:06	11:54	-2.2E	09:18	12:30	-3.3E	09:06	12:42	-2.9E	09:54	06:24	2.7F	08:42	12:24	-3.3E	09:18	06:06
	15:18	17:18	1.8F	15:42	17:42	2.6F	16:06	18:18	2.3F	17:00	13:24	-3.3E	15:36	18:00	3.0F	16:18	12:54
	20:00	23:36	-3.0E	21:06			21:18			23:30	19:12	2.5F	21:18			23:00	18:42
11	02:36	05:30	3.4F	03:24	00:18	-3.0E	03:06	00:30	-2.1E	05:06	01:48	-1.3E	03:06	00:24	-2.4E	04:42	01:30
F	09:36	12:36	-2.4E	10:00	06:00	3.7F	09:30	06:24	2.9F	10:42	07:18	1.9F	09:00	06:06	3.0F	10:00	06:54
	16:06	18:06	1.7F	16:42	13:18	-3.3E	16:54	13:24	2.9E	17:54	14:12	-3.0E	16:18	13:00	-3.2E	17:12	13:42
	20:48			22:24	18:42	2.3F	22:24	19:12	2.3F		20:12	2.4F	22:06	18:48	3.0F		19:30
12	03:06	00:18	-2.6E	04:12	06:54	-2.2E	03:48	01:24	-1.7E	06:30	04:30	-1.1E	03:42	01:06	-2.0E	06:00	02:36
Sa	10:12	06:12	3.2F	10:48	06:54	3.2F	10:00	07:12	2.4F	11:42	08:24	1.4F	09:24	06:54	2.5F	10:54	07:54
	17:00	19:00	-2.5E	17:42	14:12	-3.3E	17:48	14:12	-3.0E	18:54	15:12	-2.8E	17:00	13:48	-3.1E	18:06	14:30
	21:48		1.7F	23:42	19:42	2.2F	23:54	20:12	2.4F		21:12	2.3F	23:12	19:42	3.0F		20:30
13	03:42	01:06	-2.2E	05:18	02:12	-1.5E	04:48	02:18	-1.3E	02:12	05:54	-1.4E	04:36	02:00	-1.6E	01:24	05:18
Su	10:42	07:00	3.0F	11:30	07:48	2.6F	10:48	08:12	1.9F	07:48	09:42	1.1F	10:06	07:42	2.0F	07:24	09:00
	17:54	19:54	-2.7E	18:42	15:06	-3.2E	18:42	15:06	-3.0E	12:48	16:12	-2.6E	17:54	14:36	-3.0E	12:06	15:30
	23:00		1.7F		20:48	2.2F		21:06	2.7F	19:54	22:30	2.4F		20:36	3.0F	19:06	21:30
14	04:24	01:54	-1.7E	01:12	03:42	-1.1E	01:18	03:30	-1.1E	05:06	01:48	-1.3E	00:30	03:06	-1.3E	02:36	06:30
M	11:18	07:54	2.6F	06:36	08:48	2.0F	06:36	09:18	1.7F	10:42	07:18	1.9F	06:00	08:48	1.6F	08:36	10:18
●	18:48	14:54	-2.8E	12:24	16:00	-3.2E	11:42	16:00	-3.1E	17:54	14:12	-3.0E	11:00	15:30	-2.9E	13:24	16:30
		20:48	2.0F	19:36	22:00	2.4F	19:42	22:06	3.1F		20:12		18:54	21:36	3.0F	20:12	22:36
15	00:24	02:48	-1.4E	02:36	06:12	-1.2E	02:30	04:48	-1.1E	03:54	00:48	-1.9E	01:54	04:12	-1.2E	03:36	07:24
Tu	05:18	08:48	2.3F	07:54	09:54	1.6F	08:12	10:18	1.7F	07:48	09:54	1.4F	07:48	09:54	1.4F	09:30	12:00
	11:54	15:48	-3.0E	13:12	17:00	-3.1E	12:54	17:00	-3.3E	12:18	16:36	-3.0E	12:18	16:36	-3.0E	14:30	17:36
	19:36	21:48	2.4F	20:30	23:06	2.6F	20:36	23:06	3.5F	20:06	22:36	3.1F	20:06	22:36	3.1F	21:12	23:48
31	03:48	07:12	-1.6E	03:48	07:12	-1.6E	03:48	07:12	-1.6E	03:48	07:12	-1.6E	03:48	07:12	-1.6E	03:48	07:12
Th	09:06	11:00	1.5F	09:06	11:00	1.5F	09:06	11:00	1.5F	09:06	11:00	1.5F	09:06	11:00	1.5F	09:06	11:00
	21:12	23:54	2.9F	21:12	23:54	2.9F	21:12	23:54	2.9F	21:12	23:54	2.9F	21:12	23:54	2.9F	21:12	23:54

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:26:49 UTC 2019

Page 2 of 5

The Narrows, North end - midstream, 2019

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

April								May								June							
Slack		Maximum		Slack		Maximum		Slack		Maximum		Slack		Maximum		Slack		Maximum					
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots				
1 M	05:00	08:48	2.5F	16 Tu	04:12	07:54	3.5F	1 W	04:30	08:24	2.6F	16 Th	04:12	08:06	3.4F	1 Sa	04:18	08:24	2.6F	16 Su	04:48	08:54	2.4F
	11:00	13:18	2.0F		10:36	12:48	2.8F		11:06	13:18	2.5F		11:06	13:18	3.3F		11:42	14:00	3.5F		12:06	14:30	3.9F
	16:18	19:36	2.7E		16:06	19:30	3.1E		16:48	19:36	2.2E		17:18	20:24	2.3E		18:12	20:48	1.7E		18:12	20:48	2.3E
	22:48				22:36				22:48				23:06				23:42				23:42		
2 Tu	05:30	09:18	2.7F	17 W	04:54	08:36	3.8F	2 Th	04:54	08:42	2.8F	17 F	04:48	08:48	3.4F	2 Su	04:48	09:00	2.5F	17 Mo	00:42	02:36	2.2F
	11:36	13:48	2.4F		11:24	13:36	3.3F		11:42	13:54	2.9E		11:48	14:06	3.7F		12:18	14:36	4.0F		12:42	15:06	4.0F
	17:06	20:18	2.8E		17:12	20:30	3.1E		17:36	20:24	2.2E		18:18	21:24	2.3E		19:00	21:42	1.9E		20:00	23:12	2.2E
	23:30				23:24				23:24				23:54										
3 W	06:00	09:36	3.0F	18 Th	05:30	09:18	3.9F	3 F	05:24	09:06	2.9F	18 Sa	05:24	09:24	3.2F	3 Mo	00:30	02:42	2.4F	18 Tu	01:30	03:18	2.0F
	12:12	14:18	2.7F		12:12	14:24	3.7F		12:18	14:30	3.2F		12:30	14:48	4.0F		12:48	15:18	4.3F		13:24	15:48	4.0F
	17:48	20:54	2.8E		18:06	21:24	3.0E		18:18	21:06	2.2E		19:12	22:18	2.3E		19:42	22:30	2.1E		20:42	23:48	2.1E
4 Th	00:00	02:24	3.2F	19 Fo	00:12	02:30	3.9F	4 Sa	00:06	02:24	3.0F	19 Su	00:48	02:54	2.9F	4 Tu	01:18	03:24	2.3F	19 W	02:18	04:06	1.9F
	06:24	09:54	3.1E		06:06	09:54	4.2E		05:42	09:36	3.7E		06:00	10:00	4.2E		05:48	10:24	4.0E		06:54	10:48	3.7E
	12:48	14:54	2.9F		12:54	15:06	3.9F		12:48	15:06	3.6F		13:06	15:30	4.1F		13:30	16:06	4.5F		14:00	16:30	3.9F
	18:30	21:36	2.8E		19:06	22:12	2.9E		19:06	21:54	2.2E		20:00	23:06	2.1E		20:30	23:18	2.2E		21:18		
5 F	00:36	03:00	3.3F	20 Sa	01:00	03:18	3.6F	5 Su	00:48	03:06	2.9F	20 M	01:36	03:36	2.5F	5 W	02:06	04:12	2.2F	20 Th	00:18	00:18	2.1E
	06:48	10:18	3.4E		06:42	10:30	4.3E		06:06	10:12	3.8E		06:36	10:36	4.0E		06:30	11:06	4.0E		03:06	04:54	1.7F
	13:24	15:30	3.2F		13:36	15:54	4.0F		13:18	15:48	3.9F		13:48	16:12	4.1F		14:12	16:48	4.6F		07:36	11:30	3.5E
	19:12	22:12	2.7E		20:00	23:00	2.6E		19:48	22:36	2.2E		20:48	23:48	2.1E		21:18				14:42	17:12	3.7F
6 Sa	01:06	03:36	3.3F	21 Su	01:48	04:00	3.2F	6 M	01:30	03:48	2.7F	21 Tu	02:30	04:24	2.1F	6 Th	03:00	05:06	2.1F	21 F	03:48	05:42	2.0E
	07:06	10:48	3.5E		07:18	11:06	4.2E		06:24	10:48	3.8E		07:12	11:12	3.8E		03:00	05:06	2.1F		05:42	05:42	1.7F
	13:54	16:12	3.4F		14:18	16:36	4.0F		13:54	16:24	4.2F		14:24	16:54	4.0F		07:24	11:48	4.0E		08:24	12:06	3.3E
	19:48	22:48	2.6E		20:54	23:42	2.4E		20:36	23:18	2.2E		21:36				14:54	17:42	4.4F		15:18	18:00	3.5F
7 Su	01:42	04:12	3.1F	22 M	02:36	04:48	2.7F	7 Tu	02:12	04:30	2.4F	22 W	03:24	00:24	2.0E	7 F	03:54	00:48	2.2E	22 Sa	04:42	06:30	1.9E
	07:24	11:18	3.6E		07:54	11:42	3.9E		06:54	11:24	3.8E		07:12	05:12	1.7F		03:54	05:54	2.0F		06:30	06:30	1.6F
	14:24	16:54	3.6F		14:54	17:24	3.9F		14:30	17:12	4.2F		07:54	11:48	3.5E		08:18	12:42	3.7E		09:18	12:48	3.0E
	20:30	23:30	2.4E		21:48				21:18				22:24	15:06	17:42		3.7F	15:48	18:30		4.2F	16:00	18:42
8 M	02:18	04:54	2.9F	23 Tu	03:36	00:30	2.0E	8 W	03:00	00:06	2.1E	23 Th	04:18	01:06	1.8E	8 Sa	04:54	01:42	2.2E	23 Su	05:30	02:00	1.9E
	07:42	11:54	3.6E		08:30	05:36	2.1F		07:30	05:18	2.1F		08:42	06:06	1.4F		04:54	06:54	1.9F		07:24	07:24	1.5F
	15:00	17:36	3.7F		15:36	12:18	3.5E		15:12	12:06	3.7E		15:48	12:30	3.2E		09:24	13:30	3.4E		10:12	13:36	2.6E
	21:18				22:42	18:12	3.6F		22:12	18:00	4.2F		23:06	18:30	3.4F		16:42	19:24	3.9F		16:12	19:30	2.9F
9 Tu	02:54	00:12	2.2E	24 W	04:36	01:18	1.7E	9 Th	04:00	00:54	2.0E	24 F	05:18	01:54	1.6E	9 Su	06:00	02:42	2.3E	24 M	06:30	02:42	2.1E
	08:06	05:42	2.5F		09:12	06:30	1.6F		08:18	06:12	1.9F		09:42	07:00	1.2F		06:00	07:54	1.8F		08:18	08:18	1.4F
	15:36	12:30	3.5E		16:24	13:00	3.1E		16:00	12:54	3.5E		16:36	13:18	2.8E		10:48	14:30	3.0E		11:18	14:24	2.2E
	22:06	18:24	3.7F		23:42	19:00	3.2F		23:06	18:48	3.9F			19:18	3.0F		17:36	20:18	3.5F		17:18	20:18	2.7F
10 W	03:48	06:30	2.0F	25 Th	05:48	02:18	1.4E	10 F	05:06	01:48	1.8E	25 Sa	00:00	02:48	1.6E	10 Mo	00:36	03:42	2.5E	25 Tu	00:30	03:36	2.3E
	08:42	13:18	3.2E		10:12	07:30	1.1F		09:18	07:06	1.6F		06:18	08:00	1.1F		07:06	09:00	1.9F		07:24	09:18	1.4F
	16:24	19:12	3.6F		17:18	13:54	2.7E		17:00	13:48	3.2E		10:54	14:12	2.5E		12:18	15:30	2.5E		12:36	15:12	1.8E
	23:12					19:48	2.8F			19:48	3.6F		17:30	20:12	2.6F		18:36	21:18	3.3F		18:00	21:12	2.5F
11 Th	04:54	07:24	1.7F	26 Fo	00:42	04:36	1.4E	11 Sa	00:06	02:54	1.8E	26 Su	00:48	03:54	1.6E	11 Tu	01:24	04:48	2.9E	26 W	01:12	04:24	2.6E
	09:30	14:06	3.0F		07:00	08:30	0.9F		06:18	08:12	1.5F		07:18	09:00	1.1F		08:12	10:12	2.0F		08:18	10:12	1.6F
	17:18	20:06	3.4F		11:30	14:48	2.4E		10:36	14:48	3.0E		12:12	15:06	2.2E		13:48	16:30	2.1E		13:48	16:06	1.5E
					18:18	20:48	2.4F		18:00	20:42	3.4F		18:24	21:06	2.4F		19:42	22:18	3.1F		18:54	22:06	2.4F
12 F	00:24	02:54	1.4E	27 Sa	01:42	05:48	1.6E	12 Su	01:12	04:00	1.9E	27 M	01:36	05:00	1.9E	12 W	02:06	05:48	3.3E	27 Th	01:48	05:12	2.8E
	06:18	08:30	1.4F		08:00	09:48	1.0F		07:30	09:18	1.6F		08:18	10:06	1.3F		09:06	11:18	2.4F		09:06	11:12	2.0F
	10:36	15:30	2.9E		12:54	15:48	2.2E		12:18	15:54	2.5E		13:24	16:00	2.0E		15:06	17:42	1.7E		15:00	17:06	1.7E
	18:24	21:06	3.2F		19:24	21:54	2.2F		19:12	21:48	3.2F		19:24	22:00	2.3F		20:48	23:12	2.9F		20:06	23:00	2.2F
13 Sa	01:36	04:06	1.4E	28 Su	02:36	06:42	1.9E	13 M	02:06	05:18	2.3E	28 Tu	02:18	05:54	2.2E	13 Th	02:48	06:42	3.6E	28 F	02:24	06:00	3.1E
	07:42	09:36	1.4F		09:00	11:12	1.2F		08:30	10:30	1.9F		09:06	11:06	1.6F		10:00	12:12	2.8F		09:48	12:00	2.5F
	12:12	16:12	2.9E		14:00	16:48	2.1E		13:48	16:54	2.6E		14:30	16:54	1.8E		16:18	19:24	1.6E		16:00	18:12	1.1E
	19:36	22:12	3.1F		20:30	22:54	2.2F		20:18	22:48	3.2F		20:18	22:54	2.4F		21:48				21:24	23:54	2.2F
14 Su	02:36	05:36	1.7E	29 M	03:18	07:30	2.2E	14 Tu	02:48	06:24	2.8E	29 W	02:54	06:30	2.6E	14 F	03:30	00:06	2.8F	29 Sa	02:54	06:54	3.3E
	08:48	10:42	1.7F		09:42	12:06	1.7F		09:30	11:36	2.4F		09:48	12:00	2.0F		10:42	07:36	3.9E		10:30	12:48	3.1F
	13:48	17:18	2.9E		15:00	17:48	2.1E		15:06	18:06	2.4E		15:30	17:54	1.6E		17:24	13:06	3.3F		17:00	19:24	1.2E
	20:48	23:12	3.3F		21:24	23:48	2.4F		21:18	23:42	3.3F		21:12	23:42	2.5F		22:48	20:48	1.8E		22:30		
15 M	03:30	07:00	2.2E	30 Tu	03:54	08:00	2.5E	15 W	03:30	07:18	3.3E	30 Th	03:24	07:06	3.0E	15 Sa	04:06	01:00	2.6F	30 Su	03:30	00:42	2.1F
	09:48	11:48	2.3F		10:24	12:42	2.1F		10:18	12:30	2.9F		10:30	12:42	2.5F		08:12	21:42	4.0E		07:42	07:42	3.5E
	15:06	18:24	3.0E		15:54	18:42	2.1E		16:12	19:18	2.3E		16:24	18:48	1.6E		11:24	13:48	3.6F		11:06	13:30	3.6F
	21:42				22:06				22:12				22:06				18:24	23:48	2.0E		17:54	20:36	1.5E



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2019

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	h	m	knots		h	m	h	m	knots		h	m	h	m	knots
1 M	04:06	01:30	08:30	02:18	2.2F	16 Th	00:48	02:48	05:36	09:48	2.7F	1 Su	02:00	04:12	02:12	04:24	3.0F
	11:48	14:12	18:48	19:48	4.1F		12:54	15:24	13:18	15:42	4.6F		07:36	11:00	07:48	10:54	2.9E
		21:36	-1.8E		-1.8E		19:54	22:54	20:12	23:24	-2.5E		14:00	16:30	13:48	16:24	3.3F
2 Tu	00:18	02:18	04:48	09:18	2.2F	17 F	01:36	03:42	06:42	10:06	2.5F	2 M	02:48	05:00	02:42	05:00	3.0F
	09:18	12:30	15:00	13:06	4.5F		13:42	16:12	07:18	10:42	3.5E		08:36	11:48	08:30	11:30	2.6E
	19:36	22:24	-2.1E	20:18	23:36		20:30	23:30	13:54	16:18	3.6F		14:48	17:18	14:18	17:06	3.2F
3 W	01:06	03:06	05:36	13:12	2.3F	18 Sa	02:24	04:30	07:36	11:18	2.5F	3 Tu	03:36	05:54	03:18	05:42	3.1F
	13:12	15:42	20:18	14:48	4.6F		14:24	17:00	08:00	11:18	-3.3E		09:36	12:36	09:06	12:06	2.3E
		23:06	-2.3E	20:54	23:54		21:12		14:18	17:00	3.5F		15:36	18:06	14:48	17:48	2.8F
4 Th	01:54	03:54	06:30	13:54	2.4F	19 Su	03:12	05:24	08:30	12:06	-2.9E	4 W	04:30	06:48	03:54	06:24	3.1F
	06:30	10:48	13:54	16:30	-4.3E		08:30	12:06	08:36	11:54	-2.9E		10:42	13:24	09:54	12:48	-2.0E
	21:00	23:54	-2.5E	21:24	16:48		15:06	17:48	14:48	17:36	3.4F		16:30	19:00	15:24	18:30	2.4F
5 F	02:42	04:48	07:24	14:42	2.5F	20 M	04:06	06:18	09:18	15:12	-3.0E	5 Th	05:24	07:42	04:36	07:12	-3.1E
	07:24	11:36	14:42	17:18	-4.2E		06:18	12:54	09:18	12:30	2.5F		12:00	14:30	10:48	13:42	3.0F
	21:48			21:54	4.6F		15:54	18:36	15:12	18:18	-2.5E		17:36	19:54	16:18	19:24	1.9F
6 Sa	03:36	05:42	08:30	15:30	-2.7E	21 Tu	05:06	07:12	08:42	16:42	-3.5E	6 F	06:24	08:42	05:24	08:06	-2.9E
	05:42	12:24	15:30	18:12	2.5F		10:48	13:42	10:06	13:12	-2.1E		13:24	16:12	12:00	14:36	2.9F
	22:30	18:12	22:30	22:18	-3.9E		16:42	19:24	15:42	19:00	2.8F		19:00	21:00	17:30	20:18	1.5F
7 Su	04:36	01:24	09:36	16:18	-2.8E	22 W	06:06	08:12	12:06	17:42	-3.0E	7 Sa	07:24	09:42	06:18	09:06	-2.8E
	06:36	13:12	16:18	19:00	2.4F		08:12	14:42	12:06	14:00	2.4F		14:42	18:24	13:18	15:42	2.4F
	23:12			23:12	-3.4E		17:42	20:18	11:06	19:48	-1.6E		20:24	22:12	19:12	21:24	-1.2E
8 M	05:36	02:18	10:48	17:12	-2.9E	23 Th	07:06	09:12	13:36	19:00	-3.4E	8 Su	08:24	10:54	07:30	10:06	-2.8E
	07:36	14:06	17:12	19:54	2.2F		09:12	15:54	13:36	15:54	2.4F		15:48	19:30	14:30	17:00	3.0F
	23:54			23:54	-2.8E		15:54	21:18	17:24	20:48	-1.3E		21:36	23:42	20:36	22:30	-1.9E
9 Tu	06:42	03:12	12:12	18:06	-3.1E	24 F	08:06	10:18	15:06	20:24	-2.8E	9 M	09:24	12:06	08:36	11:12	-2.8E
	08:36	15:06	12:12	20:48	2.1F		10:18	18:36	15:06	18:36	2.5F		16:42	20:18	15:36	18:30	3.2F
	18:06	20:48		23:54	-2.1E		18:36	22:24	19:00	21:48	-1.1E		22:30		21:36	23:36	-1.6E
10 W	07:42	04:06	13:42	19:12	-3.3E	25 Sa	09:00	11:30	16:18	21:42	-2.9E	10 Tu	10:18	12:54	09:42	12:06	-2.9E
	09:42	16:06	13:42	21:48	2.2F		11:30	19:48	15:00	17:12	2.8F		17:30	21:00	16:24	19:48	3.5F
	19:12	21:48			-1.5E		19:48	23:36	20:48	22:54	-1.0E		23:12		22:30		-2.1E
11 Th	08:42	05:06	15:06	20:30	-3.4E	26 Su	10:42	13:30	17:18	22:42	-3.1E	11 W	11:36	14:06	10:48	13:30	-3.4E
	10:54	17:48	15:06	22:48	2.4F		12:30	20:42	16:06	18:48	3.2F		21:36		20:36		-2.9E
	22:48				-1.2E		20:42		22:00		-1.2E		23:48		23:18		-2.6E
12 F	09:30	06:06	16:24	21:42	-3.5E	27 M	11:30	14:06	18:06	23:30	-3.0E	12 Th	12:36	14:06	11:42	14:48	3.0F
	11:54	19:48	16:24	23:48	2.7F		14:06	21:30	17:00	20:18	-3.3E		18:36	22:12	17:48	21:18	-3.3E
	21:42	23:48			-1.4E		21:30		22:54		-1.7E						
13 Sa	10:18	07:00	17:30	22:48	-3.6E	28 Tu	12:42	15:30	18:42	23:06	-3.7E	13 F	13:24	14:36	12:18	14:36	3.2F
	12:48	20:54	17:30		3.1F		15:30	19:06	17:54	21:06	4.0F		19:00	22:30	18:24	22:00	-2.8E
	22:48				-1.8E		19:06		23:42		-2.2E						
14 Su	11:00	08:48	18:24	23:42	1.9F	29 W	13:42	16:30	18:36	21:48	2.7F	14 Sa	14:12	15:12	13:24	15:18	3.3F
	13:30	21:42	18:24		-3.6E		16:30	20:06	18:36	21:48	4.3F		19:24	22:42	19:00	22:36	-3.0E
	23:42				3.4F		20:06				-2.7E						
15 M	11:42	01:36	14:06	19:06	-3.6E	30 Th	14:24	17:06	16:00	19:48	2.2F	15 Su	15:12	16:18	14:36	16:06	3.4F
	19:06	22:30	14:06	22:30	3.6F		17:06	23:06	16:00	19:48	-3.5E		19:42	23:06	19:36	23:12	-3.2E
					-2.3E		23:06				-2.5E						
16 O	00:00	02:00	12:06	19:12	2.4F	31 W	04:42	08:54	12:06	19:12	-4.1E	16 M	05:42	09:12	05:42	09:12	3.8F
	02:00	08:54	12:06		-4.1E		08:54	14:36	12:06		-4.4F		10:00	13:30	06:42	10:00	-3.6E
					-2.3E		14:36	22:12	19:12		-2.3E		19:00	22:36	19:00	22:36	-4.2E

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:26:49 UTC 2019

Page 4 of 5



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2019

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December							
Slack			Maximum			Slack			Maximum			Slack			Maximum				
	h	m	h	m	knots		h	m	h	m	knots		h	m	h	m	knots		
1	02:24	04:42	4.0F	02:06	04:36	3.6F	1	03:18	00:00	05:48	-3.8E	16	01:48	04:36	4.1F	02:30	05:12	3.6F	
Tu	08:36	11:36	-2.9E	08:24	11:12	-2.3E	F	10:24	13:06	18:06	-1.9E	Sa	08:48	11:30	-2.0E	09:54	12:48	-1.9E	
	14:30	16:54	3.5F	14:00	16:36	2.7F		16:18	18:06	17:42	1.7F		14:36	16:48	1.8F	16:00	17:42	1.4F	
	20:12	23:54	-4.2E	19:18	23:36	-3.6E		20:54				Su	18:54	23:30	-3.4E	20:30			
2	03:06	05:30	3.9F	02:42	05:18	3.7F	2	04:06	00:48	06:36	-3.3E	17	02:36	05:24	4.0F	2	03:18	00:00	-3.0E
W	09:36	12:24	-2.4E	09:06	11:54	-2.1E	Sa	11:18	14:12	19:06	-1.7E	Su	09:42	12:24	-1.9E	M	10:42	13:42	-1.8E
	15:18	17:42	2.9F	14:42	17:18	2.4F		17:24	19:06		1.3F		15:36	17:42	1.6F		17:00	18:36	1.2F
	20:54			19:42				21:54					19:48				21:36		
3	03:54	00:36	-3.9E	03:12	00:12	-3.4E	3	03:54	01:00	06:30	-2.8E	18	03:24	00:24	-3.2E	3	04:12	00:48	-2.6E
Th	10:36	06:18	3.6F	09:48	06:00	3.7F	Su	11:18	15:06	19:12	1.0F	M	10:36	06:18	3.8F	Tu	11:30	06:48	2.8F
	16:24	18:30	-1.9E	15:30	18:06	-1.9E		17:36	19:12		1.0F		16:42	18:42	1.5F		17:54	19:42	1.2F
	21:36		2.2F	20:18		2.0F		22:12					20:54		1.5F		22:48		1.2F
4	04:42	01:18	-3.4E	03:54	00:54	-3.2E	4	04:54	01:30	07:24	-2.5E	19	04:24	01:18	-3.0E	4	05:06	01:42	-2.3E
F	11:42	07:06	3.2F	10:42	06:48	3.6F	M	12:18	16:18	20:24	1.7E	Tu	11:36	07:12	3.5F	W	12:12	07:42	2.5F
	17:36	19:30	1.6F	16:30	19:00	1.6F	o	18:42	20:24		1.0F	o	17:54	14:24	-1.9E	o	18:54	15:48	-2.0E
	22:30			21:00				23:30					22:24		1.6F			20:48	1.3F
5	05:36	02:06	-2.9E	04:48	01:42	-3.0E	5	06:00	02:24	08:30	-2.2E	20	05:30	02:18	-2.8E	5	06:00	02:36	-1.9E
Sa	12:54	08:00	2.8F	11:48	07:42	3.4F	Tu	13:18	17:18	21:48	2.0E	W	12:30	08:12	3.3F	Th	06:00	08:42	2.4F
o	18:54	16:36	-1.4E	17:48	14:30	-1.5E		19:36	21:48		1.2F		19:00	15:30	-2.2E		12:54	16:42	-2.3E
	23:42	20:36	1.1F	22:00	20:00	1.4F							20:54	20:54	1.8F		19:48	21:48	1.6F
6	06:42	03:06	-2.5E	05:48	02:36	-2.8E	6	00:42	03:24	09:30	-2.1E	21	00:00	03:18	-2.6E	6	01:12	03:30	-1.7E
Su	14:06	09:06	2.5F	13:00	08:36	3.2F	W	07:06	09:30	14:00	2.3F	Th	06:36	09:12	3.3F	F	07:00	09:36	2.3F
	20:12	18:00	-1.7E	19:12	15:36	-1.5E		20:24	22:54		1.6F		13:12	16:36	-2.7E		13:30	17:12	-2.6E
		21:54	1.0F	23:24	21:06	1.4F							19:54	22:00	2.2F		20:30	22:48	1.9F
7	01:00	04:06	-2.3E	07:00	03:42	-2.8E	7	01:42	04:24	14:00	-2.0E	22	01:24	04:24	-2.4E	7	02:18	04:30	-1.4E
M	07:48	10:12	2.3F	14:00	09:42	3.1F	Th	08:00	10:24	21:12	2.3F	F	07:36	10:12	3.3F	Sa	07:54	10:24	2.3F
	15:06	19:00	-2.0E	20:18	16:48	-1.6E		21:12	23:36		2.0F		13:54	17:36	-3.2E		14:06	17:48	-3.0E
	21:12	23:48	1.2F		22:12	1.6F							20:48	23:00	2.8F		21:12	23:30	2.4F
8	02:12	05:12	-2.3E	01:06	04:42	-2.8E	8	02:42	05:24	14:36	-2.0E	23	02:36	05:30	-2.2E	8	03:18	05:30	-1.3E
Tu	08:48	11:24	2.3F	08:06	10:42	3.2F	F	08:48	11:12	15:06	2.5F	Sa	08:36	11:06	3.3F	Su	08:48	11:12	2.3F
	15:54	19:48	-2.3E	14:54	18:06	-2.1E		21:48	19:12		-2.9E		14:36	18:24	-3.7E		14:36	18:24	-3.3E
	22:00			21:18	23:18	2.1F							21:36	23:54	3.3F		21:54		
9	03:12	00:36	1.6F	02:30	05:48	-2.9E	9	03:36	00:06	09:30	2.4F	24	03:48	06:48	-2.1E	9	04:12	00:06	2.8F
W	09:42	06:18	-2.4E	09:12	11:42	3.4F	Sa	09:30	06:18	15:36	-1.9E	Su	09:36	11:54	3.3F	M	09:42	06:36	-1.3E
	16:36	12:18	2.5F	15:42	19:12	-2.6E		22:24	11:54	19:30	-3.2E		15:12	19:12	-4.1E		15:06	11:54	-3.5E
	22:42	20:30	-2.5E	22:12									22:24				22:24		
10	04:06	01:06	2.0F	03:36	00:18	2.7F	10	04:24	00:42	10:12	2.8F	25	04:54	00:42	3.8F	10	05:00	00:42	3.3F
Th	10:30	07:18	-2.5E	10:06	06:54	-2.9E	Su	10:12	07:12	16:00	-1.9E	M	10:30	08:00	-2.1E	Tu	10:30	07:36	-1.5E
	17:06	21:00	2.6F	16:18	12:36	3.7F		23:00	19:54		-3.4E		15:54	12:42	3.2F		15:30	12:42	2.3F
	23:18		-2.7E	23:00	20:00	-3.3E							23:06	19:54	-4.3E		23:00	19:42	-3.7E
11	04:54	01:36	2.4F	04:42	08:00	3.2F	11	05:12	01:12	10:54	3.2F	26	05:54	01:24	4.1F	11	05:48	01:24	3.7F
F	11:12	08:06	-2.6E	11:00	08:00	-2.9E	M	16:24	07:54	13:12	-1.9E	Tu	11:24	09:00	-2.2E	W	11:18	08:30	-1.7E
	17:36	21:24	2.8F	17:00	13:24	3.8F		23:36	20:18		-3.6E		16:30	13:30	2.9F		16:00	13:24	2.2F
	23:54		-2.9E	23:42	20:42	-3.8E						o	23:48	20:36	-4.3E	o	23:36	20:24	-3.8E
12	05:36	02:06	2.7F	05:42	02:00	3.7F	12	06:00	01:48	11:30	3.5F	27	06:42	02:06	4.3F	12	06:30	02:00	4.1F
Sa	11:48	08:42	-2.6E	11:48	08:54	-2.9E	Tu	16:48	08:42	13:48	-2.0E	W	12:18	09:48	-2.3E	Th	12:06	09:18	-1.9E
	18:00	14:06	3.0F	17:36	14:06	3.8F	o		20:54		-3.7E		17:12	14:18	2.6F	o	16:36	14:06	2.2F
		21:42	-3.2E		21:24	-4.2E								21:18	-4.2E			21:06	-3.9E
13	00:30	02:42	3.0F	00:30	02:42	4.1F	13	00:06	02:30	06:42	3.8F	28	00:24	02:54	4.3F	13	00:12	02:42	4.3F
Su	06:24	09:18	-2.6E	06:42	09:54	-2.8E	W	06:42	09:24	12:12	-2.0E	Th	07:36	10:36	-2.3E	F	07:18	10:00	-2.1E
	12:24	14:42	3.1F	12:36	14:54	3.6F		17:06	14:30		2.5F		13:12	15:06	2.2F		12:54	14:54	2.1F
o	18:24	22:00	-3.4E	18:12	22:06	-4.4E			21:30		-3.8E		17:54	21:54	-4.0E		17:12	21:48	-3.9E
14	01:06	03:18	3.2F	01:12	03:30	4.3F	14	00:36	03:06	07:24	4.0F	29	01:06	03:36	4.2F	14	00:48	03:30	4.4F
M	07:06	09:54	-2.5E	07:42	10:42	-2.6E	Th	08:00	10:06	13:00	-2.1E	F	08:18	11:18	-2.2E	Sa	08:00	10:42	-2.2E
	12:54	15:18	3.1F	13:24	15:42	3.3F		17:36	15:12		2.3F		14:06	15:54	1.9F		13:36	15:42	2.1F
	18:42	22:30	-3.6E	18:48	22:42	-4.4E			22:06		-3.7E		18:42	22:36	-3.7E		18:00	22:30	-3.9E
15	01:36	03:54	3.4F	01:54	04:18	4.3F	15	01:12	03:48	08:06	4.1F	30	01:48	04:24	3.9F	15	01:30	04:18	4.4F
Tu	07:42	10:36	-2.4E	08:36	11:30	-2.4E	F	08:06	10:48	13:42	-2.1E	Sa	09:06	12:00	-2.0E	Su	08:42	11:24	-2.2E
	13:24	15:54	2.9F	14:18	16:24	2.8F		18:12	16:00		2.0F		15:00	16:48	1.6F		14:30	16:30	2.0F
	19:00	23:00	-3.6E	19:30	23:24	-4.2E			22:48		-3.6E		19:30	23:18	-3.3E		18:48	23:18	-3.8E
31	02:36	05:00	4.1F	02:36	05:00	4.1F	31	02:36	05:00	12:18	-2.2E	Th	09:30	12:18	-2.2E	31	02:48	05:24	3.4F
Th	09:30	12:18	-2.2E	09:30	12:18	-2.2E		20:12	17:18		2.3F		15:12	17:18	2.3F	Tu	09:54	12:42	-2.1E
	20:12			20:12									21:00				16:12	18:00	1.6F

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:26:49 UTC 2019

Page 5 of 5



The Narrows, North end - midstream, 2020

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2020

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

January						February						March					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	03:24	00:12	-2.7E	03:36	00:36	-3.0E	01:12	01:12	-1.6E	00:00	02:18	-1.3E	00:42	00:42	-1.5E	00:48	03:18
W	10:36	06:12	3.0F	10:18	06:24	3.8F	07:06	07:06	2.4F	05:18	07:48	2.2F	06:30	06:30	2.1F	06:30	08:24
	17:06	13:30	-2.1E	17:00	13:36	-3.2E	14:12	14:12	-2.8E	11:00	14:48	-3.4E	09:06	13:24	-2.9E	11:30	15:12
	22:00	19:00	1.4F	22:30	19:06	2.3F	20:06	20:06	1.9F	18:30	20:42	2.6F	16:54	19:18	2.4F	18:48	21:12
2	04:00	01:00	-2.2E	04:24	01:30	-2.3E	02:06	02:06	-1.1E	01:30	04:42	-1.0E	04:00	01:36	-1.2E	02:12	05:54
Th	11:12	07:00	2.7F	11:00	07:18	3.3F	08:00	08:00	1.9F	06:48	08:54	1.7F	07:24	07:24	1.6F	07:54	09:42
	18:06	14:18	-2.3E	18:06	14:30	-3.4E	15:00	15:00	-2.8E	12:06	15:48	-3.2E	09:42	14:12	-2.7E	12:48	16:18
	23:18	19:54	1.4F		20:06	2.3F	21:00	21:00	2.1F	19:24	21:48	2.6F	17:48	20:18	2.4F	19:54	22:18
3	04:42	01:54	-1.7E	05:30	02:30	-1.6E	03:06	03:06	-0.9E	02:48	06:18	-1.4E	00:30	02:36	-1.0E	03:24	07:00
F	11:48	07:48	2.4F	11:42	08:12	2.8F	09:00	09:00	1.6F	08:12	10:06	1.4F	05:42	08:24	1.2F	09:12	11:12
	19:00	15:06	-2.6E	19:06	15:24	-3.5E	15:48	15:48	-2.9E	13:12	16:54	-3.0E	10:42	15:12	-2.7E	14:06	17:30
		20:54	1.6F		21:12	2.5F	22:00	22:00	2.4F	20:24	22:54	2.7F	18:42	21:12	2.6F	20:54	23:36
4	00:36	02:48	-1.3E	01:30	03:42	-1.1E	04:18	04:18	-0.8E	03:54	07:18	-1.9E	01:42	03:48	-0.9E	04:18	07:54
Sa	05:30	08:42	2.2F	06:48	09:12	2.4F	10:00	10:00	1.4F	09:18	11:18	1.5F	07:36	09:30	1.2F	10:06	12:36
	12:24	15:54	-2.8E	12:30	16:18	-3.6E	16:42	16:42	-3.0E	14:12	18:06	-3.0E	12:00	16:12	-2.8E	15:12	18:48
	19:48	21:54	1.9F	20:00	22:18	2.7F	22:54	22:54	2.8F	21:18	23:48	2.9F	19:48	22:12	2.8F	21:54	
5	01:48	03:42	-1.0E	02:54	06:12	-1.1E	05:48	05:48	-0.9E	04:42	08:06	-2.3E	02:48	05:24	-1.1E	05:06	00:36
Su	06:42	09:36	2.0F	08:06	10:18	2.0F	11:00	11:00	1.5F	09:06	12:12	1.7F	08:48	10:36	1.4F	08:42	-2.5E
	13:00	16:42	-3.0E	13:24	17:24	-3.6E	17:42	17:42	-3.1E	13:36	17:42	-3.1E	13:18	17:12	-3.0E	10:54	13:18
	20:30	22:42	2.3F	20:48	23:18	3.0F	23:42	23:42	3.3F	21:18	23:42	3.3F	20:42	23:12	3.3F	16:06	19:48
6	02:54	04:48	-0.9E	04:06	07:30	-1.5E	07:42	07:42	-1.4E	04:18	07:42	-1.4E	03:42	07:00	-1.6E	05:48	09:24
M	08:06	10:36	1.8F	09:18	11:18	1.8F	11:54	11:54	1.7F	10:00	11:54	1.7F	09:36	11:36	1.9F	11:36	13:48
	13:36	17:30	-3.2E	14:12	18:18	-3.5E	18:42	18:42	-3.4E	14:30	18:42	-3.4E	14:24	18:12	-3.4E	16:54	20:24
	21:12	23:30	2.8F	21:36						22:00			21:36			23:24	
7	03:54	06:12	-0.9E	05:06	00:06	3.3F	00:30	00:30	3.8F	05:06	08:18	-1.8E	04:30	00:06	3.7F	06:18	01:48
Tu	09:18	11:24	1.8F	08:24	-2.0E	-2.0E	08:18	08:18	-1.8E	10:48	12:42	2.1F	10:24	07:48	-2.1E	09:54	-2.8E
	14:12	18:18	-3.4E	10:18	12:12	1.8F	12:42	12:42	2.1F	15:24	19:36	-3.8E	15:18	12:24	2.4F	12:12	14:18
	21:54			15:06	19:12	-3.5E	22:48	22:48	-3.8E	22:48			22:24	19:12	-3.8E	17:36	21:00
8	04:48	00:12	3.3F	05:48	00:48	3.5F	01:18	01:18	4.1F	05:54	08:54	-2.2E	06:12	00:54	4.1F	00:06	02:24
W	10:18	-1.3E	-1.3E	11:12	09:06	-2.3E	08:54	08:54	-2.2E	11:30	13:30	2.5F	12:06	09:24	-2.6E	06:42	10:18
	14:48	19:06	-3.5E	16:00	20:00	-3.5E	20:24	20:24	-4.2E	16:18	20:24	-4.2E	17:18	14:12	-4.1E	12:48	14:54
	22:30			23:06						23:36				21:00		18:18	21:36
9	05:36	00:54	3.8F	06:30	01:30	3.6F	02:00	02:00	4.4F	06:36	09:36	-2.6E	00:12	02:36	4.4F	00:42	02:54
Th	11:06	08:36	-1.6E	12:00	09:48	-2.4E	09:36	09:36	-2.6E	12:12	14:18	-2.8F	06:48	10:06	-3.1E	07:06	10:36
	15:36	20:00	-3.8E	16:48	20:36	-3.6E	21:12	21:12	-4.4E	17:12	21:12	-4.4E	12:48	15:00	-3.4F	13:18	-3.0E
	23:12			23:48									18:12	21:54	-4.1E	19:00	22:06
10	06:18	01:36	4.2F	07:06	02:12	3.7F	02:48	02:48	4.6F	07:24	10:30	-2.8E	00:54	03:24	4.5F	01:12	03:30
F	11:54	09:18	-2.0E	12:42	10:24	-2.4E	10:12	10:12	-2.9E	13:00	15:06	3.0F	07:24	10:42	-3.6E	07:24	10:54
	16:18	20:48	-4.0E	17:36	21:18	-3.6E	21:54	21:54	-4.3E	18:06	21:54	-4.3E	13:36	15:48	-3.6F	13:54	16:06
	23:54												19:12	22:36	-3.9E	19:42	22:42
11	07:06	02:24	4.4F	07:42	02:48	3.7F	03:36	03:36	4.6F	07:48	10:48	-3.3E	01:36	04:06	4.4F	01:36	04:06
Sa	12:36	09:54	-2.2E	13:18	10:48	-2.4E	10:48	10:48	-3.3E	13:48	16:00	3.1F	07:54	11:18	-4.0E	07:42	11:18
	17:12	21:30	-4.2E	18:18	15:12	-3.6E	22:42	22:42	-4.0E	19:06	22:42	-4.0E	14:18	16:36	3.8F	14:30	16:48
													20:06	23:24	-3.5E	20:24	23:18
12	00:36	03:12	4.5F	01:06	03:30	3.6F	04:18	04:18	4.4F	01:42	04:18	4.4F	02:18	04:54	4.1F	02:06	04:48
Su	07:42	10:30	-2.4E	08:12	11:06	-2.3E	11:30	11:30	-3.5E	08:18	11:30	-3.5E	08:30	12:00	-4.2E	07:54	11:48
	13:24	15:24	2.4F	14:00	16:00	2.1F	16:48	16:48	3.1F	14:36	16:48	3.1F	15:06	17:30	3.7F	15:00	17:24
	18:00	22:18	-4.3E	19:00	22:30	-3.4E	23:24	23:24	-3.4E	20:06	23:24	-3.4E	21:12			21:06	23:54
13	01:18	04:00	4.6F	01:36	04:12	3.5F	05:06	05:06	4.1F	02:24	05:06	4.1F	03:06	00:12	-2.9E	02:36	05:24
M	08:24	11:12	-2.6E	08:36	11:30	-2.4E	12:12	12:12	-3.7E	08:54	12:12	-3.7E	09:00	05:42	3.6F	08:12	12:18
	14:12	16:18	2.5F	14:42	16:42	2.1F	17:42	17:42	3.0F	15:30	17:42	2.5F	16:00	12:42	-4.1E	15:36	18:06
	19:00	23:00	-4.1E	19:42	23:06	-3.1E	21:12	21:12		21:12			22:18	18:18	3.6F	21:48	
14	02:06	04:48	4.4F	02:12	04:54	3.4F	00:12	00:12	-2.7E	03:12	05:54	-2.7E	04:00	01:00	-2.3E	03:12	00:30
Tu	09:00	11:54	-2.8E	09:06	12:00	-2.5E	05:54	05:54	-3.5F	09:30	13:00	-3.7E	09:42	06:30	3.0F	08:36	06:12
	15:00	17:06	2.5F	15:30	17:30	2.0F	18:42	18:42	2.8F	16:30	18:42	2.8F	16:48	13:24	-3.9E	16:12	18:54
	20:00	23:48	-3.7E	20:30	23:42	-2.7E	22:30	22:30		22:30			23:30	19:12	3.3F	22:42	
15	02:48	05:36	4.2F	02:36	05:36	3.1F	01:12	01:12	-1.9E	04:06	06:48	-2.9F	05:06	02:00	-1.6E	04:00	01:18
W	09:42	12:42	-3.0E	09:30	12:42	-2.7E	06:48	06:48	-2.9F	10:12	13:54	-3.6E	10:30	07:24	2.2F	09:12	07:00
	16:00	18:06	2.4F	16:18	18:18	1.9F	19:42	19:42	2.7F	17:30			17:48	14:18	-2.9F	16:54	19:42
	21:06			21:24										20:06		23:42	
16	03:06	00:24	-2.1E	03:06	06:18	2.8F	01:12	01:12	-1.9E	03:06	06:18	2.8F	05:12	02:18	-1.3E	05:12	07:54
F	09:54	13:24	-2.8E	09:54	13:24	-2.8E	19:12	19:12	1.9F	17:06			09:54	07:54	-1.3F	09:54	14:42
	22:36			22:36						22:36			17:48	20:42	2.8F	17:48	20:42

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:27:10 UTC 2019

Page 2 of 5



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2020

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

April						May						June											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots		
1 W ●	00:54	03:18	-1.2E	16 Th	02:42	06:36	-2.0E	1 F	01:36	04:18	-1.6E	16 Sa	02:42	06:48	-2.3E	1 M	02:24	05:48	-3.1E	16 Tu	02:42	06:30	-2.9E
	06:54	09:00	1.1F		08:54	11:24	1.1F		07:54	09:42	1.4F		09:06	11:36	1.5F		09:18	11:30	2.6F		10:00	12:18	2.3F
	11:00	15:36	-2.6E		13:48	16:48	-2.2E		14:24	16:12	-2.7E		15:06	17:48	-2.1E		16:06	18:12	-1.0E				
	18:54	21:42	2.8F		20:24	22:54	2.3F		19:30	22:12	3.2F		20:36	23:06	2.3F		21:00	23:36	3.3F		21:30	23:54	2.0F
2 Th	02:12	04:30	-1.2E	17 F	03:36	07:24	-2.4E	2 Sa	02:30	05:24	-2.0E	17 Su	03:18	07:24	-2.6E	2 Tu	03:00	06:42	-3.7E	17 W	03:12	07:06	-3.2E
	08:18	10:06	1.2F		09:42	12:18	1.5F		08:54	10:48	1.8F		09:54	12:24	1.9F		10:12	12:24	3.2F		10:36	13:00	2.7F
	12:36	16:42	-2.7E		14:54	18:00	-2.3E		13:54	17:12	-2.8E		15:24	18:06	-1.8E		16:18	19:06	-1.9E		17:12	19:36	-1.0E
	20:06	22:42	3.0F		21:18				20:36	23:12	3.4F		21:30	23:54	2.3F		22:00				22:30		
3 F	03:12	05:54	-1.5E	18 Sa	04:18	00:06	2.4F	3 Su	03:12	06:30	-2.5E	18 M	03:48	08:00	-2.9E	3 W	03:36	00:24	3.2F	18 Th	03:42	00:36	2.0F
	09:18	11:12	1.6F		10:24	13:00	-2.6E		09:42	11:48	2.4F		10:36	13:00	2.3F		10:54	07:36	-4.1E		11:12	07:48	-3.4E
	14:06	17:42	-3.0E		15:48	19:06	1.9F		16:24	19:06	-1.7E		17:24	20:24	-1.9E		18:00	20:48	-1.2E				
	21:12	23:42	3.3F		22:12		-2.4E		21:36				22:18				23:00				23:24		
4 Sa	04:00	07:18	-1.9E	19 Su	04:54	00:48	2.6F	4 M	03:54	00:06	3.6F	19 Tu	04:18	00:36	2.4F	4 Th	04:18	01:18	3.1F	19 F	04:12	01:24	1.9F
	10:12	12:12	2.1F		11:06	08:42	-2.8E		10:30	07:24	-3.1E		11:12	08:18	-3.2E		11:42	08:24	-4.4E		11:48	08:24	-3.5E
	15:12	18:48	-3.2E		16:36	13:30	2.3F		16:12	12:42	3.1F		17:18	13:30	2.7F		18:30	14:00	4.2F		18:48	14:06	3.5F
	22:06				22:54	19:54	-2.4E		22:30	19:18	-2.8E		23:00	20:00	-1.6E			21:36	-2.0E		21:42	21:42	-1.4E
5 Su	04:42	00:36	3.7F	20 M	05:18	01:18	2.7F	5 Tu	04:24	00:54	3.7F	20 W	04:42	01:12	2.4F	5 F	00:00	02:06	2.9F	20 Sa	00:12	02:06	1.9F
	10:54	08:06	-2.5E		11:42	09:12	-3.0E		11:18	08:12	-3.8E		11:48	08:42	-3.4E		12:24	09:06	-4.4E		12:24	09:06	-3.6E
	16:12	13:06	2.8F		17:24	14:00	2.6F		17:18	13:36	3.7F		18:12	14:06	3.1F		19:24	14:48	4.4F		19:30	14:48	3.8F
	23:00	19:48	-3.5E		23:36	20:30	-2.4E		23:18	20:24	-2.7E		23:42	20:54	-1.6E			22:30	-2.2E			22:12	-1.7E
6 M	05:18	01:24	4.0F	21 Tu	05:42	01:48	2.8F	6 W	05:00	01:42	3.8F	21 Th	05:06	01:54	2.4F	6 Sa	00:54	02:54	2.6F	21 ●	01:00	02:54	1.9F
	11:42	08:48	-3.2E		12:18	09:30	-3.2E		12:06	08:54	-4.3E		12:18	09:06	-3.6E		05:42	09:54	-4.3E		05:18	09:48	-3.7E
	17:12	13:54	3.4F		18:12	14:30	3.0F		18:18	14:24	4.1F		19:00	14:36	3.4F		13:06	15:30	4.4F		12:54	15:30	4.0F
	23:42	20:42	-3.5E			21:12	-2.3E			21:24	-2.6E			21:36	-1.7E		20:18	23:18	-2.3E		20:06	22:48	-1.9E
7 Tu	05:54	02:12	4.2F	22 W	06:06	02:24	2.8F	7 Th	06:06	02:30	3.6F	22 ●	00:24	02:30	2.3F	7 Su	01:48	03:42	2.3F	22 M	01:42	03:36	1.9F
	12:24	09:30	-3.7E		12:48	09:48	-3.4E		12:48	09:36	-4.5E		12:54	09:36	-3.7E		06:30	10:36	-4.1E		06:00	10:30	-3.8E
	18:12	14:42	3.8F		19:00	15:06	3.2F		19:24	15:06	4.4F		19:42	15:12	3.7F		13:48	16:18	4.3F		13:36	16:12	4.2F
		21:36	-3.4E			21:48	-2.2E			22:18	-2.5E			22:18	-1.8E		21:06				20:48	23:30	-2.1E
8 W ●	00:30	02:54	4.2F	23 ●	00:42	03:00	2.8F	8 F	01:00	03:12	3.3F	23 Sa	01:06	03:12	2.2F	8 M	02:42	00:06	-2.3E	23 Tu	02:24	04:24	1.9F
	06:30	10:06	-4.2E		06:24	10:12	-3.6E		06:12	10:18	-4.6E		06:12	10:12	-3.7E		02:42	04:36	2.0F		06:42	11:12	-3.8E
	13:12	15:30	4.2F		13:24	15:42	3.4F		13:30	15:54	4.5F		13:24	15:54	3.9F		07:18	11:18	-3.8E		14:12	16:54	4.3F
	19:12	22:24	-3.2E		19:42	22:24	-2.1E		20:18	23:12	-2.4E		20:18	22:54	-1.9E		14:30	17:00	4.1F		21:24		
9 Th	01:12	03:42	4.0F	24 F	01:18	03:36	2.6F	9 Sa	01:54	04:00	2.8F	24 Su	01:48	03:54	2.0F	9 Tu	03:42	00:48	-2.2E	24 W	03:12	00:06	-2.2E
	07:00	10:48	-4.5E		06:36	10:42	-3.7E		06:54	11:00	-4.4E		06:18	10:48	-3.6E		08:12	05:30	1.7F		07:30	05:12	2.0F
	13:54	16:18	4.3F		13:54	16:18	3.6F		14:12	16:42	4.4F		13:54	16:30	4.0F		15:12	12:00	-3.5E		14:54	11:54	-3.8E
	20:12	23:12	-2.9E		20:24	23:00	-2.0E		21:12				20:54	23:36	-1.9E		22:36	17:48	3.8F		22:06	17:42	4.2F
10 F	02:00	04:24	3.5F	25 Sa	01:54	04:18	2.4F	10 Su	02:48	00:00	-2.2E	25 M	02:36	04:42	1.8F	10 W	04:36	01:42	-2.1E	25 Th	04:00	00:48	-2.2E
	07:36	11:30	-4.5E		06:54	11:12	-3.6E		07:36	04:54	2.3F		06:54	11:30	-3.5E		09:12	06:18	1.5F		08:24	06:00	2.0F
	14:42	17:06	4.2F		14:24	17:00	3.7F		14:54	11:42	-4.0E		14:30	17:18	4.0F		16:00	12:48	-3.1E		15:42	12:42	-3.6E
	21:12				21:00	23:42	-1.9E		22:06	17:24	4.1F		21:36				23:24	18:36	3.4F		22:48	18:30	4.1F
11 Sa	02:54	00:00	-2.5E	26 Su	02:30	05:00	2.1F	11 M	03:54	00:54	-2.1E	26 Tu	03:24	00:18	-1.9E	11 Th	05:36	02:36	-1.9E	26 F	01:36	01:36	-2.3E
	08:12	05:12	3.0F		07:24	11:54	-3.4E		08:30	05:48	1.8F		07:30	05:30	1.7F		10:12	07:18	1.3F		09:24	06:54	1.9F
	15:24	17:54	-4.2E		14:54	17:42	3.7F		15:42	12:24	-3.6E		15:12	12:12	-3.4E		16:48	13:30	-2.7E		16:30	13:24	-3.3E
	22:12		4.0F		21:42		3.7F		23:00	18:18	3.7F		22:24	18:00	4.0F			19:30	3.0F		23:30	19:24	3.9F
12 Su	03:54	00:54	-2.0E	27 M	03:18	00:24	-1.8E	12 Tu	05:00	01:54	-1.9E	27 W	04:18	01:00	-1.9E	12 F	00:12	03:36	-1.9E	27 Sa	05:54	02:30	-2.5E
	09:00	06:06	2.3F		07:54	05:48	1.8F		09:30	06:42	1.4F		08:24	01:30	1.6F		06:36	08:18	1.2F		10:36	07:54	2.0F
	16:12	12:54	-3.7E		15:36	12:30	-3.2E		16:30	13:12	-3.0E		16:00	13:00	-3.3E		11:18	14:24	-2.3E		17:18	14:18	-2.8E
	23:18	18:42	3.6F		22:30	18:24	3.6F			19:06	3.3F		23:12	18:54	3.8F		17:42	20:24	2.6F			20:18	2.8E
13 M	05:06	01:54	-1.7E	28 Tu	04:18	01:12	-1.7E	13 W	00:00	03:30	-1.8E	28 Th	05:18	01:54	-1.8E	13 ●	00:54	04:42	-2.1E	28 ●	00:12	03:24	-2.8E
	09:54	07:00	1.7F		08:36	06:36	1.5F		06:12	07:48	1.1F		09:18	07:12	1.5F		07:30	09:24	1.3F		06:54	08:54	2.1F
	15:42	13:42	-3.2E		16:18	13:18	-2.9E		10:42	14:06	-2.6E		09:18	13:48	-3.1E		12:36	15:12	-1.9E		12:12	15:18	-2.3E
	19:36	19:36	3.1F		23:24	19:18	3.4F		17:30	20:06	2.8F		16:54	19:48	3.6F		18:36	21:18	2.4F		18:18	21:12	3.3F
14 Tu ●	00:24	03:54	-1.5E	29 W	05:30	02:06	-1.5E	14 Th ●	01:00	04:48	-1.9E	29 F	00:06	02:54	-1.9E	14 Su							



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2020

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots
1 W	02:18	06:06	-3.8E	16 Th	02:18	06:06	-3.1E	1 Sa	03:42	00:48	1.9F	16 Su	03:24	00:36	1.5F	1 Tu	00:18	02:18	2.3F	16 W	04:54	01:54	2.8F
	09:42	12:06	3.2F		09:54	12:18	2.6F		07:48	-3.6E	10:48		07:24	-3.1E	05:30		09:06	-3.4E	08:36		-3.8E		
	16:30	19:24	-1.3E		16:48	19:06	-0.8E		13:24	3.5F	10:48		13:12	3.4F	12:12		14:30	3.4F	14:18		4.4F		
	21:48				22:06				23:48	21:42	-2.3E		17:48	23:36	-1.7E		19:12	22:36	-2.8E		18:24	21:42	-3.0E
2 Th	03:00	00:00	2.5F	17 F	03:00	07:00	1.5F	2 Su	04:42	08:36	-3.6E	17 M	04:18	08:18	1.9F	2 Wo	00:54	02:54	2.5F	17 Th	00:30	02:36	3.3F
	10:30	07:06	-4.0E		10:36	07:00	-3.2E		08:36	-3.6E	11:30		08:18	-3.5E	06:12		09:42	-3.4E	05:48		09:30	-3.9E	
	17:36	12:54	3.6F		17:36	13:00	3.0F		14:06	3.6F	18:36		13:54	3.8F	12:48		15:06	3.5F	12:30		15:00	4.4F	
	22:54	20:54	-1.6E		23:06	21:00	-1.2E		22:30	-2.5E	21:42		-2.1E	19:36	23:00		-2.8E	18:54	22:18		-3.5E		
3 F	03:48	01:00	2.4F	18 Sa	03:42	01:00	1.6F	3 Mo	00:36	02:30	2.1F	18 Tu	00:18	02:12	2.3F	3 Th	01:36	03:36	2.6F	18 F	01:12	03:24	3.6F
	11:18	08:00	-4.1E		11:18	07:54	-3.3E		05:30	09:24	-3.7E		05:06	09:06	-3.9E		06:54	10:12	-3.3E		06:48	10:12	-3.8E
	18:36	21:48	-2.0E		18:24	21:36	-1.5E		12:30	14:54	3.7F		12:12	14:42	4.2F		13:24	15:48	3.5F		13:12	15:42	4.4F
	23:54				23:54				19:42	23:06	-2.6E		19:12	22:12	-2.5E		20:00	23:18	-2.9E		19:24	22:54	-4.0E
4 Sa	04:36	01:48	2.3F	19 Su	04:30	01:48	1.8F	4 Tu	01:18	03:12	2.2F	19 W	00:54	03:00	2.7F	4 F	02:12	04:18	2.8F	19 Sa	01:54	04:12	3.9F
	12:00	08:48	-4.0E		12:00	08:42	-3.5E		06:18	10:00	-3.7E		05:54	09:48	-4.1E		07:36	10:48	-3.1E		07:42	11:00	-3.5E
	19:24	22:36	4.1F		11:54	14:24	3.8F		13:12	15:36	3.8F		12:54	15:24	4.4F		13:54	16:24	3.4F		13:54	16:30	4.1F
					19:06	22:06	-1.9E		20:18	23:36	-2.6E		19:48	22:48	-2.9E		20:24	23:36	-3.1E		19:54	23:30	-4.3E
5 Su	00:48	02:42	2.2F	20 Mo	00:42	02:30	2.0F	5 W	02:00	04:00	2.3F	20 Th	01:36	03:42	3.0F	5 Sa	02:48	04:54	2.8F	20 Su	02:42	05:00	4.0F
	05:30	09:36	-4.0E		05:12	09:30	-3.8E		07:06	10:42	-3.7E		06:42	10:36	-4.2E		08:24	11:24	-2.8E		08:48	11:48	-3.0E
	12:48	15:12	4.1F		12:36	15:06	4.1F		13:48	16:12	3.7F		13:36	16:12	4.5F		14:24	17:00	3.2F		14:42	17:12	3.7F
	20:06	23:18	-2.4E		19:48	22:42	-2.1E		20:54				20:18	23:24	-3.2E		20:42				20:30		
6 M	01:36	03:30	2.1F	21 Tu	01:24	03:18	2.2F	6 Th	02:42	00:00	-2.6E	21 F	02:18	04:30	3.2F	6 Su	03:24	00:06	-3.2E	21 M	03:30	00:12	-4.3E
	06:24	10:18	-3.9E		05:54	10:12	-4.0E		07:48	04:42	2.3F		07:36	11:18	-4.0E		09:06	05:36	2.8F		09:48	05:54	3.9F
	13:30	15:54	4.1F		13:18	15:48	4.3F		14:24	11:12	-3.5E		14:18	16:54	4.4F		14:48	12:00	-2.4E		15:30	12:36	-2.4E
	20:48				20:24	23:12	-2.4E		21:18	16:54	3.6F		20:48				21:00	17:42	2.9F		21:06	18:00	3.1F
7 Tu	02:24	00:00	-2.4E	22 W	02:00	04:06	2.4F	7 F	03:24	00:18	-2.6E	22 Sa	03:06	00:06	-3.6E	7 M	04:00	00:36	-3.2E	22 Tu	04:18	00:54	-4.1E
	07:12	04:18	2.0F		06:42	10:54	-4.1E		08:30	05:24	2.3F		08:36	05:24	3.3F		09:54	06:24	2.7F		11:00	06:42	3.7F
	14:12	11:00	-3.7E		14:00	16:36	4.5F		14:54	11:48	-3.2E		15:00	12:00	-3.5E		15:18	12:36	-1.9E		16:36	13:30	-1.8E
	21:24	16:42	3.9F		21:00	23:54	-2.6E		21:48	17:36	3.4F		21:18	17:42	4.2F		21:18	18:24	2.5F		21:48	18:54	2.4F
8 W	03:12	00:30	-2.4E	23 Th	02:48	04:54	2.5F	8 Sa	04:06	00:48	-2.7E	23 Su	04:00	00:42	-3.8E	8 Tu	04:42	01:18	-3.1E	23 W	05:12	01:48	-3.7E
	08:00	05:06	1.9F		07:30	11:36	-4.1E		09:18	06:12	2.2F		09:42	06:12	3.3F		10:54	07:06	2.6F		12:12	07:42	3.9F
	14:48	11:36	-3.6E		14:42	17:24	4.5F		15:24	12:24	-2.7E		15:42	12:48	-2.8E		15:54	13:24	-1.5E		17:54	14:42	-1.4E
	22:06	17:24	3.7F		21:36				22:12	18:18	3.1F		21:54	18:30	3.7F		21:42	19:06	2.0F		22:48	19:54	1.7F
9 Th	04:00	01:00	-2.3E	24 F	03:36	00:30	-2.8E	9 Su	04:54	01:18	-2.8E	24 M	04:54	01:30	-3.8E	9 W	05:30	02:00	-2.9E	24 Th	06:12	02:42	-3.2E
	08:48	05:54	1.8F		08:30	05:42	2.6F		10:12	07:00	2.1F		10:54	07:06	3.1F		11:54	08:00	2.5F		13:30	08:36	2.9F
	15:30	12:18	-3.3E		15:24	12:18	-3.8E		15:54	13:06	-2.2E		16:36	13:42	-2.1E		16:42	14:18	-1.2E		19:18	17:06	-1.3E
	22:42	18:06	3.5F		22:12	18:06	4.3F		22:30	19:00	2.7F		22:30	19:18	3.0F		22:18	20:00	1.5F		21:06	21:06	1.3F
10 F	04:54	01:36	-2.2E	25 Sa	04:24	01:12	-3.0E	10 M	05:42	02:00	-2.8E	25 Tu	05:48	02:18	-3.7E	10 Th	06:18	02:54	-2.7E	25 F	00:12	03:48	-2.8E
	09:42	06:42	1.7F		09:30	06:36	2.6F		11:18	07:48	2.0F		12:18	08:06	3.0F		13:12	08:54	2.4F		07:18	09:42	2.6F
	16:12	13:00	-2.9E		16:06	13:06	-3.2E		16:24	13:54	-1.6E		17:42	14:42	-1.4E		18:30	15:18	-1.0E		14:48	18:30	-1.8E
	23:12	18:54	3.1F		22:42	18:54	4.0F		23:00	19:42	2.3F		23:18	20:18	2.3F		23:18	21:06	1.1F		20:36	22:30	1.2F
11 Sa	05:42	02:12	-2.3E	26 Su	05:24	02:00	-3.2E	11 Tu	06:30	02:48	-2.8E	26 W	06:48	03:12	-3.5E	11 F	07:18	03:48	-2.5E	26 Sa	01:36	04:54	-2.6E
	10:42	07:36	1.6F		10:48	07:30	2.5F		12:36	08:42	2.0F		13:48	09:06	2.8F		14:24	09:48	2.4F		08:24	10:54	2.5F
	16:48	13:42	-2.3E		16:54	14:00	-2.5E		17:06	14:48	-1.1E		19:12	16:06	-1.0E		20:24	16:24	-0.9E		15:48	19:30	-2.2E
	23:48	19:42	2.8F		23:18	19:48	3.5F		23:36	20:36	1.8F		19:12	21:18	1.8F		20:24	22:12	1.0F		21:42		
12 Su	06:42	03:00	-2.4E	27 Mo	06:24	02:54	-3.4E	12 W	07:24	03:36	-2.8E	27 Th	00:24	04:12	-3.2E	12 Sa	00:48	04:48	-2.5E	27 Su	02:48	00:00	1.5F
	11:54	08:30	1.6F		12:12	08:30	2.5F		13:54	09:36	2.0F		07:54	10:12	2.7F		08:24	10:48	2.6F		06:12	06:12	-2.6E
	17:24	14:30	-1.8E		17:48	14:54	-1.8E		18:18	15:42	-0.8E		20:36	18:42	-1.3E		15:24	17:48	-1.1E		09:24	12:06	2.6F
		20:30	2.4F			20:42	2.9F			21:36	1.4F			22:30	1.5F			23:18	1.2F			20:18	20:18
13 M	00:24	03:42	-2.6E	28 Tu	00:00	03:42	-3.6E	13 Th	00:24	04:30	-2.7E	28 F	01:36	05:18	-3.0E	13 Su	02:06	05:48	-2.7E	28 M	03:42	00:54	1.8F
	07:36	09:30	1.6F		07:24	09:36	2.6F		08:18	10:36	2.2F		08:54	11:18	2.7F		09:18	11:48	2.9F		07:24	07:24	-2.7E
	13:12	15:24	-1.3E		13:48	16:06	-1.2E		15:06	16:54	-0.7E		16:18	19:48	-1.8E		16:18	20:00	-1.5E		10:18	12:54	2.8F
	18:12	21:18	2.1F		19:06	21:42	2.4F		20:36	22:42	1.2F		21:48	23:48	1.5F		22:24				17:18	21:00	-2.8E
14 Tu	01:00	04:30	-2.8E	29 W	00:54	04:42	-3.6E	14 F	01:30	05:24	-2.7E	29 Sa	02:48	06:30	-3.0E	14 M</							



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2020

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots
1 Th O	00:30	02:36	2.8F	16 F ●	00:00	02:18	3.8F	1 Su	00:54	02:24	3.5F	16 M	00:06	02:30	4.7F	1 Tu	00:12	02:36	3.8F	16 W	00:24	02:54	4.5F
	06:06	09:24	-2.9E		05:48	09:06	-3.2E		06:36	09:12	-1.9E		07:00	09:48	-2.4E		07:12	09:48	-1.7E		07:42	10:48	-2.4E
	12:24	14:42	3.1F		12:06	14:30	4.1F		12:06	14:18	2.4F		12:30	14:36	2.9F		12:42	14:36	1.9F		13:18	15:12	2.2F
	18:42	22:24	-3.2E		17:54	21:42	-4.2E		17:18	21:24	-3.7E		17:24	21:36	-4.6E		17:06	21:36	-3.6E		18:00	22:00	-4.1E
2 F	01:06	03:12	3.0F	17 Sa	00:48	03:06	4.2F	2 M	00:36	03:00	3.6F	17 Tu	00:48	03:18	4.7F	2 W	00:42	03:18	3.9F	17 Th	01:12	03:42	4.3F
	06:48	09:54	-2.7E		06:48	10:00	-3.1E		07:18	09:48	-1.9E		07:54	10:42	-2.3E		07:48	10:24	-1.8E		08:30	11:30	-2.4E
	12:54	15:12	3.1F		12:54	15:12	3.9F		12:42	15:00	2.2F		13:24	15:30	2.5F		13:24	15:24	1.8F		14:12	16:06	2.0E
	19:00	22:36	-3.3E		18:30	22:24	-4.5E		17:36	22:00	-3.6E		18:12	22:18	-4.3E		17:42	22:12	-3.5E		19:00	22:48	-3.8E
3 Sa	01:36	03:48	3.2F	18 Su	01:30	03:54	4.5F	3 Tu	01:06	03:42	3.7F	18 W	01:30	04:06	4.4F	3 Th	01:18	03:54	3.9F	18 F	01:54	04:30	4.0F
	07:36	10:24	-2.5E		07:54	10:48	-2.8E		07:54	10:30	-1.8E		08:42	11:36	-2.2E		08:24	11:00	-1.9E		09:12	12:18	-2.3E
	13:30	15:54	3.0F		13:36	16:00	3.5F		13:24	15:42	2.0F		14:30	16:24	2.1F		14:06	16:12	1.7F		15:12	17:00	1.8F
	19:18	23:00	-3.5E		19:06	23:00	-4.6E		18:06	22:36	-3.4E		19:06	23:06	-3.9E		18:18	22:54	-3.4E		19:54	23:30	-3.4E
4 Su	02:12	04:30	3.3F	19 M	02:12	04:42	4.5F	4 W	01:42	04:24	3.7F	19 Th	02:18	04:54	4.0F	4 F	01:54	04:42	3.9F	19 Sa	02:42	05:18	3.6F
	08:18	11:00	-2.3E		08:54	11:42	-2.5E		08:30	11:06	-1.8E		09:36	12:30	-2.1E		09:06	11:42	-1.9E		10:00	13:12	-2.2E
	14:00	16:30	2.7F		14:30	16:48	3.0F		14:06	16:30	1.7F		15:30	17:18	1.7F		15:00	17:00	1.6F		16:06	17:54	1.6F
	19:36	23:30	-3.5E		19:42	23:42	-4.5E		18:36	23:12	-3.2E		20:12	23:54	-3.4E		19:00	23:36	-3.2E		20:54		
5 M	02:42	05:12	3.3F	20 Tu	03:00	05:30	4.3F	5 Th	02:18	05:06	3.6F	20 F	03:12	05:42	3.6F	5 Sa	02:36	05:30	3.8F	20 Su	03:30	06:12	-3.0E
	09:00	11:42	-2.0E		09:48	12:30	-2.2E		09:12	11:54	-1.7E		10:30	13:48	-2.0E		09:48	12:30	-1.9E		10:48	14:06	3.3F
	14:30	17:06	2.4F		15:30	17:42	2.5F		15:00	17:18	1.4F		16:42	18:18	1.4F		15:54	17:48	1.5F		17:06	18:54	-2.2E
	19:48				20:30				19:18				21:18				19:54				22:00		1.4F
6 Tu	03:18	00:00	-3.4E	21 W	03:48	00:30	-4.0E	6 F	03:00	00:00	-2.9E	21 Sa	04:06	00:48	-2.9E	6 Su	03:24	00:24	-3.1E	21 Mo	04:18	01:00	-2.5E
	09:42	12:18	-1.8E		10:48	13:30	-1.9E		10:06	12:42	-1.6E		11:30	15:12	-2.0E		10:36	13:24	-2.0E		11:30	15:06	-2.2E
	15:06	17:54	2.0F		16:36	18:36	1.9F		16:06	18:12	1.2F		17:48	19:30	1.2F		16:54	18:48	1.5F		18:06	19:54	1.4F
	20:18				21:24				20:06				22:36				21:00				23:12		
7 W	03:54	00:42	-3.2E	22 Th	04:42	01:18	-3.5E	7 Sa	03:48	00:48	-2.7E	22 Su	05:06	01:42	-2.5E	7 M	04:18	01:18	-2.9E	22 Tu	05:12	01:54	-2.0E
	10:30	06:36	3.1F		11:54	07:12	3.5F		11:06	06:48	3.2F		12:24	07:36	2.7F		11:24	07:12	3.5F		12:12	07:54	2.5F
	15:48	18:42	-1.6E		17:54	14:54	-1.7E		17:18	13:42	-1.5E		18:48	16:18	-2.2E		17:54	14:24	-2.2E		19:00	15:54	-2.4E
	20:48		1.6F		22:36	19:42	1.4F		21:12	19:12	1.1F		23:48	20:48	1.2F		22:24	19:48	1.6F		23:12	21:06	1.5F
8 Th	04:30	01:24	-2.9E	23 F	05:36	02:12	-2.9E	8 Su	04:48	01:42	-2.6E	23 M	06:06	02:42	-2.1E	8 Tu	05:12	02:12	-2.6E	23 W	06:12	02:48	-1.5E
	11:24	13:54	-1.3E		13:06	08:06	3.0F		12:06	07:42	3.1F		13:18	08:42	2.5F		12:12	08:12	3.4F		12:48	08:48	2.2F
	17:00	19:36	-1.2F		19:12	16:48	-1.8E		18:30	14:48	-1.6E		19:48	17:18	-2.5E		18:54	15:18	-2.5E		19:54	16:36	-2.6E
	21:30				20:54		1.1F		22:42	20:18	1.2F			22:12	1.5F			20:54	1.9F			22:12	1.8F
9 F	05:24	02:18	-2.6E	24 Sa	06:42	03:18	-2.5E	9 M	05:54	02:42	-2.6E	24 Tu	01:00	03:36	-1.9E	9 W	00:00	03:06	-2.3E	24 Th	01:42	03:48	-1.1E
	12:30	08:12	2.8F		14:12	09:12	2.6F		13:00	08:42	3.1F		07:06	09:42	2.4F		06:12	09:06	3.3F		07:12	09:42	2.0F
	18:36	15:00	-1.2E		20:24	18:00	-2.1E		19:30	15:54	-1.9E		13:54	18:00	-2.7E		12:48	16:12	-3.0E		13:24	17:12	-2.9E
	22:36	20:36	1.0F		22:24	22:24	1.2F		21:18	21:18	1.6F		20:36	23:06	1.9F		19:48	21:54	2.4F		20:36	23:06	2.2F
10 Sa	06:24	03:12	-2.4E	25 Su	01:24	04:24	-2.3E	10 Tu	00:12	03:42	-2.6E	25 W	02:06	04:42	-1.7E	10 Th	01:24	04:12	-2.0E	25 F	02:54	04:54	-0.9E
	13:42	09:12	2.7F		07:54	10:18	2.4F		07:00	09:42	3.3F		08:06	10:30	2.3F		07:18	10:06	3.2F		08:18	10:36	1.8F
	19:06	16:06	-1.2E		15:06	18:54	-2.4E		13:42	16:54	-2.4E		14:30	18:36	-3.0E		13:24	17:06	-3.6E		13:54	17:48	-3.1E
	20:00	21:42	1.0F		21:18	23:54	1.5F		20:18	22:24	2.1F		21:18	23:48	2.3F		20:42	22:54	3.0F		21:18	23:48	2.6F
11 Su	00:06	04:12	-2.5E	26 M	02:30	05:36	-2.2E	11 W	01:30	04:42	-2.6E	26 Th	03:06	06:00	-1.5E	11 F	02:42	05:24	-1.7E	26 Sa	04:00	07:24	-0.9E
	07:36	10:12	2.8F		08:54	11:30	2.5F		08:00	10:36	3.4F		08:54	11:18	2.3F		08:24	11:00	3.1F		09:18	11:24	1.7F
	14:42	17:24	-1.4E		15:54	19:42	-2.7E		14:24	17:48	-3.0E		14:54	19:06	-3.2E		14:06	18:00	-4.0E		14:24	18:30	-3.3E
	21:00	22:48	1.3F		22:06				21:06	23:18	2.8F		21:54				21:30	23:48	3.6F		21:54		
12 M	01:42	05:12	-2.7E	27 Tu	03:30	06:48	1.9F	12 Th	02:42	05:42	-2.5E	27 F	04:06	00:18	2.7F	12 Sa	04:00	06:42	-1.7E	27 Su	04:54	00:18	3.0F
	08:42	11:12	3.1F		09:48	06:48	-2.3E		08:54	11:30	3.6F		09:42	07:06	-1.5E		09:30	11:48	3.0F		10:12	08:18	-1.1E
	15:36	18:42	-1.9E		16:30	12:24	2.6F		14:54	18:36	-3.6E		15:18	11:54	2.2F		14:42	18:48	-4.3E		15:00	12:06	1.7F
	21:48	23:48	1.9F		22:48	20:24	-3.0E		21:54				22:30				22:12				22:36		-3.4E
13 Tu	02:48	06:12	-2.9E	28 W	04:18	07:42	2.3F	13 F	03:48	00:12	3.5F	28 Sa	05:00	00:48	3.1F	13 Su	05:06	00:36	4.2F	28 M	05:42	00:54	3.3F
	09:36	12:12	3.5F		10:36	07:42	-2.3E		09:48	06:54	-2.5E		10:30	12:36	-2.2F		10:30	12:42	-1.8E		11:00	08:48	-1.4E
	16:18	19:36	-2.4E		16:54	13:00	2.7F		15:30	12:18	3.6F		15:42	19:48	3.2F		15:24	19:42	2.8F		15:36	12:54	1.7F
	22:36				23:24	21:00	-3.1E		22:36	19:24	-4.2E		23:06				23:00		-4.5E		23:12	19:54	-3.5E
14 W	03:48	00:42	2.5F	29 Th	05:12	01:42	2.6F	14 Sa	04:54	01:00	4.1F	29 Su	05:54	01:24	3.4F	14 Mo	06:06	01					



The Narrows, North end - midstream, 2021

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2021

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

January						February						March											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots
1 F	01:00	03:36	4.1F	16 Sa	01:36	04:06	3.8F	1 M	01:54	04:42	4.3F	16 Tu	02:12	05:00	3.1F	1 M	00:54	03:30	4.4F	16 Tu	02:12	04:42	3.1F
	08:12	10:54	-2.2E		08:48	11:48	-2.5E		08:42	11:48	-3.1E		08:48	12:06	-2.9E		07:24	10:36	-3.6E		08:18	11:48	-3.3E
	13:54	15:54	1.9F		14:42	16:36	2.0F		14:54	17:06	2.7F		15:30	17:42	2.3F		13:42	16:00	3.4F		15:06	17:24	3.0F
	18:12	22:36	-3.8E		19:36	23:06	-3.4E		20:00	23:36	-3.3E		21:06	23:48	-2.1E		19:12	22:36	-3.5E		21:00	23:48	-2.3E
2 Sa	01:36	04:18	4.2F	17 Su	02:12	04:54	3.6F	2 Tu	02:36	05:30	4.0F	17 W	02:42	05:42	2.7F	2 Tu	01:30	04:12	4.1F	17 W	02:42	05:24	2.7F
	08:48	11:30	-2.3E		09:24	12:24	-2.5E		09:12	12:30	-3.3E		09:12	12:42	-3.0E		07:48	11:18	-3.9E		08:36	12:18	-3.3E
	14:36	16:36	2.0F		15:30	17:24	1.9F		15:48	18:00	2.7F		16:18	18:30	2.3F		14:24	16:48	3.5F		15:42	18:06	3.0F
	19:00	23:18	-3.7E		20:30	23:42	-2.9E		21:06				22:12				20:12	23:18	-2.9E		21:54		
3 Su	02:18	05:06	4.1F	18 M	02:54	05:36	3.3F	3 W	03:18	00:24	-2.6E	18 Th	03:12	00:36	-1.5E	3 W	02:12	05:00	3.7F	18 Th	03:12	00:24	-1.8E
	09:24	12:12	-2.4E		09:54	13:00	-2.5E		09:36	06:12	3.6F		09:30	06:24	2.1F		08:12	11:54	-4.0E		06:00	2.3F	
	15:24	17:30	2.0F		16:24	18:18	1.8F		16:42	19:00	2.7F		17:06	19:24	2.2F		15:12	17:36	3.4F		12:54	2.8F	
	19:54				21:24				22:30				23:24				21:18				18:48		
4 M	03:00	00:00	-3.4E	19 Tu	03:30	06:18	2.9F	4 Th	04:06	01:18	-1.9E	19 F	03:54	01:30	-1.0E	4 Th	03:00	05:48	3.0F	19 F	03:48	01:06	-1.4E
	10:00	13:00	-2.6E		10:30	13:42	-2.5E		10:12	14:06	-3.6E		10:00	14:12	-2.8E		08:48	12:42	-3.9E		09:12	13:36	-3.0E
	16:18	18:24	2.0F		17:18	19:12	1.7F		17:42	20:00	2.7F		18:00	20:18	2.1F		16:06	18:36	3.3F		17:06	19:36	2.6F
	20:54				22:36										22:42				23:48				
5 Tu	03:42	00:48	-2.9E	20 W	04:12	01:12	-1.7E	5 F	00:06	02:24	-1.2E	20 Sa	00:48	02:30	-0.7E	5 F	04:00	01:12	-1.5E	20 Sa	04:42	02:00	-1.1E
	10:36	13:48	-2.9E		11:00	14:18	-2.7E		05:12	08:06	2.4F		05:24	08:12	1.1F		09:30	13:36	-3.6E		07:42	1.3F	
	17:18	19:24	2.1F		18:12	20:12	1.7F		18:42	21:00	-3.6E		18:54	21:18	2.2F		17:06	19:30	3.0F		17:54	2.4F	
	22:18				20:12																20:30		
6 W	04:30	01:42	-2.3E	21 Th	00:00	02:06	-1.2E	6 Sa	01:42	03:42	-0.9E	21 Su	02:00	03:36	-0.6E	6 Sa	00:06	02:24	-1.1E	21 Su	00:54	03:00	-0.9E
	11:12	07:36	3.4F		04:54	08:00	1.9F		06:48	09:06	1.9F		05:24	05:24	-0.4E		05:30	07:42	1.7F		06:36	08:42	0.9F
	18:18	14:42	-3.2E		11:30	15:06	-2.8E		12:00	16:00	-3.5E		12:12	16:00	-2.6E		10:24	14:36	-3.3E		10:54	15:24	-2.4E
		20:24	2.3F		19:00	21:12	1.9F		19:42	22:06	3.0F		19:48	22:12	2.3F		18:12	20:36	2.8F		18:54	21:30	2.3F
7 Th	00:00	02:42	-1.8E	22 F	01:24	03:06	-0.7E	7 Su	03:00	06:30	-1.1E	22 M	03:00	07:00	-0.9E	7 Su	01:36	05:06	-1.1E	22 M	02:06	04:12	-0.9E
	05:30	08:30	3.0F		06:12	08:54	1.5F		08:18	10:18	1.7F		08:42	10:30	1.0F		07:06	08:54	1.4F		08:12	09:54	1.0F
	11:48	15:36	-3.5E		12:12	15:54	-2.9E		13:06	17:00	-3.5E		13:24	17:06	-2.7E		11:54	15:36	-3.0E		12:36	16:24	-2.4E
	19:18	21:30	2.7F		19:48	22:12	2.2F		20:42	23:06	3.2F		20:42	23:06	2.6F		19:18	21:42	2.7F		20:00	22:30	2.4F
8 F	01:30	03:48	-1.3E	23 Sa	02:42	04:12	-0.5E	8 M	04:06	07:30	-1.7E	23 Tu	03:48	07:36	-1.3E	8 M	02:48	06:24	-1.6E	23 Tu	03:06	05:48	-1.0E
	06:42	09:30	2.6F		07:48	09:54	1.3F		09:30	11:24	1.7F		09:36	11:30	1.3F		08:24	10:12	1.4F		09:18	11:00	1.0F
	12:30	16:24	-3.8E		12:54	16:48	-3.0E		14:12	18:12	-3.5E		14:24	18:06	-2.9E		13:18	16:54	-2.9E		14:00	17:24	-2.5E
	20:12	22:30	3.1F		20:36	23:00	2.5F		21:36				21:30	23:54	3.0F		20:18	22:48	2.8F		21:00	23:30	2.6F
9 Sa	03:00	05:18	-1.0E	24 Su	03:42	07:24	-0.8E	9 Tu	05:00	00:00	3.4F	24 W	04:36	08:06	-1.7E	9 Tu	03:42	07:18	-2.2E	24 W	04:00	07:42	-1.5E
	08:12	10:30	2.3F		09:00	10:54	1.2F		10:24	08:24	-2.2E		10:24	12:12	1.7F		09:24	11:30	1.7F		10:06	12:00	1.5F
	13:18	17:24	-3.9E		13:48	17:42	-3.0E		15:18	12:18	2.0F		15:12	19:00	-3.3E		14:24	18:12	-3.0E		15:00	18:30	-2.8E
	21:00	23:24	3.5F		21:18	23:48	2.8F		22:24	19:18	-3.5E		22:12				21:18	23:48	3.0F		21:54		
10 Su	04:12	07:24	-1.3E	25 M	04:36	08:06	-1.2E	10 W	05:42	00:48	3.5F	25 Th	05:18	00:42	3.5F	10 W	04:30	08:00	-2.6E	25 Th	04:48	00:24	3.1F
	09:24	11:30	2.2F		10:00	11:48	1.4F		11:12	09:06	-2.5E		11:00	08:36	-2.1E		10:12	12:18	2.0F		10:48	08:12	-1.9E
	14:12	18:24	-4.0E		14:36	18:36	-3.1E		16:12	13:12	2.2F		15:54	19:48	-3.6E		15:24	19:06	-3.2E		15:48	12:48	2.0F
	21:48				22:00				23:12	20:06	-3.6E		22:54				22:06				22:42	19:24	-3.2E
11 M	05:12	00:18	3.9F	26 Tu	05:12	00:24	3.2F	11 Th	06:24	01:30	3.7F	26 F	05:54	01:24	3.9F	11 Th	05:12	00:36	3.2F	26 F	05:24	01:12	3.6F
	10:30	08:30	-1.8E		10:48	08:42	-1.5E		12:00	09:42	-2.7E		11:36	09:00	-2.4E		11:00	08:42	-2.9E		11:30	08:48	-2.4E
	15:06	12:24	2.2F		15:24	12:36	1.6F		17:06	13:54	2.3F		16:42	13:42	2.5F		16:12	13:00	2.3F		16:36	13:36	2.5F
	22:36	19:18	-4.0E		22:42	19:24	-3.3E		23:54	20:48	-3.7E		23:36	20:30	-3.9E		22:48	19:54	-3.3E		23:24	20:12	-3.5E
12 Tu	06:00	01:06	4.0F	27 W	05:54	01:06	3.5F	12 F	07:00	02:18	3.8F	27 Sa	06:24	02:06	4.2F	12 F	05:48	01:12	3.4F	27 Sa	06:00	01:54	4.0F
	11:24	09:18	-2.2E		11:30	09:06	-1.8E		12:42	10:18	-2.8E		12:18	09:30	-2.8E		11:36	09:18	-3.0E		12:12	09:18	-2.9E
	16:06	13:18	2.2F		16:12	13:18	1.8F		17:54	14:42	2.4F		17:24	14:24	2.9F		17:00	13:42	2.5F		17:30	14:18	3.1F
	23:24	20:12	-4.0E		23:24	20:12	-3.6E			21:24	-3.7E			21:12	-4.0E			23:30	-3.3E			21:00	-3.6E
13 W	06:48	01:48	4.1F	28 Th	06:30	01:48	3.8F	13 Sa	00:30	02:54	3.8F	28 Su	00:12	02:48	4.4F	13 Sa	06:18	01:54	3.5F	28 Su	00:06	02:36	4.2F
	12:18	14:06	2.2F		12:06	14:00	2.1F		07:30	10:48	-2.8E		06:54	10:06	-3.2E		12:18	14:18	2.7F		06:30	09:54	-3.5E
	17:06	21:00	-3.9E		16:48	20:54	-3.8E		13:24	15:24	2.5F		18:12	21:54	-3.9E		17:42	21:06	-3.2E		12:48	15:00	3.5F
									18:36	22:00	-3.5E										18:24	21:48	-3.5E
14 Th	00:06	02:36	4.1F	29 F	00:00	02:30	4.1F	14 Su	01:06	03:36	3.7F					14 Su	00:06	03:30	3.5F	29 M	00:48	03:18	4.2F
	07:30	10:42	-2.6E		07:06	10:00	-2.4E		08:00	11:12	-2.8E						07:42	11:06	-3.1E		06:54	10:30	-3.9E
	13:06	15:0																					



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2021

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

April						May						June					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1 Th	03:00	00:12	-2.4E	03:00	00:06	-1.7E	04:12	01:06	-1.9E	03:54	00:42	-1.7E	00:06	03:36	-2.1E	05:24	02:06
	08:24	05:36	3.0F	07:54	05:36	1.8F	08:42	06:06	1.9F	08:00	06:00	1.3F	06:18	08:00	1.3F	09:30	07:24
	15:42	12:24	-4.3E	15:36	12:18	-3.2E	16:06	12:54	-3.7E	15:42	12:42	-3.0E	11:06	14:18	-2.6E	16:42	13:48
	22:30	18:18	4.0F	22:24	18:18	3.3F	23:30	18:42	3.8F	22:48	18:36	3.4F	17:36	20:12	2.9F	19:48	17:36
2 F	04:00	01:06	-1.9E	03:48	00:54	-1.5E	05:24	02:12	-1.7E	04:54	01:24	-1.6E	01:00	04:42	-2.3E	00:00	02:54
	09:06	06:24	2.4F	08:30	06:18	1.4F	09:54	07:12	1.5F	08:54	06:54	1.2F	07:24	09:12	1.3F	06:24	08:18
	16:36	13:12	-3.9E	16:12	13:06	-2.9E	17:06	13:48	-3.1E	16:24	13:30	-2.8E	12:18	15:18	-2.2E	10:42	14:42
	23:42	19:06	3.6F	23:12	19:00	3.0F		19:42	3.2F	23:42	19:24	3.2F	18:36	21:12	2.6F	17:36	20:42
3 Sa	05:18	02:12	-1.5E	05:00	01:42	-1.3E	06:42	04:06	-1.8E	06:00	02:24	-1.6E	01:48	05:48	-2.6E	00:36	03:48
	10:00	07:24	1.8F	09:12	07:12	1.1F	11:24	08:24	1.2F	09:48	07:48	1.1F	08:24	10:42	1.4F	07:24	09:24
	17:36	14:12	-3.4E	17:00	13:54	-2.6E	18:12	14:48	-2.7E	17:18	14:18	-2.6E	13:36	16:12	-1.9E	12:12	15:36
		20:06	3.2F		19:54	2.8F		20:42	2.8F	17:18	20:18	3.1F	19:36	22:12	2.4F	18:30	21:36
4 Su	00:54	03:54	-1.3E	00:12	02:42	-1.2E	01:42	05:24	-2.1E	00:42	03:24	-1.7E	02:30	06:36	-2.8E	01:12	04:36
	06:48	08:30	1.3F	06:24	08:18	0.9F	07:54	09:48	1.2F	07:06	08:48	1.1F	09:12	11:48	1.8F	08:18	10:24
	11:24	15:12	-2.9E	10:18	14:54	-2.4E	12:48	15:54	-2.4E	11:06	15:12	-2.5E	14:48	17:18	-1.5E	13:48	16:30
	18:42	21:06	2.8F	18:00	20:48	2.6F	19:18	21:48	2.5F	18:18	21:18	3.1F	20:36	23:12	2.3F	19:30	22:30
5 M	02:12	05:54	-1.6E	01:18	03:48	-1.2E	02:36	06:30	-2.4E	01:36	04:24	-1.9E	03:06	07:18	-3.1E	01:48	05:24
	08:06	09:54	1.2F	07:42	09:24	0.9F	08:54	11:24	1.4F	08:06	09:54	1.4F	09:54	12:36	2.2F	09:12	11:24
	13:00	16:24	-2.6E	11:48	15:48	-2.4E	14:06	17:00	-2.2E	12:36	16:12	-2.5E	15:54	18:54	-1.3E	15:12	17:42
	19:54	22:18	2.5F	19:06	21:48	2.6F	20:24	23:00	2.5F	19:18	22:12	3.2F	21:36			20:42	23:24
6 Tu	03:18	07:00	-2.1E	02:24	05:00	-1.4E	03:24	07:18	-2.8E	02:18	05:18	-2.4E	03:30	00:00	2.2F	02:24	06:18
	09:12	11:30	1.4F	08:42	10:30	1.1F	09:48	12:18	1.8F	08:54	10:54	1.8F	10:36	07:48	-3.3E	10:00	12:18
	14:18	17:36	-2.5E	13:24	16:48	-2.5E	15:06	18:12	-2.1E	14:00	17:06	-2.4E	17:00	13:12	2.7F	16:30	19:00
	20:54	23:30	2.6F	20:12	22:48	2.9F	21:18			20:18	23:06	3.3F	22:30	20:24	-1.3E	21:54	
7 W	04:12	07:54	-2.6E	03:12	06:12	-1.8E	04:00	00:00	2.6F	02:54	06:12	-2.9E	04:00	00:36	2.0F	03:06	00:18
	10:06	12:36	1.8F	09:36	11:30	1.6F	10:30	08:00	3.1E	09:42	11:54	2.5F	11:12	08:06	-3.4E	10:42	07:12
	15:24	18:54	-2.6E	14:30	17:48	-2.7E	16:06	13:00	2.2F	15:12	18:06	-2.3E	18:00	13:42	3.1F	17:42	13:12
	21:54			21:12	23:48	3.2F	22:12	19:30	-2.1E	21:18			23:18	21:18	-1.4E	23:00	20:36
8 Th	04:54	00:36	2.8F	03:54	07:06	-2.3E	04:36	00:42	2.6F	03:24	00:00	3.4F	04:24	01:18	1.9F	03:48	01:12
	10:54	08:36	-2.9E	10:18	12:18	-2.8E	11:06	08:36	-3.6E	10:30	07:00	-3.5E	11:48	08:36	-3.6E	11:30	08:06
	16:18	13:12	2.2F	15:24	18:42	-2.8E	17:00	13:30	2.3F	16:24	12:42	3.3F	18:48	14:12	3.4F	18:42	14:00
	22:42	19:54	-2.7E	22:00			22:54	20:18	-2.0E	22:18	19:18	-2.1E		22:00	-1.4E	21:48	21:48
9 F	05:30	01:12	2.9F	04:24	00:36	3.6F	05:00	01:18	2.6F	03:54	00:48	3.4F	00:06	02:00	1.8F	00:06	02:06
	11:36	09:12	-3.1E	11:00	07:54	-2.9E	11:42	09:06	-3.4E	11:12	07:48	-4.1E	04:48	09:06	-3.6E	04:42	09:00
	17:06	13:48	2.5F	16:24	13:06	2.9F	17:54	14:06	3.0F	17:30	13:36	4.0F	12:24	14:48	3.6F	12:18	14:48
	23:24	20:36	-2.8E	22:48	19:42	-2.9E	23:42	21:06	-1.9E	23:12	20:24	-2.1E	19:30	22:30	-1.5E	19:36	22:42
10 Sa	06:00	01:48	3.1F	04:54	00:36	3.8F	05:18	01:48	2.5F	04:30	01:36	3.3F	00:48	02:42	1.7F	01:00	03:00
	12:12	09:48	-3.3E	11:42	08:30	-3.5E	12:18	09:18	-3.6E	11:54	08:36	-4.5E	05:18	09:42	-3.6E	05:36	09:54
	17:54	14:24	2.8F	17:24	13:54	3.6F	18:48	14:36	3.3F	18:36	14:18	4.5F	12:54	15:24	3.7F	13:06	15:30
		21:12	-2.7E	23:36	20:36	-2.9E		21:42	-1.8E		21:30	-2.1E	20:06	22:48	-1.6E	20:24	23:30
11 Su	00:06	02:24	3.1F	05:24	02:06	3.9F	00:18	02:24	2.4F	00:12	02:24	3.1F	01:36	03:24	1.7F	01:54	03:48
	06:24	10:06	-3.4E	09:12	14:42	-4.1F	05:36	09:42	-3.7E	05:06	09:24	-4.7E	05:54	10:18	-3.6E	06:36	10:42
	12:48	15:00	3.0F	12:18	14:42	4.1F	12:48	15:12	3.6F	12:36	15:06	4.8F	13:30	16:00	3.8F	13:48	16:18
	18:42	21:42	-2.5E	18:30	21:36	-2.8E	19:36	22:18	-1.7E	19:36	22:30	-2.2E	20:42	23:18	-1.8E	21:06	
12 M	00:42	02:54	3.0F	00:24	02:48	3.7F	01:00	03:06	2.2F	01:06	03:12	2.8F	02:12	04:06	1.6F	02:48	00:12
	06:42	10:24	-3.5E	05:54	09:54	-4.5E	05:54	10:06	-3.7E	05:48	10:06	-4.7E	06:30	11:00	-3.5E	07:36	04:42
	13:24	15:36	3.3F	13:00	15:30	4.5F	13:24	15:48	3.7F	13:24	15:54	4.8F	14:06	16:42	3.8F	14:36	11:30
	19:30	22:18	-2.3E	19:30	22:30	-2.6E	20:18	22:48	-1.7E	20:30	23:24	-2.3E	21:12	23:54	-1.9E	21:54	17:06
13 Tu	01:18	03:36	2.8F	01:12	03:36	3.4F	01:42	03:42	2.0F	02:00	04:06	2.5F	03:00	04:54	1.6F	03:42	00:54
	06:54	10:42	-3.6E	06:24	10:36	-4.7E	06:18	10:42	-3.6E	06:42	10:54	-4.5E	07:12	11:36	-3.4E	08:36	05:36
	13:54	16:12	3.4F	13:42	16:12	4.7F	13:54	16:24	3.8F	14:06	16:42	4.6F	14:42	17:24	3.8F	15:24	12:12
	20:18	22:54	-2.1E	20:30	23:18	-2.4E	20:54	23:24	-1.7E	21:24			21:54			22:36	18:00
14 W	01:48	04:12	2.5F	02:06	04:24	2.9F	02:18	04:24	1.8F	03:00	00:12	-2.2E	03:42	00:30	-1.9E	04:42	01:48
	07:12	11:12	-3.6E	07:06	11:18	-4.6E	06:48	11:18	-3.5E	07:36	05:00	2.2F	07:54	05:42	-1.6F	09:36	06:30
	14:24	16:54	3.5F	14:30	17:00	4.6F	14:24	17:06	3.7F	14:54	11:42	-4.1E	15:18	12:18	-3.3E	16:12	12:54
	21:00	23:30	-1.9E	21:30			21:30			22:12	17:30	4.2F	22:30	18:12	3.7F	23:24	18:48
15 Th	02:24	04:48	2.2F	03:06	00:12	-2.2E	03:06	00:00	-1.7E	04:06	01:12	-2.2E	04:30	01:12	-1.9E	05:42	02:42
	07:24	11:42	-3.5E	07:48	05:12	-2.4F	07:24	05:12	-1.6F	08:42	05:54	-1.8F	08:36	06:30	-1.5F	10:36	07:30
	15:00	17:36	3.4F	15:18	12:00	4.2F	15:00	11:54	-3.2E	15:48	18:24	-3.6E	16:00	13:00	-3.1E	16:54	13:42
	21:42			22:24	17:54	4.2F	22:06	17:48	3.5F	23:06			23:18	19:00	3.7F	19:36	19:36
										31 M	05:12	02:18	-2.1E				
											09:54	06:54	1.5F				
											16:42	13:24	-3.1E				
												19:12	3.3F				

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:27:37 UTC 2019

Page 3 of 6



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2021

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	00:06	03:36	-2.4E	02:18	-2.9E	1	00:06	03:42	-2.8E	16	07:00	03:24	-3.6E	01:36	05:12	-2.9E	01:36
Th	06:42	08:30	1.5F	07:54	2.1F	Su	07:36	09:48	2.0F	M	09:24	09:24	2.9F	08:48	11:12	2.8F	08:48
o	11:48	14:30	-2.1E	10:36	-2.4E		14:06	15:48	-0.7E		13:54	16:00	-1.0E	16:06	19:48	-2.0E	16:06
	17:48	20:30	2.7F	16:54	20:06	3.4F	19:06	21:30	1.4F		19:00	21:36	1.9F	21:54	23:54	1.7F	21:54
				23:36													
2	00:48	04:30	-2.6E	03:06	-3.2E	2	00:48	04:30	-2.8E	17	00:12	04:18	-3.5E	02:54	06:30	-3.0E	02:54
F	07:36	09:36	1.5F	08:54	2.3F		08:30	10:48	2.1F		08:06	10:30	3.0F	09:48	12:18	2.9F	09:48
	13:06	15:24	-1.5E	12:12	-1.8E	M	15:30	17:00	-0.5E	Tu	15:24	18:24	-0.9E	17:00	20:36	-2.5E	17:00
	18:42	21:24	2.2F	17:48	21:00	3.0F	20:42	22:36	1.1F		20:42	22:42	1.7F	22:48			22:48
3	01:24	05:12	-2.7E	04:00	-3.5E	3	01:36	05:24	-2.8E	18	01:24	05:24	-3.4E	04:00	00:54	2.1F	04:00
Sa	08:30	10:48	1.8F	07:42	2.6F	Tu	09:18	11:48	2.4F		09:06	11:30	3.1F	10:42	07:36	-3.1E	10:42
	14:30	16:30	-1.0E	13:48	-1.3E		16:36	20:18	-0.9E	W	16:30	20:00	-1.4E	17:42	13:06	3.2F	17:42
	19:54	22:18	1.9F	18:54	22:00	2.5F	21:54	23:36	1.0F		21:54	23:54	1.7F	23:30	21:18	-2.9E	23:30
4	02:00	05:48	-2.9E	04:48	-3.7E	4	02:36	06:24	-2.9E	19	02:42	06:36	-3.4E	04:54	01:42	2.4F	04:54
Su	09:18	11:54	2.2F	08:36	3.0F		10:06	12:36	2.6F		10:06	12:30	3.3F	11:30	08:30	-3.3E	11:30
	15:48	17:54	-0.7E	15:18	-1.0E	W	17:24	21:00	-1.3E	Th	17:24	20:54	-2.0E	18:18	13:54	3.4F	18:18
	21:00	23:12	1.6F	20:30	23:00	2.2F	22:48				22:54			21:54	21:54	-3.1E	
5	02:30	06:30	-3.1E	05:48	-3.8E	5	03:30	00:36	1.2F	20	03:48	00:54	2.0F	00:18	02:24	2.7F	00:18
M	10:00	12:36	2.6F	09:30	11:54	3.4F	10:48	07:24	-3.0E		11:00	07:42	-3.5E	05:42	09:12	-3.3E	05:42
	17:00	20:30	-0.9E	16:36	19:42	-1.1E	18:06	13:12	2.9F	F	18:12	13:24	3.5F	12:06	14:30	3.5F	12:06
	22:06			21:54			23:36	21:36	-1.6E		23:48	21:42	-2.4E	18:48	22:24	-3.3E	18:48
6	03:06	00:06	1.4F	00:00	2.1F	6	04:24	01:24	1.5F	21	04:54	01:48	2.3F	00:54	03:00	2.9F	00:54
Tu	07:12	-3.2E		06:48	-3.9E		11:30	08:12	-3.2E		11:48	08:42	-3.7E	06:30	09:48	-3.2E	06:30
	10:42	13:12	2.9F	10:24	12:48	3.8F	18:42	13:54	3.2F	Sa	18:54	14:12	3.7F	12:48	15:06	3.5F	12:48
	17:54	21:18	-1.2E	17:42	21:00	-1.6E		22:00	-1.8E			22:18	-2.8E	19:18	22:54	-3.4E	19:18
7	03:42	00:54	1.4F	01:00	2.2F	7	00:18	02:06	1.8F	22	00:36	02:36	2.5F	01:36	03:42	3.0F	01:36
W	07:54	-3.3E		07:48	-4.0E		05:12	09:00	-3.4E		05:48	09:30	-3.8E	06:12	10:24	-2.9E	06:12
	11:18	13:42	3.2F	11:12	13:42	4.0F	12:12	14:30	3.5F	Su	12:30	14:54	3.8F	12:54	15:48	3.4F	12:54
	18:36	22:00	-1.4E	18:36	21:54	-2.0E	19:18	22:24	-2.1E	O	19:36	22:54	-3.0E	19:30	23:12	-3.4E	19:30
8	04:30	01:42	1.5F	00:00	2.3F	8	00:54	02:48	2.0F	23	01:18	03:18	2.7F	01:36	04:24	3.2F	01:36
Th	08:36	-3.4E		04:42	-4.1E		05:48	09:42	-3.6E		06:36	10:06	-3.7E	07:00	11:00	-2.6E	07:00
	11:54	14:18	3.4F	12:00	14:30	4.1F	12:48	15:12	3.8F	M	13:12	15:36	3.9F	13:30	16:24	3.1F	13:30
	19:12	22:30	-1.6E	19:18	22:36	-2.4E	19:48	22:48	-2.4E		20:06	23:30	-3.1E	19:54	23:36	-3.5E	20:00
9	00:36	02:24	1.6F	00:48	2.4F	9	01:30	03:30	2.3F	24	02:00	04:06	2.7F	02:18	05:06	3.2F	02:18
F	05:12	09:18	-3.5E	05:42	-4.1E		06:24	10:18	-3.8E		07:18	10:48	-3.6E	07:48	11:36	-2.3E	07:48
	12:30	14:54	3.6F	12:48	15:12	4.2F	13:24	15:54	4.1F	Tu	13:48	16:18	3.8F	14:06	17:06	2.6F	14:06
	19:48	22:48	-1.8E	20:06	23:18	-2.7E	20:24	23:18	-2.6E		20:36	23:54	-3.1E	20:18	23:48	-3.9E	20:12
10	01:18	03:06	1.7F	01:42	2.4F	10	02:06	04:12	2.4F	25	02:42	04:48	2.7F	03:00	00:00	-3.4E	03:00
Sa	05:54	10:00	-3.6E	06:42	-4.1E		07:00	10:54	-3.9E		08:06	11:24	-3.2E	08:48	05:48	3.2F	08:48
	13:06	15:36	3.8F	13:30	16:00	4.1F	13:54	16:36	4.3F	W	14:24	17:00	3.6F	14:48	12:12	-1.8E	14:48
	20:18	23:12	-2.0E	20:42	23:54	-2.8E	20:48	23:48	-2.9E		21:06			20:42	17:48	2.1F	20:30
11	01:54	03:48	1.8F	02:30	2.4F	11	02:48	04:54	2.6F	26	03:24	00:18	-3.1E	03:42	00:36	-3.3E	03:42
Su	06:30	10:42	-3.7E	07:30	-3.9E		07:42	11:30	-3.7E		08:54	05:36	2.7F	09:48	06:30	3.0F	09:48
	13:42	16:18	3.9F	14:18	16:48	4.0F	14:30	17:18	4.3F	Th	15:00	12:00	-2.8E	15:30	12:54	-1.5E	15:30
	20:54	23:42	-2.2E	21:24			21:18				21:30	17:36	3.2F	21:12	18:30	1.6F	20:54
12	02:36	04:36	1.9F	03:18	-2.8E	12	03:30	00:24	-3.1E	27	04:12	00:48	-3.1E	04:30	01:18	-3.0E	04:30
M	07:06	11:18	-3.7E	05:12	2.3F		08:30	05:42	2.7F		09:54	06:18	2.6F	11:00	07:18	2.8F	11:00
	14:18	17:00	4.0F	08:18	-3.6E	Th	14:54	12:12	-3.3E	F	15:36	12:36	-2.2E	16:30	13:48	-1.1E	16:30
	21:30			14:54	17:30	3.8F	21:42	18:00	4.0F		21:48	18:18	2.7F	21:48	16:54	1.2F	21:30
13	03:18	00:12	-2.3E	04:06	-2.8E	13	04:18	01:00	-3.4E	28	04:54	01:18	-3.1E	05:24	02:06	-2.6E	05:24
Tu	07:42	11:54	-3.6E	06:06	2.1F		09:36	06:36	2.8F		10:54	07:06	2.5F	12:24	08:12	2.5F	12:24
	14:54	17:48	4.1F	09:12	-3.1E	F	15:36	13:00	-2.7E	Sa	16:12	13:18	-1.6E	17:48	14:42	-0.9E	17:48
	22:00			15:36	18:18	3.5F	22:06	18:48	3.6F		22:06	19:06	2.1F	22:42	20:24	0.8F	22:30
14	04:00	00:54	-2.5E	05:00	-2.7E	14	05:06	01:42	-3.5E	29	05:42	02:00	-2.9E	06:30	03:06	-2.3E	06:30
W	08:30	06:06	2.0F	06:54	2.0F		10:48	07:30	2.9F		12:06	08:00	2.4F	13:48	09:06	2.3F	13:48
	15:36	12:36	-3.4E	10:06	-2.5E	Sa	16:30	13:48	-2.0E		17:00	14:12	-1.1E	19:24	15:54	-0.9E	19:24
	22:36			16:12	19:00	3.0F	22:36	19:36	3.0F	Su	22:36	19:54	1.5F	21:24	21:36	0.7F	20:00
15	04:54	01:36	-2.6E	05:48	-2.7E	15	06:00	02:30	-3.6E	30	06:36	02:48	-2.7E	00:06	04:06	-2.2E	00:06
Th	09:24	06:54	2.0F	07:48	1.9F		12:18	08:24	2.9F		13:30	08:54	2.2F	07:42	10:06	2.2F	07:42
	16:12	13:18	-3.0E	13:54	-1.8E	Su	17:30	14:48	-1.4E		18:42	15:12	-0.7E	15:06	18:06	-1.1E	15:06
	23:06			16:54	19:48	2.5F	23:18	20:30	2.4F	O	23:24	20:54	1.0F	20:48	22:42	0.9F	21:06
				23:36													
31	06:42	03:00	-2.7E	08:48	1.9F		06:42	03:00	-2.7E	31	07:30	03:42	-2.6E				
o	12:36	14:42	-1.2E	14:42	-1.2E		12:36	14:42	-1.2E		14:42	09:54	2.1F				
	17:42	20:36	1.9F	17:42	20:36	1.9F						17:48	-0.5E				
												18:54	-0.5E				

***** See extra table for the remaining currents on this day.

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:27:37 UTC 2019

Page 4 of 6



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2021

Latitude: 47.3060° N Longitude: 122.5500° W

Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	01:54	05:06	-2.3E	02:54	06:12	-2.6E	03:12	06:18	-2.5E	03:42	07:06	-1.9E	03:00	05:42	-1.9E	04:48	00:30
F	08:42	11:06	2.4F	09:24	11:54	2.8F	09:36	12:12	3.3F	09:30	11:54	2.6F	08:48	11:24	3.1F	10:06	08:12
	15:42	19:36	-1.5E	16:18	20:06	-2.9E	16:00	19:24	-2.9E	15:30	19:42	-3.5E	14:24	18:18	-3.9E	15:06	12:06
	21:54	23:48	1.3F	22:30			22:42			22:24			21:48			22:30	19:18
2	02:54	06:06	-2.5E	03:54	07:18	-2.2F	04:06	07:12	-2.6F	04:42	08:00	-1.8E	04:06	06:54	-1.8E	05:42	01:00
Sa	09:36	12:06	2.8F	10:12	12:42	3.0F	10:24	13:00	3.6F	10:18	12:30	2.4F	09:48	12:12	3.0F	10:54	09:00
	16:24	20:06	-1.9E	17:00	20:48	-3.2E	16:30	20:06	-3.4E	15:54	20:06	-3.6E	15:00	19:06	-4.3E	15:30	12:48
	22:36			23:12			23:18			23:00			22:30			23:06	19:48
3	03:42	00:36	1.8F	04:48	01:30	2.5F	05:06	08:12	3.3F	05:36	01:18	3.3F	05:12	00:54	4.3F	06:24	01:30
Su	10:24	12:54	-2.8E	11:00	13:24	-2.6E	11:12	13:42	-2.6E	11:06	13:06	-1.7E	10:48	08:06	-1.9E	11:42	09:36
	17:06	20:30	3.3F	17:30	21:24	3.1F	16:54	20:48	-4.0E	16:18	20:24	-3.6E	15:36	19:54	-4.6E	16:06	13:30
	23:18		-2.4E	23:54		-3.4E				23:36			23:12			23:42	20:24
4	04:30	01:18	2.3F	05:36	02:06	2.8F	06:06	09:12	4.0F	06:24	01:54	3.6F	06:12	01:42	4.7F	07:00	02:06
M	11:06	07:54	-3.1E	11:42	08:54	-2.5E	12:00	14:24	-2.5E	11:48	09:18	-1.7E	11:42	09:06	-2.1E	12:24	10:00
	17:36	21:00	3.7F	17:54	14:00	3.1F	17:24	21:24	-4.4E	16:36	13:48	-2.0F	16:18	13:48	2.7F	16:48	14:12
	23:54		-2.9E		21:48	-3.5E				16:36	20:54	-3.7E	23:54	20:42	-4.7E	21:06	21:06
5	05:12	02:00	2.9F	06:30	02:42	3.1F	07:06	10:06	4.5F	07:06	02:30	3.8F	07:06	02:30	4.9F	00:18	02:42
Tu	11:48	08:42	-3.2E	06:30	09:36	-2.4E	12:48	15:12	-2.5E	12:36	09:48	-1.6E	12:36	10:00	-2.2E	07:30	10:18
	18:06	21:30	4.0F	18:18	14:36	2.9F	17:54	22:06	-4.6E	17:00	14:30	1.8F	17:12	14:42	2.5F	13:06	14:54
			-3.4E		22:12	-3.6E					21:24	-3.6E		21:30	-4.6E	17:30	21:42
6	06:06	02:42	3.4F	07:18	03:18	3.4F	08:06	11:00	4.8F	08:36	03:12	3.8F	08:42	03:18	4.8F	00:54	03:24
W	12:24	09:30	-3.2E	13:00	10:12	-2.2E	13:42	16:00	-2.4E	13:18	10:18	-1.6E	13:36	10:54	-2.3E	08:06	10:42
•	18:30	22:06	4.0F	18:36	15:12	2.7F	18:36	22:54	2.9F	17:30	15:12	1.6F	18:12	15:36	2.3F	13:42	15:36
			-3.9E		22:30	-3.6E			-4.6E		22:00	-3.5E		22:24	-4.3E	18:06	22:24
7	01:06	03:24	3.9F	01:36	04:00	3.6F	01:00	03:36	4.8F	01:12	03:48	3.7F	01:30	04:06	4.5F	01:30	04:06
Th	07:00	10:12	-3.1E	08:06	10:48	-2.0E	08:06	10:48	-2.2E	08:24	10:48	-1.7E	08:48	11:42	-2.3E	08:36	11:18
	13:06	15:36	3.8F	13:42	15:54	2.4F	13:36	15:48	2.5F	14:00	15:54	1.5F	14:30	16:30	2.1F	14:24	16:24
	18:54	22:42	-4.2E	18:48	22:54	-3.6E	18:18	22:36	-4.4E	18:12	22:42	-3.3E	19:18	23:12	-4.0E	18:48	23:00
8	01:48	04:12	4.2F	02:06	04:36	3.7F	01:48	04:30	4.5F	01:48	04:30	3.5F	02:24	04:54	4.1F	02:06	04:48
F	08:00	11:00	-2.8E	08:54	11:24	-1.8E	09:00	11:42	-2.1E	09:00	11:30	-1.7E	09:42	12:36	-2.3E	09:12	11:54
	13:54	16:24	3.5F	14:18	16:36	2.0F	14:42	16:42	2.1F	14:48	16:42	1.4F	15:36	17:30	1.9F	15:12	17:12
	19:18	23:18	-4.4E	19:06	23:24	-3.5E	19:12	23:24	-4.0E	18:54	23:24	-3.0E	20:24			19:24	23:42
9	02:30	05:00	4.4F	02:42	05:18	3.6F	02:42	05:18	4.1F	02:24	05:18	3.4F	03:12	00:00	-3.5E	02:42	05:36
Sa	09:00	11:48	-2.5E	09:36	12:00	-1.6E	10:00	12:42	-1.9E	09:36	12:12	-1.6E	10:30	05:48	3.6F	09:54	12:42
	14:36	17:06	3.0F	15:00	17:18	1.7F	15:48	17:42	1.7F	15:42	17:36	1.2F	16:42	13:48	-2.3E	16:06	18:00
	19:48			19:36			20:24			19:42			21:36	18:30	1.6F	20:12	
10	03:12	00:00	-4.3E	03:18	00:06	-3.3E	03:36	00:18	-3.5E	03:12	00:12	-2.8E	04:06	00:54	-2.9E	03:18	00:24
Su	10:00	05:48	4.3F	10:18	06:00	3.4F	11:00	06:12	3.6F	10:24	06:06	3.2F	11:24	06:42	3.2F	10:30	06:24
	15:36	18:00	-2.0E	15:54	18:06	-1.5E	17:00	14:06	-1.8E	16:42	13:06	-1.6E	17:48	15:00	-2.4E	17:00	13:30
	20:30		2.5F	20:12		1.4F	21:48	18:48	1.5F	20:36	18:30	1.1F	22:48	19:36	1.5F	21:12	18:54
11	04:00	00:48	-4.0E	03:54	00:48	-3.0E	04:36	01:18	-3.0E	03:54	01:00	-2.6E	05:06	01:48	-2.4E	04:00	01:12
M	11:06	06:42	4.0F	11:00	06:42	3.1F	12:00	07:12	3.1F	11:18	06:54	3.1F	12:18	07:42	2.9F	11:12	07:12
	16:42	18:54	-1.7E	16:54	13:24	-1.3E	18:12	15:42	-2.0E	17:42	14:00	-1.7E	18:54	16:06	-2.6E	17:54	14:18
	21:24		1.9F	21:00	19:00	1.1F	23:12	20:00	1.3F	21:42	19:30	1.1F		20:54	1.5F	22:36	19:54
12	05:00	01:36	-3.6E	04:42	01:36	-2.6E	05:42	02:24	-2.6E	04:48	01:48	-2.5E	06:06	02:42	-1.9E	04:48	02:06
Tu	12:18	07:36	3.5F	11:54	07:30	2.8F	13:00	08:18	2.8F	12:06	07:48	3.0F	06:06	08:42	2.6F	11:42	08:06
	18:06	14:54	-1.4E	18:12	14:24	-1.2E	19:18	16:54	-2.4E	18:42	14:54	-2.0E	13:00	17:00	-2.9E	18:48	15:06
	22:36	20:00	1.5F	22:00	20:00	0.9F		21:24	1.4F	23:06	20:30	1.2F	19:48	22:12	1.7F		20:54
13	06:06	02:42	-3.1E	05:42	02:30	-2.4E	06:30	03:24	-2.3E	05:42	02:42	-2.3E	01:24	03:48	-1.5E	00:12	03:00
W	13:30	08:36	3.0F	13:00	08:30	2.6F	13:54	09:18	2.6F	12:48	08:48	3.1F	07:06	09:36	2.4F	05:48	09:00
•	19:30	17:06	-1.5E	19:24	15:24	-1.3E	20:18	17:48	-2.8E	19:36	15:54	-2.4E	13:36	17:48	-3.1E	12:18	15:54
		21:12	1.3F	23:36	21:00	0.9F		22:48	1.8F		21:30	1.6F	20:36	23:12	2.2F	19:42	21:54
14	00:18	03:48	-2.8E	06:42	03:30	-2.3E	01:42	04:36	-2.1E	00:36	03:36	-2.2E	02:36	05:24	-1.2E	01:42	04:06
Th	07:12	09:42	2.7F	14:00	09:24	2.5F	07:48	10:24	2.6F	06:42	09:42	3.1F	08:12	10:30	2.1F	07:00	09:54
	14:36	18:24	-2.0E	14:00	16:36	-1.5E	14:30	18:36	-3.2E	13:24	16:42	-2.9E	14:06	18:24	-3.3E	12:54	16:48
	20:42	22:36	1.4F	20:24	22:06	1.0F	21:06	23:36	2.2F	20:24	22:24	2.2F	21:18	23:54	2.6F	20:30	22:48
15	01:42	05:00	-2.6E	01:06	04:24	-2.3E	02:42	05:54	-1.9E	01:48	04:36	-2.0E	03:48	07:18	-1.2E	03:00	05:18
F	08:24	10:48	2.6F	07:48	10:24	2.7F	08:42	11:12	2.6F	07:42	10:36	3.2F	09:12	11:18	1.9F	08:24	10:54
	15:36	19:18	-2.5E	14:48	17:42	-1.8E	15:06	19:12	-3.4E	13:54	17:30	-3.4E	14:36	18:54	-3.4E	13:36	17:36
	21:36	23:54	1.8F	21:18	23:06	1.4F	21:48			21:06	23:18	3.0F	21:54			21:18	23:42
16	02:12	05:18	-2.4E	02:12	05:18	-2.4E	08:42	11:24	3.0F	09:36	11:48	2.5F	04:12	06:54	-1.4E	09:36	11:48
Su	15:30	18:42	3.0F	15:30	18:42	-2.3E				14:18	18:36	-4.3E	14:18	18:36	-4.3E	14:18	18:36
	22:00			22:00						22:06			22:06			22:06	

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:27:37 UTC 2019

Page 5 of 6



Station ID: PUG1524 Depth: 40 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

The Narrows, North end - midstream, 2021

Latitude: 47.3060° N Longitude: 122.5500° W
Mean Flood Dir. 145° (T) Mean Ebb Dir. 337° (T)

Times and speeds of maximum and minimum current, in knots

EXTRA CURRENTS

August

Slack	Maximum
h m	h m knots
20:24	22:00 0.8F

31
Tu



Admiralty Inlet (off Bush Point), 2019

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
 2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).
-

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2019

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

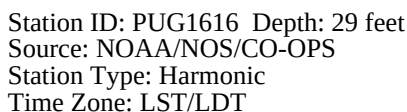
Times and speeds of maximum and minimum current, in knots

January						February						March					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	01:48	04:54	-1.4E	00:54	04:12	-1.1E	03:36	07:24	-1.5E	16	02:30	06:00	-1.5E	02:00	05:42	-1.4E	02:00
Tu	08:06	10:42	1.3F	07:36	09:48	0.6F	10:42	12:30	0.7F	F	10:06	11:30	0.4F	10:30	11:30	0.1F	10:30
	12:54	17:12	-3.6E	11:42	16:24	-3.2E	14:00	18:12	-3.4E	Sa	12:54	17:42	-3.7E	12:24	17:24	-3.1E	12:24
	21:06	23:42	2.0F	20:06	22:48	2.0F	21:48				21:06	23:54	3.0F	20:48	23:36	2.6F	20:48
2	02:54	06:00	-1.4E	02:00	05:12	-1.2E	04:12	08:36	2.4F	17	03:24	06:54	-1.8E	03:06	06:48	-1.7E	03:06
W	09:18	11:36	1.2F	09:00	10:42	0.5F	11:36	13:18	0.7F	Su	10:42	12:24	0.7F	10:54	12:30	0.5F	10:54
	13:36	17:54	-3.8E	12:24	17:12	-3.5E	14:48	19:00	-3.4E		14:06	18:30	-4.0E	13:48	18:24	-3.4E	13:48
	21:42			20:48	23:36	2.6F	22:24				21:54			21:24			21:42
3	03:48	07:06	2.3F	03:00	06:12	-1.4E	04:42	01:12	2.5F	18	04:12	00:48	3.3F	03:54	00:36	2.9F	03:54
Th	10:18	12:30	-1.5E	10:00	11:36	0.5F	12:18	08:36	-1.8E	M	11:18	07:42	-2.1E	11:18	07:36	-2.1E	11:18
	14:18	18:36	-3.8E	13:12	18:00	-3.8E	15:30	19:42	-3.4E		15:06	19:24	-4.2E	15:12	19:18	-3.6E	15:12
	22:12			21:30			23:00				22:48			22:36			22:36
4	04:30	07:54	2.6F	03:54	07:12	3.1F	05:12	09:00	2.6F	19	05:00	08:24	3.5F	04:42	08:24	3.1F	04:42
F	11:24	13:18	-1.6E	10:48	12:30	-1.6E	12:54	14:36	-1.9E	M	11:54	14:06	-2.4E	11:54	14:06	-2.5E	11:54
	15:00	19:18	-3.8E	14:06	18:48	-4.1E	16:12	20:18	-3.3E	Tu	16:06	20:12	-4.2E	16:12	20:12	-3.8E	16:12
	22:48			22:12			23:36			O	23:36			23:30			23:30
5	05:06	08:42	2.8F	04:42	07:54	3.5F	05:48	09:24	2.7F	20	05:42	09:06	3.5F	05:24	09:00	3.1F	05:24
Sa	12:18	14:06	-1.9E	11:30	13:18	-1.8E	13:30	15:12	-2.0E	W	12:36	14:54	-2.7E	12:30	14:54	-2.9E	12:30
	15:42	20:00	-3.7E	15:00	19:36	-4.3E	16:48	21:00	-3.2E		17:06	21:00	-4.1E	17:12	21:00	-3.8E	17:12
	23:18			23:00													
6	05:42	09:12	2.9F	05:24	08:42	3.7F	06:12	03:06	2.6F	21	06:24	09:48	3.4F	06:06	09:42	3.1F	06:06
Su	13:18	14:54	-1.9E	12:18	14:12	-2.1E	14:00	15:42	-2.1E	Th	13:24	15:42	-2.9E	13:06	15:36	-3.2E	13:06
●	16:18	20:36	0.5F	16:00	20:24	0.9F	17:24	21:36	0.6F		18:06	21:48	1.9F	18:12	21:48	2.2F	18:12
	23:54		-3.5E	23:48		-4.4E			-3.0E	W			-3.7E			-3.6E	
7	06:12	09:48	3.0F	06:12	09:30	3.8F	00:54	03:42	2.6F	22	01:12	04:00	3.1F	01:06	03:48	2.9F	01:06
M	14:12	15:36	-1.9E	13:06	15:06	-2.2E	14:30	16:12	-2.2E	F	07:00	10:36	-3.1E	06:42	10:24	-3.5E	06:42
	16:54	21:18	0.4F	17:00	21:12	1.1F	18:06	22:06	0.7F		14:12	16:30	2.0F	13:48	16:24	2.5F	13:48
			-3.3E			-4.3E			-2.8E		19:00	22:42	-3.2E	19:06	22:36	-3.3E	
8	00:36	03:30	2.9F	00:42	03:30	3.7F	01:30	04:18	2.4F	23	02:00	04:48	2.6F	01:54	04:36	2.6F	01:54
Tu	06:54	10:24	-1.9E	06:54	10:18	-2.4E	07:18	10:54	-2.3E	F	07:36	11:24	-3.2E	07:18	11:00	-3.6E	07:18
	15:00	16:12	0.3F	13:54	15:54	1.2F	15:00	16:48	0.8F	Sa	15:00	17:24	1.9F	14:36	17:12	2.6F	14:36
	17:24	21:54	-3.1E	18:00	22:06	-4.0E	18:42	22:42	-2.5E		20:00	23:30	-2.5E	20:00	23:18	-2.8E	
9	01:12	04:06	2.8F	01:30	04:24	3.4F	02:06	04:54	2.1F	24	02:54	05:30	2.1F	02:48	05:18	2.1F	02:48
W	07:30	11:06	-1.9E	07:36	11:06	-2.6E	07:48	11:36	-2.4E	Su	08:18	12:18	-3.3E	07:54	11:48	-3.6E	07:54
	15:48	16:48	0.2F	14:48	16:48	1.3F	15:30	17:24	0.9F		15:54	18:18	1.8F	15:24	18:00	2.5F	15:24
	17:48	22:36	-2.8E	19:00	23:00	-3.4E	19:30	23:12	-2.1E		21:00			20:54			20:54
10	01:54	04:48	2.6F	02:18	05:12	3.0F	02:48	05:30	1.8F	25	03:54	00:36	-1.9E	03:42	00:12	-2.2E	03:42
Th	08:06	11:48	-1.9E	08:18	12:00	-2.7E	08:18	12:18	-2.5E	M	06:24	06:24	1.5F	06:06	06:06	1.5F	06:06
	16:36	17:24	0.1F	15:42	17:48	1.3F	16:12	18:12	1.0F		13:12	-3.2E	1.7F	12:36	12:36	-3.5E	12:36
	18:18	23:18	-2.5E	20:00	23:54	-2.8E	20:24	23:54	-1.7E	Su	16:54	19:18	-3.2E	16:12	18:48	2.4F	16:12
11	02:36	05:30	2.3F	03:12	06:00	2.5F	03:30	06:12	1.3F	26	05:12	01:48	-1.4E	04:54	01:12	-1.7E	04:54
F	08:42	12:30	-1.9E	09:00	13:00	-2.9E	08:42	13:06	-2.6E	Tu	09:36	07:24	0.8F	09:00	07:00	0.9F	09:00
	17:18	18:06	0.1F	16:42	18:48	1.3F	16:54	19:00	1.1F	●	17:54	14:12	-3.1E	17:00	13:30	-3.2E	17:00
	19:06			21:12			21:36				23:42	20:24	1.6F	22:48	19:36	2.1F	22:48
12	03:18	06:12	-2.1E	04:06	06:48	-2.2E	04:24	00:48	-1.4E	27	07:06	03:12	-1.1E	06:42	02:30	-1.4E	06:42
Sa	09:18	13:18	1.9F	09:42	13:54	1.9F	09:12	06:54	0.9F	W	10:30	09:00	0.4F	09:36	08:06	0.3F	09:36
	17:48	18:54	-2.0E	17:48	20:00	-3.1E	17:42	14:00	-2.7E		18:48	15:12	-3.0E	17:54	14:30	-2.9E	17:54
	20:12		0.2F	22:36		1.2F	23:00	20:00	1.4F			21:36	1.6F		20:30	1.9F	
13	04:06	00:54	-1.7E	05:12	02:06	-1.6E	05:42	01:54	-1.1E	28	01:06	05:12	-1.2E	05:00	04:06	-1.2E	05:00
Su	09:48	06:54	1.5F	10:30	07:54	1.4F	09:42	07:48	0.5F	Th	09:06	10:30	0.3F	09:54	15:30	-2.6E	09:54
	18:24	14:06	-2.2E	18:48	14:54	-3.2E	18:30	14:54	-2.9E		11:42	16:06	-2.9E	19:00	21:36	1.7F	19:00
	21:54	19:54	0.4F		21:18	1.4F		21:06	1.7F		19:48	22:36	1.8F				
14	05:00	01:48	-1.4E	00:12	03:24	-1.2E	00:18	03:30	-1.1E	29	07:12	02:30	-1.2E	01:18	06:18	-1.4E	01:18
M	10:24	07:42	1.1F	06:42	09:12	0.9F	07:48	09:12	0.2F	●	09:18	08:18	0.1F	10:48			10:48
●	18:54	14:54	-2.5E	11:24	15:48	-3.3E	10:30	15:48	-3.1E		18:42	15:12	-2.8E	12:00	16:36	-2.5E	12:00
	23:36	21:00	0.8F	19:42	22:24	1.6F	19:24	22:12	2.2F			21:24	2.1F	20:00	22:54	1.6F	
15	06:12	03:00	-1.2E	01:36	04:48	-1.1E	01:30	04:54	-1.2E	30	00:48	04:12	-1.2E	02:30	07:24	-1.7E	02:30
Tu	11:00	08:42	0.8F	08:18	10:30	0.7F	09:18	10:30	0.2F	W	09:54	16:18	-2.9E	11:12	12:24	0.3F	11:12
	19:30	15:36	-2.8E	12:18	16:36	-3.4E	11:42	16:42	-3.4E	F		22:36	2.3F	13:30	17:36	-2.5E	13:30
		22:00	1.3F	20:30	23:12	1.9F	20:12	23:06	2.6F					21:00	23:54	1.7F	
31	02:48	06:24	-1.3E	02:48	06:24	-1.3E	02:48	06:24	-1.3E	31	03:18	08:00	-1.9E	03:18	08:00	-1.9E	03:18
Th	09:42	11:36	0.7F	09:42	11:36	0.7F	09:42	11:36	0.7F	Su	11:36	13:12	0.6F	11:36	13:12	0.6F	11:36
	13:06	17:24	-3.4E	13:06	17:24	-3.4E	13:06	17:24	-3.4E		14:36	18:30	-2.5E	14:36	18:30	-2.5E	14:36
	21:12	23:54	2.2F	21:12	23:54	2.2F	21:12	23:54	2.2F		21:54			21:54			21:54

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:21:50 UTC 2019

Page 2 of 5



Admiralty Inlet (off Bush Point), 2019

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

Page 3 of 5

Admiralty Inlet (off Bush Point), 2019

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	h	m	knots		h	m	h	m	knots		h	m	h	m	knots		h	m	h	m	knots
1 M	03:00	07:48	-3.9E	00:54	02:48	1 Th	04:36	09:00	-4.2E	02:06	04:00	0.8F	1 Su	01:48	04:18	2.0F	02:06	04:30	1.5F				
	11:18	14:06	3.1F	04:30	08:42		-3.8E	04:36	09:00	-4.2E	05:42	09:48		-3.2E	06:42	10:24	-3.8E	07:00	10:30	-2.6E			
	17:42	20:54	-1.6E	12:06	14:54		2.9F	12:24	15:18	3.6F	13:00	15:48		2.6F	13:48	16:36	3.1F	13:54	16:30	1.9F			
				18:24	22:00		-1.9E	18:42	22:00	-2.2E	19:06	22:36		-2.2E	19:30	23:06	-3.3E	19:12	22:54	-2.9E			
2 Tu	00:30	02:06	0.6F	01:48	03:36	0.7F	2 F	01:36	03:36	1.1F	02:36	04:36	0.8F	2 M	02:36	05:06	2.2F	02:36	05:00	1.7F			
	03:42	08:30	-4.1E	05:12	09:24	-3.6E		05:36	09:48	-4.2E	06:24	10:24	-3.1E		07:36	11:12	-3.3E	07:36	11:00	-2.3E			
	12:00	14:54	3.5F	12:42	15:36	3.0F		13:12	16:06	3.6F	13:42	16:30	2.6F		14:36	17:18	2.7F	14:30	17:06	1.6F			
	18:24	21:30	-1.8E	19:00	22:36	-2.0E		19:24	22:48	-2.4E	19:36	23:06	-2.3E		20:12	23:54	-3.4E	19:36	23:24	-2.9E			
3 W	01:12	02:54	0.7F	02:42	04:18	0.6F	3 Sa	02:24	04:30	1.3F	03:06	05:06	0.9F	3 Tu	03:24	05:54	2.3F	03:06	05:36	1.8F			
	04:36	09:18	-4.2E	05:48	10:00	-3.4E		06:36	10:36	-4.0E	07:00	10:54	-2.8E		08:36	12:06	-2.7E	08:18	11:24	-2.0E			
	12:42	15:36	3.7F	13:18	16:12	3.0F		14:06	16:54	3.4F	14:18	17:06	2.4F		15:30	18:06	2.2F	15:12	17:36	1.3F			
	19:06	22:12	-1.9E	19:36	23:12	-2.0E		20:06	23:36	-2.7E	20:06	23:42	-2.4E		20:48				19:54				
4 Th	02:00	03:48	0.7F	03:30	05:00	0.5F	4 Su	03:12	05:24	1.5F	03:36	05:36	0.9F	4 W		00:42	-3.5E		00:00	-2.9E			
	05:30	10:00	-4.2E	06:24	10:42	-3.2E		07:36	11:30	-3.6E	07:42	11:30	-2.5E		04:18	06:48	2.2F	03:42	06:18	2.0F			
	13:30	16:24	3.7F	14:00	16:54	2.9F		14:54	17:42	3.1F	14:54	17:42	2.1F		09:36	13:06	-2.1E	09:06	12:00	-1.7E			
	19:48	23:00	-2.1E	20:12	23:48	-2.0E		20:48			20:36				16:24	18:54	1.6F	15:54	18:12	0.8F			
5 F	02:54	04:42	0.8F	04:18	05:36	0.4F	5 M	04:06	06:18	-2.8E	04:12		-2.4E	5 Th		01:42	-3.4E	04:24	00:42	-2.8E			
	06:24	10:48	-4.0E	07:00	11:24	-2.9E		08:36	12:24	-3.0E	06:12	06:12	1.0F		05:18	07:42	2.0F	07:00	2.0F				
	14:18	17:12	3.6F	14:42	17:36	2.7F		15:42	18:30	2.6F	08:24	12:00	-2.1E		10:48	14:12	-1.5E	10:00	12:42	-1.5E			
	20:36	23:54	-2.2E	20:48				21:30			15:36	18:18	1.7F		17:36	19:48	0.9F	17:00	18:48	0.4F			
6 Sa	03:48	05:36	0.9F	05:00	00:30	-2.0E	6 Tu	05:00	01:24	-3.0E	04:42	01:00	-2.5E	6 F		02:36	-3.3E	05:12	01:42	-2.7E			
	07:24	11:42	-3.6E	07:36	12:06	-2.6E		09:42	13:24	-2.3E	09:12	12:36	-1.7E		06:12	08:42	1.8F	07:54	2.0F				
	15:06	18:00	3.3F	15:24	18:18	2.3F		16:36	19:18	2.1F	16:18	18:54	1.2F		12:06	15:36	-1.2E	11:00	13:48	-1.2E			
	21:18			21:24				22:12			21:18				19:24	22:54	0.4F	19:12					
7 Su	04:48	00:54	-2.3E	05:36	01:18	-2.0E	7 W	06:06	02:18	-3.2E	05:24	01:42	-2.5E	7 Sa		03:36	-3.1E	06:12	02:42	-2.6E			
	08:24	12:36	-3.1E	08:18	12:48	-2.2E		11:00	14:30	-1.7E	10:12	13:24	-1.4E		07:18	09:54	1.7F	08:48	2.0F				
	16:00	18:54	2.9F	16:06	18:54	1.9F		17:36	20:18	1.5F	17:12	19:24	0.7F		13:30	17:24	-1.2E	15:36	-1.1E				
	22:06			22:00				22:54			21:36				21:30	23:00	0.3F	21:06	-0.2E				
8 M	05:48	02:00	-2.5E	06:18	02:00	-2.1E	8 Th	07:06	03:18	-3.3E	06:12	02:30	-2.6E	8 Su	00:06	04:42	-3.0E	07:12	03:48	-2.7E			
	09:36	07:36	0.9F	09:12	07:36	0.4F		12:30	09:30	1.5F	11:30	08:30	1.4F		08:18	11:06	1.8F	10:00	2.1F				
	16:54	13:42	-2.6E	16:54	13:36	-1.8E		19:00	15:48	-1.3E	18:36	14:30	-1.1E		14:42	19:06	-1.4E	13:24	17:18	-1.3E			
	22:54	19:48	2.4F	22:30	19:36	1.5F		23:48	21:24	1.0F	21:48	20:18	0.3F		22:42			23:00					
9 Tu	06:54	02:54	-2.8E	06:54	02:42	-2.2E	9 F	08:06	04:12	-3.4E	07:00	03:24	-2.7E	9 M	01:24	00:12	0.4F	08:12	04:54	-2.8E			
	11:06	08:48	0.9F	10:36	08:30	0.5F		14:00	10:42	1.7F	12:48	09:30	1.6F		09:12	05:36	-2.9E	14:30	11:06	2.3F			
	18:00	14:54	-2.0E	17:48	14:30	-1.4E		20:42	17:12	-1.1E	21:30	16:00	-1.0E		15:36	12:06	1.9F	22:48	18:18	-1.6E			
	23:42	20:42	1.9F	23:00	20:18	1.0F			23:00	0.7F					23:24	20:06	-1.7E						
10 W	07:54	03:54	-3.1E	07:30	03:30	-2.4E	10 Sa	00:42	05:12	-3.4E	07:54	04:24	-2.8E	10 Tu		01:06	0.7F	01:24	00:06	0.3F			
	12:42	10:12	1.2F	09:36	09:36	0.8F		14:00	11:42	1.9F	10:36	10:36	1.9F		02:36	06:36	-2.9E	09:18	05:54	-3.1E			
	19:06	16:06	-1.6E	19:00	15:36	-1.1E		23:12	18:48	-1.2E	23:12	17:30	-1.1E		16:18	12:48	2.0F	15:24	12:06	2.6F			
		21:54	1.5F	23:30	21:12	0.6F									20:36	20:36	-1.9E	23:06	19:06	-2.0E			
11 Th	00:36	04:48	-3.4E	04:18	04:18	-2.6E	11 Su	01:42	00:12	0.7F	08:48	05:18	-3.1E	11 W	00:00	01:48	0.8F	02:42	00:54	0.8F			
	08:48	11:18	1.6F	10:36	10:36	1.2F		15:06	06:06	-3.4E	11:36	11:36	2.3F		03:30	07:24	-3.0E	10:12	06:54	-3.4E			
	14:12	17:18	-1.4E	13:36	16:48	-1.0E		23:06	12:30	2.1F	18:42	18:42	-1.3E		10:48	13:30	2.1F	16:12	13:00	2.9F			
	20:30	23:06	1.2F	20:36	22:18	0.3F			20:06	-1.5E					16:48	21:00	-2.1E	23:30	19:54	-2.4E			
12 F	01:24	05:42	-3.6E	00:00	05:06	-2.9E	12 M	02:42	01:06	0.7F	01:18	00:12	0.2F	12 Th	00:30	02:30	1.0F	03:48	01:42	1.4F			
	09:36	12:12	2.0F	08:48	11:30	1.7F		09:42	06:54	-3.4E	06:12	06:12	-3.4E		04:18	08:06	-3.0E	11:06	07:42	-3.6E			
	15:24	18:36	-1.3E	14:42	18:00	-1.0E		16:48	13:12	2.3F	09:42	12:30	2.7F		11:30	14:12	2.0F	16:54	13:48	3.0F			
	21:48			22:06	23:24	0.2F			20:54	-1.7E	23:30	19:36	-1.6E		17:18	21:18	-2.2E		20:36	-2.9E			
13 Sa	02:12	00:06	1.1F	00:42	05:48	-3.2E	13 Tu	00:12	02:00	0.8F	02:36	01:06	0.5F	13 F	01:00	03:06	1.1F	00:00	02:24	1.9F			
	10:12	06:30	-3.8E	09:24	12:12	2.3F		03:36	07:42	-3.4E	07:06	07:06	-3.7E		05:00	08:48	-3.0E	04:48	08:36	-3.7E			
	16:24	13:00	2.3F	15:42	18:54	-1.2E		11:06	13:54	2.5F	10:30	13:24	3.1F		12:06	14:48	2.2F	11:54	14:36	3.0F			
	23:00	19:42	-1.4E	23:00				17:24	21:24	-1.9E	23:54	20:18	-2.0E		17:48	21:36	-2.4E	17:36	21:18	-3.3E			
14 Su	02:54	01:06	1.0F	01:36	00:18	0.3F	14 W	00:54	02:42	0.8F	03:42	01:54	0.9F	14 Sa	01:24	03:36	1.2F	00:42	03:12	2.3F			
	10:54	07:18	-3.9E	10:06	06:36	-3.5E		11:48	08:24	-3.4E	08:00	08:00	-3.9E		05:42	09:24	-2.9E	05:48	09:24	-3.6E			
	17:12	20:42	-1.6E	16:30	13:00	2.8F		17:54	14:30	2.6F	11:24	14:12	3.3F		12:42	15:24	2.2F	12:42	15:24	2.8F			
				23:42	19:48	-1.4E			21:48	-2.0E		21:00	-2.3E		18:18	22:00	-2.5E	18:12	21:54	-3.6E			
15 M	00:00	02:00	0.9F	02:36	01:06	0.4F	15 Th	01:30	03:24	0.8F	00:30	02:36	1.3F	15 Su	01:42	04:00	1.3F	01:24	04:00	2.6F			
	03:42	08:00	-3.8E	07:24	07:24	-3.8E		05:06	09:06	-3.3E	04:42	08:54	-4.1E		06:18	10:00	-2.8E	06:42	10:12	-3.3E			
	11:30	14:18	2.8F	10:54	13:42	3.2F		12:24	15:12	2.6F	12:12	15:00	3.4F		13:18	16:00	2.1F	13:30	16:12	2.5F			
	17:48	21:24	-1.8E	17:18	20:36	-1.7E		18:30	22:12	-2.1E	18:12	21:42	-2.7E		18:48	22:24	-2.7E	18:48	22:36	-3.8E			
				00:18	02:00	0.6F	31 W	03:36	03:36	-4.1E	01:06	03:24	1.7F										
				03:06	08:18	-4.1E		05:42	09:36	-4.0E	05:42	09:36	-4.0E										
				11:36	14:30	3.4F		13:00	15:48	3.3F	13:00	15:48	3.3F										
				18:00	21:18	-2.0E		18:54	22:24	-3.0E	18:54	22:24	-3.0E										



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2019

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1	02:06	04:48	2.8F	01:48	04:30	2.4F	03:06	05:54	3.1F	01:30	04:24	3.2F	02:18	05:12	2.9F	01:54	04:54
Tu	07:36	10:54	-2.9E	07:30	10:30	-2.0E	09:12	12:36	-1.8E	07:42	10:24	-1.8E	08:36	12:30	-1.8E	08:12	11:30
	14:24	16:54	2.1F	14:12	16:30	1.1F	16:42	18:18	0.5F	15:00	16:24	0.3F	17:42	23:54	-2.8E	15:54	17:12
	19:24	23:18	-3.9E	18:36	22:48	-3.4E	19:54			17:42	22:42	-3.3E				18:36	23:18
2	02:54	05:30	2.9F	02:24	05:06	2.6F	03:48	06:24	-3.3E	02:18	05:12	3.1F	03:06	06:00	2.6F	02:48	05:42
W	08:30	11:48	-2.4E	08:12	11:00	-1.9E	10:00	13:48	-1.6E	08:24	11:24	-1.7E	09:30	13:36	-1.8E	09:00	12:42
	15:18	17:42	1.6F	14:54	17:06	0.8F	18:36	19:24	0.1F	16:24	17:24	0.1F	19:24		-0.1E	17:00	18:18
	20:00			18:54	23:18	-3.3E	20:12			18:12	23:36	-3.0E				19:42	
3	03:42	06:06	-3.7E	03:00	05:48	2.7F	03:42	06:30	-2.8E	03:06	06:00	2.9F	04:00	00:54	-2.4E	03:42	00:24
Th	09:30	06:18	2.7F	08:54	11:36	-1.7E	10:00	14:18	-1.5E	09:18	12:54	-1.7E	10:24	06:48	2.1F	09:54	06:36
	16:24	12:48	-1.9E	15:54	17:42	0.5F	19:54	19:54	-0.1E	18:30				14:48	-1.8E	18:06	13:54
	20:36	18:30	1.0F	19:18										20:48	-0.1E	21:06	19:30
4	04:30	01:00	-3.4E	03:42	00:06	-3.1E	04:42	01:30	-2.5E	04:06	00:42	-2.7E	05:00	01:54	-2.0E	04:42	01:36
F	10:24	07:12	2.5F	09:42	06:36	2.7F	11:06	07:24	2.0F	10:24	07:00	2.6F	11:18	07:48	1.7F	10:48	07:36
	18:00	14:00	-1.5E	17:18	12:24	-1.6E	21:30	15:54	-1.7E	19:48	14:18	-1.8E	21:00	15:42	-1.9E	19:00	14:54
	21:12	19:30	0.4F	19:30	18:30	0.2F							22:48	22:00	0.1F	22:54	20:54
5	05:24	02:00	-3.1E	04:36	01:00	-2.8E	05:48	02:36	-2.2E	05:06	02:00	-2.5E	06:12	03:00	-1.8E	05:48	02:48
Sa	11:36	08:06	2.1F	10:36	07:24	2.5F	12:06	08:36	1.7F	11:24	08:00	2.3F	12:06	09:00	1.4F	11:42	08:42
	20:36	15:30	-1.3E	19:30	13:30	-1.4E	21:30	17:00	-1.9E	20:00	15:24	-2.1E	21:06	16:24	-2.1E	19:54	15:48
	21:42				19:30	-0.1E	23:42	22:36	0.3F	22:54	21:30	0.3F		22:48	0.5F		22:12
6	06:30	03:06	-2.7E	05:30	02:06	-2.6E	06:54	03:42	-2.1E	06:18	03:06	-2.4E	07:18	04:00	-1.6E	06:30	03:54
Su	12:48	09:06	1.8F	11:42	08:18	2.4F	13:00	09:48	1.5F	12:24	09:12	2.2F	12:42	10:06	1.2F	12:30	09:54
	22:18	17:30	-1.4E	21:00	15:30	-1.4E	21:48	17:36	-2.0E	20:30	16:24	-2.6E	21:12	16:54	-2.4E	20:36	16:42
	23:30				21:00	-0.2E		23:30	0.6F		22:36	0.9F		23:30	1.0F		23:06
7	07:30	04:12	-2.5E	06:36	03:18	-2.5E	01:00	04:42	-2.1E	00:30	04:18	-2.3E	01:36	05:00	-1.6E	01:48	05:00
M	14:00	10:24	1.7F	12:54	09:30	2.3F	08:00	10:48	1.5F	07:24	10:18	2.2F	08:24	10:54	1.0F	08:12	10:48
	22:48	18:48	-1.7E	22:18	16:54	-1.7E	13:42	18:00	-2.2E	13:12	17:12	-3.1E	13:12	17:24	-2.7E	13:12	17:30
				23:24			22:06			21:06	23:24	1.5F	21:30			21:12	23:54
8	01:12	00:00	0.4F	07:42	04:36	-2.6E	02:06	00:06	1.0F	01:48	00:12	-2.3E	02:36	00:00	1.4F	03:00	06:12
Tu	08:36	05:12	-2.4E	14:00	10:42	-2.3F	08:54	05:30	-2.1E	08:30	11:12	-2.1F	09:18	05:54	-1.5E	09:18	11:48
	14:54	11:30	1.7F	22:12	17:54	-2.1E	14:12	11:36	1.5F	13:54	17:54	-3.5E	13:36	11:30	0.9F	14:00	18:12
	23:12	19:36	-2.0E		23:54	0.6F	22:18	18:18	-2.5E	21:42			21:42	17:54	-3.0E	21:54	
9	02:24	00:54	0.7F	01:30	05:36	-2.8E	02:54	00:36	1.3F	02:54	00:12	2.1F	03:30	00:24	1.8F	03:54	00:36
W	09:36	06:12	-2.5E	08:48	11:42	2.4F	09:42	06:24	-2.0E	09:24	06:18	-2.3E	10:06	06:42	-1.5E	10:24	07:06
	15:30	12:24	1.8F	14:48	18:42	-2.5E	14:36	12:12	1.4F	14:36	12:06	2.0F	14:00	12:06	0.7F	14:42	12:36
	23:36	20:00	-2.1E	22:36			22:30	18:48	-2.8E	22:12	18:36	-3.9E	22:06	18:30	-3.3E	22:30	18:54
10	03:24	01:36	0.9F	02:48	00:42	1.2F	03:42	01:06	1.6F	03:54	00:54	2.7F	04:12	00:54	2.3F	04:42	01:18
Th	10:24	07:00	-2.5E	09:48	06:36	-2.9E	10:24	07:06	-2.0E	10:24	07:12	-2.3E	10:48	07:24	-1.5E	11:24	08:00
	16:06	13:06	1.8F	15:36	12:36	2.6F	15:00	12:42	1.3F	15:12	12:54	1.8F	14:24	12:36	0.6F	15:24	13:30
		20:18	-2.3E	23:06	19:24	-3.0E	22:48	19:12	-3.1E	22:54	19:18	-4.2E	22:36	19:00	-3.6E	23:06	19:42
11	00:00	02:06	1.2F	03:54	01:24	1.8F	04:24	01:30	2.0F	04:48	01:36	3.1F	04:48	01:24	2.7F	05:24	01:54
F	04:12	07:48	-2.6E	10:42	07:30	-3.0E	11:00	07:42	-1.9E	11:18	08:00	-2.2E	11:30	08:00	-1.5E	12:24	08:48
	11:06	13:42	1.9F	16:18	13:24	2.6F	15:24	13:12	1.1F	15:54	13:42	1.6F	14:54	13:12	0.6F	16:06	14:18
	16:30	20:30	-2.5E	23:36	20:06	-3.5E	23:12	19:42	-3.4E	23:30	20:00	-4.3E	23:06	19:42	-3.8E	23:48	20:24
12	00:18	02:42	1.4F	04:54	02:12	2.3F	05:06	01:54	2.3F	05:36	02:18	3.3F	05:24	02:00	3.0F	06:06	02:36
Sa	04:54	08:30	-2.5E	11:36	08:24	-3.0E	11:42	08:18	-1.9E	12:18	08:48	-2.2E	12:12	08:30	-1.6E	13:24	09:30
	11:48	14:18	1.8F	16:54	14:12	2.5F	15:48	13:48	1.0F	16:30	14:24	1.3F	15:30	13:54	0.5F	15:12	15:12
	17:00	20:54	-2.7E		20:48	-3.9E	23:42	20:06	-3.6E		20:42	-4.3E	23:42	20:18	-3.9E	16:48	21:06
13	00:36	03:06	1.6F	00:18	02:54	2.8F	05:42	02:30	2.7F	06:06	03:00	3.4F	06:06	02:36	3.3F	00:24	03:18
Su	05:36	09:06	-2.5E	12:24	09:12	-2.9E	12:18	08:48	-1.8E	13:24	09:36	-2.1E	13:00	09:00	-1.7E	06:48	10:18
	12:24	14:48	1.7F	17:30	15:00	2.2F	16:12	14:18	0.8F	17:12	15:18	1.0F	16:12	14:36	0.5F	14:30	16:00
	17:24	21:18	-3.0E		21:24	-4.1E		20:42	-3.7E		21:24	-4.0E		20:54	-3.9E	17:30	21:48
14	00:54	03:30	1.9F	00:54	03:42	3.1F	00:12	03:00	3.0F	00:48	03:42	3.4F	00:24	03:18	3.4F	01:06	04:00
M	06:12	09:36	-2.3E	06:42	10:00	-2.7E	06:18	09:18	-1.8E	07:06	10:30	-2.0E	06:42	09:42	-1.8E	07:24	11:06
	12:54	15:18	1.5F	13:18	15:48	1.9F	13:06	14:54	0.7F	14:30	16:12	0.6F	13:48	15:24	0.5F	15:30	16:48
	17:48	21:48	-3.2E	18:06	22:06	-4.2E	16:42	21:12	-3.7E	17:48	22:06	-3.7E	16:54	21:36	-3.8E	18:06	22:30
15	01:18	04:00	2.1F	01:36	04:24	3.3F	00:48	03:42	3.1F	01:30	04:24	3.2F	01:12	04:06	3.4F	01:48	04:48
Tu	06:54	10:06	-2.2E	07:36	10:48	-2.4E	07:00	09:42	-1.8E	07:48	11:30	-1.9E	07:24	10:30	-1.9E	08:06	11:54
	13:30	15:54	1.3F	14:18	16:36	1.5F	13:54	15:36	0.5F	15:54	17:06	0.3F	14:48	16:18	0.5F	16:36	17:36
	18:12	22:12	-3.4E	18:42	22:48	-4.1E	17:12	21:54	-3.6E	18:18	23:00	-3.2E	17:42	22:24	-3.5E	18:42	23:18
16	02:18	05:06	3.3F	02:18	05:06	3.3F	02:18	05:06	3.3F	02:18	05:06	3.3F	02:18	05:06	3.3F	02:18	05:06
Th	08:24	11:36	-2.1E	08:24	11:36	-2.1E	08:24	11:36	-2.1E	08:24	11:36	-2.1E	08:24	11:36	-2.1E	08:24	11:36
	15:24	17:24	1.0F	15:24	17:24	1.0F	15:24	17:24	1.0F	15:24	17:24	1.0F	15:24	17:24	1.0F	15:24	17:24
	19:18	23:36	-3.8E	19:18	23:36	-3.8E	19:18	23:36	-3.8E	19:18	23:36	-3.8E	19:18	23:36	-3.8E	19:18	23:36

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.



Admiralty Inlet (off Bush Point), 2020

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2020

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

January						February						March					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1 W	03:24	09:36	19:30	06:18	13:42	2.1F	03:24	09:36	19:30	06:18	13:42	2.1F	04:12	08:00	16:42	06:42	10:06
2 Th	04:18	10:18	19:36	07:06	14:30	2.0E	04:18	10:18	19:36	07:06	14:30	2.0E	06:12	07:18	17:36	09:06	11:12
3 F	05:24	11:00	19:48	08:00	15:12	2.2E	05:24	11:00	19:48	08:00	15:12	2.2E	07:48	14:54	21:12	02:12	10:24
4 Sa	06:36	11:30	20:06	09:00	15:54	2.5E	06:36	11:30	20:06	09:00	15:54	2.5E	09:54	15:54	22:12	03:06	11:06
5 Su	01:12	08:06	11:54	04:24	16:30	2.8E	01:12	08:06	11:54	04:24	16:30	2.8E	01:48	11:06	16:54	03:54	11:42
6 M	02:18	09:24	12:12	05:24	17:12	3.1E	02:18	09:24	12:12	05:24	17:12	3.1E	03:24	10:36	13:00	04:24	12:12
7 Tu	03:12	10:24	12:36	06:24	17:48	3.4E	03:12	10:24	12:36	06:24	17:48	3.4E	04:18	12:36	14:18	05:00	12:42
8 W	03:54	11:06	13:18	07:06	18:30	3.7E	03:54	11:06	13:18	07:06	18:30	3.7E	05:06	12:12	16:18	05:30	13:06
9 Th	04:30	11:36	14:06	07:48	19:12	3.9E	04:30	11:36	14:06	07:48	19:12	3.9E	05:48	12:42	17:18	06:00	13:30
10 F	05:12	12:12	15:00	08:24	19:54	4.0E	05:12	12:12	15:00	08:24	19:54	4.0E	06:30	13:24	18:18	06:30	13:54
11 Sa	05:48	12:48	16:00	08:54	20:42	4.1E	05:48	12:48	16:00	08:54	20:42	4.1E	07:06	14:06	19:18	06:54	14:18
12 Su	00:06	06:30	13:30	03:00	15:18	0.7F	00:06	06:30	13:30	03:00	15:18	0.7F	02:12	07:42	14:54	02:24	07:18
13 M	00:54	07:12	14:18	03:48	16:06	0.9F	00:54	07:12	14:18	03:48	16:06	0.9F	03:00	08:18	15:42	03:06	07:30
14 Tu	01:42	07:54	15:12	04:36	17:06	0.9F	01:42	07:54	15:12	04:36	17:06	0.9F	03:54	08:48	16:36	03:54	07:36
15 W	02:30	08:36	16:12	05:24	18:00	1.0F	02:30	08:36	16:12	05:24	18:00	1.0F	05:00	09:24	17:36	05:12	07:30
16 Th	03:24	09:24	17:12	06:18	19:06	1.0F	03:24	09:24	17:12	06:18	19:06	1.0F	06:00	10:24	18:42	06:00	07:30
17 F	04:18	10:06	18:12	07:06	20:18	1.2F	04:18	10:06	18:12	07:06	20:18	1.2F	07:18	13:36	20:06	07:18	08:42
18 Sa	05:24	11:00	19:48	08:00	21:54	1.5F	05:24	11:00	19:48	08:00	21:54	1.5F	08:00	14:54	22:12	08:00	09:24
19 Su	06:36	11:30	20:06	09:00	22:42	1.9F	06:36	11:30	20:06	09:00	22:42	1.9F	09:00	15:54	23:06	09:00	10:24
20 M	01:12	08:06	11:54	04:24	16:30	2.3F	01:12	08:06	11:54	04:24	16:30	2.3F	02:18	11:06	16:54	02:18	08:18
21 Tu	02:18	09:24	12:12	05:24	17:12	3.0F	02:18	09:24	12:12	05:24	17:12	3.0F	03:24	10:36	13:00	03:24	08:42
22 W	03:12	10:24	12:36	06:24	17:48	3.9E	03:12	10:24	12:36	06:24	17:48	3.9E	04:18	12:36	14:18	04:18	08:42
23 Th	03:54	11:06	13:18	07:06	18:30	4.0E	03:54	11:06	13:18	07:06	18:30	4.0E	05:06	12:12	16:18	05:30	08:42
24 F	04:30	11:36	14:06	07:48	19:12	4.1E	04:30	11:36	14:06	07:48	19:12	4.1E	05:48	12:42	17:18	06:00	09:48
25 Sa	05:12	12:12	15:00	08:24	19:54	4.0E	05:12	12:12	15:00	08:24	19:54	4.0E	06:30	13:24	18:18	06:30	10:18
26 Su	05:48	12:48	16:00	08:54	20:42	4.1E	05:48	12:48	16:00	08:54	20:42	4.1E	07:06	14:06	19:18	06:54	10:42
27 M	00:06	06:30	13:30	03:00	15:18	0.7F	00:06	06:30	13:30	03:00	15:18	0.7F	02:12	07:42	14:54	02:24	07:18
28 Tu	00:54	07:12	14:18	03:48	16:06	0.9F	00:54	07:12	14:18	03:48	16:06	0.9F	03:00	08:18	15:42	03:06	07:30
29 W	01:42	07:54	15:12	04:36	17:06	0.9F	01:42	07:54	15:12	04:36	17:06	0.9F	03:54	08:48	16:36	03:54	07:36
30 Th	02:30	08:36	16:12	05:24	18:00	1.0F	02:30	08:36	16:12	05:24	18:00	1.0F	05:00	09:24	17:36	05:12	06:24
31 F	03:24	09:24	17:12	06:18	19:06	1.0F	03:24	09:24	17:12	06:18	19:06	1.0F	06:00	10:24	18:42	06:00	07:30

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:24:20 UTC 2019

Page 2 of 5



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2020

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

April						May						June					
Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m		h	m		h	m		h	m		h	m		h	m
1 W																	
			knots			knots			knots			knots			knots		
	03:18	-1.0E		01:24	06:18	-1.7E	00:24	04:24	-1.6E	01:36	06:12	-2.1E	01:42	05:42	-3.0E	01:54	06:06
	08:24	-0.5E		10:24	11:36	0.3F		10:12	10:18	-0.2E	10:24	12:06	0.6F	09:42	11:54	1.3F	10:12
	15:18	-2.4E		12:42	16:48	-2.4E		16:00	-2.4E	13:42	17:18	-2.0E	14:12	17:42	-2.2E	15:36	18:42
	18:42	2.1F		20:12	23:00	1.7F		19:12	22:06	20:36	23:30	1.5F	20:54	23:42	2.1F	22:18	
2 Th	01:00	-1.2E		02:24	07:06	-2.0E	01:30	05:24	-2.0E	02:18	06:42	-2.3E	02:24	06:24	-3.5E	02:18	00:24
		-0.4E		10:54	12:30	0.7F		11:30	0.3F	10:48	12:48	1.0F	10:12	12:42	2.0F	10:36	06:42
	16:24	-2.6E		14:06	17:48	-2.4E		17:06	-2.6E	14:54	18:18	-1.9E	15:24	18:42	-2.1E	16:30	13:18
	19:42	2.2F		21:12				20:18	23:12	21:36			21:54			23:18	19:36
3 F	02:06	-1.5E		03:06	00:00	1.7F	02:24	06:18	-2.4E	02:54	00:18	1.4F	03:06	00:36	1.9F	02:36	01:00
	11:30	-2.8E		07:48	-2.2E		10:18	12:18	0.9F	11:06	07:06	-2.6E	10:48	07:12	-3.9E	10:54	07:12
	20:48	2.4F		11:18	13:18	1.0F		18:06	-2.7E	15:48	19:06	-1.9E	16:30	19:42	-2.1E	17:12	20:24
				15:12	18:42	-2.4E		21:18		22:30			22:54				
4 Sa	03:00	-1.9E		03:42	00:48	1.8F	03:06	00:06	2.4F	03:18	01:00	1.3F	03:42	01:24	1.7F	00:06	01:30
	11:00	0.6F		08:00	-2.4E			07:00	-2.9E	11:24	07:30	-2.9E	11:24	07:54	-4.3E	02:54	07:48
	14:12	-3.1E		11:42	13:54	1.3F		10:42	1.6F	16:36	13:54	1.7F	17:24	14:12	3.1F	11:24	14:12
	21:48			16:00	19:30	-2.4E		15:24	-2.8E	23:18	19:54	-1.8E	23:54	20:36	-2.1E	17:48	21:00
5 Su	03:48	00:36	2.7F	04:12	01:30	1.8F	03:48	01:00	2.5F	03:42	08:00	-3.1E	04:24	02:12	1.5F	00:48	02:06
	11:12	-2.3E		12:06	-2.6E			07:42	-3.4E	11:12	13:48	2.3F	12:06	08:36	-4.4E	03:18	08:24
	15:24	1.2F		16:48	14:30	1.5F		13:48	2.3F	17:24	14:24	2.0F	18:18	14:54	3.4F	11:54	14:42
	22:36	-3.4E		23:30	-2.4E			19:54	-2.8E		20:36	-1.7E		21:30	-2.1E	18:18	21:30
6 M	04:30	01:24	2.8F	04:42	02:06	1.7F	04:24	01:48	2.4F	04:06	02:06	0.9F	00:54	03:00	1.2F	01:30	02:42
	11:42	-2.8E		08:42	-2.8E			08:18	-3.9E	12:00	08:24	-3.4E	05:00	09:18	-4.5E	03:48	09:00
	16:24	1.7F		12:24	14:54	1.7F		14:30	2.8F	18:00	14:48	2.3F	12:42	15:36	3.6F	12:30	15:24
	23:30	-3.5E		17:30	20:54	-2.3E		20:48	-2.8E		21:12	-1.7E	19:06	22:18	-2.0E	18:54	22:00
7 Tu	05:12	02:12	2.9F	00:12	02:36	1.6F	00:00	02:30	2.1F	00:42	02:36	0.7F	02:00	03:54	0.9F	02:06	03:24
	12:18	-3.9E		05:06	-3.1E			09:00	-4.2E	04:24	08:54	-3.6E	05:42	10:00	-4.3E	04:30	09:42
	17:24	2.3F		12:42	15:24	1.9F		15:12	3.3F	12:24	15:18	2.7F	13:24	16:24	3.6F	13:06	16:00
		-3.4E		18:06	21:30	-2.2E		21:36	-2.6E	18:36	21:48	-1.6E	19:48	23:06	-2.0E	19:30	22:30
8 W	00:18	03:00	2.7F	00:48	03:12	1.4F	00:54	03:18	1.8F	01:24	03:06	0.5F	03:06	04:48	0.7F	02:48	04:06
	05:48	-3.7E		05:30	-3.3E			09:42	-4.4E	04:42	09:24	-3.7E	06:24	10:48	-3.9E	05:24	10:18
	12:54	2.7F		13:06	15:48	2.2F		16:00	3.5F	12:54	15:48	2.9F	14:12	17:06	3.4F	13:48	16:42
	18:18	-3.2E		18:48	22:00	-2.0E		22:24	-2.4E	19:12	22:12	-1.6E	20:36			20:06	23:12
9 Th	01:06	03:42	2.5F	01:30	03:42	1.1F	01:54	04:06	1.4F	02:12	03:42	0.4F	04:18	00:00	-1.9E	03:36	04:54
	06:24	-4.0E		05:48	-3.4E			10:24	-4.3E	05:06	10:00	-3.6E	07:06	05:42	0.4F	06:12	11:00
	13:36	3.0F		13:36	16:18	2.5F		16:42	3.6F	13:30	16:24	3.1F	15:00	11:36	-3.5E	14:36	17:30
	19:18	-2.9E		19:24	22:30	-1.9E		23:12	-2.1E	19:48	22:42	-1.6E	21:18	17:54	3.1F	20:48	
10 F	02:00	04:30	2.1F	02:12	04:12	0.8F	03:00	04:54	1.0F	03:06	04:18	0.3F	05:42	01:06	-1.8E	04:30	00:06
	06:54	-4.1E		06:06	-3.4E			11:06	-4.1E	05:30	10:36	-3.5E	07:42	06:42	0.2F	07:06	05:48
	14:24	3.2F		14:06	16:54	2.7F		17:30	3.4F	14:12	17:06	3.1F	15:48	12:30	-3.0E	15:24	11:54
	20:12	-2.4E		20:06	22:54	-1.7E		20:54		20:24	23:12	-1.6E	22:06	18:42	2.7F	21:36	18:18
11 Sa	02:54	05:12	1.6F	03:00	04:48	0.5F	04:12	00:12	-1.8E	04:12	05:06	0.1F	07:30	02:12	-1.8E	05:30	01:12
	07:30	-4.0E		06:24	-3.3E			05:48	0.6F	06:00	11:18	-3.3E	16:42	13:30	-2.5E	08:06	06:48
	15:06	3.1F		14:42	17:30	2.8F		12:00	-3.6E	14:54	17:48	3.1F	23:00	19:30	2.3F	16:12	12:48
	21:06			20:42	23:24	-1.6E		18:18	3.1F	21:06						22:24	19:06
12 Su	04:00	00:18	-1.9E	04:06	05:24	0.3F	05:54	01:24	-1.6E	05:42	12:06	-1.6E	09:06	03:18	-1.9E	06:30	02:18
		06:06	1.0F	06:30	11:36	-3.1E		06:54	0.2F	15:42	18:36	-3.0E	17:42	14:30	-2.1E	09:24	07:48
	08:00	-3.7E		15:18	18:12	2.7F		13:00	-3.1E	21:54			23:54	20:24	1.8F	23:18	20:06
	16:00	2.8F		21:24				16:18	2.6F								
13 M	05:24	01:30	-1.5E	06:06	00:06	-1.5E	08:18	02:42	-1.6E	07:00	01:24	-1.6E	09:24	04:12	-2.0E	07:24	03:18
	08:36	05:5E		12:30	-2.8E			14:00	-2.6E	16:36	13:06	-2.7E	11:24	10:30	0.2F	11:06	09:06
	16:54	-3.3E		16:06	19:00	2.6F		20:00	2.2F	22:54	19:30	-2.7F	18:42	15:36	-1.8E	18:06	15:00
	23:06	2.5F		22:18				23:36						21:30	1.5F	21:06	21:06
14 Tu	07:48	02:54	-1.3E	01:12	-1.3E		09:54	04:12	-1.7E		02:42	-1.8E	00:42	05:00	-2.2E	00:06	04:12
	08:54	-2.9E		07:00	-0.3E			15:06	-2.3E	08:12	08:12	-0.1E	09:42	11:30	0.5F	08:18	10:24
	17:54	2.0F		13:36	-2.5E			21:06	1.8F	14:18	20:30	-2.4E	13:06	16:42	-1.6E	12:48	16:12
				19:54	2.4F					20:30		2.4F	20:00	22:48	1.2F	19:18	22:12
15 W	00:18	04:48	-1.4E	03:06	-1.4E		00:42	05:24	-1.9E	08:48	03:54	-2.1E	01:24	05:36	-2.4E	00:54	05:06
	10:18	-2.6E		08:24	-0.4E			10:06	0.2F	10:36	09:42	0.1F	10:00	12:12	1.0F	09:00	11:30
	19:00	1.7F		14:48	-2.4E			16:18	-2.1E	18:36	15:30	-2.3E	14:30	17:42	-1.4E	14:12	17:24
				20:54	2.3F			22:24	1.6F		21:36	2.2F	21:12	23:42	1.0F	20:30	23:18

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:24:20 UTC 2019

Page 3 of 5



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2020

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots
1 W	01:42	05:54	-3.8E	16 Th	00:48	05:54	-3.0E	1 Sa		01:12	0.8F	16 Su	00:54	06:54	-3.2E	1 Tu	00:42	02:48	1.1F	16 W		02:00	1.1F
	09:42	12:18	2.2F		09:42	12:30	1.9F		02:54	07:12	-3.9E		10:18	13:06	2.5F		04:42	08:36	-3.4E		04:00	08:06	-3.6E
	15:30	18:36	-1.5E		16:06	19:30	-1.0E		10:42	13:30	2.8F		16:42	20:18	-1.4E		11:54	14:36	2.6F		11:24	14:12	2.9F
	21:48								17:06	20:48	-1.7E						17:48	21:42	-2.4E		17:18	20:54	-2.6E
2 Th	02:24	06:42	1.3F	17 F	00:06	06:36	-3.2E	2 Su	00:12	02:06	0.8F	17 M	00:24	01:30	0.2F	2 Wo	01:18	03:30	1.2F	17 Th	00:24	02:42	1.6F
	10:24	13:06	-4.1E		10:12	13:06	2.3F		03:48	08:00	-3.9E		02:42	07:36	-3.5E		05:24	09:18	-3.3E		05:00	08:54	-3.7E
	16:30	19:42	2.7F		16:48	20:18	-1.1E		11:24	14:12	2.9F		11:00	13:48	2.8F		12:30	15:18	2.6F		12:12	15:00	3.0F
	23:00		-1.6E						17:48	21:30	-1.9E		17:18	20:48	-1.7E		18:24	22:12	-2.5E		18:00	21:30	-3.0E
3 F	03:06	07:30	1.2F	18 Sa	00:48	07:18	-3.4E	3 Mo	01:00	02:54	0.9F	18 Tu	00:36	02:12	0.6F	3 Th	01:54	04:06	1.2F	18 F	01:00	03:30	2.1F
	11:00	13:48	-4.2E		10:48	13:36	2.6F		04:36	08:48	-3.8E		03:54	08:24	-3.7E		06:06	09:54	-3.2E		05:54	09:36	-3.6E
	17:24	20:42	3.1F		17:24	20:48	-1.2E		12:06	15:00	3.0F		11:48	14:36	3.1F		13:12	16:00	2.6F		13:00	15:42	2.9F
			-1.7E						18:24	22:06	-2.1E		18:00	21:24	-2.0E		19:00	22:36	-2.6E		18:36	22:12	-3.4E
4 Sa	00:00	02:00	1.0F	19 Su	01:00	01:42	0.1F	4 Tu	01:48	03:42	0.9F	19 Wo	01:00	03:00	1.0F	4 F	02:24	04:36	1.3F	19 Sa	01:42	04:12	2.4F
	03:54	08:18	-4.3E		02:36	08:00	-3.6E		05:24	09:30	-3.7E		04:54	09:12	-3.9E		06:48	10:30	-2.9E		06:54	10:18	-3.3E
	11:42	14:36	3.3F		11:24	14:18	2.9F		12:48	15:42	3.0F		12:30	15:24	3.2F		13:54	16:36	2.4F		13:42	16:24	2.6F
	18:06	21:30	-1.9E		17:54	21:12	-1.4E		19:00	22:36	-2.2E		18:36	22:00	-2.4E		19:30	23:12	-2.7E		19:12	22:54	-3.7E
5 Su	01:00	02:54	0.9F	20 Mo	01:12	02:24	0.3F	5 W	02:30	04:24	0.9F	20 Th	01:30	03:42	1.3F	5 Sa	03:00	05:12	1.4F	20 Su	02:24	05:00	2.7F
	04:42	09:00	-4.2E		03:36	08:42	-3.8E		06:12	10:12	-3.5E		05:54	09:54	-3.8E		07:30	11:06	-2.6E		07:48	11:06	-2.9E
	12:24	15:18	3.4F		12:06	15:00	3.1F		13:30	16:24	3.0F		13:18	16:06	3.2F		14:30	17:12	2.0F		14:36	17:12	2.2F
	18:48	22:12	-2.0E		18:30	21:42	-1.7E		19:42	23:12	-2.3E		19:12	22:42	-2.7E		20:00	23:42	-2.7E		19:48	23:36	-3.8E
6 M	02:00	03:48	0.8F	21 Tu	01:36	03:12	0.5F	6 Th	03:18	05:06	0.9F	21 F	02:12	04:30	1.6F	6 Su	03:30	05:42	1.4F	21 M	03:12	05:54	2.8F
	05:30	09:48	-4.0E		04:42	09:24	-3.8E		06:54	10:54	-3.2E		06:48	10:36	-3.6E		08:12	11:42	-2.2E		08:48	12:00	-2.3E
	13:06	16:00	3.4F		12:48	15:42	3.3F		14:12	17:06	2.8F		14:00	16:54	3.1F		15:18	17:48	1.5F		15:24	17:54	1.7F
	19:30	22:54	-2.0E		19:06	22:18	-1.9E		20:18	23:54	-2.3E		19:54	23:24	-3.0E		20:24				20:18		
7 Tu	03:00	04:42	0.7F	22 W	02:12	03:54	0.7F	7 F	03:54	05:48	0.8F	22 Sa	03:00	05:18	1.8F	7 M	04:00	06:24	-2.7E	22 Tu	04:06	06:42	-3.8E
	06:12	10:30	-3.7E		05:36	10:06	-3.8E		07:36	11:36	-2.9E		07:48	11:18	-3.2E		09:00	12:18	-1.8E		09:48	13:00	-1.8E
	13:48	16:42	3.2F		13:30	16:24	3.3F		14:54	17:48	2.5F		14:48	17:36	2.7F		16:06	18:24	-1.8E		16:30	18:42	-1.1F
	20:12	23:42	-2.1E		19:48	23:00	-2.2E		20:54				20:30				20:36				20:54		
8 W	03:54	05:30	0.5F	23 Th	02:54	04:48	0.9F	8 Sa	04:36	06:24	-2.3E	23 Su	03:48	06:12	-3.2E	8 Tu	04:36	01:00	-2.6E	23 W	05:00	01:24	-3.6E
	07:00	11:18	-3.4E		06:36	10:48	-3.6E		08:18	12:18	0.8F		08:42	12:12	2.0F		09:54	07:00	1.6F		10:54	07:36	2.5F
	14:36	17:30	3.0F		14:18	17:12	3.3F		15:42	18:24	-2.4E		15:36	18:24	-2.6E		17:18	13:06	-1.4E		18:00	14:12	-1.3E
	20:54				20:24	23:48	-2.4E		21:24		2.0F		21:06		2.3F		20:30	18:54	0.4F		21:30	19:48	0.5F
9 Th	04:54	00:36	-2.1E	24 F	03:42	05:36	1.0F	9 Su	05:18	01:18	-2.3E	24 M	04:42	01:06	-3.4E	9 Wo	05:18	01:48	-2.5E	24 Th	06:00	02:30	-3.3E
	07:42	06:18	0.4F		07:36	11:36	-3.3E		09:12	13:06	0.8F		09:48	13:06	2.0F		10:54	07:48	1.6F		12:12	08:36	2.2F
	15:18	18:12	-3.0E		15:06	18:00	3.0F		16:30	19:06	-1.9E		16:30	19:06	-2.0E		14:06	14:06	-1.0E		20:18	15:54	-1.1E
	21:36		2.7F		21:06				21:54		1.5F		21:42		1.7F		19:30	19:30	-0.1E		22:24	21:24	0.1F
10 F	05:54	01:30	-2.1E	25 Sa	04:36	00:42	-2.6E	10 M	05:54	02:00	-2.3E	25 Tu	05:42	02:00	-3.5E	10 Th	06:06	02:36	-2.4E	25 F	07:06	03:36	-3.1E
	08:24	07:06	0.3F		08:36	06:30	1.1F		10:12	14:00	0.8F		11:06	08:06	1.9F		12:12	08:42	1.6F		13:30	09:48	1.9F
	16:06	12:54	-2.5E		15:54	12:30	-2.8E		17:30	19:48	-1.5E		17:36	20:00	-1.4E		06:06	15:42	-0.8E		22:00	17:42	-1.3E
	22:18	19:00	2.3F		21:48	18:48	2.7F		22:12		0.8F		22:24		1.1F		20:24	20:24	-0.5E		23:12	23:12	0.2F
11 Sa	06:54	02:18	-2.1E	26 Su	05:30	01:42	-2.8E	11 Tu	06:36	02:48	-2.4E	26 W	06:42	03:00	-3.4E	11 F	07:00	03:36	-2.4E	26 Sa	08:12	04:42	-2.9E
	09:18	08:00	0.2F		09:42	07:30	1.2F		11:36	08:42	0.9F		12:36	09:12	1.9F		13:24	09:42	1.7F		08:12	11:00	1.9F
	17:00	13:48	-2.0E		16:42	13:30	-2.3E		19:00	15:12	-1.1E		19:18	15:48	-1.1E		07:00	17:24	-0.9E		14:36	19:00	-1.7E
	23:00	19:48	1.8F		22:30	19:36	2.2F		22:12	20:36	0.3F		23:18	21:24	0.6F			23:00	-0.6E		22:42	22:42	
12 Su	07:42	03:06	-2.1E	27 Mo	06:30	02:42	-3.1E	12 W	07:18	03:36	-2.4E	27 Th	07:42	04:06	-3.4E	12 Sa	08:00	04:36	-2.5E	27 Su	01:42	00:18	0.6F
	10:42	09:12	0.3F		08:36	1.3F	09:48		1.2F	14:00	10:24		1.9F	14:24	10:48		1.9F	09:12	05:48		-2.9E		
	18:00	14:54	-1.6E		17:48	14:36	-1.7E		13:06	16:30	-0.8E		21:18	17:30	-1.1E		14:24	18:36	-1.1E		15:24	12:06	1.9F
	23:36	20:42	1.2F		23:18	20:30	1.6F		21:42		-0.2E			23:06	0.4F						23:18	19:48	-2.0E
13 M	08:18	03:54	-2.3E	28 Tu	07:30	03:36	-3.3E	13 Th	08:06	04:24	-2.6E	28 F	00:30	05:06	-3.4E	13 Su	08:54	00:06	-0.3E	28 M	02:54	01:12	0.9F
	12:18	10:18	0.6F		12:42	09:48	1.5F		10:48	18:00	1.5F		08:42	11:30	2.1F		15:18	05:36	-2.7E		10:06	06:42	-2.9E
	19:18	16:00	-1.3E		19:00	15:54	-1.3E		14:24	18:00	-0.8E		15:12	19:06	-1.3E		15:18	11:48	2.1F		16:00	12:54	2.1F
		21:42	0.7F			21:42	1.2F			23:18	-0.3E		22:36				23:54	19:12	-1.4E		23:48	20:18	-2.3E
14 Tu	00:06	04:36	-2.5E	29 W	00:06	04:36	-3.6E	14 F	08:48	05:12	-2.8E	29 Sa	01:42	06:00	0.6F	14 M	01:30	06:30					

Admiralty Inlet (off Bush Point), 2020

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots		h	m	knots
1 Th O	00:48	03:06	1.5F	16 F ●	05:00	02:24	2.2F	1 Su	00:54	02:36	2.3F	16 M	05:54	02:36	3.6F	1 Tu	06:06	02:36	2.8F	16 W	00:06	03:00	3.8F
	05:24	09:00	-2.8E		08:36	-3.2E	05:36		08:54	-2.0E	12:30		09:00	-2.3E	06:30		09:48	-2.0E					
	12:12	14:54	2.2F		11:54	14:30	2.6F		12:24	14:30	1.0F		13:24	14:30	0.2F		13:36	15:18	0.8F				
	17:42	21:30	-2.9E		17:18	21:00	-3.7E		16:36	20:48	-3.4E		16:42	21:00	-4.5E		15:42	20:48	-3.5E		17:00	21:24	-4.2E
2 F	01:12	03:36	1.6F	17 Sa	00:30	03:12	2.8F	2 M	00:18	03:06	2.5F	17 Tu	00:24	03:18	3.8F	2 W	00:18	03:12	3.0F	17 Th	00:48	03:48	3.6F
	06:00	09:36	-2.7E		06:00	09:24	-3.1E		06:18	09:24	-1.8E		06:48	09:54	-2.1E		06:36	09:36	-1.6E		07:18	10:36	-2.0E
	12:54	15:30	2.0F		12:42	15:18	2.3F		13:12	15:06	0.7F		13:30	15:30	1.0F		14:18	15:12	0.1F		14:42	16:18	0.6F
	18:12	22:00	-3.0E		17:48	21:42	-4.1E		16:48	21:18	-3.4E		17:24	21:42	-4.3E		16:00	21:18	-3.4E		17:48	22:18	-3.8E
3 Sa	01:36	04:06	1.8F	18 Su	01:12	03:54	3.2F	3 Tu	00:48	03:36	2.7F	18 W	01:12	04:06	3.7F	3 Th	00:54	03:48	3.1F	18 F	01:36	04:30	3.3F
	06:42	10:12	-2.5E		06:54	10:12	-2.8E		06:54	09:54	-1.7E		07:36	10:48	-1.9E		07:12	10:06	-1.6E		08:00	11:36	-1.9E
	13:36	16:06	1.7F		13:30	16:00	2.0F		14:12	15:36	0.4F		14:42	16:24	0.7F		15:24	22:00	-3.2E		15:48	17:18	0.4F
	18:36	22:24	-3.1E		18:24	22:24	-4.3E		17:00	21:48	-3.3E		18:00	22:36	-3.9E		18:00	22:00	-3.2E		18:36	23:06	-3.3E
4 Su	02:06	04:36	2.0F	19 M	01:54	04:42	3.4F	4 W	01:24	04:12	2.8F	19 Th	02:00	04:54	3.4F	4 F	01:30	04:30	3.0F	19 Sa	02:30	05:18	3.0F
	07:24	10:42	-2.2E		07:48	11:00	-2.4E		07:30	10:18	-1.6E		08:24	11:54	-1.7E		07:48	10:48	-1.6E		08:48	12:36	-1.9E
	14:18	16:42	1.3F		14:30	16:48	1.6F		15:24	17:24	0.4F		16:06	17:24	0.4F		16:36	22:42	-2.9E		17:06	18:18	0.3F
	19:00	22:54	-3.1E		19:00	23:06	-4.2E		16:54	22:18	-3.0E		18:42	23:30	-3.4E		18:42	23:30	-3.4E		19:24		
5 M	02:30	05:12	2.1F	20 Tu	02:42	05:30	3.4F	5 Th	02:00	04:54	2.8F	20 F	02:54	05:42	2.9F	5 Sa	02:18	05:18	2.9F	20 Su		00:06	-2.8E
	08:06	11:12	-1.9E		08:42	11:48	-2.0E		08:12	10:54	-1.5E		09:12	13:06	-1.6E		08:36	11:48	-1.6E		03:18	06:06	2.5F
	15:06	17:12	0.9F		15:30	17:36	1.1F		16:48	18:36	-0.2E		17:48	18:36	0.1F		17:30	23:36	-0.1E		09:36	13:42	-2.0E
	19:12	23:30	-3.0E		19:36	23:54	-4.0E		23:06	23:06	-2.7E		19:24				23:36	23:36	-2.6E		18:24	19:24	0.2F
6 Tu	03:00	05:48	2.3F	21 W	03:30	06:18	3.2F	6 F	02:42	05:36	2.6F	21 Sa	03:48	06:36	-2.9E	6 Su	03:06	06:00	2.7F	21 Mo	04:18	01:06	-2.3E
	08:48	11:48	-1.7E		09:42	13:00	-1.6E		08:54	11:54	-1.3E		06:36	14:24	2.4F		09:24	13:12	-1.8E		10:24	07:06	2.0F
	16:06	17:42	0.4F		16:48	18:30	0.6F		17:42	17:42	-0.4E		10:12	14:24	-1.7E		18:36	18:36	-0.1E		19:24	14:36	-2.1E
	19:18				20:12								19:36						22:00		20:42	0.3F	
7 W	03:42	00:00	-2.8E	22 Th	04:24	00:54	-3.6E	7 Sa	03:36	00:06	-2.5E	22 Su	04:54	01:42	-2.5E	7 M	04:00	00:42	-2.4E	22 Tu	05:18	02:12	-1.9E
	06:24	2.3F	07:12		2.8F	06:24	2.4F		07:36	2.0F	07:00		2.4F	08:06	1.6F								
	09:30	12:24	-1.4E		10:36	14:18	-1.4E		09:48	13:36	-1.3E		11:12	15:42	-1.9E		10:18	14:18	-2.0E		11:12	15:30	-2.3E
	17:54				18:42	19:42	0.2F		18:48	18:48	-0.5E		20:24	21:36	0.2F		19:36				20:06	22:00	0.6F
8 Th	04:24	00:48	-2.6E	23 F ●	05:24	02:00	-3.1E	8 Su	04:30	01:12	-2.3E	23 M	06:00	02:48	-2.1E	8 Tu	05:00	01:54	-2.2E	23 W	06:30	03:18	-1.6E
	10:24	07:06	2.2F		08:06	2.3F	10:54		15:00	-1.5E	12:06		16:36	-2.2E	11:18		15:18	-2.4E	12:00		09:18	1.2F	
	13:12	-1.1E	15:48		-1.4E	20:30	-0.4E		20:54	22:42	0.6F		19:48	21:18	0.4F		20:36	22:54	-2.5E				
	18:42	-0.3E	21:24										23:00				23:00				23:42		
9 F	05:12	01:42	-2.4E	24 Sa	06:30	03:06	-2.7E	9 M	05:36	02:24	-2.2E	24 Tu	00:18	03:54	-2.0E	9 W	06:06	03:00	-2.0E	24 Th	01:06	04:24	-1.4E
	08:00	2.1F	09:12		1.9F	08:30	2.1F		07:06	10:00	1.5F		12:06	09:06	2.0F		07:48	10:24	1.0F				
	11:24	-1.0E	17:30		-1.6E	16:00	-1.9E		12:54	17:12	-2.4E		16:12	16:12	-2.9E		12:30	16:48	-2.8E				
	19:54	-0.6E	21:54		23:00	0.2F	21:24		22:42	1.0F	23:30		22:24	1.1F	20:12		22:24	1.4F					
10 Sa ●	06:12	02:54	-2.3E	25 Su	00:06	04:18	-2.5E	10 Tu	03:30	03:30	-2.3E	25 W	01:36	04:54	-1.8E	10 Th	00:36	04:06	-2.0E	25 F	02:18	05:30	-1.3E
	12:30	08:54	1.9F		10:30	1.7F	06:42		09:36	2.1F	08:12		10:54	1.4F	07:12		10:06	1.9F	09:06		11:12	0.7F	
		16:36	-1.1E		18:30	-2.0E	12:48		16:48	-2.3E	13:30		17:42	-2.7E	12:54		16:54	-3.4E	13:00		17:24	-3.0E	
	22:30	-0.6E	22:24										21:48				23:12				21:18		
11 Su	07:12	04:00	-2.3E	26 M	01:42	00:06	0.7F	11 W	00:42	04:36	-2.4E	26 Th	02:36	00:06	1.4F	11 F	01:54	05:12	-2.0E	26 Sa	03:18	00:06	1.8F
	10:06	1.9F	05:24		-2.4E	07:48	10:42		2.2F	05:48	-1.8E		11:06	1.8F	08:24		11:06	1.8F	06:30		1.3E		
	17:42	-1.4E	11:36		1.7F	13:36	17:30		-2.8E	11:42	1.3F		17:42	-3.8E	13:36		17:42	-3.8E	10:12		11:54	0.5F	
	23:42	-0.2E	19:06		-2.3E	21:24	23:42		1.4F	18:12	-3.0E		21:24				21:24				13:24	18:00	-3.2E
12 M	08:18	05:06	-2.5E	27 Tu	02:48	00:54	1.0F	12 Th	01:54	05:30	-2.5E	27 F	03:30	00:42	1.7F	12 Sa	03:00	00:00	2.5F	27 Su		00:36	2.1F
	14:30	11:12	2.1F		06:24	-2.4E	08:48		11:30	2.3F	06:42		-1.7E	06:12	-2.0E		07:30	-1.3E					
	22:54	18:30	-1.8E		12:24	1.8F	14:18		18:12	-3.4E	12:18		1.1F	11:54	1.6F		11:12	12:30	0.3F				
					15:18	19:36	-2.5E		21:48				14:30	18:42	-3.2E		14:12	18:24	-4.2E		13:42	18:36	-3.4E
13 Tu	01:42	00:18	0.4F	28 W	03:48	01:36	1.3F	13 F	03:00	00:24	2.1F	28 Sa	04:12	01:12	2.0F	13 Su	04:00	00:42	3.1F	28 M	04:42	01:00	2.4F
	09:18	12:12	2.4F		07:12	-2.3E	06:24		-2.6E	07:30	-1.7E		07:12	-2.0E	12:06		13:06	0.1F					
	15:18	19:06	-2.2E		10:30	1.8F	12:18		2.2F	12:54	0.9F		12:42	1.4F	14:00		19:12	-3.5E					
	23:00				15:54	20:00	-2.8E		14:54	18:54	-3.9E		14:48	19:12	-3.4E		14:54	19:06	-4.5E		14:00	19:12	
14 W	03:00	01:00	1.0F	29 Th	04:36	02:12	1.6F	14 Sa	04:00	01:06	2.8F	29 Su	04:54	01:36	2.3F	14 Mo	04:54	01:30	3.5F	29 Tu	05:12	01:30	2.7F
	10:12	06:54	-3.0E		08:00	-2.3E	07:24		-2.6E	08:06	-1.6E		11:30	13:36	1.2F		08:06	11:30	-2.0E		12:48	13:36	0.1F
	16:00	13:00	2.6F		11:18	1.7F	13:06		2.0F	13:30	0.6F		15:30	19:54	-4.6E		15:30	19:54	-4.6E		14:24	19:48	-3.6E
	23:24	-2.7E	16:24		-3.0E	20:24	-3.0E		15:30	-4.3E	15:12		-3.5E	23:12				23:18				23:12	
15 Th	04:00	01:42	1.6F	30 F	00:06	02:42	1.8F	15 Su	01:48	08:12	-3.5F	30 M	05:30	02:06	2.6F	15 Tu	05:48	02:12	3.7F	30 W	05:42	02:06	2.9F
	07:48	-3.2E	08:42		-2.2E	08:12	-2.5E		08:42	-1.6E	09:00		-2.0E	09:00	-2.0E		09:00	-1.5E					
	11:00	13:48	2.6F		12:00	1.6F	13:54		1.7F	12:30	14:00		0.4F	12:30	14:30		1.0F	13:18	14:18		0.2F		
	16:42	20:24	-3.3E		16:48	20:54	-3.2E		16:06	-4.5E	15:24		-3.6E	16:18	20:42		-4.5E	15:12	20:24		-3.6E		
31 Sa O				31 Sa O	00:30	03:12	2.0F																
					06:00	09:18	2.1E																
					12:42	15:00	1.3F																
					17:12	21:18	-3.3E																
31 Th				31 Th	06:12	02:48	3.1F																
					13:48	14:54	0.2F																
					16:00	21:06	-3.5E																



Admiralty Inlet (off Bush Point), 2021

The NOAA Tidal Current Predictions application provides predictions in both graphical and tabular formats, with many user selectable options, for several thousand stations distributed by key geographical areas, including individual bays and estuaries in each state. The Annual Current Table format provides predicted timing of slack water and predicted timing and speed of maximum flood (positive) and maximum ebb (negative) current speed. A line of asterisks (***) at the end of a calendar day indicate extra currents are included at the end of this product. Additional information can be found in the help page.

Station Types: The NOAA Tidal Current Predictions application provides current predictions from two distinct categories of stations:

1. Harmonic - The predicted current speeds and directions for Harmonic stations are computed by combining the harmonic constituents into a single tide curve.
2. Subordinate - The maximum speeds (flood and ebb) and slack current for Subordinate stations are computed by applying time differences and speed ratios to the times and speeds of a Reference station (a full Harmonic station).

Disclaimer: The official Tidal Current Prediction Tables are published annually on October 1, for the following calendar year. Tidal current predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web-based NOAA Tidal Current Predictions are based upon the latest information available as of the date of the request; tidal current predictions generated from this application may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

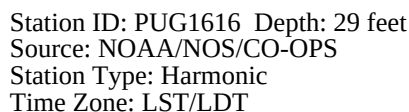
Admiralty Inlet (off Bush Point), 2021

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

January						February						March											
Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots	h	m	knots		
1 F	00:30	03:24	3.1F	16 Sa	01:18	04:12	3.1F	1 M	01:42	04:36	3.0F	16 Tu	02:24	05:12	2.1F	1 M	00:36	03:24	2.9F	16 Tu	02:18	05:00	2.0F
	06:54	10:00	-1.7E		07:30	11:12	-2.2E		07:42	11:12	-2.6E		08:06	11:54	-2.6E		06:24	09:54	-3.1E		07:42	11:24	-2.9E
	14:24	15:42	0.3F		15:18	17:00	0.6F		15:00	17:00	1.2F		15:48	17:48	1.1F		13:30	15:54	1.9F		15:06	17:30	1.7F
	16:48	21:42	-3.4E		18:30	22:42	-3.1E		19:12	22:54	-2.9E		20:06	23:48	-2.0E		18:24	21:54	-3.2E		20:06	23:30	-2.2E
2 Sa	01:12	04:12	3.1F	17 Su	02:06	05:00	2.8F	2 Tu	02:24	05:18	2.7F	17 W	03:12	05:54	1.5F	2 Tu	01:18	04:06	2.7F	17 W	03:06	05:36	1.5F
	07:30	10:42	-1.9E		08:12	12:06	-2.2E		08:18	12:06	-2.9E		08:30	12:36	-2.5E		07:00	10:36	-3.4E		08:06	12:00	-2.9E
	15:06	16:24	0.4F		16:12	17:48	0.6F		15:54	18:00	1.3F		16:24	18:36	1.1F		14:18	16:42	2.1F		15:36	18:06	1.8F
	17:48	22:30	-3.2E		19:18	23:30	-2.7E		20:12	23:48	-2.4E		21:06				19:18	22:36	-2.7E		20:54		
3 Su	02:00	04:54	3.0F	18 M	02:48	05:42	2.4F	3 W	03:12	06:06	2.2F	18 Th	04:18	00:48	-1.5E	3 W	02:06	04:54	2.2F	18 Th	04:00	00:12	-1.8E
	08:12	11:42	-2.0E		08:54	12:54	-2.3E		08:54	13:00	-3.1E		08:48	06:30	0.8F		07:30	11:24	-3.5E		08:18	06:12	0.9F
	16:00	17:24	0.4F		17:06	18:42	0.5F		16:48	18:54	1.4F		17:06	13:24	-2.5E		15:06	17:36	2.2F		16:12	12:36	-2.7E
	18:42	23:18	-2.9E		20:18				21:30				22:24	19:24	1.2F		20:24	23:30	-2.1E		21:48	18:48	1.8F
4 M	02:42	05:42	2.8F	19 Tu	03:42	00:30	-2.2E	4 Th	04:06	00:48	-1.8E	19 F	06:06	01:54	-1.1E	4 Th	03:00	05:36	1.7F	19 F	05:24	01:06	-1.4E
	08:54	12:42	-2.3E		09:36	06:30	1.9F		09:36	06:54	1.7F		08:30	07:12	0.2F		08:06	12:24	-3.5E		08:00	06:48	0.3F
	16:54	18:18	0.5F		17:54	13:42	-2.3E		17:42	20:00	-3.3E		17:54	14:12	-2.5E		16:00	18:30	2.2F		16:54	13:24	-2.5E
	19:48				21:30	19:42	0.5F		22:54		1.6F		23:54	20:24	1.3F		21:30				22:48	19:30	1.8F
5 Tu	03:36	00:12	-2.5E	20 W	04:42	01:30	-1.7E	5 F	05:18	02:06	-1.3E	20 Sa		03:30	-0.8E	5 F	04:00	00:36	-1.5E	20 Sa		02:12	-1.0E
	06:30	06:30	2.5F		07:18	1.3F	10:18		07:48	1.1F	08:36		-0.4E	06:24	1.1F		07:18	-0.3E					
	09:42	13:42	-2.5E		10:12	14:30	-2.4E		10:18	14:54	-3.5E		15:06	-2.5E	13:18		-3.5E	14:12	-2.4E				
	17:48	19:24	0.6F		18:42	20:54	0.7F		18:42	21:12	1.8F		21:30	1.5F	17:00		2.1F	20:18	1.7F				
6 W	04:30	01:12	-2.1E	21 Th	06:00	02:36	-1.2E	6 Sa	00:30	03:36	-1.1E	21 Su	01:18	06:48	-0.9E	6 Sa	05:42	02:00	-1.1E	21 Su	00:00	03:54	-0.9E
	07:24	2.1F	08:18		0.7F	07:00	09:12		0.7F	10:36	-0.5E		07:30	0.5F	08:18		-0.7E						
	10:30	14:36	-2.9E		10:42	15:12	-2.5E		11:12	15:54	-3.6E		15:54	-2.6E	14:24		-3.4E	15:12	-2.3E				
	18:36	20:36	1.0F		19:18	22:00	1.0F		19:36	22:18	2.2F		22:24	1.7F	20:36		2.1F	21:18	1.7F				
7 Th	05:36	02:30	-1.7E	22 F	00:42	03:54	-1.0E	7 Su	01:48	05:06	-1.1E	22 M	02:24	07:30	-1.1E	7 Su	00:18	03:42	-1.0E	22 M	01:12	07:36	-1.0E
	08:24	1.7F	08:00		09:42	0.3F	08:48		10:36	0.5F	11:30		-0.4E	09:18	0.2F		11:24	-0.7E					
	11:18	15:30	-3.3E		11:06	15:54	-2.7E		12:12	16:48	-3.7E		16:48	-2.8E	15:30		-3.3E	16:18	-2.3E				
	19:24	21:48	1.5F		19:54	22:42	1.4F		20:24	23:12	2.5F		20:18	23:12	2.0F		19:06	21:54	2.1F		22:30	1.7F	
8 F	00:30	03:42	-1.5E	23 Sa	02:06	05:24	-0.9E	8 M	02:54	06:30	-1.4E	23 Tu	03:00	07:42	-1.2E	8 M	01:30	05:30	-1.3E	23 Tu	02:12	07:42	-1.2E
	06:54	09:36	1.3F		10:48	16:36	-2.9E		10:00	11:48	0.6F		12:06	-0.2E	09:24		10:48	0.3F	12:12		-0.4E		
	12:00	16:24	-3.7E		20:24	23:24	1.8F		13:18	17:42	-3.8E		17:36	-3.0E	12:00		16:36	-3.3E	17:18		-2.5E		
	20:06	22:48	2.1F						21:18				23:54	2.3F	20:06		22:54	2.2F	20:36		23:30	1.9F	
9 Sa	01:54	05:00	-1.4E	24 Su	03:12	07:18	-1.0E	9 Tu	03:42	00:06	2.8F	24 W	03:36	07:30	-1.3E	9 Tu	02:30	06:42	-1.6E	24 W	03:06	07:24	-1.3E
	08:18	10:42	1.1F		11:36	-0.1E	07:30		-1.7E	11:48	12:36		0.1F	10:12	11:54		0.7F	12:42	-2.7E				
	12:48	17:12	-4.0E		17:18	-3.1E	12:42		0.7F	13:24	-3.2E		13:24	17:36	-3.3E		13:24	17:36	-3.3E		21:30		
	20:54	23:36	2.7F		21:00	23:54	2.2F		14:18	18:36	-3.8E		21:48		21:00		23:48	2.3F					
10 Su	03:00	06:12	-1.5E	25 M	03:54	07:54	-1.1E	10 W	04:24	00:48	2.9F	25 Th	04:06	00:36	2.5F	10 W	03:12	07:24	-2.0E	25 Th	03:42	00:18	2.1F
	09:36	11:42	0.9F		12:18	-0.2E	08:12		-1.9E	07:48	-1.6E		10:48	12:42	1.0F		10:48	12:42	1.0F		07:36	-1.6E	
	13:30	18:00	-4.2E		18:06	-3.2E	13:36		0.9F	13:36	0.5F		14:30	-3.3E	14:30		-3.3E	13:12	0.4F				
	21:36				21:36		-3.8E		15:18	19:30	-3.8E		22:30	-3.5E	21:48			-3.0E					
11 M	04:00	00:24	3.1F	26 Tu	04:18	00:30	2.4F	11 Th	05:00	01:36	3.0F	26 F	04:36	01:18	2.7F	11 Th	03:54	00:36	2.5F	26 F	04:18	01:06	2.4F
	10:42	07:18	-1.6E		12:48	08:06	-1.2E		12:24	08:48	-2.2E		11:48	08:12	-1.9E		11:24	07:54	-2.2E		11:42	08:06	-2.0E
	14:18	18:48	-4.2E		22:12	18:48	-3.4E		16:12	14:24	1.0F		15:36	13:42	0.9F		15:24	13:30	1.2F		15:42	13:42	0.9F
	22:18								23:30	20:12	-3.7E		23:12	19:54	-3.6E		22:30	19:18	-3.3E		23:06	19:48	-3.2E
12 Tu	04:48	01:06	3.3F	27 W	04:48	01:00	2.7F	12 F	05:42	02:18	3.0F	27 Sa	05:12	02:00	2.9F	12 F	04:30	01:18	2.6F	27 Sa	04:54	01:48	2.6F
	08:12	-1.8E	08:24		-1.3E	09:18	-2.3E		10:42	-2.3E	08:24		-2.3E	10:42	-2.3E		08:24	-2.5E	12:06		08:36	-2.5E	
	11:42	13:30	0.8F		12:30	0.1F	13:06		15:06	1.1F	14:24		1.3F	14:12	1.3F		14:12	1.5F	14:24		15:42	1.5F	
	15:12	19:36	-4.2E		14:12	19:30	-3.5E		17:00	20:54	-3.6E		16:36	20:36	-3.6E		16:12	20:00	-3.3E		16:42	20:30	-3.4E
13 W	05:30	01:54	3.4F	28 Th	05:12	01:42	2.9F	13 Sa	00:12	03:06	3.0F	28 Su	05:48	02:42	3.0F	13 Sa	05:06	02:00	2.6F	28 Su	05:30	02:36	2.7F
	12:36	08:54	-1.9E		08:36	-1.6E	10:00		-2.5E	12:48	10:00		-2.7E	12:30	14:48		1.4F	12:36	15:06		2.0F		
	16:06	14:24	0.8F		15:24	0.4F	13:48		15:48	1.1F	15:12		1.6F	17:00	20:36		-3.1E	17:36	21:12		-3.4E		
	23:48	20:24	-4.1E		20:12	-3.6E	17:42		21:36	-3.3E	17:30		-3.5E	23:54									
14 Th	06:12	02:42	3.4F	29 F	05:48	02:24	3.0F	14 Su	00:54	03:48	2.8F	15 M	06:42	02:42	3.0F	14 Su	06:42	03:42	2.6F	29 M	00:36	03:18	2.6F
	09:42	-2.1E	09:06		-1.8E	07:00	10:36		-2.5E	12:48	10:00		-2.7E	14:06	10:18		-2.9E	06:06	09:42		-3.5E		
	13:30	15:18	0.8F		14:42	0.6F	14:30		16:30	1.1F	15:12		1.6F	16:24	1.5F		13:12	15:48	2.5F				
	16:54	21:12	-3.9E		16:24	20:54	-3.7E		18:30	22:18	-3.0E		18:42	22:18	-2.9E		18:30	21:54	-3.2E				



Admiralty Inlet (off Bush Point), 2021

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.



Station ID: PUG1616 Depth: 29 feet
Source: NOAA/NOS/CO-OPS
Station Type: Harmonic
Time Zone: LST/LDT

NOAA Tidal Current Predictions

Admiralty Inlet (off Bush Point), 2021

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

July						August						September						
Slack			Maximum			Slack			Maximum			Slack			Maximum			
	h	m	h	m	knots		h	m	h	m	knots		h	m	h	m	knots	
1 Th	07:30	03:06	-2.2E	06:12	02:06	-2.5E	07:48	03:48	-2.6E	07:00	03:18	-3.4E	08:12	04:36	-2.4E	00:12	05:00	-3.2E
2 F	10:36	09:06	0.4F	07:48	07:48	0.7F	13:12	10:24	1.1F	12:42	09:30	1.9F	15:12	11:06	1.6F	08:30	11:18	2.2F
3 Sa	17:48	14:42	-2.0E	09:42	13:36	-2.1E	20:42	16:36	-1.0E	19:18	15:48	-1.1E	22:48	20:18	-1.3E	14:54	19:00	-1.5E
4 Su	23:42	20:36	1.7F	16:54	19:54	2.1F	23:42	22:12	0.2F	23:24	21:24	0.6F						
5 M																		
6 Tu																		
7 W																		
8 Th																		
9 F																		
10 Sa																		
11 Su																		
12 M																		
13 Tu																		
14 W																		
15 Th																		
16 F																		
17 Sa																		
18 Su																		
19 M																		
20 Tu																		
21 W																		
22 Th																		
23 F																		
24 Sa																		
25 Su																		
26 M																		
27 Tu																		
28 W																		
29 Th																		
30 F																		
31 Sa																		

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tidal current tables.

Generated on: Fri Aug 30 16:24:52 UTC 2019

Admiralty Inlet (off Bush Point), 2021

Latitude: 48.0335° N Longitude: 122.6376° W

Mean Flood Dir. 180° (T) Mean Ebb Dir. 347° (T)

Times and speeds of maximum and minimum current, in knots

October						November						December																						
Slack		Maximum				Slack		Maximum				Slack		Maximum				Slack		Maximum														
	h	m		h	m		h	m		h	m		h	m		h	m		h	m		h	m											
1 F			00:06	-0.4E		16 Sa	02:00	00:18	0.8F		1 M	02:18	00:36	0.6F		16 Tu	03:06	00:36	1.7F		1 W	02:12	05:36	-2.0E		16 Th								
			05:00	-2.2E																														
	08:18	11:12	17.7F	-1.4E			02:00	05:48	-2.7E			02:18	06:12	-2.3E			03:06	06:24	-2.0E			02:12	08:48	-1.7F			04:00	07:12	-2.1F		04:00	07:12	-2.1F	
	14:48	19:42	1.7F	-1.4E			09:12	12:00	2.0F			09:30	12:12	2.0F			09:30	12:06	1.7F			13:48	18:00	-3.7E			10:30	17:30	0.8F					
							15:06	19:24	-2.3E			15:06	19:00	-2.6E			14:36	18:48	-3.3E			21:36					14:18	18:42	-3.5E					
							23:00	19:24				22:54					22:36										22:24							
2 Sa			00:42	-2.5E		17 Su	03:12	01:06	1.2F		2 Tu	03:24	01:06	1.3F		17 W	04:00	01:12	2.0F		2 Th	03:18	00:18	2.5F		17 F								
			09:18	12:06	1.9F																													
	15:24	23:48	19.30	-1.6E			03:12	06:48	-2.7E			03:24	07:00	-2.5E			04:00	07:12	-1.9E			03:18	06:30	-2.0E			04:42	08:00	-1.5E		04:42	08:00	-1.5E	
							10:06	12:48	2.1F			10:18	12:54	2.1F			10:24	12:48	1.5F			09:42	12:06	1.5F			11:30	13:12	0.5F					
							15:48	19:54	-2.7E			15:42	19:36	-3.1E			15:06	19:18	-3.5E			14:24	18:42	-4.1E			14:42	19:18	-3.5E					
							23:36	19:54				23:12				23:00						22:12					22:48							
3 Su			01:12	0.4F		18 M	04:06	01:54	1.5F		3 W	04:24	01:42	2.0F		18 Th	04:42	01:42	2.2F		3 F	04:12	01:00	3.2F		18 Sa								
			06:48	-2.7E																														
	10:06	12:48	2.1F	-2.0E			04:06	07:36	-2.7E			04:24	07:48	-2.6E			04:42	07:54	-1.9E			04:12	07:24	-2.1E			05:18	08:36	-1.5E		05:18	08:36	-1.5E	
							10:54	13:30	2.2F			11:06	13:36	2.0F			11:12	13:30	1.2F			10:42	12:54	1.3F			12:36	13:54	0.3F					
							16:24	20:24	-3.0E			16:12	20:12	-3.7E			15:36	19:48	-3.6E			15:00	19:24	-4.5E			15:00	19:48	-3.5E					
							23:36	20:24				23:42				23:24						22:48					23:18							
4 M			01:36	0.8F		19 Tu	00:06	02:30	1.8F		4 Th	05:18	08:36	-2.5E		19 F	05:24	08:36	-1.8E		4 Sa	05:12	08:12	-2.1E		19 Su								
			07:30	-2.9E																														
	10:48	13:30	2.3F	-2.5E			00:06	08:24	-2.6E			05:18	08:36	-2.5E			05:24	08:36	-1.8E			05:12	08:12	-2.1E			05:48	09:12	-1.5E		05:48	09:12	-1.5E	
							11:36	14:12	2.1F			11:48	14:24	1.9F			12:06	14:06	0.9F			11:42	13:42	1.1F			13:48	20:24	-3.4E					
							16:54	20:54	-3.3E			16:48	20:48	-4.1E			16:00	20:18	-3.6E			15:36	20:06	-4.6E			15:12	20:24	-3.4E					
							23:36	20:54				23:48				23:48						23:36					23:48							
5 Tu			02:06	1.4F		20 W	00:36	03:06	2.0F		5 F	00:18	03:06	3.2F		20 Sa	06:00	02:42	2.7F		5 Su	06:00	02:30	4.0F		20 M								
			08:12	-3.0E																														
	11:30	14:12	2.4F	-3.0E			00:36	09:06	-2.5E			00:18	09:24	-2.5E			06:00	09:18	-1.8E			06:00	09:00	-2.0E			06:18	09:42	-1.5E		06:18	09:42	-1.5E	
							12:18	14:54	2.0F			12:42	15:06	1.6F			13:12	14:42	0.5F			12:42	14:36	0.9F			15:06	21:00	-3.3E					
							17:30	21:24	-3.4E			17:18	21:30	-4.4E			16:18	20:48	-3.5E			16:18	20:54	-4.6E			21:00							
6 W			00:18	1.9F		21 Th	01:00	03:36	2.2F		6 Sa	01:00	03:48	3.6F		21 Su	00:18	03:12	2.9F		6 M	00:18	03:18	4.0F		21 Tu								
			05:18	-0.8E																														
	12:12	14:54	2.4F	-3.5E			01:00	09:42	-2.4E			01:00	09:54	-1.7E			00:18	09:54	-1.7E			00:18	09:54	-1.9E			06:54	10:12	-1.6E		06:54	10:12	-1.6E	
							13:06	15:30	1.7F			13:36	15:48	1.3F			14:30	15:24	0.2F			13:48	15:30	0.7F			15:42	-0.1E						
							18:00	21:54	-3.5E			17:54	22:12	-4.5E			16:24	21:24	-3.3E			17:06	21:42	-4.4E			21:36	-3.1E						
7 Th			00:48	2.5F		22 F	01:30	04:12	2.4F		7 Su	01:00	03:36	3.8F		22 M	00:48	03:48	2.9F		7 Tu	01:12	04:06	3.8F		22 W								
			06:12	-2.9E																														
	12:54	15:30	2.2F	-3.9E			01:30	10:24	-2.2E			01:00	09:54	-2.1E			00:48	10:30	-1.6E			01:12	07:36	-1.8E			07:24	10:48	-1.6E		07:24	10:48	-1.6E	
							13:54	16:12	1.2F			13:36	15:36	1.0F			16:00	-0.1E				14:54	16:24	0.5F			16:18	-0.1E						
							18:24	22:24	-3.4E			17:30	21:54	-4.3E			22:00	-3.1E				17:54	22:36	-4.0E			22:12	-2.9E						
8 F			01:30	2.9F		23 Sa	01:54	04:42	2.5F		8 M	01:30	04:24	3.7F		23 Tu	01:24	04:24	2.9F		8 W	02:00	04:54	3.4F		23 Th								
			07:06	-2.7E																														
	13:42	16:12	2.0F	-4.1E			01:54	11:00	-2.0E			01:30	10:48	-1.9E			01:24	11:12	-1.5E			02:00	08:24	-1.8E			08:00	11:36	-1.6E		08:00	11:36	-1.6E	
							14:54	16:48	0.8F			14:48	16:30	0.6F			16:42	-0.4E				16:06	17:30	0.4F			17:00	-0.1E						
							18:42	22:54	-3.2E			18:06	22:48	-4.0E			22:36	-2.8E				18:48	23:36	-3.4E			22:54	-2.6E						
9 Sa			02:12	3.2F		24 Su	02:24	05:18	2.6F		9 Tu	02:24	05:12	3.4F		24 W	02:06	05:06	2.7F		9 Th	03:00	05:48	2.9F		24 F								
			08:00	-2.4E																														
	14:30	17:00	1.6F	-4.1E			02:24	11:42	-1.7E			02:06	12:00	-1.6E			02:06	12:12	-1.4E			03:00	09:12	-1.8E			08:42	12:24	-1.7E		08:42	12:24	-1.7E	
							16:18	17:24	0.2F			16:18	17:30	0.3F			17:18	-0.5E				13:12	18:36	-1.8E			17:54	-0.1E						
							18:36	23:30	-3.0E			18:48	23:54	-3.5E			23:24	-2.4E				19:54	23:42	-2.4E			23:42	-2.4E						
10 Su			03:00	3.2F		25 M	03:00	05:54	2.6F		10 W	03:18	06:06	2.9F		25 Th	02:54	05:48	2.4F		10 F	03:54	06:42	-2.9E		25 Sa								
			08:54	-1.9E																														
	15:30	17:42	1.1F	-1.1F			03:00	12:30	-1.4E			03:18	13:24	-1.5E			02:54	13:18	-1.3E			03:54	06:42	2.4F			09:24	13:24	-1.9E		09:24	13:24	-1.9E	
							18:06	18:06	-0.2E			18:06	18:06	-0.2E			18:18	-0.6E				14:18	20:06	-2.0E			18:48	20:06	-2.0E					
							23:36	18:06				19:30				18:18						21:24					21:24							
11 M			00:12	-3.9E		26 Tu	03:42	00:06	-2.7E		11 Th	04:24	01:06	-3.0E		26 F	03:42	00:24	-2.2E		11 Sa	05:00	01:48	-2.4E		26 Su								
			09:54	3.1F																														
	16:48	18:36	0.6F	0.6F			03:42	06:36	2.5F			04:24	07:06	2.4F			03:42	06:36	2.2F			05:00	07:42	2.0F			04:00	07:00	2.1F		04:00	07:00	2.1F	
							13:42	-1.2E				10:42	-1.2E				14:18	-1.5E				15:18	-2.3E				14:18	-2.2E						
							18:48	-0.6E				19:42	-0.6E				19:30	-0.6E				21:30	0.6F				20:00	0.2F						
							21:18					21:18																						



NOAA Tide Predictions

Seattle, WA, 2019

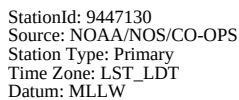
The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



January					February					March									
Time		Height			Time		Height			Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1	02:20 AM	9.3	283		16	01:27 AM	8.6	262		16	03:21 AM	10.8	329		16	02:47 AM	10.3	314	
	07:03 AM	6.2	189			05:58 AM	7.1	216			08:18 AM	7.9	241			08:06 AM	7.6	232	
	Tu 12:53 PM	11.9	363			W 11:55 AM	11.4	347			F 01:07 PM	10.9	332			Sa 12:48 PM	9.8	299	
	08:06 PM	0.1	3			07:11 PM	0.6	18			08:21 PM	-1.5	-46			F 07:49 PM	0.7	21	
2	03:31 AM	10.3	314		17	02:47 AM	9.7	296		17	04:03 AM	11.5	351		2	03:46 AM	11.1	338	
	08:18 AM	7.0	213			07:17 AM	7.8	238			09:15 AM	7.4	226			09:23 AM	6.7	204	
	W 01:35 PM	11.6	354			Th 12:40 PM	11.4	347			Sa 02:08 PM	11.2	341			Sa 01:49 PM	9.4	287	
	08:47 PM	-0.7	-21			07:58 PM	-0.6	-18			09:12 PM	-2.1	-64			08:37 PM	0.5	15	
3	04:26 AM	11.2	341		18	03:43 AM	10.7	326		18	04:40 AM	12.1	369		3	04:20 AM	11.3	344	
	09:22 AM	7.4	226			08:27 AM	8.0	244			10:03 AM	6.6	201			10:01 AM	6.2	189	
	Th 02:15 PM	11.2	341			F 01:28 PM	11.5	351			M 03:05 PM	11.5	351			Su 02:41 PM	9.5	290	
	09:24 PM	-1.1	-34			08:44 PM	-1.7	-52			10:01 PM	-2.4	-73			09:18 PM	0.4	12	
4	05:10 AM	11.8	360		19	04:27 AM	11.6	354		19	05:15 AM	12.4	378		4	04:46 AM	11.3	344	
	10:16 AM	7.6	232			09:25 AM	8.0	244			10:49 AM	5.7	174			10:31 AM	5.7	174	
	F 02:54 PM	10.9	332			Sa 02:17 PM	11.6	354			Tu 04:02 PM	11.6	354			M 03:25 PM	9.7	296	
	09:59 PM	-1.4	-43			09:31 PM	-2.6	-79			0	10:48 PM	-2.2	-67			09:55 PM	0.4	12
5	05:46 AM	12.1	369		20	05:08 AM	12.2	372		20	05:49 AM	12.7	387		5	05:06 AM	11.3	344	
	11:02 AM	7.6	232			10:17 AM	7.7	235			11:35 AM	4.7	143			10:55 AM	5.3	162	
	Sa 03:32 PM	10.6	323			Su 03:08 PM	11.8	360			W 04:58 PM	11.5	351			Tu 04:04 PM	9.8	299	
	10:34 PM	-1.4	-43			10:17 PM	-3.1	-94			11:34 PM	-1.5	-46			10:30 PM	0.5	15	
6	06:17 AM	12.2	372		21	05:47 AM	12.7	387		21	06:25 AM	12.8	390		6	05:24 AM	11.3	344	
	11:43 AM	7.5	229			11:06 AM	7.3	223			12:21 PM	3.7	113			11:19 AM	4.7	143	
	Su 04:10 PM	10.3	314			M 04:01 PM	11.8	360			Th 05:56 PM	11.2	341			W 04:43 PM	9.9	302	
	● 11:08 PM	-1.3	-40			0	11:04 PM	-3.2	-98			0	11:59 PM	0.1		302		● 11:03 PM	0.9
7	06:45 AM	12.2	372		22	06:26 AM	13.0	396		22	12:20 AM	-0.4	-12		7	05:44 AM	11.4	347	
	12:20 PM	7.3	223			11:56 AM	6.6	201			07:00 AM	12.8	390			11:45 AM	4.1	125	
	M 04:49 PM	10.0	305			Tu 04:55 PM	11.6	354			F 01:10 PM	2.8	85			Th 05:22 PM	10.0	305	
	10:44 PM	-1.0	-30			11:51 PM	-												

Page 2 of 5



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA, 2019

Times and Heights of High and Low Waters

April					May					June																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1	04:24 AM	10.8	329		16	03:35 AM	11.5	351		1	03:38 AM	10.7	326		16	03:23 AM	11.8	360		16	03:55 AM	11.2	341						
	10:32 AM	4.9	149				10:16 AM	2.8	85				10:06 AM	0.4		12			10:27 AM		-0.5	-15							
	03:34 PM	8.8	268				04:11 PM	8.8	268				04:32 PM	9.9		302			05:34 PM		10.2	311							
	09:48 PM	1.6	49				09:50 PM	3.4	104				10:02 PM	3.7		113			10:43 PM		6.2	189							
2	04:47 AM	10.8	329		17	04:11 AM	11.8	360		2	04:03 AM	10.8	329		17	03:57 AM	11.8	360		2	04:01 AM	10.9	332		17	04:33 AM	10.8	329	
	10:57 AM	4.2	128				10:39 AM	1.9	58				10:45 AM	-0.8		-24			11:00 AM		-1.5	-46				11:38 AM	-2.4	-73	
	04:20 PM	9.2	280				04:56 PM	9.4	287				05:31 PM	10.6		323			06:16 PM		10.8	329				07:16 PM	11.7	357	
	10:27 PM	1.7	52				10:30 PM	3.9	119				10:55 PM	4.6		140			11:28 PM		6.7	204							
3	05:07 AM	10.9	332		18	04:44 AM	11.9	363		3	04:27 AM	10.9	332		18	04:31 AM	11.7	357		3	04:33 AM	10.9	332		18	12:33 AM	7.0	213	
	11:19 AM	3.5	107				11:04 AM	0.9	27				11:23 AM	-1.7		-52			11:37 AM		-2.3	-70				05:12 AM	10.4	317	
	05:01 PM	9.6	293				05:37 PM	9.9	302				Sa 06:23 PM	11.2		341			06:59 PM		11.4	347				Tu 12:15 PM	-2.3	-70	
	11:03 PM	2.0	61				11:10 PM	4.4	134				○ 11:46 PM	5.4		165			●							07:55 PM	11.8	360	
4	05:27 AM	11.0	335		19	05:16 AM	12.0	366		4	04:53 AM	10.9	332		19	05:06 AM	11.3	344		4	12:15 AM	7.0	213		19	01:22 AM	7.1	216	
	11:42 AM	2.8	85				11:33 AM	-0.1	-3				12:00 PM	-2.2		-67			05:09 AM		10.8	329				05:52 AM	9.9	302	
	05:40 PM	9.9	302				Sa 06:18 PM	10.5	320				Su 07:13 PM	11.6		354			Tu 12:17 PM		-2.8	-85				W 12:54 PM	-2.0	-61	
	11:38 PM	2.5	76				● 11:49 PM	5.1	155				●						07:43 PM		11.8	360				08:30 PM	11.8	360	
5	05:49 AM	11.0	335		20	05:50 AM	11.8	360		5	05:20 AM	10.8	329		20	12:37 AM	6.1	186		5	01:04 AM	7.2	219		20	02:10 AM	7.0	213	
	12:08 PM	1.9	58				12:05 PM	-0.9	-27				05:42 AM	10.9		332			05:49 AM		10.6	323				06:35 AM	9.4	287	
	06:19 PM	10.2	311				Su 07:00 PM	10.9	332				M 12:39 PM	-2.3		-70			01:01 PM		-3.0	-91				Th 01:33 PM	-1.5	-46	
	●												08:00 PM	11.7		357			08:29 PM		12.0	366				09:06 PM	11.7	357	
6	12:13 AM	3.1	94		21	12:46 AM	4.1	125		6	12:31 AM	5.7	174		21	01:29 AM	6.5	198		6	01:56 AM	7.2	219		21	02:59 AM	6.7	204	
	06:14 AM	11.0	335				05:49 AM	10.7	326				06:20 AM	10.3		314			06:34 AM		10.3	314				07:21 AM	8.8	268	
	12:38 PM	1.1	34				12:41 PM	-1.5	-46				Tu 01:18 PM	-2.1		-64			01:47 PM		-2.9	-88				F 02:13 PM	-0.9	-27	
	07:00 PM	10.4	317				07:44 PM	11.2	341				08:46 PM	11.7		357			09:17 PM		12.1	369				09:41 PM	11.6	354	
7	12:49 AM	3.9	119		22	01:36 AM	5.1	155		7	01:15 AM	6.2	189		22	02:24 AM	6.8	207		7	02:53 AM	7.0	213		22	03:50 AM	6.4	195	
	06:40 AM	11.0	335				06:22 AM	10.5	320				07:00 AM	9.6		293			07:28 AM		9.8	299				08:13 AM	8.2	250	
	01:11 PM	0.4	12				01:21 PM	-1.9	-58				W 01:59 PM	-1.6		-49			F 02:36 PM		-2.4	-73				Sa 02:54 PM	0.0	0	
	07:44 PM	10.6	323				08:32 PM	11.4	347				09:32 PM	11.6		354			10:06 PM		12.1	369				10:18 PM	11.5	351	
8	01:28 AM	4.7	143		23	02:30 AM	6.0	183		8	02:03 AM	6.7	204		23	03:23 AM	6.9	210		8	03:57 AM	6.6	201		23	04:45 AM	5.9	180	
	07:08 AM	10.8	329				06:58 AM	10.2	311				07:46 AM	8.9		271			08:31 AM		9.1	277				09:11 AM	7.7	235	
	01:49 PM	-0.2	-6				W 02:05 PM	-2.0	-61				Th 02:42 PM	-0.9		-27			Sa 03:28 PM		-1.5	-46				Su 03:38 PM	1.0	30	
	08:32 PM	10.7	326				09:24 PM	11.5	351				10:19 PM	11.4		347			10:56 PM		12.0	366				10:57 PM	11.3	344	
9	02:10 AM	5.5	168		24	03:31 AM	6.6	201		9	02:58 AM	7.1	216		24	04:32 AM	6.8	207		9	05:07 AM	5.9	180		24	05:40 AM	5.2	158	
	07:39 AM	10.6	323				07:41 AM	9.8	299				08:38 AM	8.2		250			09:46 AM		8.4	256				10:20 AM	7.2	219	
	02:30 PM	-0.5	-15				Th 02:53 PM	-1.8	-55				F 03:27 PM	0.0		0			Su 04:24 PM		-0.2	-6				M 04:24 PM	2.1	64	
	09:25 PM	10.6	323				10:21 PM	11.4	347				11:07 PM	11.2		341			11:46 PM		12.0	366				11:36 PM	11.2	341	
10	02:57 AM	6.3	192		25	04:47 AM	6.9	210		10	04:02 AM	7.2	219		25	05:49 AM	6.4	195		10	05:07 AM	5.9	180		25	05:40 AM	5.2	158	
	08:14 AM	10.2	311				08:35 AM	9.3	283				09:42 AM	7.5		229			09:46 AM		8.4	256				10:20 AM	7.2	219	
	W 03:17 PM	-0.6	-18				F 03:47 PM	-1.3	-40				Sa 04:17 PM	0.9		27			Su 04:24 PM		-0.2	-6				M 04:24 PM	2.1	64	
	10:26 PM	10.5	320				11:22 PM	11.3	344				11:55 PM	11.0		335			11:46 PM		12.0	366				11:36 PM	11.2	341	
11	03:56 AM	7.0	213		26	06:27 AM	6.8	207		11	05:20 AM	6.9	210		26	07:00 AM	5.7	174		11	05:07 AM	5.9	180		25	06:33 AM	4.3	131	
	08:57 AM	9.8	299				10:18 AM	7.9	241				10:59 AM	7.0		213			11:13 AM		7.9	241				11:39 AM	6.9	210	
	Th 04:11 PM	-0.5	-15				Sa 04:46 PM	-0.5	-15				Su 05:12 PM	1.9		58			M 05:24 PM		1.2	37				Tu 05:15 PM	3.3	101	
	11:37 PM	10.4	317				●					●						●					●						
12	05:12 AM	7.4	226		27	01:01 AM	10.6	323		12	12:23 AM	11.3	344		27	12:40 AM	10.9	332		12	12:34 AM	12.0	366		26	12:14 AM	11.1	338	
	09:56 AM	9.3	283				07:52 AM	6.1	186				07:52 AM	4.8		146			07:21 AM		3.3	101				07:20 AM	3.3	101	
	05:12 PM	-0.2	-6				Su 11:12 AM	8.2	250				M 12:23 PM	6.9		210			Tu 12:48 PM		7.8	238				W 01:05 PM	7.1	216	
	●						06:07 PM	1.8	55				●						06:30 PM		2.6	79				06:13 PM	4.5	137	
13	12:55 AM	10.5	320		28	01:56 AM	10.6	323		13	12:40 AM	10.9	332		28	12:40 AM	10.9	332		13	01:19 AM	12.0	366		27	12:53 AM	11.0	335	
	06:45 AM	7.2	219				08:46 AM	5.3	162				07:52 AM	4.8		146			08:15 AM		1.8	55				08:00 AM	2.2	67	
	Sa 11:16 AM	8.9	271				Su 01:03 PM	7.4	226				M 12:23 PM	6.9		210			W 02:22 PM		8.3	253				Th 02:32 PM	7.7	235	
	06:20 PM	0.0	0				07:13 PM	2.3	70				06:12 PM	2.8		85			07:39 PM		3.9	119				07:18 PM	5.6	171	
14	02:03 AM	10.8	329		29	01:56 AM	10.6	323		14	01:22 AM	10.8	329		29	01:22 AM	10.8	329		14	02:01 AM	11.9	363		28	01:30 AM	10.9	33	



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA, 2019

Times and Heights of High and Low Waters

July					August					September				
Time		Height			Time		Height			Time		Height		
h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1	03:20 AM	10.9	332		16	04:17 AM	10.3	314		1	12:51 AM	3.0	91	
	10:33 AM	-2.2	-67			11:19 AM	-1.9	-58			06:31 AM	11.1	338	
M	06:08 PM	11.1	338		Tu	07:04 PM	11.6	354		Su	12:56 PM	-0.5	-15	
	11:10 PM	7.4	226		O						07:09 PM	10.8	329	
2	04:01 AM	11.0	335		17	12:26 AM	6.9	210		2	01:38 AM	2.1	64	
	11:14 AM	-3.0	-91			04:58 AM	10.0	305			07:31 AM	10.8	329	
Tu	06:49 PM	11.7	357		W	11:56 AM	-1.7	-52		M	01:43 PM	0.9	27	
●	11:59 PM	7.4	226			07:34 PM	11.6	354			08:07 PM	12.0	366	
3	04:46 AM	11.0	335		18	01:05 AM	6.7	204		3	02:27 AM	1.3	40	
	11:58 AM	-3.4	-104			05:40 AM	9.7	296			08:34 AM	10.3	314	
W	07:30 PM	12.0	366		Th	12:33 PM	-1.5	-46		Tu	02:32 PM	2.4	73	
						08:00 PM	11.6	354			08:46 PM	11.7	357	
4	12:49 AM	7.2	219		19	01:42 AM	6.4	195		4	03:19 AM	0.7	21	
	05:34 AM	10.8	329			06:23 AM	9.4	287			09:44 AM	9.9	302	
Th	12:44 PM	-3.4	-104		F	01:10 PM	-1.0	-30		W	03:26 PM	4.1	125	
	08:11 PM	12.3	375			08:27 PM	11.5	351			09:29 PM	11.2	341	
5	01:40 AM	6.8	207		20	02:19 AM	6.0	183		5	04:14 AM	0.5	15	
	06:28 AM	10.5	320			07:07 AM	9.0	274			11:05 AM	9.5	290	
F	01:31 PM	-3.0	-91		Sa	01:47 PM	-0.4	-12		Th	04:30 PM	5.5	168	
	08:54 PM	12.4	378			08:56 PM	11.5	351			10:17 PM	10.5	320	
6	02:35 AM	6.1	186		21	02:58 AM	5.5	168		6	05:14 AM	0.4	12	
	07:27 AM	10.0	305			07:55 AM	8.6	262			12:41 PM	9.6	293	
Sa	02:19 PM	-2.2	-67		Su	02:24 PM	0.5	15		F	05:56 PM	6.6	201	
	09:37 PM	12.4	378			09:28 PM	11.4	347		●	11:14 PM	9.8	299	
7	03:34 AM	5.4	165		22	03:41 AM	4.9	149		7	06:18 AM	0.5	15	
	08:32 AM	9.3	283			08:48 AM	8.2	250			02:16 PM	10.0	305	
Su	03:09 PM	-0.9	-27		M	03:03 PM	1.5	46		Sa	07:42 PM	6.8	207	
	10:20 PM	12.4	378			10:01 PM	11.3	344						
8	04:37 AM	4.4	134		23	04:26 AM	4.3	131		8	12:21 AM	9.3	283	
	09:47 AM	8.5	259			09:49 AM	7.8	238			07:24 AM	0.5	15	
M	04:02 PM	0.7	21		Tu	03:43 PM	2.7	82		Su	03:26 PM	10.5	320	
	11:04 PM	12.3	375			10:36 PM	11.1	338			09:04 PM	6.5	198	
9	05:42 AM	3.2	98		24	05:15 AM	3.5	107		9	01:32 AM	9.0	274	
	11:13 AM	8.0	244			11:00 AM	7.5	229			08:25 AM	0.4	12	
Tu	05:00 PM	2.5	76		W	04:29 PM	4.1	125		M	04:15 PM	10.8	329	
●	11:49 PM	12.1	369			11:13 PM	10.9	332			09:59 PM	5.9	180	
10	06:44 AM	2.0	61		25	06:06 AM	2.6	79		10	02:37 AM	9.1	277	
	12:51 PM	8.0	244			12:23 PM	7.6	232			09:17 AM	0.3	9	
W	06:06 PM	4.2	128		Th	05:24 PM	5.4	165		Tu	04:53 PM	11.0	335	
					●	11:52 PM	10.7	326			10:39 PM	5.4	165	
11	12:34 AM	11.8	360		26	06:57 AM	1.7	52		11	03:31 AM	9.2	280	
	07:42 AM	0.8	24			01:57 PM	8.1	247			10:02 AM	0.3	9	
Th	02:34 PM	8.6	262		F	06:34 PM	6.5	198		W	05:21 PM	11.0	335	
	07:22 PM	5.6	171								11:11 PM	4.9	149	
12	01:21 AM	11.5	351		27	12:35 AM	10.6	323		12	04:16 AM	9.4	287	
	08:34 AM	-0.3	-9			07:47 AM	0.6	18			10:41 AM	0.4	12	
F	03:58 PM	9.6	293		Sa	03:22 PM	8.9	271		Th	05:43 PM	10.9	332	
	08:41 PM	6.5	198			07:54 PM	7.2	219			11:37 PM	4.4	134	
13	02:06 AM	11.2	341		28	01:20 AM	10.5	320		13	04:56 AM	9.6	293	
	09:20 AM	-1.1	-34			08:35 AM	-0.5	-15			11:16 AM	0.7	21	
Sa	05:00 PM	10.5	320		Su	04:22 PM	9.8	299		F	06:01 PM	10.9	332	
	09:52 PM	6.9	210			09:05 PM	7.5	229						
14	02:51 AM	10.9	332		29	02:07 AM	10.6	323		14	12:01 AM	3.9	119	
	10:02 AM	-1.6	-49			09:22 AM	-1.5	-46			05:35 AM	9.7	296	
Su	05:49 PM	11.1	338		M	05:07 PM	10.6	323		Sa	11:49 AM	1.1	34	
	10:52 PM	7.1	216			10:03 PM	7.5	229		O	06:21 PM	10.9	332	
15	03:34 AM	10.6	323		30	02:56 AM	10.8	329		15	12:26 AM	3.3	101	
	10:42 AM	-1.9	-58			10:09 AM	-2.3	-70			06:13 AM	9.8	299	
M	06:30 PM	11.5	351		Tu	05:46 PM	11.2	341		Su	12:23 PM	1.7	52	
	11:42 PM	7.0	213			10:53 PM	7.2	219			06:44 PM	10.9	332	
					31	03:46 AM	11.0	335		30	12:24 AM	0.6	18	
						10:55 AM	-2.9	-88			06:36 AM	11.4	347	
					W	06:23 PM	11.7	357		M	12:37 PM	1.9	58	
						11:41 PM	6.7	204			06:40 PM	11.9	363	

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA, 2019

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
1 01:08 AM -0.3 -9 07:34 AM 11.3 344 Tu 01:26 PM 3.2 98 07:17 PM 11.6 354		16 12:50 AM 0.1 3 07:31 AM 10.7 326 W 01:12 PM 5.2 158 06:42 PM 10.5 320		1 02:07 AM -1.6 -49 09:30 AM 11.7 357 F 03:12 PM 6.8 207 07:57 PM 9.7 296		16 12:39 AM -1.8 -55 08:01 AM 11.8 360 Sa 01:36 PM 7.5 229 06:09 PM 9.9 302		1 01:23 AM -1.0 -30 09:00 AM 12.1 369 Su 03:10 PM 7.1 216 07:19 PM 8.7 265		16 01:08 AM -1.9 -58 08:35 AM 12.6 384 M 02:24 PM 7.1 216 06:56 PM 9.6 293	
2 01:53 AM -0.7 -21 08:34 AM 11.3 338 W 02:17 PM 4.5 137 07:56 PM 11.1 338		17 01:25 AM -0.3 -9 09:16 AM 10.8 329 Th 01:54 PM 5.9 180 07:11 PM 10.2 311		2 02:54 AM -0.9 -27 10:31 AM 11.5 351 Sa 04:30 PM 7.0 213 08:51 PM 8.8 268		17 01:25 AM -1.5 -46 08:53 AM 11.8 360 Su 02:37 PM 7.5 229 06:58 PM 9.4 287		2 02:08 AM 0.0 0 09:47 AM 11.9 363 M 04:25 PM 6.6 201 08:23 PM 7.9 241		17 01:56 AM -1.1 -34 09:21 AM 12.5 381 Tu 03:28 PM 6.4 195 08:06 PM 8.9 271	
3 02:41 AM -0.8 -24 09:39 AM 10.8 329 Th 03:16 PM 5.7 174 08:40 PM 10.3 314		18 02:05 AM -0.6 -18 09:06 AM 10.8 329 F 02:41 PM 6.6 201 07:44 PM 9.8 299		3 02:45 AM 0.0 0 10:35 AM 11.3 344 Su 05:08 PM 6.8 207 08:59 PM 8.0 244		18 02:15 AM -1.0 -30 09:49 AM 11.7 357 M 03:49 PM 7.2 219 08:05 PM 8.7 265		3 02:57 AM 1.1 34 10:34 AM 11.6 354 Tu 05:38 PM 5.9 180 09:41 PM 7.4 226		18 02:48 AM 0.1 3 10:08 AM 12.5 381 W 04:36 PM 5.4 165 09:29 PM 8.3 253	
4 03:31 AM -0.4 -12 10:35 AM 10.6 323 F 04:30 PM 6.6 201 09:32 PM 9.5 290		19 02:49 AM -0.6 -18 10:02 AM 10.7 326 Sa 03:38 PM 7.1 216 08:24 PM 9.4 287		4 03:41 AM 1.0 30 11:38 AM 11.1 338 M 06:31 PM 6.0 183 10:23 PM 7.5 229		19 03:11 AM -0.2 -6 11:46 AM 11.7 357 Tu 05:08 PM 6.5 198 09:32 PM 8.2 250		4 03:51 AM 2.3 70 11:19 AM 11.5 351 W 06:34 PM 5.0 152 11:10 PM 7.2 219		19 03:45 AM 1.5 46 10:55 AM 12.5 381 Th 05:42 PM 4.0 122 11:05 PM 8.1 247	
5 04:27 AM 0.1 3 12:15 PM 10.5 320 Sa 06:11 PM 6.8 207 10:36 PM 8.7 265		20 03:40 AM -0.4 -12 11:08 AM 10.6 323 Su 04:51 PM 7.4 226 09:20 PM 8.9 271		5 04:45 AM 1.9 58 12:35 PM 11.0 335 Tu 07:27 PM 5.2 158 11:53 PM 7.4 226		20 04:13 AM 0.7 21 11:41 AM 11.8 360 W 06:18 PM 5.3 162 11:07 PM 8.0 244		5 04:50 AM 3.4 104 12:01 PM 11.3 344 Th 07:16 PM 4.0 122		20 04:49 AM 3.1 94 11:41 AM 12.4 378 F 06:40 PM 2.5 76	
6 05:30 AM 0.8 24 10:35 PM 10.5 320 Su 07:51 PM 6.4 195 11:56 PM 8.2 250		21 04:38 AM -0.1 -3 12:19 PM 10.7 326 M 06:22 PM 7.2 219 10:41 PM 8.5 259		6 05:52 AM 2.6 79 01:16 PM 11.0 335 W 08:07 PM 4.2 128		21 05:20 AM 1.6 49 12:29 PM 11.9 363 Th 07:12 PM 3.8 116		6 12:40 AM 7.5 229 05:54 AM 4.4 134 F 12:38 PM 11.3 344 07:49 PM 2.9 88		21 12:45 AM 8.4 256 06:00 AM 4.5 137 Sa 12:25 PM 12.4 378 07:31 PM 0.9 27	
7 06:38 AM 1.3 40 02:38 PM 10.7 326 M 08:55 PM 5.7 174		22 05:44 AM 0.3 9 01:25 PM 10.9 332 Tu 07:40 PM 6.4 195		7 01:13 AM 7.8 238 06:56 AM 3.1 94 Th 01:50 PM 11.0 335 08:38 PM 3.4 104		22 12:38 AM 8.4 256 06:28 AM 2.6 79 F 01:11 PM 12.1 369 07:57 PM 2.1 64		7 02:00 AM 8.1 247 06:58 AM 5.2 158 Sa 01:12 PM 11.3 344 08:18 PM 1.9 58		22 02:16 AM 9.4 287 07:13 AM 5.7 174 Su 01:08 PM 12.3 375 08:17 PM -0.4 -12	
8 01:19 AM 8.1 247 07:45 AM 1.5 46 Tu 03:24 PM 10.8 329 09:40 PM 4.9 149		23 12:12 AM 8.4 256 06:53 AM 0.6 18 W 02:17 PM 11.2 341 08:35 PM 5.2 158		8 02:17 AM 8.4 256 07:50 AM 3.6 110 F 02:17 PM 11.0 335 09:03 PM 2.5 76		23 01:59 AM 9.2 280 07:33 AM 3.5 107 Sa 01:50 PM 12.3 375 08:39 PM 0.5 15		8 03:02 AM 9.0 274 07:56 AM 5.9 180 Su 01:43 PM 11.2 341 08:45 PM 0.8 24		23 03:29 AM 10.4 317 08:22 AM 6.5 198 M 01:50 PM 12.2 372 08:59 PM -1.5 -46	
9 02:31 AM 8.3 253 08:43 AM 1.7 52 W 03:58 PM 10.9 332 10:13 PM 4.2 128		24 01:36 AM 8.8 268 07:59 AM 0.8 24 Th 02:59 PM 11.5 351 09:19 PM 3.8 116		9 03:09 AM 9.0 274 08:37 AM 4.1 125 Sa 02:42 PM 11.1 338 09:26 PM 1.6 49		24 03:08 AM 10.1 308 08:32 AM 4.4 134 Su 02:26 PM 12.3 375 09:19 PM -0.8 -24		9 03:51 AM 9.9 302 08:48 AM 6.5 198 M 02:14 PM 11.2 341 09:14 PM -0.1 -3		24 04:26 AM 11.4 347 09:24 AM 7.1 216 Tu 02:31 PM 11.9 363 09:39 PM -2.1 -64	
10 03:28 AM 8.8 268 09:32 AM 1.8 55 Th 04:23 PM 10.9 332 10:40 PM 3.5 107		25 02:49 AM 9.4 287 08:58 AM 1.2 37 F 03:36 PM 11.8 360 09:59 PM 2.2 67		10 03:53 AM 9.7 296 09:19 AM 4.6 140 Su 03:07 PM 11.0 335 09:50 PM 0.7 21		25 04:08 AM 11.0 335 09:28 AM 5.2 158 M 03:02 PM 12.2 372 09:58 PM -1.8 -55		10 04:33 AM 10.6 323 09:34 AM 7.0 213 Tu 02:44 PM 11.1 338 09:45 PM -1.0 -30		25 05:15 AM 12.1 369 10:21 AM 7.4 226 W 03:12 PM 11.6 354 10:19 PM -2.4 -73	
11 04:14 AM 9.2 280 10:12 AM 2.1 64 F 04:43 PM 10.8 329 11:03 PM 2.9 88		26 03:53 AM 10.2 311 09:52 AM 1.8 55 Sa 04:10 PM 12.1 369 10:39 PM 0.8 24		11 04:33 AM 10.2 311 09:58 AM 5.2 158 M 03:32 PM 11.0 335 10:16 PM -0.1 -3		26 05:02 AM 11.7 357 10:21 AM 6.0 183 Tu 03:39 PM 12.0 366 10:37 PM -2.4 -73		11 05:11 AM 11.3 344 10:18 AM 7.4 226 W 03:15 PM 11.1 338 10:20 PM -1.7 -52		26 05:57 AM 12.5 381 11:13 AM 7.5 229 Th 03:54 PM 11.2 341 10:58 PM -2.3 -70	
12 04:55 AM 9.6 293 10:49 AM 2.5 76 Sa 05:03 PM 10.8 329 11:25 PM 2.1 64		27 04:52 AM 10.9 332 10:43 AM 2.6 79 Su 04:43 PM 12.1 369 11:19 PM -0.5 -15		12 05:11 AM 10.8 329 10:36 AM 5.8 177 Tu 03:58 PM 10.9 332 10:47 PM -0.8 -24		27 05:53 AM 12.2 372 11:14 AM 6.6 201 W 04:16 PM 11.5 351 11:17 PM -2.6 -79		12 05:48 AM 11.8 360 11:02 AM 7.6 232 Th 03:49 PM 11.0 335 10:57 PM -2.2 -67		27 06:36 AM 12.6 384 12:02 PM 7.4 226 F 04:36 PM 10.7 326 11:37 PM -2.0 -61	
13 05:34 AM 9.9 302 11:24 AM 3.1 94 Su 05:25 PM 10.8 329 11:50 PM 1.4 43		28 05:48 AM 11.4 347 11:32 AM 3.5 107 M 05:18 PM 12.1 369 11:59 PM -1.4 -43		13 05:50 AM 11.2 341 11:16 AM 6.3 192 W 04:26 PM 10.8 329 11:20 PM -1.4 -43		28 06:41 AM 12.4 378 12:07 PM 7.0 213 Th 04:56 PM 11.0 335 11:57 PM -2.4 -73		13 06:26 AM 12.2 372 11:47 AM 7.7 235 F 04:27 PM 10.9 332 11:38 PM -2.5 -76		28 07:12 AM 12.6 384 12:50 PM 7.3 223 Sa 05:21 PM 10.2 311	
14 06:11 AM 10.2 311 11:58 AM 3.7 113 M 05:49 PM 10.8 329		29 06:43 AM 11.8 360 12:22 PM 4.5 137 Tu 05:53 PM 11.8 360		14 06:30 AM 11.5 351 11:58 AM 6.8 207 Th 04:56 PM 10.6 323 11:58 PM -1.7 -52		29 07:28 AM 12.5 381 01:03 PM 7.2 219 F 05:39 PM 10.3 314		14 07:07 AM 12.4 378 12:34 PM 7.7 235 Sa 05:09 PM 10.6 323		29 12:17 AM -1.4 -43 07:47 AM 12.5 381 Su 01:38 PM 7.0 213 06:07 PM 9.6 293	
15 12:18 AM 0.7 21 06:50 AM 10.5 320 Tu 12:34 PM 4.4 134 06:15 PM 10.7 326		30 12:40 AM -1.9 -58 07:38 AM 11.9 363 W 01:13 PM 5.5 168 06:31 PM 11.2 341		15 07:13 AM 11.7 357 12:44 PM 7.2 219 F 05:30 PM 10.3 314		30 12:39 AM -1.8 -55 08:14 AM 12.3 375 Sa 02:03 PM 7.3 223 06:25 PM 9.5 290		15 12:21 AM -2.4 -73 07:50 AM 12.5 381 Su 01:26 PM 7.5 229 05:58 PM 10.2 311		30 12:57 AM -0.7 -21 08:21 AM 12.3 375 M 02:27 PM 6.6 201 06:58 PM 9.0 274	
		31 01:23 AM -2.0 -61 08:33 AM 11.9 363 Th 02:09 PM 6.3 192 07:12 PM 10.5 320								31 01:37 AM 0.3 9 08:57 AM 12.1 369 Tu 03:19 PM 6.1 186 07:53 PM 8.2 250	

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



NOAA Tide Predictions

Seattle, WA, 2020

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

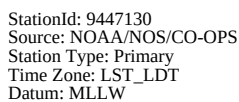
NOAA Tide Predictions

Seattle, WA,2020

Times and Heights of High and Low Waters

January					February					March									
Time		Height			Time		Height			Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1	02:18 AM	1.5	46		16	02:28 AM	0.9	27		1	02:35 AM	5.9	180		16	05:11 AM	7.0	213	
	09:35 AM	11.9	363			09:27 AM	12.8	390			08:41 AM	10.6	323			10:28 AM	10.3	314	
	04:19 PM	5.5	168			03:58 PM	3.8	116			03:35 PM	1.7	52			05:37 PM	0.2	6	
	09:01 PM	7.6	232			09:27 PM	8.7	265			10:29 PM	8.9	271						
2	03:02 AM	2.8	85		17	03:21 AM	2.8	85		2	03:27 AM	7.0	213		17	01:39 AM	10.3	314	
	10:12 AM	11.7	357			10:09 AM	12.6	384			09:17 AM	10.1	308			07:02 AM	7.5	229	
	05:13 PM	4.7	143			05:01 PM	2.6	79			04:29 PM	1.4	43			11:35 AM	9.5	290	
	10:23 PM	7.3	223			11:03 PM	8.4	256								06:45 PM	0.5	15	
3	03:50 AM	4.2	128		18	04:21 AM	4.7	143		3	12:04 AM	9.1	277		18	03:00 AM	10.7	326	
	10:50 AM	11.5	351			10:53 AM	12.4	378			04:46 AM	8.0	244			08:42 AM	7.1	216	
	06:03 PM	3.7	113			06:02 PM	1.4	43			10:05 AM	9.8	299			12:54 PM	9.0	274	
	11:59 PM	7.5	229						05:29 PM		0.9	27		07:53 PM		0.6	18		
4	04:49 AM	5.6	171		19	12:54 AM	8.9	271		4	01:47 AM	9.7	296		19	03:56 AM	11.1	338	
	11:28 AM	11.3	344			05:37 AM	6.3	192			06:34 AM	8.3	253			09:45 AM	6.3	192	
	06:46 PM	2.6	79			11:40 AM	12.0	366			11:08 AM	9.6	293			02:11 PM	8.9	271	
						06:59 PM	0.3	9			06:32 PM	0.4	12			08:54 PM	0.7	21	
5	01:42 AM	8.2	250		20	02:33 AM	9.9	302		5	02:48 AM	10.4	317		20	04:37 AM	11.3	344	
	06:00 AM	6.8	207			07:05 AM	7.4	226			07:57 AM	8.0	244			10:29 AM	5.6	171	
	12:07 PM	11.2	341			12:30 PM	11.7	357			12:17 PM	9.7	296			03:16 PM	9.1	277	
	07:25 PM	1.5	46			07:51 PM	-0.6	-18			07:31 PM	-0.3	-9			09:45 PM	0.7	21	
6	03:00 AM	9.2	280		21	03:42 AM	10.9	332		6	03:27 AM	11.0	335		21	05:08 AM	11.3	344	
	07:16 AM	7.6	232			08:28 AM	7.8	238			08:47 AM	7.4	226			11:03 AM	4.9	149	
	12:45 PM	11.0	335			01:21 PM	11.3	344			01:23 PM	10.0	305			04:08 PM	9.4	287	
	08:02 PM	0.4	12			08:38 PM	-1.2	-37			08:25 PM	-1.0	-30			10:27 PM	0.9	27	
7	03:53 AM	10.2	311		22	04:33 AM	11.7	357		7	03:59 AM	11.4	347		22	05:31 AM	11.2	341	
	08:25 AM	8.1	247			09:35 AM	7.8	238			09:27 AM	6.6	201			11:31 AM	4.3	131	
	01:23 PM	11.0	335			02:10 PM	11.1	338			02:23 PM	10.5	320			04:53 PM	9.6	293	
	08:39 PM	-0.6	-18			09:21 PM	-1.6	-49			09:15 PM	-1.4	-43			11:05 PM	1.2	37	
8	04:34 AM	11.1	338		23	05:15 AM	12.2	372		8	05:28 AM	11.8	360		23	05:50 AM	11.1	338	
	09:20 AM	8.3	253			10:28 AM	7.6	232			11:06 AM	5.6	171			11:55 AM	3.7	113	
	02:02 PM	11.0	335			02:58 PM	10.8	329			04:19 PM	11.0	335			05:33 PM	9.8	299	
	09:18 PM	-1.5	-46			10:02 PM	-1.6	-49			11:02 PM	-1.4	-43			11:39 PM	1.7	52	
9	05:09 AM	11.7	357		24	05:50 AM	12.3	375		9	05:58 AM	12.1	369		24	06:07 AM	11.1	338	
	10:07 AM	8.3	253			11:12 AM	7.3	223			11:46 AM	4.4	134			12:19 PM	3.0	91	
	02:43 PM	11.1	338			03:44 PM	10.6	323			05:15 PM	11.3	344			06:12 PM	9.9	302	
	09:58 PM	-2.3	-70			10:41 PM	-1.5	-46			11:47 PM	-1.0	-30						
10	05:43 AM	12.2	372		25	06:20 AM	12.3	375		10	06:29 AM	12.4	378		25	12:12 AM	2.3	70	
	10:51 AM	8.2	250			11:52 AM	7.0	213			12:28 PM	3.1	94			06:27 AM	11.1	338	
	03:26 PM	11.2	341			04:28 PM	10.3	314			06:11 PM	11.4	347			12:45 PM	2.3	70	
	10:40 PM	-2.7	-82			11:19 PM	-1.2	-37						06:51 PM		10.0	305		
11	06:17 AM	12.5	381		26	06:46 AM	12.2	372		11	12:32 AM	-0.1	-3		26	12:46 AM	3.1	94	
	11:34 AM	7.9	241			12:28 PM	6.6	201			07:02 AM	12.5	381			06:50 AM	11.0	335	
	04:13 PM	11.2	341			05:12 PM	10.0	305			01:12 PM	1.9	58			01:14 PM	1.6	49	
	11:23 PM	-2.9	-88			11:56 PM	-0.7	-21			07:08 PM	11.3	344			07:32 PM	10.1	308	
12	06:53 AM	12.7	387		27	07:11 AM	12.2	372		12	01:18 AM	1.2	37		27	01:20 AM	4.0	122	
	12:19 PM	7.4	226			01:04 PM	6.1	186			07:36 AM	12.5	381			07:16 AM	10.9	332	
	05:03 PM	11.0	335			05:56 PM	9.7	296			01:58 PM	0.9	27			01:46 PM	1.0	30	
											08:09 PM	11.0	335			08:16 PM	10.2	311	
13	12:08 AM	-2.6	-79		28	12:32 AM	0.1	3		13	02:05 AM	2.7	82		28	01:57 AM	4.9	149	
	07:30 AM	12.9	393			07:38 AM	12.1	369			08:12 AM	12.2	372			07:43 AM	10.6	323	
	01:08 PM	6.8	207			01:41 PM	5.6	171			02:47 PM	0.2	6			02:22 PM	0.6	18	
	05:58 PM	10.6	323			06:43 PM	9.3	283			09:14 PM	10.6	323			09:04 PM	10.1	308	
14	12:53 AM	-1.9	-58		29	01:08 AM	1.0	30		14	02:55 AM	4.3	131		29	02:37 AM	5.9	180	
	08:08 AM	12.9	393			08:06 AM	12.0	366			08:52 AM	11.8	360			08:11 AM	10.2	311	
	02:00 PM	5.9	180			02:20 PM	5.0	152			03:38 PM	-0.1	-3			03:02 PM	0.4	12	
	06:59 PM	10.1	308			07:35 PM	8.8	268			10:28 PM	10.3	314			09:59 PM	10.0	305	
15	01:40 AM	-0.7	-21		30	01:45 AM	2.2	67		15	03:54 AM	5.9	180		30	03:23 AM	6.8	207	
	08:47 AM	12.9	393			08:36 AM	11.8	360			09:36 AM	11.1	338			08:42 AM	9.8	299	
	02:57 PM	4.9	149			03:03 PM	4.4	134			04:34 PM	0.0	0			03:48 PM	0.3	9	
	08:08 PM	9.3	283			08:33 PM	8.4	256			11:57 PM	10.1	308			11:04 PM	9.9	302	
					31	02:23 AM	3.5	107							31	04:23 AM	7.5	229	
						09:09 AM	11.6	354								09:20 AM	9.4	287	
						03:49 PM	3.7	113								04:42 PM	0.4	12	
						09:42 PM	8.0	244											

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



July				August				September							
Time		Height		Time		Height		Time		Height		Time		Height	
h	m	ft	cm	h	m	ft	cm	h	m	ft	cm	h	m	ft	cm
1	01:31 AM	11.9	363	16	01:26 AM	10.3	314	1	02:45 AM	10.7	326	16	02:24 AM	9.7	296
	08:42 AM	-0.6	-18		08:44 AM	0.3	9		09:57 AM	-2.0	-61		09:33 AM	-1.1	-34
	W 03:54 PM	9.5	290		Th 04:42 PM	9.6	293		Sa 05:48 PM	11.4	347		Su 05:23 PM	10.8	329
	08:40 PM	6.3	192		09:14 PM	7.6	232		10:58 PM	7.0	213		10:36 PM	7.2	219
2	02:14 AM	11.8	360	17	02:07 AM	10.2	311	2	03:37 AM	10.5	320	17	03:15 AM	10.0	305
	09:28 AM	-1.8	-55		09:23 AM	-0.6	-18		10:42 AM	-2.1	-64		10:18 AM	-1.7	-52
	Th 05:00 PM	10.6	323		F 05:25 PM	10.3	314		Su 06:26 PM	11.6	354		M 05:52 PM	11.2	341
	09:49 PM	6.9	210		10:12 PM	7.8	238		11:45 PM	6.7	204		11:12 PM	6.7	204
3	02:59 AM	11.6	354	18	02:47 AM	10.2	311	3	04:27 AM	10.3	314	18	04:05 AM	10.4	317
	10:13 AM	-2.6	-79		10:02 AM	-1.4	-43		11:24 AM	-2.0	-61		11:02 AM	-2.1	-64
	F 05:54 PM	11.3	344		Sa 06:00 PM	10.9	332		M 06:59 PM	11.7	357		Tu 06:21 PM	11.5	351
	10:51 PM	7.2	219		10:57 PM	7.8	238		O 07:00 PM	11.0	335		11:49 PM	6.0	183
4	03:43 AM	11.3	344	19	03:29 AM	10.2	311	4	12:27 AM	6.3	192	19	04:54 AM	10.6	323
	10:56 AM	-3.0	-91		10:42 AM	-2.0	-61		05:14 AM	10.1	308		11:45 AM	-2.1	-64
	Sa 06:40 PM	11.8	360		Su 06:32 PM	11.3	344		Tu 12:04 PM	-1.7	-52		W 06:50 PM	11.7	357
	11:48 PM	7.3	223		11:38 PM	7.6	232		07:27 PM	11.6	354		● 06:50 PM	11.7	357
5	04:29 AM	10.9	332	20	04:11 AM	10.3	314	5	01:05 AM	5.8	177	20	12:29 AM	5.1	155
	11:39 AM	-3.0	-91		11:23 AM	-2.5	-76		06:00 AM	9.8	299		05:46 AM	10.7	326
	Su 07:22 PM	12.0	366		M 07:03 PM	11.6	354		W 12:43 PM	-1.1	-34		Th 12:28 PM	-1.7	-52
	● 07:22 PM	12.0	366		● 07:03 PM	11.6	354		07:54 PM	11.5	351		07:22 PM	11.9	363
6	12:40 AM	7.1	216	21	12:17 AM	7.3	223	6	01:43 AM	5.3	162	21	01:13 AM	4.1	125
	05:16 AM	10.5	320		04:57 AM	10.4	317		06:46 AM	9.5	290		06:41 AM	10.6	323
	12:21 PM	-2.7	-82		Tu 12:05 PM	-2.7	-82		Th 01:21 PM	-0.3	-9		F 01:12 PM	-0.8	-24
	M 08:00 PM	12.1	369		07:35 PM	11.8	360		08:20 PM	11.4	347		07:55 PM	12.1	369
7	01:30 AM	6.9	210	22	12:58 AM	6.8	207	7	02:20 AM	4.8	146	22	01:59 AM	3.0	91
	06:04 AM	10.0	305		05:45 AM	10.4	317		07:34 AM	9.1	277		07:40 AM	10.3	314
	Tu 01:03 PM	-2.2	-67		W 12:48 PM	-2.6	-79		F 01:58 PM	0.7	21		Sa 01:57 PM	0.5	15
	08:36 PM	12.0	366		08:08 PM	12.0	366		08:48 PM	11.3	344		08:30 PM	12.1	361
8	02:18 AM	6.5	198	23	01:43 AM	6.2	189	8	03:00 AM	4.2	128	23	02:49 AM	2.0	69
	06:54 AM	9.4	287		06:38 AM	10.1	308		08:26 AM	8.7	265		08:44 AM	9.9	302
	W 01:45 PM	-1.4	-43		Th 01:31 PM	-2.1	-64		Sa 02:35 PM	1.9	58		Su 02:44 PM	2.1	64
	09:10 PM	11.8	360		0										

Page 4 of 5



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA,2020

Times and Heights of High and Low Waters

October					November					December				
Time		Height			Time		Height			Time		Height		
h m		ft cm			h m		ft cm			h m		ft cm		
1	05:23 AM	9.8	299		16	04:58 AM	10.9	332		1	06:23 AM	11.7	357	
	11:24 AM	2.0	61			10:59 AM	1.8	55			11:43 AM	7.7	235	
	Th 05:42 PM	10.9	332			F 05:05 PM	12.1	369			Tu 04:18 PM	10.3	314	
2	06:02 AM	10.0	305		17	05:54 AM	11.4	347		2	06:59 AM	11.9	363	
	11:58 AM	2.7	82			11:46 AM	2.8	85			12:25 PM	7.9	241	
	F 06:02 PM	10.8	329			Sa 05:39 PM	12.1	369			W 04:50 PM	10.1	308	
3	12:25 AM	1.6	49		18	12:15 AM	-1.2	-37		3	12:03 AM	-1.7	-52	
	06:42 AM	10.1	308			06:50 AM	11.8	360			07:37 AM	12.0	366	
	Sa 12:32 PM	3.5	107			Su 12:35 PM	4.0	122			Th 01:10 PM	8.0	244	
4	06:25 PM	10.7	326		19	06:14 PM	12.0	366		4	05:25 PM	9.8	299	
						06:25 PM	12.0	366			12:43 AM	-1.5	-46	
											08:19 AM	12.1	369	
5	12:53 AM	1.0	30		20	12:59 AM	-2.0	-61		5	02:01 PM	7.9	241	
	07:22 AM	10.2	311			07:49 AM	11.9	363			06:07 PM	9.4	287	
	Su 01:08 PM	4.4	134			M 01:26 PM	5.1	155		19	01:33 AM	-1.0	-30	
6	06:51 PM	10.5	320		21	06:53 PM	11.6	354			09:07 AM	12.5	381	
											Sa 03:18 PM	6.6	201	
											07:42 PM	8.8	268	
7	01:25 AM	0.6	18		22	01:45 AM	-2.2	-67		6	01:28 AM	-1.1	-34	
	08:05 AM	10.3	314			08:50 AM	11.8	360			09:03 AM	12.0	366	
	M 01:46 PM	5.3	162			Tu 02:23 PM	6.1	186			Sa 02:58 PM	7.6	232	
8	07:18 PM	10.1	308		23	07:35 PM	10.9	332		7	07:00 PM	8.9	271	
											02:15 AM	-0.5	-15	
											09:50 AM	12.0	366	
9	02:00 AM	0.3	9		24	02:34 AM	-2.0	-61		8	Su 04:03 PM	7.0	213	
	08:52 AM	10.3	314			09:56 AM	11.6	354			08:12 PM	8.3	253	
	Tu 02:28 PM	6.1	186		25	03:30 PM	6.9	210		21	03:10 AM	1.7	52	
10	07:47 PM	9.7	296			08:24 PM	10.1	308			10:32 AM	11.9	363	
											M 05:32 PM	4.9	149	
											10:19 PM	7.5	229	
11	02:39 AM	0.2	6		26	03:27 AM	-1.3	-40		7	03:07 AM	0.4	12	
	09:44 AM	10.2	311			11:09 AM	11.4	347			10:36 AM	12.0	366	
	W 03:17 PM	6.9	210		27	Th 04:57 PM	7.2	219		8	M 05:09 PM	5.9	180	
12	08:17 PM	9.2	280			09:25 PM	9.1	277			09:41 PM	7.8	238	
											04:04 AM	1.6	49	
					28	04:27 AM	-0.4	-12		9	11:20 AM	12.1	369	
13	03:23 AM	0.3	9			12:26 PM	11.2	341			Tu 06:07 PM	4.5	137	
	10:46 AM	10.1	308			F 06:43 PM	6.8	207		23	11:16 PM	7.8	238	
	Th 04:20 PM	7.5	229		29	10:45 PM	8.3	253			05:06 AM	4.7	143	
14	08:55 PM	8.8	268								11:51 AM	11.5	351	
					30	05:33 AM	0.6	18		24	W 07:11 PM	2.8	85	
						01:35 PM	11.2	341			01:40 AM	8.1	247	
15	04:15 AM	0.5	15		31	Sa 08:04 PM	5.9	180			06:17 AM	5.9	180	
	11:59 AM	10.1	308		1	12:18 AM	7.9	241		25	Th 12:28 PM	11.2	341	
	F 05:52 PM	7.7	235		2	06:52 PM	5.7	174			07:48 PM	1.8	55	
16	09:53 PM	8.3	253			11:28 PM	7.9	241						
					3	05:47 AM	1.5	46		26	01:54 AM	8.1	247	
						12:58 PM	11.6	354			07:09 AM	4.3	131	
17	05:16 AM	0.7	21		4	Tu 07:34 PM	4.3	131		27	W 01:35 PM	11.3	344	
	01:15 PM	10.2	311		5						08:35 PM	2.1	64	
	Sa 07:36 PM	7.3	223		6	12:51 AM	8.4	256		28	03:00 AM	8.9	271	
18	11:20 PM	8.1	247			06:51 AM	2.1	64			08:06 AM	5.1	155	
					7	W 01:35 PM	11.8	360			Th 02:03 PM	11.2	341	
					8	08:12 PM	2.6	79		29	09:02 PM	1.2	37	
19	06:23 AM	0.7	21		9	12:03 AM	9.3	283			03:52 AM	9.7	296	
	02:15 PM	10.5	320		10	07:50 AM	2.8	85		30	08:56 AM	5.8	177	
	Su 08:31 PM	6.6	201		11	Th 02:10 PM	12.1	369			F 02:28 PM	11.1	338	
20					12	08:50 PM	0.9	27		1	09:27 PM	0.3	9	
					13	03:07 AM	10.2	311		2	04:36 AM	10.4	317	
					14	08:45 AM	3.6	110		3	09:41 AM	6.4	195	
21					15	F 02:44 PM	12.3	375			Sa 02:54 PM	10.9	332	
					16	09:29 PM	-0.7	-21		4	09:52 PM	-0.4	-12	
					17	04:06 AM	11.1	338		5	05:14 AM	10.9	332	
22					18	09:38 AM	4.5	137			10:23 AM	7.0	213	
					19	Sa 03:18 PM	12.4	378			Su 03:21 PM	10.8	329	
					20	10:10 PM	-2.0	-61		6	10:20 PM	-1.0	-30	
23					21	05:03 AM	11.9	363			03:23 PM	12.2	372	
					22	10:30 AM	5.4	165			10:33 PM	-3.4	-104	
					23	Su 03:55 PM	12.3	375		15	06:04 AM	12.7	387	
24					24	10:52 PM	-2.9	-88			11:19 AM	7.5	229	
					25	05:49 AM	11.4	347			Tu 04:07 PM	11.8	360	
					26	11:03 AM	7.4	226		30	11:17 PM	-3.4	-104	
25					27	M 03:48 PM	10.6	323			06:15 AM	12.1	369	
					28	10:51 PM	-1.4	-43			11:32 AM	8.1	247	
					29						W 03:56 PM	10.4	317	
26					30						11:06 PM	-1.9	-58	
					31						06:46 AM	12.3	375	
					1						12:11 PM	8.0	244	
27					2						Th 04:33 PM	10.4	317	
					3						11:46 PM	-2.1	-64	
					4									

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



NOAA Tide Predictions

Seattle, WA, 2021

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

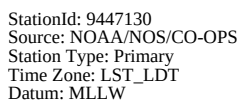
NOAA Tide Predictions

Seattle, WA, 2021

Times and Heights of High and Low Waters

January					February					March											
Time		Height			Time		Height			Time		Height			Time		Height				
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		
1	07:23 AM	12.4	378		16	12:27 AM	-1.3	-40		1	06:27 AM	12.4	378		16	01:19 AM	3.0	91			
	12:52 PM	7.8	238				07:49 AM	12.6	384				12:33 PM	2.9		88			07:28 AM	11.3	344
	F 05:17 PM	10.2	311			Sa	01:44 PM	6.2	189			M	06:18 PM	10.8		329		Tu	01:53 PM	1.8	55
						06:30 PM	9.6	293								08:09 PM	9.9	302			
2	12:27 AM	-1.9	-58		17	01:08 AM	-0.2	-6		2	12:31 AM	1.1	34		17	01:55 AM	4.2	128			
	07:57 AM	12.5	381				08:21 AM	12.4	378				06:57 AM	12.4		378			07:54 AM	11.0	335
	Sa 01:36 PM	7.3	223			Su	02:32 PM	5.6	171			Tu	01:17 PM	1.8		55		W	02:27 PM	1.4	43
	06:06 PM	9.9	302			07:27 PM	8.9	271			09:16 PM	8.7	265			08:58 PM	9.8	299			
3	01:09 AM	-1.4	-43		18	01:49 AM	1.2	37		3	01:15 AM	2.6	79		18	02:33 AM	5.3	162			
	08:32 AM	12.6	384				08:53 AM	12.2	372				07:30 AM	12.3		375			08:22 AM	10.6	323
	Su 02:26 PM	6.6	201			M	03:23 PM	4.9	149			W	02:05 PM	0.9		27		Th	03:05 PM	1.1	34
	07:04 PM	9.4	287			08:31 PM	8.3	253			08:22 PM	10.2	311			09:53 PM	9.7	296			
4	01:53 AM	-0.4	-12		19	02:30 AM	2.7	82		4	02:02 AM	4.3	131		19	03:17 AM	6.4	195			
	09:09 AM	12.6	384				09:27 AM	11.9	363				08:07 AM	12.0		366			08:53 AM	10.1	308
	M 03:20 PM	5.7	174			Tu	04:15 PM	4.1	125			Th	02:57 PM	0.3		9		F	03:47 PM	1.0	30
	08:12 PM	8.8	268			09:46 PM	7.8	238			09:38 PM	9.8	299			10:58 PM	9.5	290			
5	02:40 AM	1.0	30		20	03:15 AM	4.3	131		5	02:57 AM	6.0	183		20	04:11 AM	7.4	226			
	09:46 AM	12.5	381				10:01 AM	11.5	351				08:48 AM	11.5		351			09:27 AM	9.5	290
	Tu 04:19 PM	4.5	137			W	05:07 PM	3.3	101			F	03:55 PM	0.0		0		Sa	04:37 PM	1.1	34
	09:34 PM	8.3	253			11:22 PM	7.8	238			11:14 PM	9.8	299								
6	03:31 AM	2.7	82		21	04:08 AM	5.9	180		6	04:10 AM	7.4	226		21	12:21 AM	9.5	290			
	10:25 AM	12.5	381				10:38 AM	11.2	341				09:39 AM	10.8		329			05:34 AM	8.0	244
	W 05:18 PM	3.1	94			Th	05:58 PM	2.5	76			Sa	04:59 PM	-0.1		-3		Su	10:12 AM	9.0	274
	11:08 PM	8.2	250													05:35 PM	1.1	34			
7	04:30 AM	4.5	137		22	01:23 AM	8.4	256		7	01:06 AM	10.2	311		22	02:01 AM	9.8	299			
	11:06 AM	12.4	378				05:22 AM	7.3	223				05:58 AM	8.0		244			07:54 AM	8.1	247
	Th 06:14 PM	1.5	46			F	11:19 AM	10.8	329			Su	10:44 AM	10.2		311		M	11:19 AM	8.6	262
						06:45 PM	1.6	49			06:08 PM	-0.2	-6			06:39 PM	1.0	30			
8	12:53 AM	8.7	265		23	02:55 AM	9.4	287		8	02:28 AM	10.8	329		23	03:09 AM	10.2	311			
	05:41 AM	6.2	189				07:01 AM	8.2	250				07:45 AM	7.7		235			09:08 AM	7.6	232
	F 11:50 AM	12.3	375			Sa	12:02 PM	10.5	320			M	12:02 PM	9.8		299		Tu	12:39 PM	8.5	259
	07:08 PM	0.0	0			07:29 PM	0.8	24			07:15 PM	-0.3	-9			07:44 PM	0.7	21			
9	02:30 AM	9.8	299		24	03:50 AM	10.3	314		9	03:22 AM	11.3	344		24	03:50 AM	10.6	323			
	07:03 AM	7.4	226				08:28 AM	8.5	259				08:53 AM	7.0		213			09:40 AM	7.0	213
	Sa 12:36 PM	12.1	369			Su	12:48 PM	10.3	314			Tu	01:18 PM	9.7		296		W	01:51 PM	8.8	268
	07:58 PM	-1.2	-37			08:10 PM	0.1	3			08:15 PM	-0.4	-12			08:42 PM	0.3	9			
10	03:42 AM	11.0	335		25	04:29 AM	11.1	338		10	04:02 AM	11.6	354		25	04:20 AM	10.9	332			
	08:21 AM	8.0	244				09:27 AM	8.5	259				09:39 AM	6.2		189			10:06 AM	6.2	189
	Su 01:24 PM	11.9	363			M	01:34 PM	10.2	311			W	02:24 PM	9.8		299		Th	02:52 PM	9.3	283
	08:45 PM	-2.2	-67			08:50 PM	-0.6	-18			09:06 PM	-0.4	-12			09:32 PM	0.0	0			
11	04:37 AM	11.9	363		26	05:00 AM	11.6	354		11	04:34 AM	11.7	357		26	04:45 AM	11.2	341			
	09:29 AM	8.2	250				10:08 AM	8.3	253				10:17 AM	5.4		165			10:35 AM	5.2	158
	M 02:14 PM	11.8	360			Tu	02:19 PM	10.3	314			Th	03:20 PM	10.0		305		F	03:47 PM	9.9	302
	09:32 PM	-2.7	-82			09:30 PM	-1.2	-37			09:51 PM	-0.2	-6			10:18 PM	-0.1	-3			
12	05:22 AM	12.5	381		27	05:28 AM	11.9	363		12	05:00 AM	11.7	357		27	05:09 AM	11.5	351			
	10:28 AM	8.0	244				10:40 AM	8.1	247				10:51 AM	4.6		140			11:06 AM	3.9	119
	Tu 03:04 PM	11.5	351			W	03:02 PM	10.5	320			F	04:09 PM	10.1		308		Sa	04:40 PM	10.5	320
	10:17 PM	-2.9	-88			10:09 PM	-1.7	-52			10:31 PM	0.3	9			11:02 PM	0.3	9			
13	06:03 AM	12.7	387		28	05:54 AM	12.1	369		13	05:22 AM	11.6	354		28	05:35 AM	11.8	360			
	11:20 AM	7.7	235				11:11 AM	7.7	235				11:21 AM	3.8		116			11:42 AM	2.5	76
	W 03:55 PM	11.2	341			Th	03:46 PM	10.6	323			Sa	04:55 PM	10.1		308		Su	05:33 PM	10.9	332
	11:01 PM	-2.7	-82			10:49 PM	-2.0	-61			11:08 PM	1.0	30			11:45 PM	1.0	30			
14	06:40 AM	12.8	390		29	06:20 AM	12.3	375		14	06:42 AM	11.5	351		29	06:03 AM	12.0	366			
	12:08 PM	7.3	223				11:45 AM	7.2	219				12:51 PM	3.1		94			12:20 PM	1.2	37
	Th 04:46 PM	10.8	329			F	04:31 PM	10.7	326			Su	06:39 PM	10.1		308		M	06:27 PM	11.2	341
	11:44 PM	-2.1	-64			11:29 PM	-1.9	-58													
15	07:15 AM	12.7	387		30	06:47 AM	12.4	378		15	12:44 AM	1.9	58		30	12:28 AM	2.1	64			
	12:56 PM	6.8	207				07:26 AM	11.9	363				07:04 AM	11.4		347			06:33 AM	12.1	369
	F 05:37 PM	10.2	311			M	01:40 PM	3.9	119			M	01:21 PM	2.4		73		Tu	01:02 PM	-0.1	-3
						07:16 PM	9.4	287			07:23 PM	10.0	305			07:23 PM	11.3	344			
31	12:09 AM	-1.5	-46			12:09 AM	-1.5	-46			12:09 AM	-1.5	-46		31	01:14 AM	3.4	104			
	07:16 AM	12.6	384				07:16 AM	12.6	384				07:07 AM	12.0		366			07:07 AM	12.0	366
	Su 01:05 PM	5.6	171				06:12 PM	10.3	314				W 01:46 PM	-1.0		-30			01:46 PM	-1.0	-30
																08:23 PM	11.3	344			

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



April

May

June

Page 3 of 5



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA,2021

Times and Heights of High and Low Waters

July					August					September									
Time		Height			Time		Height			Time		Height			Time		Height		
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm
1	05:55 AM	4.3	131		16	04:44 AM	4.0	122		1	06:30 AM	1.9	58		16	12:00 AM	8.7	265	
	10:55 AM	7.4	226			10:02 AM	8.0	244			01:51 PM	8.1	247			07:13 AM	1.0	30	
	Th 04:45 PM	2.5	76			F 04:03 PM	2.0	61			05:53 PM	6.9	210			W 03:47 PM	9.9	302	
	0 11:48 PM	11.4	347			10:56 PM	11.9	363			11:37 PM	10.9	332			09:23 PM	7.4	226	
2	06:53 AM	3.2	98		17	05:40 AM	2.7	82		2	12:00 AM	10.1	308		17	06:58 AM	-0.6	-18	
	12:31 PM	7.2	219			11:27 AM	7.9	241			02:53 PM	9.7	296			08:11 AM	0.6	18	
	F 05:43 PM	4.1	125			Sa 04:56 PM	3.8	116			Tu 07:30 PM	7.6	232			Th 04:28 PM	10.4	317	
						0 11:34 PM	11.8	360			03:28 PM	9.0	274			10:06 PM	7.1	216	
3	12:25 AM	11.2	341		18	06:36 AM	1.3	40		3	12:36 AM	10.6	323		3	02:07 AM	8.8	268	
	07:42 AM	2.2	67			01:02 PM	8.1	247			08:01 AM	-1.2	-37			09:03 AM	0.1	3	
	Sa 02:17 PM	7.7	235			Su 06:01 PM	5.4	165			W 04:05 PM	10.5	320			F 04:58 PM	10.7	326	
	06:52 PM	5.6	171								08:59 PM	7.6	232			10:34 PM	6.6	201	
4	01:02 AM	10.8	329		19	12:16 AM	11.7	357		4	01:41 AM	10.5	320		4	03:00 AM	9.1	277	
	08:24 AM	1.2	37			07:31 AM	-0.1	-3			08:59 AM	-1.7	-52			09:48 AM	-0.4	-12	
	Su 03:45 PM	8.6	262			M 02:43 PM	9.0	274			Th 04:56 PM	11.1	338			Sa 05:22 PM	10.9	332	
	08:09 PM	6.7	204			07:19 PM	6.8	207			10:05 PM	7.2	219			10:58 PM	6.1	186	
5	01:38 AM	10.6	323		20	01:02 AM	11.6	354		5	02:45 AM	10.5	320		5	03:47 AM	9.6	293	
	09:01 AM	0.3	9			08:24 AM	-1.4	-43			09:52 AM	-2.0	-61			10:30 AM	-0.7	-21	
	M 04:48 PM	9.6	293			Tu 04:06 PM	10.0	305			F 05:46 PM	11.5	351			Su 05:44 PM	11.1	338	
	09:23 PM	7.3	223			08:41 PM	7.5	229			10:55 PM	6.5	198			11:24 PM	5.4	165	
6	02:15 AM	10.3	314		21	01:52 AM	11.5	351		21	03:45 AM	10.5	320		6	04:32 AM	10.0	305	
	09:35 AM	-0.4	-12			09:16 AM	-2.4	-73			10:41 AM	-2.1	-64			11:09 AM	-0.8	-24	
	Tu 05:35 PM	10.3	314			W 05:06 PM	11.0	335			Sa 06:10 PM	11.6	354			M 06:07 PM	11.3	344	
	10:24 PM	7.7	235			09:53 PM	7.7	235			11:39 PM	5.8	177			11:54 PM	4.5	137	
7	02:52 AM	10.1	308		22	02:45 AM	11.3	344		7	04:39 AM	10.5	320		7	05:18 AM	10.3	314	
	10:08 AM	-1.0	-30			10:05 AM	-3.0	-91			11:26 AM	-1.8	-55			11:48 AM	-0.5	-15	
	W 06:13 PM	10.9	332			Th 05:55 PM	11.6	354			Su 06:40 PM	11.6	354			Tu 06:31 PM	11.5	351	
	11:14 PM	7.8	238			10:54 PM	7.6	232			0 06:38 PM	11.3	344			0 06:31 PM	11.5	351	
8	03:28 AM	9.9	302		23	03:39 AM	11.2	341		8	12:19 AM	5.1	155		8	12:28 AM	3.5	107	
	10:42 AM	-1.4	-43			10:53 AM	-3.3	-101			05:31 AM	10.4	317			06:06 AM	10.4	317	
	Th 06:45 PM	11.2	341			F 06:37 PM	11.9	363			M 12:09 PM	-1.2	-37			W 12:28 PM	0.2	6	
	0 11:54 PM	7.8	238			11:48 PM	7.2	219			07:08 PM	11.6	354			06:58 PM	11.6	354	
9	04:06 AM	9.8	299		24	03:39 AM	11.2	341		9	12:59 AM	4.3	131		9	01:06 AM	2.4	73	
	11:17 AM	-1.8	-55			10:53 AM	-3.3	-101			06:21 AM	10.1	308			06:58 AM	10.5	320	
	F 07:14 PM	11.4	347			Su 07:27 PM	11.5	351			Tu 12:49 PM	-0.3	-9			Th 01:08 PM	1.3	40	
											07:35 PM	11.5	351			07:28 PM	11.7	357	
10	12:29 AM	7.7	235		25	04:32 AM	11.0	335		10	12:59 AM	4.3	131		10	01:06 AM	2.4	73	
	04:44 AM	9.8	299			11:40 AM	-3.2	-98			06:21 AM	10.1	308			06:58 AM	10.5	320	
	Sa 11:54 AM	-2.0	-61			Sa 07:16 PM	12.1	369			Tu 12:49 PM	-0.3	-9			Th 01:08 PM	1.3	40	
	0 07:42 PM	11.6	354								07:35 PM	11.5	351			07:28 PM	11.7	357	
11	01:03 AM	7.5	229		26	12:38 AM	6.7	204		11	01:37 AM	3.6	110		11	01:48 AM	1.3	40	
	05:24 AM	9.7	296			05:26 AM	10.7	326			07:12 AM	9.8	299			01:54 AM	10.4	317	
	Su 12:32 PM	-2.1	-64			Su 12:26 PM	-2.8	-85			W 01:29 PM	0.9	27			F 01:51 PM	2.7	82	
	08:10 PM	11.7	357			07:53 PM	12.1	369			08:03 PM	11.3	344			07:59 PM	11.6	354	
12	01:39 AM	7.2	219		27	01:27 AM	6.1	186		12	02:17 AM	3.0	91		12	02:34 AM	0.4	12	
	06:07 AM	9.6	293			06:20 AM	10.2	311			08:05 AM	9.4	287			08:55 AM	10.2	311	
	M 01:12 PM	-2.0	-61			W 01:30 PM	-0.6	-18			Th 02:08 PM	2.3	70			Sa 02:37 PM	4.2	128	
	08:41 PM	11.8	360			08:23 PM	11.8	360			08:31 PM	11.1	338			08:35 PM	11.4	347	
13	02:19 AM	6.7	204		28	02:15 AM	5.4	165		13	02:57 AM	2.4	73		13	03:23 AM	-0.2	-6	
	06:54 AM	9.3	283			07:50 AM	9.6	293			09:01 AM	9.0	274			10:06 AM	9.9	302	
	Tu 01:52 PM	-1.5	-46			Th 02:11 PM	0.6	18			F 02:48 PM	3.7	113			Su 03:31 PM	5.7	174	
	09:12 PM	11.9	363			08:54 PM	11.9	363			09:02 PM	10.7	326			09:15 PM	10.9	332	
14	03:03 AM	6.0	183		29	03:04 AM	4.7	143		14	03:39 AM	2.0	61		14	04:19 AM	-0.5	-15	
	07:48 AM	9.0	274			08:13 AM	9.0	274			10:05 AM	8.8	268			11:30 AM	9.8	299	
	W 02:33 PM	-0.7	-21			W 02:36 PM	0.5	15			Sa 03:33 PM	5.2	158			M 04:40 PM	6.9	210	
	09:45 PM	11.9	363			09:33 PM	11.7	357			09:36 PM	10.2	311			0 10:05 PM	10.4	317	
15	03:52 AM	5.1	155		30	03:54 AM	4.0	122		15	04:24 AM	1.7	52		15	05:21 AM	-0.5	-15	
	08:50 AM	8.5	259			09:17 AM	8.3	253			11:21 AM	8.6	262			01:11 PM	10.0	305	
	Th 03:17 PM	0.5	15			Th 03:19 PM	2.1	64			Su 04:29 PM	6.5	196			Tu 06:17 PM	7.6	232	
	10:20 PM	11.9	363			10:04 PM	11.6	354			10:14 PM	9.7	298			11:10 PM	9.8	299	
16	04:45 AM	3.3	101		31	04:01 AM	1.9	58		16	05:15 AM	1.5	46		16	06:30 AM	-0.5	-15	
	10:29 AM	7.8	238			10:02 AM	8.8	268			01:03 PM	8.8	268			02:41 PM	10.5	320	
	F 04:05 PM	3.8	116			Sa 03:41 PM	3.8	116			M 05:55 PM	7.4	226			W 08:04 PM	7.4	226	
	10:41 PM	11.0	335			10:04 PM	11.6	354			0 11:01 PM	9.1	277						
17	05:37 AM	2.6	79		32	04:56 AM	1.0	30		17	06:13 AM	1.3	40		17	06:18 AM	1.3	40	
	11:58 AM	7.7	235			11:26 AM	8.7	265			02:45 PM	9.4	287			02:42 PM	10.2	311	
	Sa 04:59 PM	5.4	165			Su 04:38 PM	5.5	168			Tu 08:04 PM	7.7	235			Th 09:08 PM	6.9	210	
	0 11:19 PM	10.6	323			0 10:46 PM	11.3	344											



StationId: 9447130
Source: NOAA/NOS/CO-OPS
Station Type: Primary
Time Zone: LST_LDT
Datum: MLLW

NOAA Tide Predictions

Seattle, WA, 2021

Times and Heights of High and Low Waters

October					November					December				
Time		Height			Time		Height			Time		Height		
h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1	12:36 AM	7.8	238		16	02:02 AM	8.6	262		1	02:28 AM	9.4	287	
	07:24 AM	1.1	34			08:21 AM	0.9	27			07:45 AM	5.0	152	
F	03:24 PM	10.5	320		Sa	03:39 PM	11.4	347		W	01:43 PM	12.2	372	
	09:35 PM	6.3	192			09:53 PM	4.0	122			08:42 PM	-0.4	-12	
2	01:47 AM	8.2	250		17	03:14 AM	9.0	274		2	03:30 AM	10.5	320	
	08:22 AM	0.9	27			09:18 AM	1.4	43			08:42 AM	5.9	180	
Sa	03:54 PM	10.7	326		Su	04:10 PM	11.4	347		Th	02:18 PM	12.3	375	
	09:57 PM	5.5	168			10:28 PM	2.9	88			09:21 PM	-1.9	-58	
3	02:47 AM	8.8	268		18	04:14 AM	9.5	290		3	04:26 AM	11.5	351	
	09:13 AM	0.6	18			10:07 AM	2.0	61			09:37 AM	6.7	204	
Su	04:19 PM	11.0	335		M	04:35 PM	11.3	344		F	02:54 PM	12.4	378	
	10:21 PM	4.6	140			10:59 PM	1.9	58			10:02 PM	-3.1	-94	
4	03:39 AM	9.4	287		19	05:05 AM	9.9	302		4	05:19 AM	12.3	375	
	09:58 AM	0.7	21			10:50 AM	2.8	85			10:32 AM	7.3	223	
M	04:42 PM	11.2	341		Tu	04:56 PM	11.2	341		Sa	03:34 PM	12.2	372	
	10:48 PM	3.4	104			11:27 PM	1.1	34			10:46 PM	-3.8	-116	
5	04:28 AM	10.0	305		20	05:51 AM	10.3	314		5	06:12 AM	12.8	390	
	10:40 AM	1.0	30			11:29 AM	3.7	113			11:27 AM	7.6	232	
Tu	05:07 PM	11.5	351		W	05:18 PM	11.1	338		Su	04:18 PM	11.9	363	
	11:20 PM	2.1	64			11:55 PM	0.4	12			11:32 PM	-3.9	-119	
6	05:17 AM	10.6	323		21	06:34 AM	10.5	320		6	07:04 AM	12.9	393	
	11:22 AM	1.6	49			12:08 PM	4.7	143			12:25 PM	7.8	238	
W	05:33 PM	11.7	357		Th	05:41 PM	10.8	329		M	05:06 PM	11.4	347	
●	11:55 PM	0.8	24											
7	06:08 AM	11.0	335		22	12:23 AM	-0.1	-3		7	12:20 AM	-3.5	-107	
	12:04 PM	2.6	79			07:15 AM	10.8	329			07:57 AM	12.9	393	
Th	06:02 PM	11.8	360		F	12:47 PM	5.6	171		Tu	01:27 PM	7.7	235	
						06:06 PM	10.5	320			06:00 PM	10.7	326	
8	12:34 AM	-0.4	-12		23	12:52 AM	-0.5	-15		8	01:10 AM	-2.6	-79	
	07:02 AM	11.3	344			07:56 AM	10.9	332			08:49 AM	12.7	387	
F	12:49 PM	3.8	116		Sa	01:29 PM	6.4	195		W	02:36 PM	7.3	223	
	06:34 PM	11.7	357			06:33 PM	10.1	308			07:02 PM	9.7	296	
9	01:17 AM	-1.3	-40		24	01:25 AM	-0.6	-18		9	02:02 AM	-1.4	-43	
	07:58 AM	11.4	347			08:40 AM	11.0	335			09:42 AM	12.5	381	
Sa	01:37 PM	5.0	152		Su	02:14 PM	7.0	213		Th	03:52 PM	6.6	201	
	07:09 PM	11.4	347			07:01 PM	9.6	293			08:15 PM	8.8	268	
10	02:02 AM	-1.8	-55		25	02:02 AM	-0.5	-15		10	02:57 AM	0.0	0	
	09:00 AM	11.3	344			09:27 AM	10.9	332			10:32 AM	12.3	375	
Su	02:30 PM	6.2	189		M	03:06 PM	7.5	229		F	05:10 PM	5.6	171	
	07:48 PM	11.0	335			07:32 PM	9.1	277			09:42 PM	8.0	244	
11	02:53 AM	-1.8	-55		26	02:43 AM	-0.2	-6		11	03:56 AM	1.6	49	
	10:09 AM	11.1	338			10:21 AM	10.8	329			11:20 AM	12.1	369	
M	03:34 PM	7.1	216		Tu	04:14 PM	7.8	238		Sa	06:17 PM	4.3	131	
	08:35 PM	10.3	314			08:07 PM	8.5	259		●	11:23 PM	7.6	232	
12	03:48 AM	-1.4	-43		27	03:30 AM	0.3	9		12	05:00 AM	3.2	98	
	11:29 AM	10.9	332			11:23 AM	10.7	326			12:03 PM	11.9	363	
Tu	05:00 PM	7.5	229		W	06:02 PM	7.7	235		Su	07:10 PM	3.0	91	
	09:36 PM	9.5	290			08:59 PM	7.9	241						
13	04:51 AM	-0.7	-21		28	04:24 AM	0.8	24		13	01:07 AM	8.0	244	
	12:55 PM	10.9	332			12:28 PM	10.6	323			06:10 AM	4.7	143	
W	06:51 PM	7.2	219		Th	07:48 PM	7.2	219		M	12:41 PM	11.7	357	
●	10:59 PM	8.7	265			10:28 PM	7.5	229			07:52 PM	1.8	55	
14	06:02 AM	0.0	0		29	05:26 AM	1.2	37		14	02:34 AM	8.8	268	
	02:07 PM	11.1	338			01:26 PM	10.7	326			07:20 AM	5.8	177	
Th	08:17 PM	6.3	192		F	08:25 PM	6.4	195		Tu	01:14 PM	11.5	351	
											08:27 PM	0.8	24	
15	12:34 AM	8.4	256		30	12:02 AM	7.4	226		15	03:40 AM	9.8	299	
	07:15 AM	0.5	15			06:32 AM	1.6	49			08:26 AM	6.7	204	
F	03:00 PM	11.3	344		Sa	02:10 PM	10.9	332		W	01:46 PM	11.2	341	
	09:11 PM	5.1	155			08:50 PM	5.5	168			08:58 PM	0.0	0	
					31	01:23 AM	7.7	235		30	02:33 AM	9.7	296	
						07:34 AM	1.8	55			07:16 AM	7.1	216	
					Su	02:43 PM	11.2	341		Th	12:55 PM	12.2	372	
						09:14 PM	4.3	131			08:12 PM	-1.4	-43	
										31	03:40 AM	10.9	332	
											08:26 AM	7.8	238	
										F	01:38 PM	12.3	375	
											08:56 PM	-2.7	-82	

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.