

2019

January	
Mo	7 14 21 28
Tu	1 8 15 22 29
We	2 9 16 23 30
Th	3 10 17 24 31
Fr	4 11 18 25
Sa	5 12 19 26
Su	6 13 20 27

February	
Mo	4 11 18 25
Tu	5 12 19 26
We	6 13 20 27
Th	7 14 21 28
Fr	1 8 15 22
Sa	2 9 16 23
Su	3 10 17 24

March	
Mo	4 11 18 25
Tu	5 12 19 26
We	6 13 20 27
Th	7 14 21 28
Fr	1 8 15 22 29
Sa	2 9 16 23 30
Su	3 10 17 24 31

April	
Mo	1 8 15 22 29
Tu	2 9 16 23 30
We	3 10 17 24
Th	4 11 18 25
Fr	5 12 19 26
Sa	6 13 20 27
Su	7 14 21 28

May	
Mo	6 13 20 27
Tu	7 14 21 28
We	1 8 15 22 29
Th	2 9 16 23 30
Fr	3 10 17 24 31
Sa	4 11 18 25
Su	5 12 19 26

June	
Mo	3 10 17 24
Tu	4 11 18 25
We	5 12 19 26
Th	6 13 20 27
Fr	7 14 21 28
Sa	1 8 15 22 29
Su	2 9 16 23 30

July	
Mo	1 8 15 22 29
Tu	2 9 16 23 30
We	3 10 17 24 31
Th	4 11 18 25
Fr	5 12 19 26
Sa	6 13 20 27
Su	7 14 21 28

August	
Mo	5 12 19 26
Tu	6 13 20 27
We	7 14 21 28
Th	1 8 15 22 29
Fr	2 9 16 23 30
Sa	3 10 17 24 31
Su	4 11 18 25

September	
Mo	30 2 9 16 23
Tu	3 10 17 24
We	4 11 18 25
Th	5 12 19 26
Fr	6 13 20 27
Sa	7 14 21 28
Su	1 8 15 22 29

October	
Mo	7 14 21 28
Tu	1 8 15 22 29
We	2 9 16 23 30
Th	3 10 17 24 31
Fr	4 11 18 25
Sa	5 12 19 26
Su	6 13 20 27

November	
Mo	4 11 18 25
Tu	5 12 19 26
We	6 13 20 27
Th	7 14 21 28
Fr	1 8 15 22 29
Sa	2 9 16 23 30
Su	3 10 17 24

December	
Mo	30 2 9 16 23
Tu	31 3 10 17 24
We	4 11 18 25
Th	5 12 19 26
Fr	6 13 20 27
Sa	7 14 21 28
Su	1 8 15 22 29



## IPSWICH

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**Linda Pipe**

Marina Manager

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1A

immediately to the Orwell Navigation Service. Avoid going within 50 metres of the shore; this will minimise disturbances to birds and other wildlife.

**Danger of Ship Wash:** At or near low water in the River Orwell, deep drafted vessels navigating in the main channel cause sudden water level changes in confused directions on the river-banks adjacent to the main navigation channel. It is strongly recommended that lifejackets are worn at all times, especially when in small rowing tenders or sailing dinghys .

**Ipswich Port Radio:** Operates an information service on channel 68 for commercial vessels 24 hours a day. The station is called Orwell Navigation Service (ONS) and is situated at the Wet Dock lock head. All commercial vessels are required to report their position at designated points during passage. All craft fitted with VHF are advised to monitor VHF 68 for vessel movement information in the River Orwell.

#### Small Craft Using VHF:

Small craft are requested only to transmit when seeking to enter or leave the Wet Dock or in an emergency situation. This should be done when arriving under the Orwell Bridge and prior to departing their marina berth. When approaching the Lock always observe the navigation lights and keep a listening watch on VHF 68, the lockmaster will pass on details of ship movements and any other navigation hazards.

## NOTES

**RIVER ORWELL**

**Channel:** A dredged channel, well marked by buoys, runs the length of the river and is in constant use by commercial vessels. Small craft should always be aware that these vessels are not able to move out of the channel and should, therefore, give way. Int Regs Rule 9(b), 9(d), 18(b) (ii), 18(d) (i) . Bye laws 13, 75.

**Speed Limit:** Vessels under way in the River Orwell must, at all times, proceed with caution and at such a speed that no hazard will be created to the other craft which may be navigating or moored in the river. Maximum speed for vessels under 50GRT is considered to be 6 knots.

**Lookout:** An efficient all-round lookout must be maintained at all times when under way in the river. All vessels navigating within ABP's area do so at the sole risk of the Master and Owners thereof, who shall be responsible and liable for the safety and security of their vessel and for any damage done to the property of ABP and other persons.

**Environmental Concerns:** The Orwell estuary is an Area of Outstanding Natural Beauty. It is designated as a Special Protection Area and a European Marine Site. It is also designated under the Ramsar Convention (wetlands of international importance) as well as a Site of Special Scientific Interest. Prevent all forms of rubbish from getting in the river. Report any oil spills

1B

**ASSOCIATED BRITISH PORTS  
PORT OF IPSWICH**

Associated British Ports (ABP) Port of Ipswich stands at the head of the River Orwell, 9 miles from the open sea, and the southern North Sea shipping lanes.

The A14 and A12 are both 5 minutes away from the port, and the West Bank Terminal has a direct rail link.

The port handles a diverse range of cargoes including containers, dry bulks, forest products, general cargo, and liquid bulks. The West Bank Terminal has two Ro/Ro berths. There is a Five Star yacht marina in the Wet Dock, within walking distance of the town centre and railway station (London 1 hour).

Cliff Quay has covered storage of more than 63,000 sq m, plus areas available for open storage. The West Bank has two transit sheds totalling 6,377 sq m, plus extensive areas available for open storage.

The port has a wide range of fixed and mobile cranes up to 40 tonne capacity, and a complete range of plant and equipment for handling cargoes to and from storage facilities.

The maximum size vessel the port can handle is 155 metres length overall, with a draft of 8.4 metres on Spring tides. Common user berths at Cliff Quay have a minimum depth alongside of 8.2 metres.

Pilotage is available through Harwich Haven Authority.

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1	SU	02 26	3.9	14 55	4.1	08 12	0.6	20 19	0.9
2	M	03 05	3.8	15 41	3.8	08 50	0.7	20 56	1.1
3	TU	03 47	3.7	16 29	3.5	09 36	0.8	21 44	1.2
4	W	04 37	3.4	17 26	3.3	10 37	0.9	22 52	1.4
5	TH	05 39	3.3	18 35	3.1	11 50	0.9		
6	F	06 48	3.1	19 46	3.3	00 11	1.4	12 56	0.9
7	SA	07 56	3.3	20 46	3.4	01 18	1.3	13 49	0.8
8	SU	08 55	3.4	21 35	3.7	02 13	1.1	14 38	0.7
9	M	09 45	3.7	22 18	3.9	03 02	1.0	15 25	0.6
10	TU	10 30	3.8	22 57	4.1	03 47	0.8	16 09	0.6
11	W	11 10	3.9	23 34	4.1	04 30	0.7	16 51	0.5
12	TH	11 49	4.1			05 13	0.6	17 32	0.5
13	F	00 11	4.2	12 27	4.2	05 56	0.5	18 12	0.5
14	SA	00 50	4.2	13 10	4.2	06 35	0.5	18 48	0.6
15	SU	01 31	4.1	13 54	4.2	07 16	0.4	19 27	0.6
16	M	02 13	4.1	14 41	4.2	07 58	0.4	20 08	0.7
17	TU	02 58	3.9	15 32	3.9	08 45	0.4	20 53	0.8
18	W	03 49	3.7	16 30	3.8	09 35	0.5	21 44	1.0
19	TH	04 48	3.5	17 36	3.7	10 34	0.5	22 45	1.1
20	F	06 01	3.4	18 47	3.5	11 49	0.6		
21	SA	07 10	3.5	19 52	3.7	00 08	1.1	13 06	0.6
22	SU	08 15	3.7	20 54	3.8	01 28	1.0	14 10	0.5
23	M	09 14	3.8	21 50	3.9	02 33	0.9	15 08	0.5
24	TU	10 08	3.9	22 41	4.1	03 31	0.7	16 01	0.4
25	W	11 00	4.2	23 29	4.2	04 24	0.6	16 48	0.4
26	TH	11 47	4.2			05 13	0.5	17 32	0.5
27	F	00 11	4.2	12 33	4.2	06 01	0.4	18 14	0.6
28	SA	00 53	4.1	13 17	4.2	06 43	0.4	18 51	0.7
29	SU	01 32	4.1	13 58	4.1	07 23	0.4	19 25	0.7
30	M	02 08	3.9	14 38	3.9	07 59	0.5	19 57	0.8
31	TU	02 43	3.9	15 16	3.8	08 31	0.6	20 31	0.9

Time Zone UT(GMT)

**Lock Signals:** Lights fixed at the lock head and rear of the Orwell Navigation building indicate whether the lock is open or closed as follows:

- One Red Light** – lock closed to vessels entry
- One Green Light** – lock open for vessels entry

The lockmaster also operates VHF 68.

**Life jackets should always be worn when locking in at Ipswich.**

**Navigation Warning Velocity Control Structure:** Within the entrance to the New Cut is a water velocity control structure which is raised, when required, from the riverbed. When raised, the top of the structure may be just below the water level. **Three Vertical Red Lights**, when lit, warn vessels that they must not proceed.

2A

## TIDAL PREDICTIONS

The tidal information for Ipswich is reproduced by permission of the Controller of Her Majesty's Stationery Office and the Hydrographic Office (www.ukho.gov.uk). © British Crown Copyright reserved.

The time used is **Greenwich Mean Time**. 00H is midnight, 12H is noon. To find the approximate height of water on the dock sill at Ipswich, 2.87 metres (9.4ft) should be added to the height given in the tables for the appropriate date, and to find the approximate depth of the dredged channel, 5.6 metres (18.4ft) should be added.

Datum of predictions = 2.07 metres below Ordnance Datum (Newlyn).

### AIR DRAUGHT BENEATH ORWELL BRIDGE

Air draught above Chart Datum = 43.07 metres  
 minus height of tide (Ipswich)  
 = Air draught beneath Bridge.

**Note: Heights are shown in metres (1 metre = 3.2808 feet) - see chart on opposite page for detailed equivalents.**

During "summer time" one hour should be added to the times shown in the tables for tides only.

**MOON PHASE SYMBOLS:** ● New Moon ○ Full Moon  
 British Summer Time for 2019 commences  
 March 31st 01H and ends October 27th 02H GMT

Every care has been taken in the compilation of the information given herein to ensure its accuracy, but Associated British Ports cannot be held responsible for any errors or for any consequences arising from them.

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1	SU	00 55	4.7	13 15	4.6	06 29	0.4	19 01	-0.1
2	M	01 42	4.7	13 59	4.6	07 10	0.4	19 43	-0.1
3	TU	02 27	4.6	14 43	4.5	07 51	0.4	20 24	0.0
4	W	03 13	4.3	15 26	4.3	08 33	0.5	21 07	0.2
5	TH	03 58	4.1	16 13	4.1	09 16	0.7	21 53	0.5
6	F	04 46	3.7	17 06	3.8	10 05	0.9	22 53	0.8
7	SA	05 42	3.4	18 15	3.4	11 14	1.1		
8	SU	06 52	3.1	19 37	3.3	00 07	1.0	12 45	1.1
9	M	08 10	3.1	20 49	3.4	01 20	1.1	14 02	1.0
10	TU	09 15	3.4	21 47	3.7	02 24	1.1	15 09	0.8
11	W	10 08	3.8	22 38	4.1	03 22	1.0	16 06	0.6
12	TH	10 55	3.9	23 23	4.2	04 11	0.9	16 52	0.5
13	F	11 37	4.1			04 53	0.8	17 31	0.4
14	SA	00 02	4.2	12 15	4.2	05 30	0.7	18 03	0.4
15	SU	00 40	4.2	12 49	4.1	06 02	0.7	18 28	0.4
16	M	01 12	4.1	13 17	3.9	06 31	0.7	18 54	0.5
17	TU	01 37	3.9	13 41	3.9	07 01	0.7	19 24	0.5
18	W	02 04	3.9	14 09	4.1	07 33	0.7	19 54	0.5
19	TH	02 36	3.9	14 43	4.1	08 05	0.7	20 25	0.5
20	F	03 14	3.9	15 22	3.9	08 41	0.7	21 00	0.7
21	SA	03 57	3.7	16 08	3.8	09 21	0.8	21 42	0.8
22	SU	04 50	3.4	17 07	3.5	10 11	1.0	22 36	1.0
23	M	05 57	3.3	18 27	3.3	11 16	1.1		
24	TU	07 11	3.1	19 48	3.3	00 01	1.2	12 59	1.1
25	W	08 27	3.3	21 06	3.7	01 54	1.1	14 26	0.8
26	TH	09 35	3.7	22 10	4.1	03 01	0.9	15 34	0.5
27	F	10 32	4.1	23 02	4.5	03 56	0.7	16 28	0.3
28	SA	11 21	4.3	23 48	4.6	04 43	0.5	17 15	0.0
29	SU			12 04	4.6	05 27	0.4	17 59	-0.1
30	M	00 33	4.7	12 49	4.7	06 09	0.3	18 38	-0.1

Time Zone UT(GMT)

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1	TU	01 18	4.7	13 32	4.7	06 49	0.3	19 18	0.0
2	W	02 01	4.6	14 15	4.6	07 29	0.4	19 57	0.2
3	TH	02 42	4.3	14 57	4.5	08 10	0.5	20 37	0.4
4	F	03 24	4.1	15 42	4.1	08 50	0.6	21 19	0.7
5	SA	04 07	3.7	16 32	3.8	09 35	0.8	22 09	1.0
6	SU	04 55	3.4	17 36	3.4	10 38	1.0	23 29	1.3
7	M	05 59	3.1	19 10	3.3			12 20	1.1
8	TU	07 36	3.0	20 25	3.4	00 49	1.3	13 37	1.0
9	W	08 45	3.3	21 23	3.7	01 55	1.3	14 40	0.8
10	TH	09 39	3.7	22 11	3.9	02 53	1.1	15 36	0.7
11	F	10 26	3.9	22 55	4.2	03 42	1.0	16 20	0.5
12	SA	11 08	4.1	23 35	4.2	04 23	0.8	16 55	0.5
13	SU	11 44	4.1			04 59	0.7	17 24	0.5
14	M	00 09	4.2	12 16	4.1	05 32	0.7	17 53	0.5
15	TU	00 39	4.1	12 45	4.1	06 05	0.6	18 24	0.5
16	W	01 06	4.1	13 12	4.1	06 37	0.6	18 54	0.5
17	TH	01 33	4.1	13 42	4.1	07 09	0.6	19 25	0.5
18	F	02 06	4.1	14 17	4.1	07 42	0.6	19 57	0.6
19	SA	02 43	3.9	14 58	4.1	08 19	0.7	20 34	0.7
20	SU	03 25	3.8	15 47	3.8	09 01	0.7	21 18	0.9
21	M	04 16	3.5	16 45	3.5	09 51	0.9	22 10	1.1
22	TU	05 21	3.3	18 04	3.4	10 57	1.0	23 27	1.3
23	W	06 46	3.1	19 31	3.4			12 42	0.9
24	TH	08 05	3.3	20 48	3.7	01 31	1.2	14 07	0.7
25	F	09 11	3.7	21 48	4.1	02 37	1.0	15 11	0.5
26	SA	10 06	4.1	22 40	4.5	03 32	0.8	16 04	0.2
27	SU	10 55	4.3	23 26	4.6	04 19	0.6	16 51	0.1
28	M	11 40	4.6			05 04	0.4	17 34	0.0
29	TU	00 08	4.7	12 23	4.6	05 47	0.4	18 15	0.1
30	W	00 51	4.6	13 08	4.6	06 28	0.4	18 53	0.2
31	TH	01 33	4.5	13 50	4.6	07 08	0.4	19 31	0.4

CONVERSION TABLE: METRES TO FEET  
Conversion Factor: 1 foot = 0.3048 metres

Metres	Feet	Metres	Feet
0.10	0.3	3.90	12.8
0.20	0.7	4.00	13.1
0.30	1.0	4.10	13.5
0.40	1.3	4.20	13.8
0.50	1.6	4.30	14.1
0.60	2.0	4.40	14.4
0.70	2.3	4.50	14.8
0.80	2.6	4.60	15.1
0.90	3.0	4.70	15.4
1.00	3.3	4.80	15.7
1.10	3.6	4.90	16.1
1.20	3.9	5.00	16.4
1.30	4.3	5.10	16.7
1.40	4.6	5.20	17.1
1.50	4.9	5.30	17.4
1.60	5.2	5.40	17.7
1.70	5.6	5.50	18.0
1.80	5.9	5.60	18.4
1.90	6.2	5.70	18.7
2.00	6.6	5.80	19.0
2.10	6.9	5.90	19.4
2.20	7.2	6.00	19.7
2.30	7.6	6.10	20.0
2.40	7.9	6.20	20.3
2.50	8.2	6.30	20.7
2.60	8.5	6.40	21.0
2.70	8.9	6.50	21.3
2.80	9.2	6.60	21.7
2.90	9.5	6.70	22.0
3.00	9.8	6.80	22.3
3.10	10.2	6.90	22.6
3.20	10.5	7.00	23.0
3.30	10.8	7.10	23.3
3.40	11.2	7.20	23.6
3.50	11.5	7.30	24.0
3.60	11.8	7.40	24.3
3.70	12.1	7.50	24.6
3.80	12.5		

2B

IPSWICH HAVEN MARINA

ABP Ipswich has opened a marina in the enclosed dock. Lockgates operate at all states of the tide subject to vessels' draft.

River approach to marina contact: Orwell Navigation Service, call sign *Lock Control* on VHF channel 68. Once through the lock contact: Ipswich Haven Marina on VHF Channel 80 or 37 for allocation of a pontoon berth.

Facilities and services:

- Boat Hoist (70 tonnes) and craneage
- Diesel fuel and bottled gas supplies
- Electricity
- Refuse and waste oil disposal
- Laying-up facility
- Chandlery and Provisions Store
- Workshops for repairs/engineering/rigging etc.
- Marine electronic sales and installation service
- New and used boat sales centre
- Licensed Bistro
- Car parking
- Shower/toilet facilities
- Pubs/Restaurants along the quay side
- Leisure facilities within a 5-minute walk
- Yacht Club
- Wi-Fi Coverage

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1	F	02 13	4.2	14 32	4.3	07 48	0.5	20 08	0.6
2	SA	02 52	4.1	15 16	4.1	08 27	0.6	20 45	0.8
3	SU	03 31	3.8	16 04	3.8	09 10	0.8	21 28	1.1
4	M	04 16	3.4	17 02	3.4	10 05	0.9	22 33	1.3
5	TU	05 12	3.1	18 23	3.1	11 41	1.0		
6	W	06 33	3.0	19 47	3.3	00 05	1.4	12 59	1.0
7	TH	08 00	3.1	20 48	3.5	01 17	1.4	14 00	0.9
8	F	09 00	3.4	21 38	3.8	02 15	1.2	14 52	0.7
9	SA	09 48	3.7	22 22	3.9	03 05	1.0	15 35	0.6
10	SU	10 31	3.9	23 00	4.1	03 46	0.9	16 10	0.6
11	M	11 09	3.9	23 34	4.2	04 24	0.8	16 44	0.5
12	TU	11 43	4.1			05 00	0.7	17 19	0.5
13	W	00 04	4.2	12 14	4.1	05 38	0.6	17 57	0.5
14	TH	00 35	4.2	12 47	4.1	06 15	0.6	18 30	0.5
15	F	01 09	4.2	13 22	4.2	06 50	0.5	19 02	0.6
16	SA	01 43	4.1	14 02	4.2	07 26	0.5	19 37	0.6
17	SU	02 23	3.9	14 46	4.1	08 05	0.6	20 18	0.8
18	M	03 07	3.8	15 37	3.9	08 50	0.6	21 02	0.9
19	TU	03 56	3.5	16 37	3.7	09 41	0.7	21 55	1.1
20	W	05 01	3.4	17 52	3.5	10 46	0.8	23 07	1.2
21	TH	06 26	3.3	19 12	3.5			12 21	0.8
22	F	07 40	3.4	20 23	3.8	00 56	1.2	13 40	0.6
23	SA	08 44	3.7	21 22	4.1	02 06	1.0	14 42	0.4
24	SU	09 39	3.9	22 14	4.3	03 03	0.8	15 37	0.3
25	M	10 30	4.2	23 02	4.5	03 55	0.6	16 24	0.2
26	TU	11 18	4.3	23 46	4.5	04 42	0.5	17 09	0.2
27	W			12 01	4.5	05 28	0.4	17 51	0.3
28	TH	00 28	4.5	12 47	4.5	06 12	0.4	18 30	0.4
29	F	01 11	4.3	13 30	4.3	06 53	0.4	19 08	0.6
30	SA	01 50	4.2	14 12	4.2	07 33	0.5	19 43	0.7

AUGUST 2019

IPSWICH

Date	HEIGHTS ARE ABOVE CHART DATUM							
	High Water				Low Water			
	Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m
1 TH ●			12 00	4.2	05 18	0.5	17 49	0.2
2 F	00 23	4.5	12 48	4.3	06 04	0.4	18 35	0.1
3 SA	01 14	4.6	13 35	4.5	06 47	0.4	19 20	0.0
4 SU	02 02	4.6	14 21	4.5	07 29	0.4	20 04	0.0
5 M	02 50	4.5	15 08	4.3	08 12	0.5	20 50	0.0
6 TU	03 40	4.3	15 56	4.2	08 55	0.6	21 36	0.2
7 W ☽	04 30	4.1	16 46	4.1	09 43	0.7	22 29	0.4
8 TH	05 24	3.8	17 44	3.8	10 37	0.9	23 31	0.6
9 F	06 25	3.5	18 50	3.5	11 48	1.0		
10 SA	07 30	3.4	19 59	3.5	00 41	0.7	13 10	1.0
11 SU	08 36	3.4	21 06	3.5	01 47	0.8	14 22	1.0
12 M	09 37	3.5	22 05	3.8	02 48	0.9	15 28	0.8
13 TU	10 31	3.8	22 57	3.9	03 44	0.8	16 24	0.6
14 W	11 19	4.1	23 43	4.1	04 32	0.8	17 13	0.5
15 TH ○			12 00	4.1	05 16	0.7	17 56	0.4
16 F	00 25	4.1	12 40	4.1	05 55	0.7	18 31	0.4
17 SA	01 06	4.1	13 15	4.1	06 27	0.7	18 59	0.4
18 SU	01 38	3.9	13 43	3.9	06 57	0.7	19 26	0.4
19 M	02 07	3.8	14 11	3.9	07 28	0.7	19 55	0.5
20 TU	02 37	3.8	14 42	3.9	07 59	0.7	20 26	0.5
21 W	03 11	3.8	15 18	3.9	08 32	0.8	21 00	0.5
22 TH	03 51	3.8	15 58	3.8	09 09	0.8	21 37	0.6
23 F ☾	04 38	3.7	16 46	3.5	09 51	0.9	22 22	0.8
24 SA	05 33	3.4	17 50	3.4	10 44	1.1	23 22	0.9
25 SU	06 38	3.3	19 01	3.3	11 55	1.2		
26 M	07 42	3.3	20 11	3.4	00 54	1.0	13 25	1.1
27 TU	08 50	3.4	21 22	3.5	02 12	1.0	14 42	0.9
28 W	09 56	3.8	22 26	3.9	03 18	0.8	15 49	0.6
29 TH	10 52	4.1	23 20	4.3	04 14	0.6	16 46	0.3
30 F ●	11 42	4.3			05 02	0.5	17 35	0.1
31 SA	00 08	4.6	12 28	4.5	05 47	0.4	18 21	0.0

Time Zone UT(GMT)

JANUARY 2019

IPSWICH

Date	HEIGHTS ARE ABOVE CHART DATUM							
	High Water				Low Water			
	Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m
1 TU	07 55	3.5	20 34	3.7	01 08	1.1	13 49	0.6
2 W	08 56	3.7	21 31	3.8	02 13	1.0	14 46	0.6
3 TH	09 51	3.8	22 22	3.9	03 12	0.8	15 39	0.6
4 F	10 43	3.9	23 09	3.9	04 07	0.7	16 26	0.6
5 SA	11 30	4.1	23 51	4.1	04 55	0.6	17 09	0.6
6 SU ●			12 11	4.1	05 40	0.5	17 48	0.6
7 M	00 29	4.1	12 52	3.9	06 19	0.5	18 23	0.7
8 TU	01 06	3.9	13 27	3.9	06 52	0.5	18 53	0.7
9 W	01 35	3.9	14 00	3.8	07 21	0.5	19 23	0.7
10 TH	02 05	3.9	14 34	3.8	07 52	0.5	19 56	0.8
11 F	02 41	3.9	15 12	3.8	08 27	0.5	20 32	0.8
12 SA	03 21	3.8	15 54	3.7	09 06	0.6	21 10	0.9
13 SU	04 05	3.7	16 42	3.5	09 48	0.6	21 53	1.0
14 M ☽	04 56	3.5	17 37	3.4	10 37	0.7	22 47	1.1
15 TU	05 55	3.4	18 39	3.4	11 39	0.8	23 55	1.1
16 W	07 00	3.3	19 40	3.4			12 50	0.8
17 TH	08 02	3.4	20 41	3.5	01 14	1.1	13 57	0.8
18 F	09 05	3.5	21 42	3.7	02 23	0.9	15 00	0.7
19 SA	10 05	3.8	22 39	3.9	03 26	0.8	15 57	0.6
20 SU	11 01	4.1	23 31	4.2	04 23	0.5	16 49	0.5
21 M ○	11 52	4.3			05 15	0.3	17 36	0.4
22 TU	00 19	4.3	12 43	4.5	06 06	0.2	18 21	0.4
23 W	01 09	4.3	13 33	4.6	06 52	0.0	19 04	0.4
24 TH	01 56	4.3	14 22	4.5	07 37	0.0	19 47	0.4
25 F	02 43	4.3	15 11	4.3	08 23	0.0	20 30	0.5
26 SA	03 29	4.2	16 01	4.2	09 09	0.1	21 15	0.7
27 SU ☾	04 19	4.1	16 53	3.8	09 58	0.3	22 03	0.8
28 M	05 12	3.8	17 49	3.5	10 57	0.5	23 04	1.0
29 TU	06 13	3.5	18 51	3.4			12 04	0.7
30 W	07 19	3.4	19 57	3.3	00 24	1.1	13 13	0.8
31 TH	08 28	3.4	21 03	3.4	01 43	1.0	14 15	0.8

Time Zone UT(GMT)

3A

APRIL 2019

IPSWICH

Date	HEIGHTS ARE ABOVE CHART DATUM							
	High Water				Low Water			
	Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m
1 M	09 42	3.5	21 59	3.4	03 03	0.7	15 13	0.9
2 TU	10 31	3.8	22 45	3.7	03 55	0.6	16 00	0.8
3 W	11 13	3.9	23 26	3.8	04 33	0.5	16 39	0.7
4 TH	11 50	4.1			05 05	0.4	17 12	0.6
5 F ●	00 00	3.9	12 23	3.9	05 36	0.3	17 47	0.5
6 SA	00 33	3.9	12 53	3.9	06 08	0.3	18 21	0.5
7 SU	01 03	3.9	13 22	3.9	06 40	0.3	18 53	0.4
8 M	01 31	3.9	13 53	3.9	07 11	0.3	19 26	0.4
9 TU	02 04	4.1	14 28	3.9	07 42	0.3	20 00	0.4
10 W	02 42	4.1	15 09	3.8	08 18	0.4	20 39	0.5
11 TH	03 25	3.9	15 54	3.7	08 57	0.5	21 24	0.6
12 F ☽	04 17	3.7	16 49	3.3	09 44	0.7	22 18	0.7
13 SA	05 21	3.4	17 59	3.1	10 43	1.0	23 30	0.8
14 SU	06 42	3.3	19 21	3.0			12 32	1.1
15 M	08 08	3.4	20 39	3.3	01 18	0.8	14 05	1.0
16 TU	09 20	3.7	21 43	3.7	02 39	0.5	15 08	0.7
17 W	10 17	4.1	22 36	3.9	03 41	0.3	16 01	0.5
18 TH	11 07	4.3	23 24	4.2	04 32	0.1	16 47	0.4
19 F ○	11 52	4.5			05 16	-0.1	17 30	0.3
20 SA	00 07	4.5	12 35	4.5	05 59	-0.1	18 13	0.2
21 SU	00 51	4.5	13 17	4.5	06 38	0.0	18 52	0.2
22 M	01 33	4.5	13 57	4.3	07 15	0.1	19 30	0.3
23 TU	02 14	4.3	14 35	4.1	07 51	0.3	20 06	0.4
24 W	02 54	4.2	15 12	3.8	08 26	0.5	20 42	0.5
25 TH	03 38	3.9	15 51	3.7	09 02	0.7	21 22	0.7
26 F ☾	04 25	3.5	16 36	3.4	09 47	1.0	22 18	0.8
27 M	05 21	3.3	17 33	3.1	11 01	1.2	23 50	0.9
28 SU	06 36	3.0	18 45	3.0			12 28	1.3
29 M	08 06	3.1	20 15	3.0	01 14	0.9	13 37	1.2
30 TU	09 07	3.4	21 18	3.3	02 15	0.8	14 33	1.0

Time Zone UT(GMT)

MAY 2019

IPSWICH

Date	HEIGHTS ARE ABOVE CHART DATUM							
	High Water				Low Water			
	Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m
1 W	09 57	3.7	22 06	3.5	03 06	0.6	15 21	0.9
2 TH	10 39	3.8	22 48	3.7	03 46	0.5	16 02	0.7
3 F	11 16	3.9	23 26	3.8	04 23	0.4	16 41	0.6
4 SA ●	11 50	4.1			05 01	0.4	17 18	0.5
5 SU	00 00	3.9	12 21	4.1	05 38	0.3	17 57	0.4
6 M	00 34	3.9	12 55	4.1	06 15	0.3	18 32	0.4
7 TU	01 09	4.1	13 31	4.1	06 49	0.3	19 08	0.3
8 W	01 46	4.1	14 09	4.1	07 23	0.4	19 46	0.3
9 TH	02 28	4.1	14 51	3.9	08 01	0.5	20 28	0.4
10 F	03 16	3.9	15 39	3.7	08 43	0.6	21 16	0.5
11 SA	04 11	3.8	16 35	3.4	09 32	0.8	22 13	0.6
12 SU ☽	05 17	3.5	17 48	3.3	10 33	1.0	23 32	0.7
13 M	06 37	3.4	19 08	3.3			12 14	1.1
14 TU	07 52	3.5	20 17	3.4	01 04	0.6	13 39	1.0
15 W	08 58	3.8	21 17	3.7	02 15	0.4	14 41	0.8
16 TH	09 54	4.1	22 11	3.9	03 15	0.2	15 35	0.6
17 F	10 44	4.3	23 00	4.2	04 07	0.1	16 24	0.5
18 SA ○	11 30	4.3	23 45	4.3	04 52	0.1	17 09	0.4
19 SU			12 11	4.3	05 35	0.1	17 53	0.3
20 M	00 28	4.3	12 53	4.3	06 15	0.2	18 34	0.3
21 TU	01 12	4.3	13 32	4.2	06 52	0.3	19 13	0.4
22 W	01 53	4.2	14 09	4.1	07 27	0.5	19 49	0.4
23 TH	02 32	4.1	14 44	3.9	08 00	0.6	20 24	0.5
24 F	03 15	3.8	15 23	3.7	08 34	0.8	21 03	0.6
25 SA	03 59	3.7	16 08	3.5	09 15	1.0	21 52	0.7
26 SU ☾	04 49	3.4	17 02	3.3	10 09	1.2	22 58	0.8
27 M	05 48	3.1	18 03	3.1	11 26	1.2		
28 TU	06 54	3.1	19 09	3.1	00 08	0.8	12 39	1.2
29 W	08 04	3.3	20 16	3.3	01 11	0.8	13 40	1.1
30 TH	09 05	3.4	21 14	3.4	02 05	0.7	14 32	0.9
31 F	09 53	3.7	22 03	3.7	02 56	0.6	15 21	0.8

Time Zone UT(GMT)

JUNE 2019

IPSWICH

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1 SA	10 35	3.9	22 47	3.8	03 43	0.5	16 06	0.7	
2 SU	11 15	4.1	23 29	3.9	04 28	0.4	16 50	0.5	
3 M	11 53	4.1			05 10	0.4	17 33	0.4	
4 TU	00 08	4.1	12 33	4.2	05 52	0.4	18 15	0.3	
5 W	00 50	4.2	13 15	4.2	06 31	0.4	18 55	0.3	
6 TH	01 34	4.2	13 58	4.1	07 10	0.4	19 38	0.3	
7 F	02 21	4.2	14 43	3.9	07 51	0.5	20 24	0.3	
8 SA	03 12	4.1	15 33	3.8	08 36	0.6	21 14	0.3	
9 SU	04 09	3.9	16 30	3.7	09 25	0.8	22 11	0.4	
10 M	05 12	3.8	17 37	3.5	10 25	1.0	23 23	0.5	
11 TU	06 23	3.7	18 47	3.5	11 45	1.0		1.0	
12 W	07 28	3.7	19 51	3.5	00 39	0.4	13 05	0.7	
13 TH	08 31	3.8	20 51	3.7	01 47	0.4	14 09	0.9	
14 F	09 28	3.9	21 46	3.9	02 46	0.4	15 08	0.7	
15 SA	10 20	4.1	22 38	4.1	03 39	0.3	16 02	0.6	
16 SU	11 08	4.2	23 27	4.2	04 27	0.3	16 51	0.5	
17 M	11 52	4.2			05 12	0.4	17 38	0.4	
18 TU	00 11	4.2	12 34	4.1	05 55	0.5	18 22	0.4	
19 W	00 55	4.2	13 14	4.1	06 32	0.5	19 01	0.4	
20 TH	01 36	4.1	13 49	3.9	07 07	0.6	19 37	0.4	
21 F	02 15	3.9	14 22	3.9	07 39	0.7	20 11	0.5	
22 SA	02 53	3.8	14 59	3.8	08 13	0.8	20 46	0.5	
23 SU	03 33	3.7	15 42	3.7	08 50	0.9	21 26	0.6	
24 M	04 19	3.5	16 30	3.5	09 33	1.0	22 17	0.7	
25 TU	05 08	3.4	17 24	3.4	10 28	1.1	23 15	0.7	
26 W	06 03	3.3	18 25	3.3	11 35	1.2		1.1	
27 TH	07 01	3.3	19 23	3.3	00 16	0.8	12 42	1.0	
28 F	08 00	3.4	20 22	3.4	01 16	0.7	13 43	1.0	
29 SA	08 59	3.5	21 19	3.5	02 12	0.7	14 39	0.9	
30 SU	09 53	3.8	22 12	3.8	03 07	0.6	15 34	0.8	

Time Zone UT(GMT)

MARCH 2019

IPSWICH

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1 F	08 00	3.1	20 33	3.0	01 13	1.0	13 46	1.0	
2 SA	09 10	3.3	21 35	3.3	02 28	0.9	14 47	1.0	
3 SU	10 07	3.7	22 28	3.7	03 32	0.7	15 42	0.8	
4 M	10 56	3.8	23 13	3.8	04 24	0.6	16 28	0.7	
5 TU	11 39	3.9	23 54	3.9	05 06	0.5	17 07	0.6	
6 W			12 17	4.1	05 40	0.4	17 41	0.6	
7 TH	00 29	3.9	12 52	3.9	06 09	0.4	18 14	0.6	
8 F	01 02	3.9	13 21	3.9	06 37	0.4	18 45	0.5	
9 SA	01 29	3.9	13 49	3.8	07 07	0.3	19 15	0.5	
10 SU	01 57	3.9	14 18	3.9	07 37	0.3	19 46	0.5	
11 M	02 27	3.9	14 54	3.9	08 09	0.4	20 20	0.5	
12 TU	03 03	3.9	15 36	3.8	08 42	0.4	20 57	0.6	
13 W	03 45	3.8	16 22	3.5	09 19	0.5	21 41	0.7	
14 TH	04 34	3.7	17 18	3.3	10 05	0.7	22 33	0.8	
15 F	05 37	3.4	18 26	3.1	11 05	0.9	23 43	0.9	
16 SA	06 56	3.3	19 40	3.0			12 44	1.0	
17 SU	08 18	3.3	20 58	3.3	01 25	0.9	14 22	0.9	
18 M	09 35	3.7	22 04	3.7	02 54	0.7	15 28	0.7	
19 TU	10 36	4.1	22 58	3.9	04 00	0.4	16 21	0.5	
20 W	11 27	4.3	23 46	4.3	04 52	0.1	17 07	0.3	
21 TH			12 12	4.6	05 39	-0.1	17 50	0.2	
22 F	00 31	4.5	12 58	4.6	06 21	-0.2	18 31	0.2	
23 SA	01 16	4.6	13 41	4.6	07 00	-0.1	19 11	0.2	
24 SU	01 58	4.5	14 23	4.3	07 39	0.0	19 49	0.3	
25 M	02 39	4.5	15 03	4.2	08 19	0.1	20 27	0.4	
26 TU	03 20	4.2	15 44	3.8	08 56	0.4	21 06	0.6	
27 W	04 04	3.9	16 25	3.5	09 37	0.6	21 48	0.7	
28 TH	04 54	3.5	17 12	3.3	10 32	0.9	22 51	0.9	
29 F	05 55	3.3	18 13	3.0	11 54	1.1		1.1	
30 SA	07 27	3.0	19 49	2.9	00 40	1.0	13 12	1.2	
31 SU	08 45	3.3	21 05	3.1	01 59	0.9	14 16	1.1	

Time Zone UT(GMT)

3B

FEBRUARY 2019

IPSWICH

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1 F	09 31	3.5	22 00	3.5	02 51	0.9	15 13	0.8	
2 SA	10 26	3.7	22 50	3.8	03 50	0.7	16 05	0.7	
3 SU	11 15	3.9	23 34	3.9	04 42	0.6	16 50	0.7	
4 M	11 58	3.9			05 27	0.5	17 29	0.7	
5 TU	00 14	3.9	12 38	3.9	06 05	0.4	18 05	0.6	
6 W	00 51	3.9	13 14	3.9	06 34	0.4	18 35	0.6	
7 TH	01 22	3.9	13 43	3.8	07 02	0.4	19 06	0.6	
8 F	01 50	3.9	14 12	3.8	07 33	0.4	19 37	0.6	
9 SA	02 19	3.9	14 45	3.8	08 04	0.4	20 09	0.6	
10 SU	02 54	3.9	15 24	3.8	08 37	0.4	20 44	0.7	
11 M	03 32	3.8	16 08	3.7	09 12	0.5	21 21	0.7	
12 TU	04 15	3.7	16 58	3.5	09 51	0.6	22 07	0.8	
13 W	05 07	3.5	17 56	3.4	10 40	0.7	23 03	1.0	
14 TH	06 14	3.4	19 01	3.3	11 45	0.8			
15 F	07 25	3.3	20 07	3.3	00 17	1.0	13 18	0.9	
16 SA	08 37	3.4	21 17	3.4	01 48	1.0	14 37	0.8	
17 SU	09 47	3.7	22 21	3.7	03 05	0.8	15 41	0.6	
18 M	10 48	4.1	23 16	4.1	04 11	0.5	16 35	0.5	
19 TU	11 41	4.3			05 05	0.2	17 24	0.4	
20 W	00 04	4.3	12 29	4.6	05 55	0.0	18 08	0.3	
21 TH	00 52	4.5	13 18	4.6	06 39	-0.1	18 49	0.3	
22 F	01 38	4.5	14 04	4.6	07 22	-0.1	19 30	0.3	
23 SA	02 22	4.5	14 49	4.5	08 04	-0.1	20 11	0.4	
24 SU	03 06	4.3	15 33	4.2	08 46	0.0	20 51	0.5	
25 M	03 49	4.2	16 19	3.9	09 28	0.3	21 33	0.7	
26 TU	04 35	3.9	17 06	3.5	10 17	0.5	22 23	0.9	
27 W	05 28	3.5	17 59	3.3	11 20	0.8	23 36	1.0	
28 TH	06 38	3.3	19 10	3.0			12 36	1.0	

Time Zone UT(GMT)

JULY 2019

IPSWICH

Date		HEIGHTS ARE ABOVE CHART DATUM							
		High Water				Low Water			
		Morning		Afternoon		Morning		Afternoon	
	Time	m	Time	m	Time	m	Time	m	
1 M	10 43	3.9	23 02	3.9	04 00	0.5	16 24	0.6	
2 TU	11 30	4.1	23 49	4.2	04 48	0.5	17 13	0.4	
3 W			12 14	4.2	05 34	0.4	18 01	0.3	
4 TH	00 36	4.3	13 02	4.2	06 17	0.4	18 46	0.2	
5 F	01 25	4.3	13 49	4.2	06 59	0.4	19 32	0.1	
6 SA	02 15	4.3	14 37	4.2	07 42	0.5	20 19	0.1	
7 SU	03 06	4.3	15 26	4.1	08 27	0.6	21 07	0.1	
8 M	03 59	4.2	16 19	3.9	09 15	0.7	21 59	0.2	
9 TU	04 56	3.9	17 16	3.8	10 07	0.8	23 00	0.3	
10 W	05 57	3.8	18 20	3.7	11 11	1.0			
11 TH	06 59	3.7	19 21	3.7	00 06	0.4	12 27	1.0	
12 F	08 01	3.7	20 24	3.7	01 14	0.5	13 39	1.0	
13 SA	09 02	3.7	21 24	3.7	02 15	0.6	14 43	0.8	
14 SU	09 58	3.8	22 20	3.9	03 13	0.6	15 43	0.7	
15 M	10 49	3.9	23 12	4.1	04 05	0.6	16 36	0.6	
16 TU	11 35	4.1	23 58	4.1	04 52	0.6	17 26	0.5	
17 W			12 18	4.1	05 35	0.6	18 11	0.4	
18 TH	00 42	4.1	12 58	4.1	06 15	0.7	18 50	0.4	
19 F	01 23	4.1	13 33	3.9	06 49	0.7	19 23	0.4	
20 SA	01 59	3.9	14 05	3.9	07 20	0.8	19 52	0.5	
21 SU	02 32	3.8	14 37	3.9	07 51	0.8	20 23	0.5	
22 M	03 07	3.8	15 13	3.8	08 25	0.8	20 58	0.5	
23 TU	03 46	3.7	15 55	3.8	09 02	0.9	21 38	0.6	
24 W	04 30	3.7	16 42	3.7	09 44	1.0	22 25	0.7	
25 TH	05 20	3.5	17 37	3.4	10 34	1.1	23 21	0.8	
26 F	06 18	3.4	18 39	3.4	11 38	1.1			
27 SA	07 15	3.4	19 39	3.4	00 27	0.8	12 53	1.1	
28 SU	08 16	3.4	20 41	3.4	01 35	0.8	14 00	1.0	
29 M	09 18	3.7	21 43	3.7	02 37	0.8	15 04	0.9	
30 TU	10 17	3.8	22 42	3.9	03 36	0.7	16 04	0.6	
31 W	11 11	4.1	23 34	4.2	04 29	0.6	16 58	0.4	

Time Zone UT(GMT)