



Dana Passage, 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).
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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: PUG1539 Depth: 16 feet
 Source: NOAA/NOS/CO-OPS
 Station Type: Harmonic
 Time Zone: LST/LDT

NOAA Tidal Current Predictions

Dana Passage, 2020

Latitude: 47.1631° N Longitude: 122.8681° W
 Mean Flood Dir. 242° (T) Mean Ebb Dir. 49° (T)

Times and speeds of maximum and minimum current, in knots

January				February				March																								
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 W	03:42AM	06:24AM	-1.7F	16 Th	03:42AM	12:06AM	-2.3E	1 Sa	04:18AM	12:54AM	-1.3E	16 Su	05:24AM	01:48AM	-1.1E	1 Su	12:30AM	-1.3E	16 Mo	12:24AM	02:48AM	-1.0E										
	10:18AM	01:06PM	1.6F		10:12AM	01:06PM	-2.2E		10:18AM	01:42PM	-2.1E		10:54AM	02:24PM	-2.3E		03:48AM	06:30AM		1.3F	06:24AM	08:30AM	1.0F									
	05:00PM	06:54PM	1.0F		05:00PM	07:12PM	1.5F		05:54PM	08:06PM	1.2F		06:30PM	09:24PM	1.6F		09:12AM	12:54PM		-2.2E	09:48AM	01:48PM	-2.1E	11:18AM	02:48PM	-2.1E						
	09:48PM				10:18PM				11:36PM				07:30PM	10:54PM	1.7F		11:00PM	07:18PM		1.5F	05:48PM	08:18PM	1.5F	07:00PM	10:06PM	1.6F						
2 Th	04:24AM	12:42AM	-1.7E	17 Fr	04:36AM	01:00AM	-1.8E	2 Su	05:18AM	01:54AM	-1.0E	17 M	01:00AM	04:18AM	-0.9E	2 Mo	01:24AM	-1.0E	17 Tu	01:42AM	05:24AM	-1.1E	2 We	01:42AM	05:24AM	-1.1E						
	10:54AM	01:54PM	-1.7E		10:54AM	02:06PM	-2.3E		10:48AM	02:30PM	-2.1E		11:54AM	03:24PM	-2.2E		04:54AM	07:18AM		1.1F	07:42AM	09:42AM		0.8F	07:42AM	09:42AM	0.8F					
	05:54PM	07:54PM	1.0F		06:00PM	08:24PM	1.5F		06:42PM	09:06PM	1.3F		07:30PM	10:54PM	1.7F		08:00AM	10:12AM		0.8F	09:48AM	01:48PM		-2.1E	12:30PM	03:54PM	-1.9E	08:06PM	11:36PM	1.6F		
	10:54PM				11:36PM				06:42PM	09:06PM	1.3F		07:30PM	10:54PM	1.7F		05:48PM	08:18PM		1.5F	05:48PM	08:18PM		1.5F	08:06PM	11:36PM	1.6F	09:48AM	01:48PM	-2.1E		
3 Fr	05:12AM	01:36AM	-1.3E	18 Sa	05:36AM	02:06AM	-1.4E	3 M	01:00AM	03:00AM	-0.8E	18 Tu	02:18AM	05:54AM	-1.1E	3 Tu	12:18AM	02:30AM	-0.9E	18 We	02:54AM	06:30AM	-1.3E	3 Th	02:54AM	06:30AM	-1.3E					
	11:30AM	02:42PM	1.4F		11:36AM	03:00PM	-2.4E		11:30AM	03:24PM	-2.1E		08:00AM	10:12AM	0.8F		06:12AM	08:18AM	0.9F		06:54AM	11:18AM	0.8F		08:54AM	11:18AM	0.8F					
	06:48PM	09:00PM	1.0F		07:00PM	09:42PM	1.5F		07:36PM	10:06PM	1.4F		08:30PM	04:42PM	-2.1E		10:42AM	02:42PM	-2.1E		10:42AM	02:42PM	-2.1E		10:48PM	05:42PM	-1.8E	09:12PM				
													08:30PM	04:42PM	-2.1E		06:48PM	09:24PM	1.5F		06:48PM	09:24PM	1.5F		09:12PM			09:12PM				
4 Sa	12:12AM	02:36AM	-1.1E	19 Su	01:06AM	03:18AM	-1.0E	4 Tu	02:12AM	04:06AM	-0.7E	19 We	12:06AM	1.8F	4 Th	01:36AM	03:36AM	-0.8E	19 Fr	12:54AM	1.7F	4 Sa	03:54AM	07:24AM	-1.5E	4 Su	03:54AM	07:24AM	-1.5E			
	10:12AM	08:42AM	1.3F		06:48AM	09:18AM	1.4F		07:54AM	09:54AM	0.8F		03:18AM	06:48AM		-1.3E	07:30AM	09:24AM		0.8F	07:30AM		09:24AM	0.8F	09:54AM		12:36PM	1.0F	09:54AM	12:36PM	1.0F	
	02:06PM	03:30PM	-2.0E		12:24PM	04:00PM	-2.4E		12:30PM	04:18PM	-2.2E		09:12AM	11:36AM		0.9F	11:54AM	04:42PM		-2.1E	11:54AM		04:42PM	-2.1E	02:54PM		07:06PM	-1.9E	02:54PM	07:06PM	-1.9E	
	07:36PM	10:00PM	1.2F		08:00PM	11:00PM	1.7F		08:30PM	11:12PM	1.6F		02:06PM	06:18PM		-2.1E	07:54PM	10:30PM		1.6F	07:54PM		10:30PM	1.6F	10:06PM				10:06PM			
5 Su	01:36AM	03:36AM	-0.9E	20 M	02:24AM	05:54AM	-1.0E	5 We	03:12AM	06:36AM	-0.8E	20 Th	01:06AM	2.0F	5 Fr	02:36AM	05:12AM	-0.9E	20 Sa	04:42AM	08:12AM	-1.2E	20 Su	04:42AM	08:12AM	-1.2E						
	07:12AM	09:36AM	1.1F		08:06AM	10:24AM	1.1F		09:00AM	10:54AM	0.9F		04:12AM	07:42AM		-1.5E	08:30AM	10:30AM		0.9F	08:30AM	10:30AM		0.9F	04:42AM	08:12AM	-1.2E	04:42AM	08:12AM	-1.2E		
	12:42PM	04:12PM	-2.1E		10:18PM	05:00PM	-2.4E		10:30PM	05:12PM	-2.3E		10:06AM	12:36PM		1.1F	01:12PM	04:42PM		-2.2E	01:12PM	04:42PM		-2.2E	10:42AM	01:00PM	1.2F	10:42AM	01:00PM	1.2F		
	08:24PM	11:06PM	1.4F		08:54PM				09:18PM				03:00PM	07:06PM		-2.2E	08:48PM	11:42PM		1.8F	08:48PM	11:42PM		1.8F	03:54PM	08:00PM	-2.0E	03:54PM	08:00PM	-2.0E		
6 M	02:42AM	04:42AM	-0.8E	21 Tu	03:36AM	07:00AM	-1.2E	6 Th	04:06AM	07:24AM	-1.1E	21 Fr	01:48AM	2.0F	6 Sa	03:30AM	06:54AM	-1.2E	21 Su	05:18AM	02:24AM	1.9F	21 Mo	05:18AM	02:24AM	1.9F						
	08:18AM	10:30AM	1.0F		09:12AM	11:30AM	1.0F		09:54AM	11:54AM	1.0F		04:54AM	08:24AM		-1.7E	09:24AM	11:36AM		1.2F	09:24AM	11:36AM		1.2F	11:24AM	02:06PM	1.4F	11:24AM	02:06PM	1.4F		
	01:24PM	05:00PM	-2.3E		02:12PM	06:00PM	-2.4E		10:06PM	06:06PM	-2.5E		10:48AM	01:18PM		1.2F	02:18PM	05:42PM		-2.4E	04:42PM	08:30PM		-2.1E	04:42PM	08:30PM	-2.1E	04:42PM	08:30PM	-2.1E		
	09:06PM				09:42PM								11:00PM	07:42PM		-2.3E	09:42PM				09:42PM				11:36PM			11:36PM				
7 Tu	03:42AM	12:00AM	1.7F	22 We	04:30AM	01:06AM	2.1F	7 Fr	04:54AM	01:00AM	2.1F	22 Sa	02:24AM	2.0F	7 Su	04:18AM	12:36AM	2.0F	22 Mo	05:54AM	02:30AM	1.9F	22 Tu	05:54AM	02:30AM	1.9F						
	06:12AM	-0.8E	08:00AM		-1.4E	10:18AM	12:36PM		1.0F	10:42AM	12:48PM		1.3F	05:36AM		09:00AM	-1.8E	10:18AM		12:30PM	1.5F	05:54AM		09:30AM	-1.9E	05:54AM	09:30AM	-1.9E				
	09:24AM	0.9F	03:06PM		-2.4E	03:06PM	06:54PM		-2.4E	03:24PM	07:00PM		-2.7E	11:30AM		01:54PM	1.4F	10:18AM		12:30PM	1.5F	10:18AM		12:30PM	1.5F	12:06PM	02:36PM	1.6F	12:06PM	02:36PM	1.6F	
	02:06PM	05:48PM	-2.4E		10:30PM				10:54PM				03:24PM	08:06PM		-2.3E	10:30PM	06:36PM		-2.7E	03:18PM	06:36PM		-2.7E	05:30PM	08:54PM	-2.1E	05:30PM	08:54PM	-2.1E		
8 We	12:42AM	2.0F	23 Th	05:18AM	01:54AM	2.2F	8 Sa	05:36AM	01:42AM	2.3F	23 Su	02:48AM	2.0F	8 Mo	06:00AM	01:18AM	2.3F	23 Tu	12:12AM	03:12AM	1.8F	23 We	12:12AM	03:12AM	1.8F							
	07:42AM	-1.0E		11:06AM	01:24PM	1.1F		11:24AM	01:36PM	1.5F		12:06PM	02:24PM		1.5F	06:00AM	09:00AM		-1.8E	06:00AM	09:00AM		-1.8E	12:42AM	10:00AM	-2.0E	12:42AM	10:00AM	-2.0E			
	10:18AM	1.0F		11:06AM	07:36PM	-2.4E		11:24AM	01:36PM	1.5F		11:24AM	07:48PM		-2.9E	12:06PM	02:24PM		1.5F	12:00PM	02:18PM		1.8F	12:00PM	02:18PM	1.8F	06:12PM	09:12PM	-2.1E	06:12PM	09:12PM	-2.1E
	02:48PM	06:30PM		-2.5E	11:18PM				11:42PM				05:18PM		08:30PM	-2.3E	05:12PM		08:30PM	-2.8E	05:12PM		08:30PM	-2.8E	06:12PM	09:12PM	-2.1E	06:12PM	09:12PM	-2.1E		
9 Th	05:18AM	01:24AM	2.2F	24 Fr	06:00AM	02:30AM	2.2F	9 Su	06:18AM	02:24AM	2.5F	24 Mo	12:12AM	03:06AM	2.0F	9 Tu	12:18AM	03:00AM	2.5F	24 We	12:48AM	03:24AM	1.8F	24 Th	12:48AM	03:24AM	1.8F					
	08:12AM	-1.2E	11:54AM		02:06PM	1.2F	12:12PM		02:24PM	1.7F	12:42PM		03:00PM	1.5F	06:42AM		09:36AM	-2.1E	12:48AM		03:06PM	2.0F	06:54AM		10:12AM	-2.1E	06:54AM	10:12AM	-2.1E			
	11:06AM	1.1F	04:48PM		08:12PM	-2.4E	05:12PM		08:36PM	-3.0E	06:00PM		09:06PM	-2.3E	12:42PM		03:00PM	1.5F	12:48AM		03:06PM	2.0F	10:18PM		03:42PM	1.8F	10:18PM	03:42PM	1.8F			
	03:36PM	07:18PM	-2.7E		11:12PM								06:00PM	09:06PM	-2.3E		06:06PM	09:18PM	-2.8E		06:06PM	09:18PM	-2.8E		06:48PM	09:42PM	-2.0E	06:48PM	09:42PM	-2.0E		
10 Fr	06:06AM	02:00AM	2.3F	25 Sa	12:00AM	03:06AM	2.1F	10 M	12:24AM	03:06AM	2.6F	25 Tu	12:48AM	03:30AM	2.0F	10 We	01:00AM	03:42AM	2.5F	25 Th	01:18AM	03:48AM	1.8F	25 Fr	01:18AM	03:48AM	1.8F					
	08:48AM	-1.4E	12:36PM		02:42PM	1.3F	12:54PM		03:12PM	1.9F	07:06AM		10:06AM	-1.9E	07:18AM		10:12AM	-2.4E	07:18AM		10:12AM	-2.4E	07:12AM		10:18AM	-2.2E	07:12AM	10:18AM	-2.2E			
	11:48AM	1.3F	05:30PM		08:48PM	-2.4E	06:06PM		09:24PM	-3.0E	07:06AM		10:06AM	-1.9E	07:06AM		10:06AM	-1.9E	07:00PM		10:06PM	-2.7E	07:00PM		10:12PM	-1.9E	07:00PM	10:12PM	-1.9E			
	04:24PM	08:06PM	-2.8E										06:42PM	09:42PM	-2.2E		07:00PM	10:06PM	-2.7E		07:00PM	10:06PM	-2.7E		07:30PM	10:12PM	-1.9E	07:30PM	10:12PM	-1.9E		
11 Sa	12:00AM	02:42AM	2.5F	26 Su	12:36AM	03:36AM	2.1F	11 M	01:06AM	03:48AM	2.6F	26 Tu	01:18AM	03:54AM	2.0F	11 We	01:42AM	04:18AM	2.5F	26 Th	01:48AM	04:18AM	1.8F	26 Fr	01:48AM	04:18AM	1.8F					
	06:42AM	0																														



Station ID: PUG1539 Depth: 16 feet
 Source: NOAA/NOS/CO-OPS
 Station Type: Harmonic
 Time Zone: LST/LDT

NOAA Tidal Current Predictions

Dana Passage, 2020

Latitude: 47.1631° N Longitude: 122.8681° W
 Mean Flood Dir. 242° (T) Mean Ebb Dir. 49° (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 W o	12:42AM	03:06AM	-1.0E	16 Th	02:18AM	06:00AM	-1.4E	1 F	01:18AM	03:54AM	-1.3E	16 Sa	02:18AM	06:12AM	-1.7E	1 M	02:18AM	05:30AM	-2.2E	16 Tu	02:36AM	06:24AM	-2.1E							
	08:06AM	08:54AM	0.9F		08:30AM	11:00AM	0.8F		07:42AM	09:42AM	1.0F		08:54AM	11:30AM	1.0F		09:18AM	11:42AM	1.6F		09:48AM	12:48PM	1.4F							
	11:18AM	03:12PM	-2.0E		01:30PM	05:12PM	-1.6E		12:18PM	03:42PM	-2.1E		02:12PM	05:00PM	-1.4E		02:48PM	05:24PM	-1.6E		03:54PM	06:18PM	-0.9E							
	07:06PM	09:48PM	1.6F		08:36PM				07:42PM	10:24PM	1.8F		08:48PM				09:00PM	11:42PM	1.8F		09:42PM									
2 Th	01:54AM	04:18AM	-1.0E	17 F	03:12AM	12:18AM	1.5F	2 Sa	02:18AM	05:06AM	-1.5E	17 Su	03:00AM	12:12AM	1.4F	2 Tu	03:00AM	06:24AM	-2.5E	17 W	03:06AM	12:00AM	1.1F	17 Th	12:06AM	06:42AM	-2.2E			
	08:06AM	11:00AM	0.9F		09:30AM	12:12PM	1.0F		08:42AM	10:48AM	1.2F		09:42AM	12:36PM	1.2F		10:06AM	12:48PM	1.9F		10:30AM	01:30PM	1.7F		11:06AM	02:06PM	2.2E			
	12:36PM	04:12PM	-2.1E		02:36PM	06:48PM	-1.7E		01:42PM	04:48PM	-2.1E		08:42PM	11:24PM	1.9F		09:42AM	12:36PM	1.2F		04:00PM	06:30PM	-1.5E		10:30AM	01:30PM	1.7F	10:36AM	08:12PM	-1.0E
	08:18PM	10:54PM	1.6F		09:36PM				08:42PM	11:24PM	1.9F		09:36PM				10:00PM				10:00PM				11:06AM	02:06PM	2.2E			
3 F	03:00AM	05:30AM	-1.2E	18 Sa	03:54AM	01:12AM	1.6F	3 Su	03:06AM	06:12AM	-1.8E	18 M	03:36AM	12:48AM	1.4F	3 W	03:42AM	12:36AM	1.8F	18 Th	03:36AM	12:48AM	1.0F	18 Fr	12:48AM	07:12AM	-2.3E			
	09:06AM	11:12AM	1.1F		10:12AM	01:06PM	1.3F		09:36AM	12:00PM	1.5F		10:30AM	07:36AM	-2.1E		10:54AM	07:12AM	-2.8E		10:54AM	07:12AM	-2.8E		11:06AM	02:06PM	1.9F			
	10:54PM	05:12PM	-2.2E		03:36PM	07:36PM	-1.8E		02:54PM	05:48PM	-2.0E		04:12PM	07:42PM	-1.3E		04:12PM	07:42PM	-1.3E		05:06PM	07:48PM	-1.5E		05:42PM	09:00PM	-1.0E			
	09:18PM				10:24PM				09:36PM				10:24PM				11:00PM				11:00PM				11:24PM					
4 Sa	03:48AM	12:06AM	1.8F	19 Su	04:36AM	01:48AM	1.6F	4 M	03:48AM	12:18AM	2.0F	19 Tu	04:12AM	01:12AM	1.3F	4 Th	04:24AM	01:24AM	1.7F	19 Fr	04:12AM	07:48AM	-2.4E							
	10:00AM	12:18PM	1.4F		11:00AM	08:18AM	-2.0E		10:30AM	01:00PM	1.8F		11:06AM	08:06AM	-2.2E		11:42AM	02:30PM	2.5F		11:48AM	02:36PM	2.1F							
	03:06PM	06:18PM	-2.3E		04:30PM	08:12PM	-1.8E		04:00PM	06:48PM	-2.0E		05:06PM	08:12PM	-1.3E		06:12PM	09:00PM	-1.5E		06:30PM	09:30PM	-1.1E							
	10:12PM				11:06PM				10:30PM				11:06PM				11:06PM				11:48AM	02:36PM	2.1F							
5 Su	04:36AM	01:00AM	2.0F	20 M	05:06AM	02:18AM	1.6F	5 Tu	04:30AM	01:12AM	2.1F	20 W	04:36AM	01:36AM	1.3F	5 Th	12:00AM	02:18AM	1.5F	20 Fr	12:12AM	02:12AM	1.1F							
	10:44AM	07:48AM	-1.8E		11:36AM	08:54AM	-2.1E		11:18AM	07:48AM	-2.5E		11:42AM	08:12AM	-2.3E		05:06AM	08:36AM	-3.0E		05:06AM	08:30AM	-2.5E							
	04:06PM	07:12PM	-2.4E		05:18PM	08:30PM	-1.7E		05:06PM	07:48PM	-2.0E		05:54PM	08:42PM	-1.3E		07:06PM	10:06PM	-1.5E		12:24PM	03:18PM	2.6F	12:24PM	03:06PM	2.2F				
	11:00PM				11:42PM				11:18PM				11:48PM				11:00PM				07:06PM	09:48PM	-1.3E							
6 M	05:18AM	08:24AM	-2.2E	21 Tu	05:36AM	02:24AM	1.6F	6 W	05:06AM	01:54AM	2.1F	21 Th	05:00AM	02:00AM	1.3F	6 Sa	12:54AM	03:00AM	1.4F	21 Su	01:00AM	02:54AM	1.1F							
	11:42AM	02:06PM	2.0F		12:12PM	02:48PM	1.8F		12:00PM	02:42PM	2.4F		12:18PM	03:00PM	2.1F		01:12PM	04:06PM	2.6F		05:24AM	09:06AM	-2.6E							
	05:06PM	08:06PM	-2.5E		06:00PM	08:48PM	-1.7E		06:06PM	08:48PM	-1.9E		06:42PM	09:12PM	-1.3E		07:54PM	11:00PM	-1.6E		07:48PM	10:24PM	-1.4E							
	11:48PM																													
7 Tu	05:54AM	02:30AM	2.3F	22 W	12:12AM	02:42AM	1.6F	7 Th	12:12AM	02:36AM	2.0F	22 Fr	12:30AM	02:36AM	1.3F	7 Su	01:48AM	03:54AM	1.3F	22 M	01:42AM	03:36AM	1.2F							
	12:24PM	02:54PM	2.3F		06:00AM	09:18AM	-2.3E		05:42AM	09:06AM	-2.3E		12:48PM	03:30PM	2.2F		06:30AM	10:54AM	-2.8E		06:30AM	05:54AM	-2.8E							
	06:06PM	09:00PM	-2.4E		12:48PM	03:18PM	1.9F		12:48PM	03:30PM	2.6F		07:24PM	09:48PM	-1.3E		01:54PM	04:48PM	2.5F		01:54PM	04:24PM	2.4F							
					06:48PM	09:18PM	-1.6E		07:06PM	09:42PM	-1.8E						08:42PM	11:48PM	-1.6E		08:42PM	11:00PM	-1.5E							
8 W o	12:30AM	03:06AM	2.3F	23 Th	12:48AM	03:06AM	1.6F	8 F	01:00AM	03:24AM	1.8F	23 Sa	01:12AM	03:12AM	1.2F	8 M	02:42AM	04:42AM	1.2F	23 Tu	02:24AM	04:24AM	1.3F							
	06:30AM	09:36AM	-2.8E		06:18AM	09:36AM	-2.5E		06:18AM	09:48AM	-3.0E		05:24AM	09:00AM	-2.6E		07:24AM	10:54AM	-2.6E		07:24AM	10:36AM	-2.8E							
	01:12PM	03:42PM	2.4F		01:18PM	03:48PM	2.1F		01:30PM	04:18PM	2.6F		01:24PM	04:00PM	2.3F		02:42PM	05:36PM	2.3F		02:18PM	05:06PM	2.4F							
	07:06PM	09:48PM	-2.3E		07:30PM	10:00PM	-1.6E		08:00PM	10:42PM	-1.7E		08:00PM	10:24PM	-1.4E		09:30PM				09:06PM	11:42PM	-1.6E							
9 Th	01:18AM	03:48AM	2.2F	24 F	01:24AM	03:42AM	1.5F	9 Sa	01:54AM	04:12AM	1.6F	24 Su	01:54AM	03:54AM	1.2F	9 M	03:36AM	12:36AM	-1.6E	24 W	03:06AM	05:12AM	1.3F							
	07:00AM	10:18AM	-2.9E		06:36AM	10:06AM	-2.6E		07:00AM	10:30AM	-2.9E		06:24AM	10:12AM	-2.6E		08:12AM	11:36AM	-2.4E		07:42AM	11:24AM	-2.8E							
	01:54PM	04:30PM	2.5F		01:54PM	04:24PM	2.1F		02:12PM	05:06PM	2.5F		01:54PM	04:42PM	2.3F		03:30PM	06:24PM	2.1F		03:06PM	05:54PM	2.4F							
	08:00PM	10:42PM	-2.1E		08:06PM	10:36PM	-1.6E		08:54PM	11:30PM	-1.6E		08:42PM	11:06PM	-1.4E		10:18PM				09:48PM									
10 F	02:06AM	04:36AM	2.0F	25 Sa	02:06AM	04:18AM	1.4F	10 Su	02:54AM	05:00AM	1.3F	25 M	02:36AM	04:42AM	1.2F	10 W	04:24AM	01:18AM	-1.5E	25 Th	04:00AM	12:24AM	-1.7E							
	07:36AM	11:00AM	-2.9E		07:00AM	10:42AM	-2.6E		07:42AM	11:12AM	-2.7E		07:06AM	10:54AM	-2.6E		09:06AM	06:24AM	1.0F		08:36AM	12:12PM	-2.7E							
	02:42PM	05:24PM	2.4F		02:24PM	05:00PM	2.2F		03:00PM	05:54PM	2.4F		02:36PM	05:24PM	2.3F		04:18PM	07:12PM	1.9F		03:48PM	06:36PM	2.4F							
	09:00PM	11:30PM	-1.8E		08:48PM	11:18PM	-1.5E		09:48PM				09:24PM	11:54PM	-1.5E		11:06PM				10:30PM									
11 Sa	03:00AM	05:18AM	1.7F	26 Su	02:48AM	05:00AM	1.3F	11 M	03:48AM	12:30AM	-1.5E	26 Tu	03:24AM	05:30AM	1.2F	11 Th	05:24AM	02:18AM	-1.5E	26 Fr	04:54AM	07:00AM	1.4F							
	08:18AM	11:42AM	-2.8E		07:30AM	11:18AM	-2.6E		08:30AM	12:00PM	-2.5E		07:48AM	11:42AM	-2.6E		10:06AM	07:18AM	0.9F		09:36AM	01:00PM	-2.5E							
	03:30PM	06:12PM	2.3F		03:00PM	05:42PM	2.2F		03:54PM	06:42PM	2.1F		03:18PM	06:06PM	2.3F		05:12PM	08:00PM	1.7F		04:36PM	07:30PM	2.3F							
	10:00PM				09:36PM				10:42PM				10:06PM				11:54PM				11:18PM									
12 Su	04:00AM	12:24AM	-1.5E	27 M	03:36AM	12:00AM	-1.5E	12 Tu	04:54AM	01:30AM	-1.4E	27 W	04:18AM	12:36AM	-1.5E	12 Th	06:18AM	03:30AM	-1.5E	27 Fr	05:54AM	02:06AM	-1.9E							
	09:00AM	12:24PM	-2.6E		08:06AM	12:00PM	-2.5E		09:30AM	12:48PM	-2.2E		08:42AM	12:30PM	-2.5E		11:06AM	02:06PM	-1.7E		10:42AM	01:54PM	-2.1E							
	04:24PM	07:06PM	2.1F		03:42PM	06:30PM	2.1F		11:36PM				04:06PM	07:00PM	2.2F		06:00PM	08:54PM	1.5F		05:24PM	08:18PM	2.1F							
	11:00PM				10:18PM								10:54PM																	
13 M	05:06AM	01:30AM	-1.3E	28 Tu	04:30AM	12:48AM	-1.4E	13 W	05:54AM	03:18AM	-1.3E	28 Th	05:12AM	01:30AM	-1.5E	13 Sa	12:36AM	04:24AM	-1.6E	28 Su	12:00AM	03:00AM	-2.1E							
	09:48AM	07:06AM	1.0F		08:54AM	06:42AM	1.1F		10:36AM	01:42PM	-1.9E		09:42AM	07:18AM	1.1F		12:18PM	03:00PM	-1.4E		06:54AM	09:06AM	1.3F							
	05:18PM	08:12PM	1.8F																											



Station ID: PUG1539 Depth: 16 feet
 Source: NOAA/NOS/CO-OPS
 Station Type: Harmonic
 Time Zone: LST/LDT

NOAA Tidal Current Predictions

Dana Passage, 2020

Latitude: 47.1631° N Longitude: 122.8681° W
 Mean Flood Dir. 242° (T) Mean Ebb Dir. 49° (T)

Times and speeds of maximum and minimum current, in knots

July				August				September															
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 W	02:18AM	05:48AM	-2.6E	16 Th	02:06AM	05:42AM	-2.1E	1 Sa	03:42AM	01:06AM	1.1F	16 Su	03:18AM	12:36AM	0.9F	1 Tu	12:12AM	02:36AM	1.5F	16 W	04:54AM	02:00AM	1.7F
	09:48AM	12:36PM	1.9F		09:54AM	12:54PM	1.6F		11:06AM	02:30PM	2.2F		10:48AM	01:48PM	1.9F		12:24PM	03:30PM	2.0F		11:54AM	02:36PM	2.3F
	04:06PM	06:36PM	-1.1E		04:30PM	08:00PM	-0.8E		05:54PM	09:18PM	-1.5E		05:36PM	09:00PM	-1.3E		06:48PM	10:18PM	-1.9E		06:12PM	09:12PM	-2.0E
	09:48PM				10:06PM				11:42PM				11:24PM										
2 Th	03:06AM	12:06AM	1.4F	17 F	02:48AM	12:06AM	0.8F	2 Su	04:36AM	02:00AM	1.2F	17 M	04:12AM	01:30AM	1.2F	2 W	12:48AM	03:12AM	1.6F	17 Th	12:24AM	02:48AM	2.0F
	10:36AM	06:42AM	-2.7E		10:36AM	06:30AM	-2.2E		11:54AM	08:18AM	-2.5E		11:36AM	07:42AM	-2.5E		06:06AM	09:18AM	-2.3E		05:48AM	08:06AM	-2.7E
	05:12PM	01:42PM	2.2F		10:36AM	01:36PM	1.8F		12:42PM	03:12PM	2.2F		06:18PM	02:30PM	2.1F		01:00PM	03:54PM	2.0F		12:36PM	03:12PM	2.4F
	10:54PM	08:30PM	-1.2E		05:24PM	08:48PM	-1.0E		06:42PM	10:06PM	-1.7E		06:18PM	09:24PM	-1.5E		07:18PM	10:42PM	-2.0E		06:48PM	09:48PM	-2.4E
3 F	03:54AM	01:06AM	1.3F	18 Sa	03:36AM	01:00AM	0.9F	3 Mo	12:30AM	02:48AM	1.3F	18 Tu	12:06AM	02:18AM	1.4F	3 Th	01:30AM	03:48AM	1.6F	18 F	01:12AM	03:36AM	2.2F
	11:24AM	07:30AM	-2.7E		11:18AM	02:12AM	2.0F		05:30AM	09:00AM	-2.5E		05:00AM	08:30AM	-2.7E		06:48AM	09:54AM	-2.3E		06:42AM	09:42AM	-2.6E
	06:06PM	02:30PM	2.4F		06:06PM	09:30PM	-1.2E		12:42PM	03:54PM	2.2F		12:18PM	03:06PM	2.3F		01:30PM	04:12PM	2.0F		01:18PM	03:54PM	2.5F
	11:54PM	09:30PM	-1.4E		11:54PM	09:30PM	-1.2E		07:18PM	10:42PM	-1.8E		06:54PM	09:48PM	-1.7E		07:48PM	11:00PM	-2.0E		07:18PM	10:24PM	-2.6E
4 Sa	04:42AM	02:06AM	1.2F	19 Su	04:24AM	08:00AM	-2.5E	4 Tu	01:12AM	03:30AM	1.4F	19 W	12:48AM	03:06AM	1.7F	4 F	02:06AM	04:24AM	1.7F	19 Sa	01:54AM	04:24AM	2.3F
	12:06PM	08:18AM	-2.7E		12:00PM	02:48PM	2.2F		06:18AM	09:36AM	-2.5E		05:54AM	09:12AM	-2.9E		07:30AM	10:24AM	-2.2E		07:36AM	10:30AM	-2.4E
	02:12PM	03:12PM	2.4F		06:48PM	09:48PM	-1.3E		01:18PM	04:24PM	2.2F		01:00PM	03:42PM	2.5F		02:00PM	04:42PM	1.9F		02:00PM	04:30PM	2.3F
	06:54PM	10:18PM	-1.6E		08:00PM	11:18PM	-1.8E		08:00PM	11:18PM	-1.8E		07:30PM	10:24PM	-1.9E		08:12PM	11:12PM	-2.1E		07:54PM	11:06PM	-2.8E
5 Su	12:48AM	02:54AM	1.2F	20 Mo	12:36AM	02:36AM	1.2F	5 W	01:54AM	04:06AM	1.4F	20 Th	01:36AM	03:48AM	1.8F	5 Sa	02:42AM	05:06AM	1.7F	20 Su	02:42AM	05:12AM	2.3F
	05:30AM	09:06AM	-2.7E		05:12AM	08:48AM	-2.7E		07:00AM	10:12AM	-2.5E		06:42AM	10:00AM	-2.9E		08:12AM	11:00AM	-2.0E		08:36AM	11:18AM	-2.2E
	12:54PM	04:00PM	2.4F		12:42PM	03:24PM	2.3F		02:00PM	04:54PM	2.1F		01:42PM	04:24PM	2.6F		02:36PM	05:12PM	1.9F		02:42PM	05:18PM	2.1F
	07:42PM	11:06PM	-1.6E		07:24PM	10:18PM	-1.5E		08:30PM	11:42PM	-1.8E		08:06PM	10:54PM	-2.2E		08:36PM	11:42PM	-2.3E		08:30PM	11:48PM	-2.9E
6 M	01:36AM	03:42AM	1.2F	21 Tu	01:18AM	03:18AM	1.4F	6 Th	02:36AM	04:48AM	1.4F	21 F	02:18AM	04:42AM	2.0F	6 Su	03:24AM	05:42AM	1.7F	21 M	03:30AM	06:06AM	2.3F
	06:24AM	09:48AM	-2.6E		06:00AM	09:36AM	-2.8E		07:42AM	10:54AM	-2.4E		07:36AM	10:48AM	-2.8E		09:00AM	11:42AM	-1.8E		09:36AM	12:06PM	-1.8E
	01:36PM	04:42PM	2.3F		01:24PM	04:06PM	2.4F		02:36PM	05:18PM	2.0F		02:18PM	05:06PM	2.5F		03:06PM	05:42PM	1.7F		03:36PM	06:06PM	1.8F
	08:24PM	11:42PM	-1.7E		08:06PM	10:48PM	-1.6E		09:06PM				08:42PM	11:36PM	-2.4E		08:54PM				09:06PM		
7 Tu	02:18AM	04:24AM	1.2F	22 W	02:00AM	04:06AM	1.5F	7 F	03:18AM	12:00AM	-1.9E	22 Sa	03:12AM	05:30AM	2.0F	7 M	12:12AM	12:12AM	-2.3E	22 Tu	04:24AM	12:30AM	-2.8E
	07:12AM	10:30AM	-2.6E		02:00PM	04:48PM	2.5F		03:24PM	05:48PM	2.0F		03:00PM	05:48PM	2.4F		04:00AM	06:24AM	1.7F		10:42AM	01:06PM	-1.5E
	02:18PM	05:18PM	2.2F		08:42PM	11:24PM	-1.8E		08:24AM	11:30AM	-2.2E		09:12AM	12:06PM	-2.0E		09:48AM	12:24PM	-1.6E		04:36PM	07:00PM	1.4F
	09:06PM				10:00PM				03:06PM	05:48PM	2.0F		03:42PM	06:24PM	1.8F		03:48PM	06:24PM	1.5F		09:54PM		
8 W	03:06AM	12:18AM	-1.7E	23 Th	02:42AM	04:54AM	1.6F	8 Sa	04:06AM	12:24AM	-2.0E	23 Su	04:00AM	12:18AM	-2.6E	8 Tu	04:42AM	12:48AM	-2.3E	23 W	05:18AM	01:18AM	-2.6E
	08:00AM	05:12AM	1.2F		02:42PM	11:06AM	-2.9E		09:12AM	12:06PM	-2.0E		09:36AM	12:24PM	-2.1E		10:42AM	01:12PM	-1.3E		11:54AM	02:12PM	-1.2E
	03:00PM	05:54PM	2.1F		09:18PM	05:30PM	2.5F		10:00PM	06:24PM	1.8F		03:48PM	06:30PM	2.2F		04:36PM	07:06PM	1.2F		05:48PM	08:00PM	1.1F
	09:48PM				10:00PM				10:00PM				09:48PM				09:48PM				05:18AM	08:00AM	1.9F
9 Th	03:54AM	12:42AM	-1.6E	24 F	03:36AM	12:06AM	-2.0E	9 Su	04:48AM	12:54AM	-2.0E	24 M	04:54AM	01:00AM	-2.6E	9 W	05:30AM	01:36AM	-2.2E	24 Th	06:24AM	02:12AM	-2.2E
	08:48AM	06:00AM	1.2F		08:30AM	05:48AM	1.7F		10:06AM	07:00AM	1.4F		10:42AM	01:12PM	-1.7E		11:42AM	02:00PM	-1.1E		11:54PM	09:18PM	-1.1E
	03:42PM	06:30PM	1.9F		03:24PM	06:18PM	2.5F		04:18PM	07:00PM	1.6F		04:42PM	07:18PM	1.8F		05:42PM	08:00PM	1.0F		07:06PM	09:12PM	0.9F
	10:24PM				10:00PM				10:30PM				10:30PM				10:30PM				11:54PM		
10 F	04:42AM	01:12AM	-1.7E	25 Sa	04:30AM	12:48AM	-2.2E	10 M	05:36AM	01:36AM	-2.1E	25 Tu	05:54AM	01:48AM	-2.6E	10 Th	06:24AM	02:24AM	-2.0E	25 F	07:30AM	03:18AM	-2.0E
	09:36AM	06:48AM	1.1F		09:30AM	06:42AM	1.6F		11:06AM	07:48AM	1.3F		12:00PM	08:24AM	1.8F		12:54PM	08:54AM	1.4F		02:18PM	05:44AM	1.6F
	04:24PM	12:36PM	-2.0E		04:12PM	12:36PM	-2.4E		05:06PM	07:42PM	1.4F		05:48PM	08:18PM	1.4F		07:00PM	09:00PM	0.8F		08:24PM	10:42PM	0.8F
	11:00PM	07:12PM	1.8F		10:36PM	07:00PM	2.3F		10:54PM				11:18PM				11:18PM				08:24PM	10:42PM	0.8F
11 Sa	05:36AM	01:48AM	-1.7E	26 Su	05:24AM	01:36AM	-2.3E	11 Mo	06:30AM	02:18AM	-2.0E	26 W	06:54AM	02:42AM	-2.4E	11 F	07:24AM	03:18AM	-1.9E	26 Sa	01:18AM	04:42AM	-1.8E
	10:36AM	07:42AM	1.1F		10:42AM	07:42AM	1.6F		12:18PM	08:42AM	1.3F		01:18PM	09:36AM	1.7F		02:06PM	09:54AM	1.4F		08:42AM	12:18PM	1.6F
	05:06PM	01:24PM	-1.7E		05:00PM	01:30PM	-1.9E		06:00PM	02:36PM	-1.0E		07:06PM	03:36PM	-0.9E		08:12PM	04:18PM	-0.8E		03:18PM	07:00PM	-1.5E
	11:36PM	07:48PM	1.6F		11:12PM	07:48PM	2.1F		11:30PM	08:36PM	1.1F		11:30PM	09:18PM	1.1F		08:12PM	10:06PM	0.7F		09:24PM		
12 Su	06:30AM	02:30AM	-1.8E	27 Mo	06:24AM	02:24AM	-2.4E	12 W	07:24AM	03:12AM	-2.0E	27 Th	12:12AM	03:42AM	-2.2E	12 Sa	12:30AM	04:18AM	-1.9E	27 Su	02:30AM	12:06AM	1.0F
	11:42AM	08:36AM	1.0F		12:00PM	08:42AM	1.5F		01:36PM	09:42AM	1.3F		08:00AM	11:06AM	1.6F		08:30AM	11:06AM	1.4F		09:42AM	06:42AM	-1.9E
	05:54PM	02:18PM	-1.4E		05:54PM	02:30PM	-1.5E		07:18PM	03:36PM	-0.8E		02:42PM	06:12PM	-1.0E		03:12PM	05:42PM	-0.9E		04:12PM	01:18PM	1.8F
		08:30PM	1.4F		08:42PM	08:42PM	1.8F		09:30PM	09:30PM	0.9F		08:30PM	10:36PM	0.9F		09:18PM	11:12PM	0.8F		10:18PM	07:48PM	-1.7E
13 M	12:12AM	03:18AM	-1.9E	28 Tu	12:00AM	03:18AM	-2.5E	13 Th	12:12AM	04:00AM	-2.0E	28 F	01:24AM	04:54AM	-2.1E	13 Su	01:48AM	05:18AM	-2.0E	28 M	03:30AM	01:06AM	1.2F
	07:24AM	09:36AM	1.1F		01:24PM	03:36PM	-1.1E		08:18AM	10:48AM	1.3F		09:00AM	12:36PM	1.8F		09:30AM	12:18PM	1.6F		10:36AM	07:36AM	-2.0E
	12:54PM	03:12PM	-1.0E		01:24PM	03:36PM	-1.1E		02:54PM	0													



Station ID: PUG1539 Depth: 16 feet
 Source: NOAA/NOS/CO-OPS
 Station Type: Harmonic
 Time Zone: LST/LDT

NOAA Tidal Current Predictions

Dana Passage, 2020

Latitude: 47.1631° N Longitude: 122.8681° W
 Mean Flood Dir. 242° (T) Mean Ebb Dir. 49° (T)

Times and speeds of maximum and minimum current, in knots

October				November				December																		
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 Th O	12:24AM	03:00AM	1.7F	16 F	12:00AM	02:30AM	2.2F	1 Su	12:54AM	02:42AM	2.1F	16 M	12:06AM	02:54AM	2.7F	1 Tu	12:06AM	02:48AM	2.2F	16 W	12:30AM	03:30AM	2.6F			
	06:00AM	09:06AM	-2.0E		05:42AM	08:30AM	-2.2E		06:18AM	08:48AM	-1.5E		06:42AM	09:18AM	-1.7E		06:48AM	09:54AM	-1.4E		06:48AM	09:18AM	-1.3E	07:24AM	10:30AM	-1.6E
	12:30PM	03:12PM	1.8F		12:06PM	02:42PM	2.3F		12:12PM	02:24PM	1.4F		12:30PM	02:42PM	1.6F		12:42PM	02:42PM	1.1F		12:42PM	02:42PM	1.1F	01:18PM	03:24PM	1.3F
	06:30PM	10:00PM	-2.2E		06:00PM	09:12PM	-2.8E		05:18PM	08:48PM	-2.5E		05:30PM	09:06PM	-3.1E		05:12PM	08:54PM	-2.5E		06:00PM	09:30PM	-2.8E	06:00PM	09:30PM	-2.8E
2 F	01:00AM	03:30AM	1.8F	17 Sa	12:48AM	03:18AM	2.4F	2 M	12:36AM	03:12AM	2.1F	17 Tu	12:48AM	03:42AM	2.7F	2 W	12:42AM	03:24AM	2.2F	17 Th	01:18AM	04:18AM	2.4F			
	06:42AM	09:30AM	-1.9E		06:42AM	09:24AM	-2.2E		07:00AM	09:24AM	-1.5E		07:36AM	10:12AM	-1.6E		07:30AM	09:54AM	-1.4E		08:12AM	11:18AM	-1.7E			
	01:00PM	03:30PM	1.7F		12:54PM	03:24PM	2.2F		12:54PM	03:00PM	1.3F		01:30PM	03:36PM	1.4F		01:24PM	03:24PM	1.1F		01:24PM	03:24PM	1.1F	02:06PM	04:12PM	1.2F
	06:54PM	10:06PM	-2.3E		06:30PM	09:48PM	-3.0E		05:42PM	09:24PM	-2.5E		06:18PM	09:48PM	-2.9E		05:48PM	09:36PM	-2.6E		05:48PM	10:18PM	-2.6E	06:54PM	10:18PM	-2.6E
3 Sa	01:36AM	04:00AM	1.9F	18 Su	01:30AM	04:06AM	2.6F	3 Tu	01:06AM	03:48AM	2.2F	18 W	01:36AM	04:30AM	2.5F	3 Th	01:18AM	04:06AM	2.3F	18 F	02:06AM	05:06AM	2.2F			
	07:24AM	10:00AM	-1.8E		07:36AM	10:18AM	-2.0E		07:42AM	10:06AM	-1.5E		08:24AM	11:06AM	-1.6E		08:06AM	10:36AM	-1.5E		08:06AM	10:36AM	-1.5E	09:00AM	12:00PM	-1.6E
	01:36PM	04:00PM	1.7F		01:42PM	04:06PM	2.0F		01:36PM	03:42PM	1.2F		02:24PM	04:30PM	1.2F		02:12PM	04:30PM	1.1F		02:12PM	05:06PM	1.2F	03:00PM	05:06PM	1.2F
	07:18PM	10:30PM	-2.4E		07:06PM	10:30PM	-3.1E		06:12PM	10:06PM	-2.5E		07:06PM	10:36PM	-2.7E		06:30PM	10:24PM	-2.5E		06:30PM	10:24PM	-2.5E	07:48PM	11:06PM	-2.4E
4 Su	02:06AM	04:36AM	2.0F	19 M	02:12AM	04:54AM	2.6F	4 W	01:42AM	04:30AM	2.2F	19 Th	02:30AM	05:24AM	2.3F	4 F	02:00AM	04:48AM	2.2F	19 Sa	03:00AM	05:54AM	2.0F			
	08:06AM	10:42AM	-1.7E		08:36AM	11:12AM	-1.8E		08:18AM	10:48AM	-1.4E		09:18AM	12:06PM	-1.5E		08:48AM	11:18AM	-1.5E		08:48AM	11:18AM	-1.5E	09:42AM	12:54PM	-1.6E
	02:12PM	04:30PM	1.6F		02:36PM	04:54PM	1.7F		02:24PM	04:30PM	1.1F		03:24PM	05:24PM	1.1F		03:00PM	05:00PM	1.2F		03:00PM	05:00PM	1.2F	04:00PM	06:00PM	1.1F
	07:36PM	11:00PM	-2.5E		07:48PM	11:18PM	-3.0E		06:48PM	10:42PM	-2.4E		08:06PM	11:30PM	-2.4E		08:06PM	11:30PM	-2.4E		07:18PM	11:06PM	-2.5E	08:48PM	11:54PM	-2.1E
5 M	02:42AM	05:12AM	2.0F	20 Tu	03:00AM	05:48AM	2.5F	5 Th	02:24AM	05:12AM	2.1F	20 F	03:24AM	06:18AM	2.0F	5 Sa	02:42AM	05:36AM	2.2F	20 Su	03:48AM	06:42AM	1.8F			
	08:48AM	11:24AM	-1.6E		09:36AM	12:06PM	-1.6E		09:06AM	11:36AM	-1.4E		10:12AM	01:30PM	-1.4E		09:36AM	12:06PM	-1.5E		09:36AM	12:06PM	-1.5E	10:30AM	01:54PM	-1.6E
	02:48PM	05:12PM	1.5F		03:30PM	05:48PM	1.4F		03:18PM	05:18PM	1.0F		03:48PM	06:24PM	0.9F		03:48PM	05:54PM	1.1F		03:48PM	05:54PM	1.1F	04:30AM	07:00PM	1.0F
	08:00PM	11:36PM	-2.5E		08:30PM	05:48PM	1.4F		07:36PM	11:30PM	-2.3E		09:12PM	06:24PM	0.9F		08:12PM	11:54PM	-2.4E		08:12PM	11:54PM	-2.4E	09:48PM	07:00PM	1.0F
6 Tu	03:18AM	05:54AM	2.0F	21 W	03:54AM	06:42AM	-2.8E	6 F	03:06AM	05:54AM	2.0F	21 Sa	04:24AM	07:24AM	-2.1E	6 Su	03:36AM	06:24AM	2.1F	21 Mo	04:36AM	07:30AM	-1.8E			
	09:36AM	12:06PM	-1.5E		04:36AM	01:00PM	-1.4E		09:54AM	12:24PM	-1.3E		11:12AM	02:54PM	-1.5E		10:18AM	01:00PM	-1.6E		10:18AM	01:00PM	-1.6E	11:12AM	02:54PM	-1.7E
	03:30PM	05:54PM	1.3F		04:36PM	06:42PM	1.1F		04:12PM	06:12PM	1.0F		05:30PM	07:36PM	0.9F		04:48PM	06:48PM	1.1F		04:48PM	06:48PM	1.1F	05:54PM	08:06PM	1.0F
	08:24PM				09:24PM				08:30PM				10:18PM				09:18PM				09:18PM			10:54PM		
7 W	03:54AM	12:12AM	-2.4E	22 Th	04:48AM	12:54AM	-2.4E	7 Sa	04:00AM	12:18AM	-2.2E	22 Su	05:24AM	01:18AM	-1.8E	7 M	04:24AM	12:48AM	-2.2E	22 Tu	05:30AM	01:36AM	-1.5E			
	10:24AM	12:48PM	-1.3E		11:36AM	02:24PM	-1.3E		10:48AM	01:18PM	-1.3E		12:06PM	03:54PM	-1.6E		11:06AM	01:54PM	-1.7E		11:06AM	01:54PM	-1.7E	11:54AM	03:48PM	-1.8E
	04:24PM	06:42PM	1.1F		05:48PM	07:42PM	0.9F		05:12PM	07:12PM	0.9F		06:30PM	08:54PM	0.9F		06:30PM	08:54PM	0.9F		05:48PM	07:54PM	1.2F	06:54PM	09:18PM	1.0F
	09:00PM				10:30PM				09:30PM				11:30PM				10:30PM				10:30PM			08:54PM		
8 Th	04:42AM	12:54AM	-2.2E	23 F	05:54AM	01:48AM	-2.1E	8 Su	05:00AM	01:12AM	-2.1E	23 M	06:24AM	02:24AM	-1.6E	8 Tu	05:24AM	01:48AM	-2.0E	23 W	12:12AM	02:36AM	-1.2E			
	11:18AM	01:42PM	-1.2E		12:42PM	04:24PM	-1.3E		11:48AM	02:24PM	-1.3E		12:54PM	04:48PM	-1.7E		11:54AM	02:54PM	-1.9E		11:54AM	02:54PM	-1.9E	12:36PM	04:30PM	-1.9E
	05:30PM	07:30PM	0.9F		06:54PM	09:00PM	0.8F		06:18PM	08:12PM	1.0F		07:30PM	10:06PM	1.0F		06:48PM	08:54PM	1.3F		06:48PM	08:54PM	1.3F	07:42PM	10:30PM	1.2F
	09:48PM				11:42PM				10:42PM				10:42PM				11:48PM				11:48PM			07:42PM		
9 F	05:36AM	01:48AM	-2.1E	24 Sa	07:00AM	02:54AM	-1.8E	9 M	06:06AM	02:18AM	-2.0E	24 Tu	12:48AM	03:30AM	-1.4E	9 W	06:18AM	02:48AM	-1.8E	24 Th	01:30AM	03:42AM	-0.9E			
	12:18PM	02:42PM	-1.1E		07:00AM	10:30AM	1.6F		12:42PM	03:30PM	-1.5E		07:24AM	10:42AM	1.4F		12:42PM	03:48PM	-2.2E		07:24AM	09:54AM	1.1F			
	06:36PM	08:36PM	0.8F		08:06PM	10:30PM	0.9F		07:18PM	09:18PM	1.1F		08:24PM	11:12PM	1.2F		07:48PM	10:06PM	1.5F		08:30PM	11:36PM	1.4F			
	10:48PM				08:06PM				08:06PM				08:24PM				07:48PM				08:30PM			08:30PM		
10 Sa O	06:42AM	02:42AM	-2.0E	25 Su	01:00AM	04:12AM	-1.7E	10 Tu	12:06AM	03:18AM	-2.0E	25 W	01:54AM	05:30AM	-1.3E	10 Th	01:12AM	03:48AM	-1.6E	25 F	02:42AM	06:12AM	-0.9E			
	01:24PM	03:48PM	-1.0E		08:06AM	11:42AM	1.6F		07:06AM	09:48AM	1.8F		08:12AM	11:24AM	1.3F		07:24AM	10:06AM	1.8F		08:24AM	10:42AM	1.0F			
	07:42PM	09:36PM	0.8F		02:42PM	06:30PM	-1.7E		03:16PM	04:30PM	-1.8E		02:18PM	06:18PM	-2.1E		01:24PM	04:42PM	-2.5E		01:24PM	05:30PM	-2.2E			
					09:00PM	11:42PM	1.0F		08:12PM	10:24PM	1.4F		09:12PM				08:36PM	11:12PM	1.8F		08:36PM	11:12PM	1.8F	09:12PM		
11 Su	12:06AM	03:48AM	-1.9E	26 M	02:12AM	06:12AM	-1.7E	11 W	01:24AM	04:18AM	-1.9E	26 Th	12:06AM	12:06AM	1.5F	11 F	02:30AM	04:54AM	-1.4E	26 Sa	12:24AM	12:24AM	1.6F			
	07:48AM	10:24AM	1.5F		09:06AM	12:42PM	1.6F		08:00AM	10:48AM	1.9F		09:00AM	12:00PM	1.2F		08:24AM	11:00AM	1.7F		08:24AM	11:00AM	1.7F	09:18AM	11:30AM	0.9F
	02:30PM	05:06PM	-1.1E		03:30PM	07:18PM	-1.9E		02:18PM	05:24PM	-2.1E		03:06PM	11:30PM	1.7F		02:06PM	05:36PM	-2.7E		02:06PM	05:36PM	-2.7E	02:24PM	06:00PM	-2.3E
	08:48PM	10:48PM	1.0F		09:54PM				09:06PM				09:06PM				02:48PM	06:48PM	-2.2E		09:30PM			09:54PM		
12 M	01:30AM	04:48AM	-2.0E	27 Tu	03:18AM	12:48AM	1.3F	12 Th	02:36AM	05:18AM	-1.9E	27 F	03:54AM	12:48AM	1.7F	12 Sa	03:42AM	12:12AM	2.1F	27 Su	04:30AM	01:00AM	-1.8E			
	08:48AM	11:30AM	-1.7E		10:00AM	07:12AM	-1.7E		09:00AM	11:36AM	-2.0F		09:48AM	12:24PM	1.2F		09:30AM	11:54AM	1.6F		10:12AM	12:18PM	0.9F			
	03:24PM	06:18PM	-1.4E		04:12PM	08:00PM	-2.0E		02:54PM	06:12PM	-2.5E		03:18PM	07:06PM	-2.3E		02:48PM	06:24PM	-2.9E		02:54PM	06:36PM	-2.3E			
	09:42PM	11:48PM	1.2F		10:42PM				09:54PM				10:30PM				10:18PM				10:30PM			10:30PM		
13 Tu	02:42AM	05:48AM	-2.1E	28 W	04:12AM	01:30AM	1.5F	13 F	03:42AM	12:24AM	1.9F	28 														