

KARNAPHULI RIVER

TIDE TABLES

2021



Department of Hydrography
CHITTAGONG PORT AUTHORITY
www.cpa.gov.bd



CHITTAGONG PORT AUTHORITY

Country moves with us

Bandar Bhaban
Chittagong-4100
Bangladesh

+880-31-2522200-29 T
+880-31-2510889 F
info@cpa.gov.bd E

KARNAPHULI RIVER

Handbook of Tide Tables

2021



Department of Hydrography
CHITTAGONG PORT AUTHORITY

www.cpa.gov.bd

Tide Tables 2021

KARNAPHULI RIVER

Hand Book of Tide Tables at
Kalurghat, Sadarghat, Khal No-10 & Khal No-18

Prediction datum is the CD (ISLWL)

Time zone is BST (+6 GMT)

- Full Moon
- New Moon

Printed in Bangladesh by
NOKSHA | Anderkilla, Chattogram-4000
www.nokshaworld.com

Published and Copyright © 2021 by
Department of Hydrography
Chittagong Port Authority
Bangladesh

www.cpa.gov.bd



CHITTAGONG PORT AUTHORITY

Country moves with us



About Chittagong Port Authority

The Chittagong Port is the principal seaport of Bangladesh handling about 92% of import-export trade of the country. It provides a major gateway for the country's trade with the outside world. As such its importance in the national economy is paramount. The Chittagong Port Authority (CPA) is a basic services provider. Its Objectives focuses mainly on providing necessary services and facilities to the port users efficiently & effectively at competitive price.



Historical Background

The history of CPA can be traced to the 4th century BC. During the 9th-15th century AD, Chittagong was known as “SHETGANG” to early European mariners. In the 16th century, Portuguese sailors took great interest in the locality around Chittagong which was then popularly known as ‘Porte Grande’. The port was established at its present location in 1887. By 1910; four jetties were constructed to handle 0.5 million tons of cargo annually. Since then the port has grown gradually to its present shape.

Location

Chittagong port is situated in the estuary of the river Karnaphuli; its main berths being around eight nautical inshore from the port’s outer anchorage.

Administration

The Chittagong Port Authority was established through promulgation of the Chittagong Port Ordinance 1976. The CPA now comprises of the Chairman and four other Members. The Chairman is appointed by the Government and also is the Chief Executive of the port. The Port operates under the administrative control of the Ministry of Shipping of the Government of the People’s Republic of Bangladesh.

Commitments

Our commitments are to help sustain the economy of Bangladesh and support the quality of life for communities along the river by:

- Keeping the river safe for all users-from the largest ships to the smallest rowing boats.
- Realizing the river’s sustainable development potential-principally making sure freight movements can switch from road to water.
- Protecting the river’s environment-making sure that developments in the river are properly managed.

Port Limit

- Upper Limit- The upper port limit extended up to 2.5 km of Halda & Karnaphuli River and
- Lower Limit- The lower limit extended up to 13 km radius drawn from Patenga Beacon to seaward.

Karnaphuli River

Karnaphuli, the largest and most important river in Chittagong and the Chittagong Hill Tracts. It is a 667 meters wide river in the south-eastern part of Bangladesh. Originating from the Lushai hills in Mizoram, India, it flows 270 km southwest through Chittagong Hill Tracts and Chittagong into the Bay of Bengal.

There are three bars in the river, one at the mouth of Karnaphuli River called the outer bar, second the inner bar at 2.26 km from the outer bar and third is the Gupta bar at 8.58 km from the outer bar. The least depth at outer bar is 5.3 meters (approx) from the chart datum (CD) i.e. from Indian Spring Low Water Level (ISLWL). The Least depth at the inner and Gupta bar are 7.2 meters, 6.9 meters respectively from Indian Spring Low Water Level (ISLWL).

Anchorage Area

The anchorage is divided into three areas 'A' 'B' & 'C'.

- Anchorage "A" is formed by extending 2 (Two) lines up to port limit, one (1st) having bearing $337^{\circ}45'$ and the other (2nd) $310^{\circ}30'$ from the point having lat $22^{\circ}12'30''$ N and long $91^{\circ}47'00''$ E.
- Anchorage "B" is formed in between 4th and 5th line having bearing 234° extended up to port limit from the previous point.
- Anchorage "C" is between 4th and 5th line having bearing $23^{\circ}40'$ & 157° respectively, extended up to Port limit from a point of lat $22^{\circ}12'00''$ N and long $91^{\circ}47'12''$ E.

The space between 3rd and 4th lines is prohibited anchorage.

- “A” Anchorage is for vessels over 9.2 m draught.
- “B” Anchorage is for vessels entering the port within 24 hours.
- “C” Anchorage is for vessels lightering and other vessels not scheduled to enter the port within 24 hours.

The holding ground at the anchorage is soft mud which is considered poor holding ground. Due to very strong current of up to 6 knots dragging of anchor by vessels is common at Chittagong outer anchorage. There is no limit imposed by Chittagong Port Authority in terms of number of vessels that can anchor within the limited area or the maximum draft of vessels that may be allowed. To improve the safety at Chittagong outer anchorage the port authority may need to consider imposing certain controls relating to maximum draft and number of vessels in the anchorage.

Important Telephone Number

- | | |
|-----------------------------|-----------------|
| • Chairman | +88 031 2510870 |
| • Member (Admin & Planning) | +88 031 2526004 |
| • Member (Finance) | +88 031 2510871 |
| • Member (Engineering) | +88 031 2510872 |
| • Member (Harbour & Marine) | +88 031 2510873 |
| • Deputy Conservator | +88 031 2510842 |
| • Director (Security) | +88 031 2510884 |
| • Chief Hydrographer | +88 031 2510840 |
| • Secretary | +88 031 2510869 |
| • Chief Medical Officer | +88 031 2510876 |

CHITTAGONG PORT AUTHORITY

HYDROGRAPHIC SERVICE

With a statutory responsibility to survey within port limit, CPA has the most sophisticated in-house survey capability. Take advantage of a service that offers:

- **Value-** low mobilization or weather downtime costs.
- **Experience-** time served surveyors and local crews.
- **Quality-** purpose built craft and latest equipment, including side scan sonar.
- **Response-** most surveys completed within a week of receiving instruction.



Digital Hydrographic Survey

Services include Bathymetric charting, dredging & dredging monitoring, volume computations, sampling and analysis, wreck detection & measurement of sound velocity including current observation in the port limit area.

Hydrographic Department

Chititagong Port Authority has its own Hydrographic Department comprising 07 in number survey vessels, one trailing suction hopper dredger (Capacity-2500 cum) and 298 manpower's. The department has in-house specialist in hydrographic, oceanographic, cartographic and GIS.

Department is headed by Chief Hydrographer including 2 Senior Hydrographer and 3 other Hydrographers in different disciplines. With the modern equipments the department maintains IHO (SP-44) standard survey. The main responsibilities of this department are:

- To carryout bathymetric survey and production of bathymetric data sheet for onward distribution to the pilots for safe navigation in the channel. Apprise the management about the up-to-date information to its entire port limits.

- To identify wrecks/underwater obstructions in the channel and apprise the same to the concerns.
- To identify sound velocity and current information within port limit area.
- Carryout capital and maintenance dredging in the port limit area to maintain the safe depth for navigation. Provide support to all stakeholders (various companies) at both bank of the river.
- Maintain, collect, preserve & analysis of tidal data from five tide gauges. Prediction and publish pocket Tide Tables for the users. Assist national agencies/organizations with relevant data for analysis or research purpose with the approval of competent Authority.

Information about navigation and hydrographic matters can be found of the CPA website at www.cpa.gov.bd

Trailing suction hopper dredger-MD KHANAK

CPA has its own dredger to maintain the channel depth as per the requirement. MD KHANAK is one of the largest dredger in Bangladesh. Dredger is also deployed to other places for dredging activities as per the requirement of the country. Dredger is controlled by hydrographic department.



General Properties

IMO number: 8900206

Call Sign: S2TB

Vessel type: TSHD

Flag: BD

Owner: CPA

Manager: CPA

Built in: 1991

Width: 16.5 m

Depth: 6.75 M

Draft (loaded): 5.5 M

Numbr of engines: 2

Engine specs: Wartsila-8L26L-4Str-8cyl-26.00x32.00-850 rpm

Speed (loaded): 12 knts

Total power: 3220 kW

Hopper volume: 2500 m³

Dredging depth: 15 m

Sucition pipe diameter: 0.55 m

Number of dredging pipes: 2

Physical Properties

Length (OA): 83.5 m

Length (BP): 80 m

Shah Amanat Bridge

Shah Amanat Bridge It is the first cable-stayed type bridge over the Karnaphuli river in the country. The length of the four-lane bridge is 950 m and its breadth is 24.40 m. The clearance of which is 16.10 m from high water level. It was constructed during the year 2006-2010 to enhance the connectivity of commercial capital Chittagong to south Chittagong as well as Cox'sbazar, the tourism city of Bangladesh.



Kalurghat Bridge

An old bridge, once the only link between the southern region of Chittagong division on the bank of the river Karnaphuli with the rest of the country. This 239 m long bridge was installed as a simple rail bridge of steel structure between Janalihat and Gomdandi railway stations in 1930. The bridge was commissioned for operation of trains in Chittagong-Dohazari section in the year 1931. Thirty-one years after its inauguration, considering the suffering of the people it was modified with decking and carpeting and turned into a rail and road-bridge in 1962. The clearance of which is 5.19 m from high water level.



IMPORTANT NOTES

The chart datum of Karnaphuli River at Sadarghat is 6.56 m below the Bench Mark 'A' in front of old CPA Building at Sadarghat.

The prediction has been Predicted from the Geo Tide 3.0.22 software. This book is meant for departmental use & not for sale.

The total predicted depth in the channel is the sum of the charted depth & the height of tide.

The predictions in this booklet do not include exceptional changes due to meteorological disturbances.

All communications relating to this publication should be made to the

Chief Hydrographer

Hydrography Department

Chittagong Port Authority

Annex Building (3rd Floor)

Bandar Bhaban

Chittagong, Bangladesh

Phone : +88 (031) 2510840

E-mail : ch@cpa.gov.bd

PHASES OF THE MOON 2021

(DAY: HOUR: MINUTE)

MONTH	NEW MOON	FULL MOON
January	13:11:00	29:01:16
February	12:01:06	27:14:17
March	13:16:21	29:00:48
April	12:08:31	27:09:31
May	12:01:00	26:17:14
June	10:16:53	25:00:40
July	10:07:17	24:08:37
August	08:19:50	22:18:02
September	07:06:52	21:05:55
October	06:17:05	20:20:57
November	05:03:15	19:14:58
December	04:13:43	19:10:36

LIST OF CPA TIDE GAUGE STATION

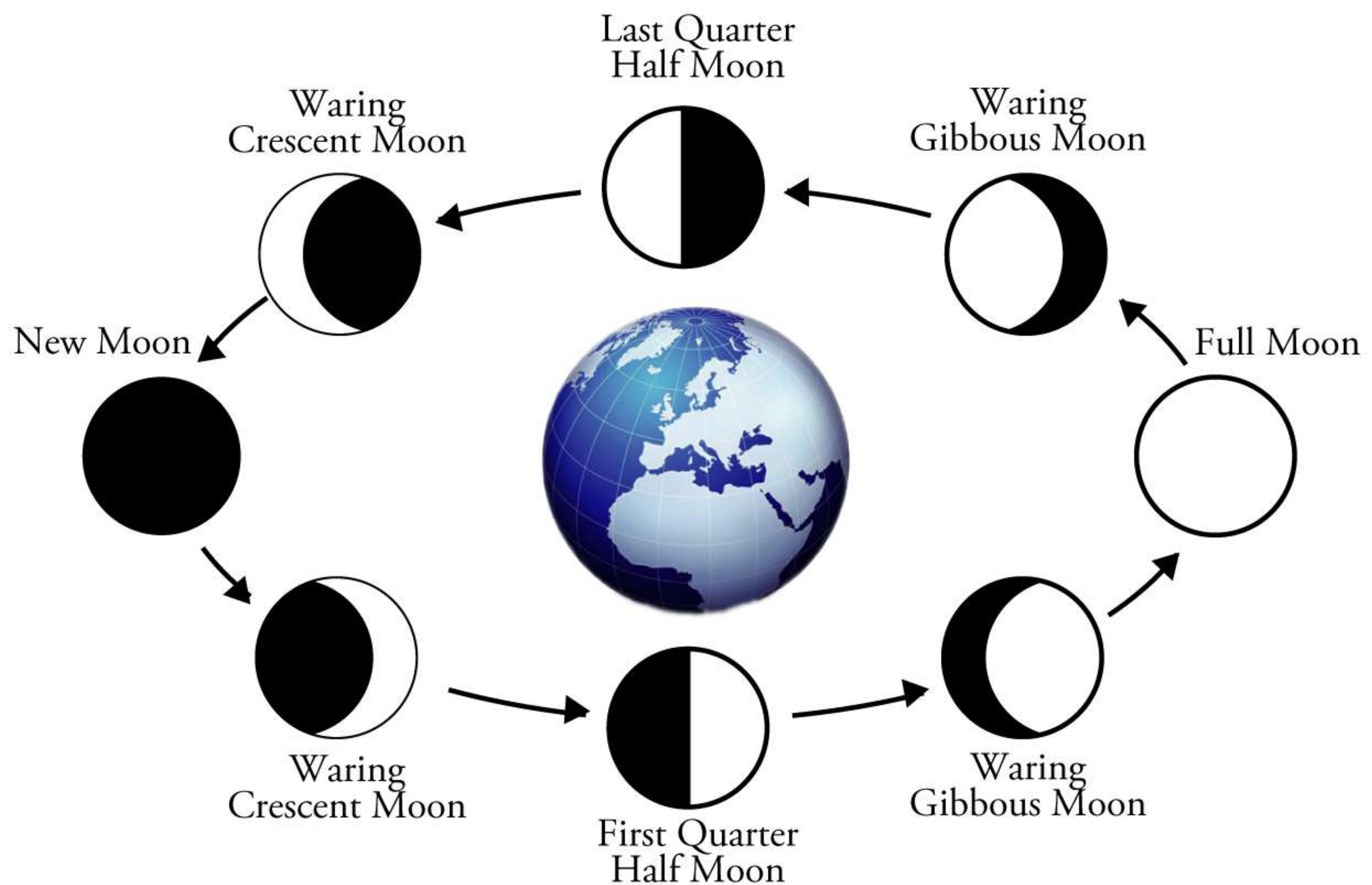
SL	TIDE GAUGE STATION (AUTO)	POSITION(AP.)
01	KHAL NO- 18	Lat:22°13'33"N Long:91°48'18"E
02	KHAL NO- 10	Lat:22°16'1.5"N Long:91°49'27"E
03	KALURGHAT	Lat:22°23'51"N Long:91°53'17"E
04	KAPTAI	Lat:22°29'37.5"N Long:92°11'34.5"E
05	SADARGHAT	Lat:22°19'27"N Long:91°50'0.5"E
06	DOCK OFFICE	Lat:22°18'06.8"N Long:91°47'47.7"E

PHASES OF THE MOON 2021

(DAY: HOUR: MINUTE)

MONTH	FIRST QTR.	LAST QTR.
JANUARY	21:03:02	06:15:37
FEBRUARY	20:00:47	04:23:37
MARCH	21:20:40	06:07:30
APRIL	20:12:59	04:16:02
MAY	20:01:13	04:01:50
JUNE	18:09:54	02:13:24
JULY	17:16:11	02:03:11
		31:19:16
AUGUST	15:21:20	30:13:13
SEPTEMBER	14:02:39	29:07:57
OCTOBER	13:09:25	29:02:05
NOVEMBER	11:18:46	27:18:28
DECEMBER	11:07:36	27:08:24

PHASES OF THE MOON



HIGHEST & LOWEST TIDE OF 2020
IN SELECTED TIDE STATION

KALURGHAT AUTO TIDE STATION

HIGHEST			LOWEST			
Ht(m).	Time	Date	Ht(m).	Time	Date	
4.95	14:15	20/08/20	-0.75	20:30	09/02/20	

SADARGHAT AUTO TIDE STATION

HIGHEST			LOWEST			
Ht(m).	Time	Date	Ht(m).	Time	Date	
5.45	13:30	20/08/20	-0.35	20:15	09/02/20	

KHAL NO-10 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.75	14:10	21/08/20	-0.20	09:10	12/03/20

KHAL NO-18 AUTO TIDE STATION

HIGHEST			LOWEST			
Ht(m).	Time	Date	Ht(m).	Time	Date	
6.40	13:20	21/08/20	-0.17	07:20	08/02/20	

MAX CURRENT VELOCITY OPPOSITE

KHAL NO-10 IS AS UNDER

Spring tides (S.W Monsoon) 4.5 to 5.5 kn

Neap tides (S.W Monsoon) 2.5 to 3.5 kn

Spring tides (Winter Months) upto 3 kn

Neap tides (Winter Months) upto 2 kn

Freshet Ebbs upto 8 knots

TIDAL RANGES

The tides are semi diurnal with prominent diurnal effect

At Patenga Khal no-18	1.5m - 5.5m
At Khal no-10	1.5m - 4.8m
At Sadarghat	1.2m - 4.2m
At Kalurghat	1.0m - 4.1m

01 | JANUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0251	3.40	0228	3.67	0156	4.06	0139	4.26	1 FR
	0954	-0.02	0917	0.19	0847	0.34	0825	0.55	
	1515	2.95	1445	3.27	1420	3.54	1401	3.82	
	2146	-0.12	2117	0.14	2043	0.28	2028	0.57	
2 SA	0332	3.36	0305	3.65	0234	4.02	0215	4.24	2 SA
	1033	-0.02	0954	0.19	0926	0.33	0904	0.55	
	1558	2.90	1525	3.23	1459	3.50	1439	3.78	
	2228	-0.06	2159	0.18	2125	0.35	2108	0.63	
3 SU	0414	3.27	0346	3.60	0314	3.93	0254	4.18	3 SU
	1112	-0.03	1033	0.20	1005	0.34	0942	0.57	
	1641	2.83	1608	3.19	1542	3.45	1521	3.73	
	2311	0.02	2243	0.24	2208	0.45	2149	0.70	
4 MO	0457	3.15	0429	3.52	0357	3.83	0335	4.09	4 MO
	1153	-0.05	1113	0.19	1046	0.34	1022	0.59	
	1726	2.79	1654	3.17	1627	3.43	1607	3.69	
	2358	0.10	2330	0.28	2253	0.56	2233	0.78	
5 TU	0541	3.03	0515	3.42	0443	3.70	0422	3.98	5 TU
	1239	-0.08	1158	0.19	1131	0.34	1107	0.61	
	1815	2.79	1746	3.18	1721	3.42	1702	3.68	
					2347	0.67	2326	0.86	
6 WE	0052	0.17	0022	0.32	0537	3.54	0519	3.82	6 WE
	0632	2.89	0607	3.28	1225	0.37	1201	0.65	
	1332	-0.11	1249	0.20	1838	3.43	1813	3.69	
	1916	2.81	1853	3.19					
7 TH	0201	0.23	0125	0.36	0059	0.76	0032	0.94	7 TH
	0735	2.73	0715	3.12	0655	3.35	0634	3.64	
	1436	-0.11	1353	0.24	1332	0.41	1307	0.71	
	2046	2.88	2016	3.26	2000	3.53	1934	3.77	
8 FR	0323	0.21	0242	0.38	0220	0.75	0152	0.96	8 FR
	0903	2.60	0838	2.99	0817	3.24	0755	3.53	
	1547	-0.12	1508	0.25	1443	0.43	1420	0.73	
	2202	3.01	2130	3.38	2108	3.66	2045	3.90	

01 | JANUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0442	0.13	0400	0.34	0336	0.67	0311	0.88	9 SA
	1021	2.56	0956	2.96	0929	3.19	0910	3.49	
	1656	-0.14	1620	0.21	1552	0.42	1531	0.70	
	2308	3.15	2236	3.50	2211	3.79	2153	4.04	
10 SU	0559	0.03	0516	0.26	0453	0.55	0426	0.75	10 SU
	1132	2.60	1108	3.02	1039	3.23	1023	3.56	
	1802	-0.16	1727	0.15	1659	0.37	1638	0.64	
			2335	3.60	2307	3.91	2251	4.19	
11 MO	0006	3.26	0623	0.17	0556	0.40	0531	0.59	11 MO
	0705	-0.08	1208	3.12	1141	3.34	1121	3.68	
	1233	2.70	1826	0.09	1758	0.29	1738	0.54	
	1900	-0.20			2357	4.01	2340	4.32	
12 TU	0054	3.35	0025	3.68	0649	0.30	0624	0.46	12 TU
	0758	-0.14	0718	0.10	1231	3.46	1208	3.80	
	1322	2.81	1256	3.21	1848	0.22	1830	0.44	
	1951	-0.22	1918	0.05					
13 WE ●	0136	3.41	0110	3.73	0041	4.09	0023	4.41	13 WE ●
	0845	-0.15	0805	0.08	0735	0.23	0710	0.38	
	1404	2.90	1339	3.28	1314	3.55	1250	3.89	
	2036	-0.21	2005	0.05	1934	0.19	1916	0.38	
14 TH	0215	3.43	0152	3.75	0122	4.11	0104	4.44	14 TH
	0927	-0.13	0847	0.09	0817	0.22	0752	0.36	
	1444	2.95	1420	3.30	1355	3.58	1331	3.93	
	2118	-0.16	2049	0.08	2016	0.22	1959	0.40	
15 FR	0254	3.41	0234	3.73	0203	4.08	0144	4.42	15 FR
	1006	-0.09	0926	0.11	0857	0.24	0832	0.37	
	1524	2.95	1500	3.28	1434	3.57	1411	3.92	
	2158	-0.07	2130	0.15	2055	0.30	2039	0.47	
16 SA	0333	3.34	0316	3.68	0242	4.00	0223	4.34	16 SA
	1042	-0.06	1002	0.15	0932	0.27	0909	0.41	
	1602	2.93	1540	3.25	1512	3.53	1450	3.87	
	2236	0.03	2208	0.21	2130	0.40	2116	0.58	

01 | JANUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0411	3.25	0355	3.60	0320	3.90	0300	4.23	17 SU
	1115	-0.05	1034	0.16	1004	0.30	0943	0.46	
	1639	2.89	1618	3.22	1550	3.49	1528	3.82	
	2310	0.10	2243	0.26	2203	0.49	2150	0.68	
18 MO	0449	3.14	0433	3.51	0358	3.77	0338	4.09	18 MO
	1144	-0.07	1106	0.16	1034	0.31	1015	0.51	
	1716	2.85	1656	3.19	1630	3.45	1608	3.76	
	2343	0.15	2318	0.30	2238	0.59	2223	0.79	
19 TU	0527	2.98	0511	3.37	0439	3.61	0419	3.92	19 TU
	1214	-0.08	1138	0.18	1106	0.36	1048	0.61	
	1756	2.79	1737	3.15	1714	3.39	1652	3.69	
			2356	0.36	2317	0.72	2301	0.93	
20 WE	0018	0.21	0553	3.16	0525	3.39	0504	3.69	20 WE
	0608	2.75	1214	0.26	1142	0.48	1126	0.77	
	1245	-0.05	1826	3.06	1808	3.29	1744	3.58	
	1844	2.68					2347	1.12	
21 TH	0101	0.32	0041	0.48	0006	0.91	0600	3.40	21 TH
	0656	2.48	0641	2.89	0620	3.11	1214	0.98	
	1325	0.05	1259	0.42	1228	0.68	1847	3.47	
	1953	2.57	1927	2.95	1911	3.19			
22 FR	0209	0.45	0146	0.63	0135	1.06	0104	1.31	22 FR
	0807	2.20	0743	2.61	0724	2.85	0708	3.14	
	1423	0.20	1408	0.59	1348	0.87	1330	1.17	
	2114	2.54	2039	2.89	2022	3.16	1957	3.42	
23 SA	0352	0.43	0310	0.68	0249	1.06	0228	1.36	23 SA
	0933	2.06	0900	2.43	0837	2.68	0823	2.98	
	1607	0.23	1534	0.64	1504	0.92	1448	1.23	
	2226	2.63	2155	2.94	2136	3.23	2114	3.48	
24 SU	0505	0.27	0425	0.60	0402	0.95	0345	1.25	24 SU
	1053	2.09	1030	2.46	1007	2.70	0954	3.02	
	1716	0.14	1643	0.55	1611	0.85	1556	1.15	
	2329	2.80	2303	3.09	2240	3.41	2226	3.67	

01 | JANUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0615	0.08	0537	0.45	0519	0.74	0501	1.05	25 MO
	1202	2.26	1139	2.65	1115	2.87	1059	3.20	
	1814	0.02	1742	0.41	1713	0.71	1657	1.01	
			2355	3.26	2330	3.59	2315	3.86	
26 TU	0020	2.96	0632	0.30	0607	0.56	0547	0.86	26 TU
	0709	-0.06	1224	2.85	1200	3.06	1140	3.38	
	1249	2.44	1830	0.29	1801	0.56	1744	0.85	
	1902	-0.05					2351	4.01	
27 WE	0058	3.08	0036	3.40	0007	3.74	0624	0.71	27 WE
	0751	-0.10	0714	0.22	0646	0.43	1211	3.54	
	1323	2.59	1259	3.01	1233	3.23	1824	0.69	
	1942	-0.09	1911	0.20	1841	0.42			
28 TH	0131	3.18	0110	3.51	0038	3.86	0021	4.14	28 TH
	0830	-0.10	0752	0.16	0722	0.34	0659	0.58	
	1353	2.75	1329	3.14	1302	3.39	1241	3.70	
	2020	-0.12	1950	0.13	1919	0.29	1901	0.55	
29 FR	0202	3.29	0141	3.60	0108	3.97	0051	4.26	29 FR
	0907	-0.09	0828	0.12	0759	0.25	0735	0.46	
	1425	2.89	1359	3.25	1332	3.53	1312	3.85	
	○ 2059	-0.14	2029	0.08	1958	0.20	1940	0.44	○
30 SA	0236	3.37	0214	3.68	0141	4.03	0123	4.36	30 SA
	0944	-0.10	0905	0.08	0836	0.18	0812	0.36	
	1501	2.99	1432	3.32	1405	3.61	1345	3.94	
	2140	-0.13	2110	0.06	2038	0.17	2019	0.40	
31 SU	0314	3.38	0249	3.70	0217	4.03	0158	4.39	31 SU
	1021	-0.10	0941	0.05	0913	0.14	0849	0.31	
	1540	3.02	1509	3.35	1441	3.64	1422	3.97	
	2221	-0.09	2150	0.08	2118	0.20	2057	0.41	

02 | FEBRUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0353	3.31	0328	3.67	0255	3.97	0234	4.35	1 MO
	1057	-0.12	1017	0.04	0949	0.12	0925	0.29	
	1619	3.02	1548	3.35	1520	3.65	1500	3.97	
	2302	-0.03	2231	0.11	2158	0.25	2136	0.44	
2 TU	0434	3.21	0408	3.60	0335	3.88	0313	4.26	2 TU
	1133	-0.15	1053	0.02	1025	0.11	1001	0.28	
	1659	3.01	1630	3.37	1602	3.65	1542	3.96	
	2345	0.01	2313	0.12	2239	0.32	2216	0.50	
3 WE	0515	3.08	0451	3.49	0419	3.75	0356	4.12	3 WE
	1212	-0.20	1132	0.01	1104	0.11	1040	0.31	
	1743	3.00	1717	3.37	1649	3.64	1630	3.93	
			2359	0.16	2325	0.42	2301	0.60	
4 TH	0032	0.05	0539	3.32	0508	3.56	0447	3.89	4 TH
	0602	2.91	1217	0.04	1149	0.19	1126	0.42	
	1258	-0.21	1815	3.32	1748	3.56	1730	3.85	
	1835	2.94							
5 FR	0133	0.13	0055	0.25	0027	0.58	0000	0.78	5 FR
	0659	2.66	0641	3.07	0614	3.27	0554	3.58	
	1357	-0.13	1315	0.17	1250	0.38	1227	0.63	
	1956	2.82	1937	3.23	1922	3.46	1853	3.74	
6 SA	0253	0.20	0210	0.37	0151	0.71	0121	0.96	6 SA
	0829	2.39	0808	2.80	0748	3.00	0725	3.29	
	1513	-0.03	1434	0.33	1412	0.55	1347	0.85	
	2138	2.82	2104	3.19	2043	3.44	2019	3.70	
7 SU	0422	0.18	0340	0.42	0320	0.73	0256	0.99	7 SU
	1006	2.28	0943	2.68	0916	2.88	0859	3.17	
	1635	0.00	1601	0.37	1536	0.61	1516	0.92	
	2256	2.91	2225	3.25	2201	3.51	2144	3.78	
8 MO	0600	0.02	0516	0.31	0455	0.56	0431	0.83	8 MO
	1138	2.35	1114	2.79	1054	2.98	1032	3.29	
	1757	-0.05	1725	0.29	1700	0.53	1640	0.83	
			2334	3.38	2311	3.66	2254	3.96	

02 | FEBRUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0001	3.05	0627	0.12	0559	0.35	0537	0.60	9 TU
	0707	-0.19	1217	2.98	1157	3.19	1133	3.50	
	1242	2.54	1830	0.16	1800	0.38	1743	0.65	
	1903	-0.13					2343	4.14	
10 WE	0051	3.17	0027	3.51	0002	3.81	0624	0.43	10 WE
	0757	-0.28	0718	0.00	0647	0.20	1214	3.68	
	1326	2.71	1302	3.14	1240	3.36	1830	0.48	
	1952	-0.18	1920	0.07	1848	0.26			
11 TH	0130	3.26	0109	3.60	0041	3.93	0020	4.28	11 TH
	0838	-0.28	0759	-0.03	0728	0.13	0704	0.33	
	1401	2.85	1338	3.25	1314	3.50	1247	3.83	
	2033	-0.18	2001	0.04	1929	0.19	1910	0.39	
12 FR	0203	3.33	0145	3.67	0114	4.00	0053	4.37	12 FR
	0915	-0.22	0835	-0.01	0804	0.11	0739	0.29	
	1433	2.96	1410	3.33	1344	3.60	1319	3.94	
	2109	-0.15	2038	0.04	2006	0.18	1947	0.36	
13 SA	0237	3.37	0220	3.72	0147	4.02	0126	4.40	13 SA
	0946	-0.16	0907	0.02	0837	0.13	0812	0.28	
	1504	3.03	1442	3.38	1414	3.66	1351	4.00	
	2142	-0.10	2112	0.08	2038	0.22	2020	0.40	
14 SU	0311	3.35	0254	3.71	0220	3.98	0159	4.38	14 SU
	1014	-0.12	0935	0.04	0905	0.16	0842	0.29	
	1535	3.07	1514	3.39	1443	3.68	1422	4.02	
	2214	-0.05	2143	0.12	2108	0.26	2051	0.45	
15 MO	0346	3.29	0328	3.67	0252	3.91	0231	4.31	15 MO
	1040	-0.13	1001	0.04	0929	0.16	0909	0.30	
	1607	3.07	1545	3.39	1513	3.68	1454	4.01	
	2245	-0.02	2213	0.13	2136	0.30	2118	0.50	
16 TU	0419	3.19	0401	3.58	0325	3.82	0303	4.20	16 TU
	1106	-0.17	1028	0.01	0955	0.14	0935	0.32	
	1639	3.06	1617	3.38	1545	3.67	1526	3.99	
	2316	-0.02	2242	0.13	2206	0.33	2146	0.54	

02 | FEBRUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0452	3.05	0433	3.46	0359	3.69	0336	4.05	17 WE
	1133	-0.21	1056	0.00	1023	0.16	1003	0.37	
	1713	3.01	1650	3.35	1620	3.62	1600	3.94	
	2347	0.00	2314	0.15	2239	0.41	2217	0.63	
18 TH	0526	2.85	0507	3.28	0435	3.50	0412	3.84	18 TH
	1201	-0.22	1126	0.05	1052	0.25	1032	0.50	
	1749	2.90	1726	3.27	1657	3.52	1638	3.83	
			2350	0.24	2315	0.57	2252	0.82	
19 FR	0022	0.06	0544	3.02	0515	3.23	0451	3.55	19 FR
	0605	2.59	1200	0.19	1126	0.44	1106	0.73	
	1233	-0.15	1810	3.10	1743	3.33	1724	3.63	
	1831	2.72					2337	1.11	
20 SA	0105	0.21	0034	0.43	0000	0.81	0543	3.18	20 SA
	0653	2.27	0631	2.69	0605	2.89	1151	1.06	
	1314	0.03	1243	0.44	1209	0.73	1834	3.39	
	1934	2.49	1914	2.88	1856	3.10			
21 SU	0215	0.40	0141	0.67	0136	1.08	0057	1.42	21 SU
	0805	1.95	0744	2.36	0727	2.56	0713	2.85	
	1413	0.28	1352	0.73	1317	1.06	1305	1.39	
	2128	2.40	2050	2.75	2033	3.00	2009	3.28	
22 MO	0416	0.38	0333	0.74	0313	1.07	0255	1.45	22 MO
	1003	1.88	0932	2.26	0915	2.46	0856	2.77	
	1633	0.36	1557	0.77	1532	1.10	1512	1.44	
	2256	2.57	2224	2.87	2203	3.16	2145	3.42	
23 TU	0540	0.16	0502	0.58	0444	0.87	0429	1.22	23 TU
	1140	2.12	1112	2.50	1052	2.72	1034	3.03	
	1751	0.17	1715	0.59	1651	0.90	1632	1.23	
	2356	2.84	2329	3.12	2305	3.43	2251	3.72	
24 WE	0644	-0.06	0609	0.36	0544	0.59	0526	0.92	24 WE
	1232	2.43	1204	2.83	1142	3.04	1121	3.36	
	1847	0.00	1812	0.38	1745	0.64	1728	0.95	
					2347	3.69	2331	4.00	

02 | FEBRUARY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0040	3.06	0015	3.36	0625	0.38	0605	0.67	25 TH
	0730	-0.17	0654	0.19	1216	3.32	1153	3.66	
	1308	2.69	1241	3.09	1828	0.42	1809	0.69	
	1931	-0.09	1857	0.22					
26 FR	0114	3.23	0050	3.55	0020	3.89	0002	4.23	26 FR
	0810	-0.19	0732	0.10	0702	0.22	0639	0.46	
	1339	2.90	1312	3.29	1244	3.56	1222	3.92	
	2012	-0.13	1938	0.11	1907	0.24	1847	0.46	
27 SA	0146	3.36	0122	3.70	0049	4.05	0031	4.43	27 SA
	0848	-0.18	0808	0.03	0738	0.11	0714	0.28	
	1409	3.09	1341	3.46	1312	3.77	1252	4.14	
	○ 2052	-0.14	2017	0.03	1946	0.12	1925	0.30 ○	
28 SU	0218	3.47	0153	3.81	0121	4.15	0103	4.58	28 SU
	0925	-0.17	0844	-0.02	0814	0.02	0750	0.15	
	1441	3.24	1412	3.58	1343	3.91	1325	4.29	
	2133	-0.13	2057	0.00	2025	0.06	2003	0.21	

03 | MARCH | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0253	3.50	0228	3.86	0155	4.17	0137	4.63	1 MO
	1002	-0.18	0920	-0.06	0850	-0.03	0826	0.07	
	1517	3.33	1446	3.66	1418	4.00	1400	4.37	
	2214	-0.11	2137	-0.01	2104	0.05	2041	0.20	
2 TU	0331	3.46	0306	3.85	0233	4.12	0213	4.60	2 TU
	1037	-0.19	0955	-0.08	0926	-0.06	0901	0.04	
	1555	3.36	1525	3.69	1456	4.03	1438	4.39	
	2254	-0.08	2216	0.00	2144	0.08	2119	0.22	
3 WE	0412	3.36	0346	3.77	0314	4.03	0252	4.48	3 WE
	1112	-0.23	1031	-0.10	1001	-0.06	0937	0.05	
	1635	3.35	1607	3.69	1537	4.03	1519	4.36	
	2334	-0.07	2256	0.02	2223	0.13	2158	0.29	
4 TH	0454	3.22	0430	3.64	0358	3.88	0336	4.29	4 TH
	1149	-0.27	1109	-0.10	1038	-0.02	1015	0.13	
	1719	3.30	1653	3.65	1623	3.97	1606	4.28	
			2340	0.07	2307	0.25	2242	0.43	
5 FR	0019	-0.04	0519	3.42	0448	3.64	0427	3.99	5 FR
	0542	3.00	1153	-0.01	1122	0.14	1100	0.34	
	1232	-0.24	1750	3.51	1720	3.79	1703	4.09	
	1811	3.14					2338	0.69	
6 SA	0115	0.06	0033	0.21	0005	0.47	0533	3.59	6 SA
	0641	2.68	0621	3.09	0555	3.29	1159	0.70	
	1329	-0.08	1249	0.22	1220	0.45	1824	3.82	
	1932	2.89	1911	3.29	1853	3.53			
7 SU	0232	0.17	0147	0.42	0129	0.70	0100	0.99	7 SU
	0818	2.35	0753	2.75	0732	2.95	0711	3.22	
	1449	0.11	1411	0.49	1350	0.75	1326	1.05	
	2120	2.79	2046	3.15	2023	3.39	2002	3.65	
8 MO	0414	0.18	0331	0.51	0319	0.75	0255	1.05	8 MO
	1005	2.25	0943	2.65	0924	2.85	0905	3.13	
	1629	0.17	1557	0.56	1537	0.81	1517	1.13	
	2245	2.86	2218	3.19	2158	3.44	2141	3.73	

03 | MARCH | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0558	-0.09	0518	0.31	0454	0.50	0434	0.80	9 TU
	1143	2.45	1118	2.88	1103	3.10	1044	3.40	
	1806	0.01	1731	0.38	1704	0.61	1647	0.91	
	2355	3.02	2331	3.36	2313	3.65	2256	3.97	
10 WE	0659	-0.33	0621	0.06	0551	0.24	0532	0.52	10 WE
	1240	2.71	1217	3.14	1157	3.37	1136	3.68	
	1905	-0.14	1830	0.18	1759	0.40	1742	0.65	
							2340	4.17	
11 TH	0044	3.17	0023	3.51	0000	3.82	0614	0.35	11 TH
	0744	-0.40	0706	-0.06	0634	0.11	1210	3.89	
	1320	2.89	1256	3.32	1233	3.56	1823	0.47	
	1948	-0.18	1914	0.08	1841	0.27			
12 FR	0119	3.27	0059	3.63	0032	3.94	0010	4.32	12 FR
	0821	-0.33	0742	-0.06	0710	0.07	0647	0.27	
	1349	3.04	1325	3.44	1259	3.71	1235	4.06	
	2024	-0.15	1950	0.05	1917	0.20	1857	0.37	
13 SA	0148	3.37	0129	3.73	0058	4.03	0037	4.43	13 SA
	0852	-0.23	0812	-0.03	0741	0.07	0717	0.23	
	1415	3.17	1351	3.55	1323	3.85	1300	4.21	
	2055	-0.11	2021	0.06	1949	0.17	1928	0.33	
14 SU	0217	3.44	0158	3.81	0126	4.09	0105	4.51	14 SU
	0918	-0.16	0839	-0.01	0808	0.08	0744	0.20	
	1440	3.28	1417	3.64	1347	3.95	1327	4.32	
	2123	-0.08	2050	0.08	2017	0.17	1957	0.33	
15 MO	0248	3.46	0229	3.84	0155	4.09	0135	4.52	15 MO
	0942	-0.15	0904	-0.01	0832	0.08	0810	0.18	
	1508	3.34	1445	3.67	1414	3.99	1355	4.35	
	2151	-0.06	2117	0.09	2044	0.19	2023	0.35	
16 TU	0320	3.41	0300	3.80	0225	4.03	0204	4.46	16 TU
	1006	-0.18	0929	-0.03	0855	0.07	0835	0.19	
	1538	3.35	1513	3.66	1442	3.99	1423	4.34	
	2221	-0.05	2145	0.09	2111	0.20	2049	0.38	

03 | MARCH | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0351	3.30	0330	3.71	0256	3.93	0234	4.35	17 WE
	1034	-0.20	0955	-0.05	0921	0.07	0901	0.21	
	1608	3.31	1543	3.64	1511	3.97	1451	4.30	
	2252	-0.06	2214	0.08	2140	0.22	2116	0.42	
18 TH	0422	3.15	0400	3.58	0327	3.80	0303	4.20	18 TH
	1101	-0.23	1023	-0.05	0948	0.10	0927	0.27	
	1639	3.24	1612	3.61	1542	3.92	1522	4.24	
	2324	-0.05	2244	0.09	2210	0.28	2146	0.50	
19 FR	0454	2.97	0430	3.42	0400	3.63	0335	4.01	19 FR
	1129	-0.23	1051	-0.01	1016	0.18	0955	0.40	
	1712	3.13	1645	3.53	1616	3.82	1556	4.13	
	2356	0.00	2317	0.16	2243	0.41	2218	0.66	
20 SA	0530	2.73	0504	3.20	0435	3.40	0412	3.74	20 SA
	1159	-0.17	1123	0.12	1048	0.36	1027	0.63	
	1751	2.96	1725	3.37	1656	3.63	1637	3.94	
			2356	0.33	2322	0.65	2257	0.94	
21 SU	0033	0.11	0548	2.90	0519	3.09	0458	3.40	21 SU
	0615	2.45	1202	0.37	1127	0.66	1107	0.98	
	1237	0.00	1817	3.13	1747	3.36	1730	3.66	
	1843	2.71					2356	1.31	
22 MO	0128	0.31	0050	0.60	0021	0.97	0607	3.03	22 MO
	0716	2.14	0649	2.57	0622	2.74	1209	1.39	
	1330	0.27	1300	0.71	1225	1.05	1902	3.41	
	2007	2.48	1939	2.88	1920	3.10			
23 TU	0316	0.44	0226	0.82	0223	1.13	0200	1.52	23 TU
	0902	1.98	0834	2.39	0824	2.57	0806	2.90	
	1508	0.52	1452	0.94	1437	1.28	1419	1.61	
	2208	2.56	2134	2.90	2116	3.17	2051	3.46	
24 WE	0455	0.28	0417	0.73	0400	0.95	0341	1.33	24 WE
	1103	2.24	1032	2.63	1015	2.86	0954	3.18	
	1716	0.37	1639	0.77	1619	1.06	1558	1.38	
	2321	2.86	2252	3.18	2229	3.47	2212	3.77	

03 | MARCH | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0606	0.05	0531	0.48	0508	0.65	0448	0.99	25 TH
	1201	2.64	1131	3.03	1109	3.27	1050	3.61	
	1820	0.14	1744	0.51	1719	0.74	1700	1.02	
			2343	3.47	2316	3.79	2259	4.12	
26 FR	0010	3.15	0622	0.27	0554	0.40	0533	0.68	26 FR
	0658	-0.10	1211	3.37	1146	3.63	1125	3.99	
	1240	2.97	1833	0.30	1804	0.48	1744	0.70	
	1909	0.00			2352	4.03	2334	4.41	
27 SA	0048	3.36	0021	3.70	0633	0.22	0610	0.42	27 SA
	0740	-0.14	0702	0.14	1216	3.92	1155	4.32	
	1313	3.22	1244	3.62	1845	0.28	1824	0.43	
	1953	-0.06	1916	0.17					
28 SU	0121	3.51	0055	3.88	0024	4.21	0005	4.65	28 SU
	0820	-0.14	0740	0.05	0710	0.08	0645	0.21	
	1344	3.43	1314	3.82	1245	4.16	1226	4.59	
	2036	-0.07	1957	0.09	1926	0.14	1903	0.24	
29 MO	0154	3.62	0128	4.00	0057	4.32	0039	4.82	29 MO
	0859	-0.14	0817	-0.01	0746	-0.02	0721	0.05	
	1417	3.60	1345	3.96	1317	4.34	1300	4.77	
	○ 2119	-0.07	2039	0.04	2006	0.06	1942	0.13	○
30 TU	0230	3.67	0204	4.06	0133	4.36	0115	4.88	30 TU
	0937	-0.16	0854	-0.06	0823	-0.07	0758	-0.04	
	1453	3.70	1421	4.05	1354	4.44	1338	4.87	
	2201	-0.06	2119	0.03	2047	0.03	2021	0.10	
31 WE	0310	3.64	0244	4.05	0213	4.31	0154	4.84	31 WE
	1014	-0.18	0932	-0.09	0901	-0.09	0836	-0.06	
	1532	3.73	1502	4.07	1434	4.47	1418	4.88	
	2242	-0.05	2200	0.04	2127	0.05	2101	0.11	

04 | APRIL | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0353	3.54	0327	3.96	0256	4.21	0236	4.71	1 TH
	1052	-0.21	1010	-0.09	0938	-0.07	0914	-0.01	
	1615	3.70	1547	4.04	1518	4.43	1500	4.81	
	2324	-0.05	2241	0.06	2209	0.10	2142	0.19	
2 FR	0439	3.38	0414	3.80	0343	4.04	0322	4.49	2 FR
	1131	-0.20	1050	-0.04	1018	0.03	0955	0.14	
	1702	3.60	1636	3.94	1607	4.31	1548	4.66	
			2326	0.14	2254	0.23	2227	0.37	
3 SA	0009	-0.01	0507	3.55	0437	3.78	0415	4.17	3 SA
	0530	3.14	1136	0.12	1103	0.26	1041	0.44	
	1215	-0.11	1735	3.74	1706	4.06	1646	4.40	
	1758	3.38			2352	0.47	2323	0.67	
4 SU	0105	0.08	0019	0.30	0550	3.43	0523	3.76	4 SU
	0634	2.81	0613	3.22	1203	0.63	1141	0.87	
	1312	0.10	1234	0.40	1833	3.75	1804	4.05	
	1921	3.09	1855	3.48					
5 MO	0218	0.20	0132	0.51	0114	0.71	0045	1.00	5 MO
	0810	2.52	0743	2.92	0721	3.13	0701	3.41	
	1435	0.33	1358	0.69	1337	0.96	1315	1.24	
	2057	2.93	2027	3.28	2001	3.54	1941	3.81	
6 TU	0359	0.20	0316	0.61	0302	0.77	0236	1.10	6 TU
	1000	2.48	0935	2.89	0923	3.11	0858	3.39	
	1625	0.35	1549	0.74	1528	0.99	1507	1.28	
	2225	2.95	2201	3.30	2143	3.56	2122	3.84	
7 WE	0537	-0.04	0458	0.42	0434	0.55	0413	0.88	7 WE
	1130	2.75	1103	3.15	1047	3.41	1029	3.71	
	1754	0.14	1719	0.52	1652	0.75	1633	1.02	
	2338	3.10	2315	3.46	2256	3.74	2238	4.06	
8 TH	0635	-0.24	0559	0.20	0529	0.34	0509	0.63	8 TH
	1223	3.02	1158	3.42	1137	3.68	1117	4.01	
	1849	-0.02	1815	0.32	1743	0.54	1724	0.76	
					2341	3.89	2320	4.25	

04 | APRIL | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0026	3.24	0004	3.60	0609	0.24	0548	0.49	9 FR
	0719	-0.26	0641	0.11	1209	3.86	1146	4.23	
	1259	3.20	1235	3.60	1822	0.41	1803	0.59	
	1931	-0.04	1855	0.23			2347	4.39	
10 SA	0059	3.34	0038	3.72	0009	4.01	0619	0.41	10 SA
	0753	-0.16	0714	0.11	0641	0.22	1208	4.41	
	1327	3.33	1300	3.73	1231	4.02	1834	0.49	
	2005	0.01	1929	0.21	1855	0.33			
11 SU	0126	3.45	0105	3.84	0034	4.12	0012	4.52	11 SU
	0821	-0.06	0742	0.12	0709	0.20	0645	0.34	
	1350	3.46	1322	3.86	1253	4.19	1231	4.59	
	2034	0.05	1958	0.21	1925	0.28	1903	0.42	
12 MO	0154	3.54	0132	3.94	0100	4.21	0040	4.62	12 MO
	0844	-0.03	0806	0.10	0733	0.17	0710	0.26	
	1414	3.57	1347	3.96	1317	4.30	1258	4.69	
	2101	0.07	2025	0.21	1952	0.26	1929	0.39	
13 TU	0223	3.56	0202	3.98	0129	4.22	0109	4.65	13 TU
	0907	-0.05	0831	0.07	0757	0.14	0735	0.22	
	1440	3.62	1414	3.99	1344	4.34	1325	4.72	
	2128	0.08	2051	0.22	2019	0.27	1955	0.39	
14 WE	0254	3.52	0231	3.94	0159	4.17	0138	4.59	14 WE
	0935	-0.07	0858	0.06	0823	0.14	0801	0.23	
	1509	3.61	1442	3.97	1413	4.32	1352	4.68	
	2158	0.08	2119	0.22	2047	0.29	2022	0.42	
15 TH	0324	3.42	0301	3.84	0229	4.06	0206	4.49	15 TH
	1004	-0.07	0926	0.07	0851	0.17	0829	0.27	
	1540	3.56	1511	3.92	1442	4.27	1420	4.62	
	2230	0.09	2149	0.23	2117	0.32	2051	0.46	
16 FR	0355	3.28	0330	3.72	0300	3.94	0236	4.36	16 FR
	1034	-0.06	0955	0.10	0920	0.22	0858	0.36	
	1613	3.48	1541	3.87	1514	4.21	1451	4.55	
	2303	0.10	2220	0.25	2148	0.37	2122	0.53	

04 | APRIL | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0429	3.11	0401	3.58	0334	3.80	0309	4.19	17 SA
	1104	-0.04	1025	0.16	0950	0.31	0927	0.50	
	1647	3.37	1616	3.79	1549	4.12	1527	4.45	
	2337	0.14	2254	0.31	2222	0.48	2155	0.67	
18 SU	0507	2.92	0438	3.40	0412	3.61	0348	3.98	18 SU
	1135	0.02	1058	0.28	1022	0.48	1000	0.71	
	1727	3.23	1657	3.66	1631	3.97	1609	4.30	
			2333	0.44	2301	0.67	2234	0.90	
19 MO	0014	0.23	0523	3.18	0457	3.38	0435	3.72	19 MO
	0552	2.70	1139	0.49	1104	0.75	1042	1.03	
	1213	0.17	1749	3.46	1720	3.74	1701	4.06	
	1818	3.03			2358	0.92	2329	1.20	
20 TU	0108	0.37	0025	0.65	0556	3.12	0537	3.45	20 TU
	0651	2.49	0621	2.94	1202	1.09	1144	1.39	
	1307	0.41	1237	0.78	1828	3.50	1811	3.82	
	1926	2.84	1858	3.25					
21 WE	0232	0.48	0141	0.85	0130	1.09	0057	1.43	21 WE
	0817	2.38	0749	2.81	0737	3.00	0717	3.33	
	1433	0.63	1407	1.00	1341	1.31	1321	1.62	
	2107	2.81	2037	3.21	2019	3.46	1953	3.77	
22 TH	0402	0.40	0318	0.84	0303	0.99	0240	1.37	22 TH
	1006	2.59	0938	3.01	0921	3.26	0856	3.57	
	1627	0.57	1550	0.93	1528	1.17	1508	1.46	
	2232	3.03	2203	3.41	2139	3.69	2116	3.98	
23 FR	0516	0.23	0438	0.65	0416	0.76	0353	1.10	23 FR
	1117	2.98	1046	3.40	1023	3.67	1002	4.00	
	1742	0.36	1704	0.69	1638	0.88	1616	1.13	
	2330	3.30	2301	3.69	2235	3.97	2214	4.30	
24 SA	0615	0.09	0537	0.45	0510	0.52	0447	0.79	24 SA
	1204	3.33	1132	3.76	1106	4.04	1046	4.41	
	1839	0.21	1801	0.48	1731	0.62	1708	0.80	
			2345	3.91	2317	4.21	2257	4.59	

04 | APRIL | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0014	3.51	0624	0.29	0555	0.33	0530	0.51	25 SU
	0704	0.03	1209	4.03	1142	4.35	1121	4.77	
	1242	3.60	1849	0.34	1818	0.42	1754	0.52	
	1928	0.13			2355	4.39	2335	4.83	
26 MO	0053	3.66	0024	4.08	0636	0.19	0610	0.28	26 MO
	0748	0.01	0707	0.19	1216	4.60	1156	5.05	
	1317	3.80	1244	4.22	1902	0.28	1836	0.32	
	2015	0.11	1934	0.26					
27 TU	0130	3.77	0102	4.19	0032	4.50	0013	4.99	27 TU
	0830	-0.01	0748	0.12	0717	0.08	0650	0.12	
	1352	3.95	1319	4.36	1253	4.77	1234	5.23	
	○ 2100	0.11	2018	0.22	1945	0.19	1918	0.21	○
28 WE	0209	3.81	0142	4.24	0113	4.54	0053	5.06	28 WE
	0911	-0.02	0829	0.07	0757	0.02	0730	0.04	
	1431	4.03	1359	4.42	1333	4.86	1314	5.31	
	2145	0.11	2101	0.21	2028	0.15	2001	0.16	
29 TH	0252	3.79	0225	4.21	0156	4.50	0136	5.02	29 TH
	0953	-0.03	0910	0.06	0838	0.03	0811	0.06	
	1515	4.03	1443	4.41	1416	4.85	1358	5.28	
	2229	0.12	2145	0.23	2112	0.17	2043	0.19	
30 FR	0339	3.69	0312	4.11	0243	4.39	0222	4.89	30 FR
	1034	-0.02	0952	0.10	0919	0.09	0853	0.15	
	1602	3.97	1531	4.34	1503	4.77	1443	5.17	
	2314	0.13	2228	0.27	2157	0.23	2127	0.28	

05 | MAY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0428	3.53	0402	3.96	0333	4.22	0310	4.68	1 SA
	1117	0.04	1036	0.20	1002	0.24	0938	0.35	
	1652	3.85	1623	4.21	1554	4.61	1533	4.98	
			2315	0.35	2245	0.35	2214	0.46	
2 SU	0001	0.16	0457	3.74	0430	3.99	0404	4.39	2 SU
	0522	3.32	1124	0.38	1050	0.49	1026	0.66	
	1203	0.17	1723	4.01	1655	4.37	1631	4.70	
	1749	3.65			2342	0.54	2310	0.73	
3 MO	0055	0.22	0009	0.48	0540	3.73	0512	4.05	3 MO
	0629	3.07	0603	3.49	1150	0.84	1128	1.06	
	1301	0.38	1223	0.64	1812	4.08	1744	4.36	
	1903	3.39	1836	3.76					
4 TU	0202	0.29	0116	0.65	0055	0.73	0024	1.02	4 TU
	0753	2.87	0726	3.27	0702	3.51	0640	3.78	
	1421	0.58	1343	0.89	1318	1.12	1256	1.38	
	2026	3.19	1959	3.55	1931	3.83	1908	4.09	
5 WE	0321	0.31	0239	0.76	0216	0.84	0150	1.18	5 WE
	0929	2.86	0905	3.25	0846	3.49	0821	3.76	
	1553	0.60	1516	0.95	1448	1.19	1427	1.45	
	2147	3.12	2126	3.49	2100	3.75	2036	4.00	
6 TH	0450	0.24	0412	0.72	0349	0.80	0323	1.15	6 TH
	1058	3.08	1028	3.46	1008	3.72	0946	3.99	
	1720	0.46	1644	0.82	1619	1.04	1556	1.29	
	2303	3.20	2240	3.58	2216	3.83	2154	4.10	
7 FR	0555	0.14	0520	0.58	0450	0.67	0428	1.00	7 FR
	1151	3.32	1122	3.69	1058	3.96	1037	4.27	
	1820	0.32	1744	0.64	1714	0.84	1652	1.07	
	2355	3.31	2331	3.70	2304	3.95	2242	4.24	
8 SA	0640	0.13	0604	0.49	0532	0.59	0510	0.86	8 SA
	1228	3.49	1159	3.87	1131	4.15	1108	4.49	
	1903	0.27	1827	0.54	1754	0.69	1733	0.89	
					2336	4.07	2315	4.39	

05 | MAY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0030 0714 1256 1938	3.42 0.18 3.62 0.28	0006 0638 1226 1901	3.82 0.44 4.02 0.49	0604 1155 1827	0.53 4.33 0.58	0541 1134 1805 2343	0.75 4.70 0.76 4.54	9 SU
10 MO	0100 0742 1321 2009	3.52 0.21 3.73 0.30	0035 0706 1251 1931	3.94 0.39 4.16 0.47	0004 0632 1221 1858	4.19 0.47 4.49 0.52	0608 1200 1834	0.62 4.87 0.67	10 MO
11 TU	0129 0809 1347 2038	3.59 0.20 3.81 0.32	0104 0733 1318 2000	4.04 0.34 4.25 0.47	0034 0659 1248 1927	4.28 0.40 4.58 0.49	0013 0634 1228 1901	4.65 0.51 4.96 0.61	11 TU
12 WE	0158 0837 1413 2106	3.62 0.18 3.84 0.34	0135 0801 1346 2028	4.08 0.31 4.26 0.48	0104 0726 1317 1956	4.30 0.37 4.61 0.50	0043 0702 1256 1928	4.69 0.45 4.98 0.60	12 WE
13 TH	0227 0907 1443 2138	3.61 0.18 3.85 0.35	0204 0830 1414 2058	4.04 0.32 4.23 0.50	0134 0755 1346 2026	4.26 0.37 4.58 0.52	0112 0731 1323 1958	4.66 0.45 4.94 0.61	13 TH
14 FR	0258 0938 1516 2212	3.56 0.18 3.82 0.36	0234 0900 1444 2130	3.96 0.34 4.19 0.52	0205 0825 1418 2058	4.19 0.40 4.55 0.55	0142 0802 1353 2031	4.59 0.50 4.90 0.64	14 FR
15 SA	0333 1011 1552 2247	3.46 0.21 3.75 0.37	0305 0933 1517 2203	3.87 0.38 4.14 0.55	0238 0857 1452 2132	4.11 0.45 4.50 0.59	0213 0834 1426 2105	4.51 0.59 4.84 0.70	15 SA
16 SU	0410 1045 1630 2324	3.33 0.26 3.66 0.41	0341 1006 1555 2239	3.76 0.45 4.07 0.59	0314 0931 1530 2209	4.00 0.55 4.43 0.66	0249 0907 1505 2140	4.39 0.72 4.76 0.80	16 SU

05 | MAY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0452	3.18	0420	3.64	0355	3.88	0330	4.25	17 MO
	1121	0.34	1044	0.56	1008	0.69	0944	0.90	
	1713	3.55	1639	3.98	1612	4.32	1548	4.64	
			2320	0.67	2251	0.77	2220	0.95	
18 TU	0005	0.46	0506	3.52	0441	3.75	0417	4.09	18 TU
	0538	3.05	1127	0.72	1052	0.89	1028	1.13	
	1202	0.46	1729	3.85	1701	4.17	1639	4.48	
	1801	3.42			2344	0.90	2311	1.14	
19 WE	0056	0.52	0009	0.77	0536	3.62	0513	3.94	19 WE
	0633	2.95	0601	3.40	1149	1.12	1127	1.37	
	1256	0.62	1224	0.91	1800	4.00	1739	4.30	
	1900	3.30	1830	3.71					
20 TH	0203	0.56	0111	0.88	0053	0.99	0019	1.29	20 TH
	0744	2.94	0714	3.36	0653	3.59	0631	3.89	
	1411	0.76	1337	1.05	1308	1.27	1245	1.53	
	2016	3.25	1948	3.65	1923	3.91	1901	4.21	
21 FR	0317	0.50	0226	0.90	0209	0.95	0139	1.30	21 FR
	0913	3.11	0844	3.52	0825	3.78	0801	4.08	
	1543	0.74	1505	1.03	1439	1.20	1416	1.45	
	2139	3.34	2110	3.75	2046	4.01	2021	4.30	
22 SA	0427	0.40	0343	0.80	0318	0.81	0253	1.14	22 SA
	1026	3.43	0956	3.83	0932	4.12	0909	4.43	
	1701	0.59	1621	0.87	1551	0.99	1529	1.20	
	2245	3.52	2215	3.93	2148	4.18	2125	4.50	
23 SU	0530	0.30	0449	0.64	0419	0.65	0354	0.89	23 SU
	1123	3.73	1051	4.15	1024	4.46	1002	4.81	
	1806	0.45	1726	0.69	1653	0.78	1628	0.91	
	2338	3.67	2309	4.10	2241	4.36	2219	4.73	
24 MO	0626	0.23	0545	0.50	0514	0.49	0447	0.65	24 MO
	1210	3.96	1136	4.39	1108	4.74	1047	5.14	
	1902	0.37	1821	0.57	1748	0.61	1721	0.67	
			2356	4.23	2327	4.51	2305	4.93	

05 | MAY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0025	3.80	0635	0.40	0603	0.36	0535	0.45	25 TU
	0716	0.20	1217	4.57	1149	4.95	1129	5.39	
	1251	4.12	1912	0.50	1838	0.47	1810	0.49	
	1954	0.34					2350	5.08	
26 WE	0107	3.89	0039	4.32	0011	4.62	0621	0.31	26 WE
	0803	0.18	0722	0.33	0649	0.26	1211	5.54	
	1332	4.22	1257	4.67	1231	5.09	1857	0.38	
	○ 2042	0.34	1959	0.48	1926	0.39			○
27 TH	0151	3.93	0124	4.36	0055	4.67	0035	5.15	27 TH
	0849	0.17	0807	0.29	0734	0.22	0706	0.25	
	1415	4.27	1340	4.71	1315	5.14	1255	5.59	
	2129	0.35	2046	0.48	2012	0.36	1943	0.35	
28 FR	0237	3.91	0210	4.33	0142	4.64	0121	5.13	28 FR
	0934	0.19	0852	0.31	0819	0.24	0752	0.28	
	1501	4.25	1427	4.67	1400	5.11	1341	5.54	
	2216	0.36	2132	0.50	2059	0.38	2029	0.37	
29 SA	0327	3.83	0259	4.25	0230	4.55	0209	5.03	29 SA
	1019	0.24	0937	0.38	0903	0.34	0838	0.39	
	1550	4.19	1516	4.58	1449	5.01	1429	5.42	
	2303	0.37	2218	0.54	2146	0.43	2115	0.45	
30 SU	0418	3.72	0350	4.13	0321	4.42	0258	4.87	30 SU
	1104	0.34	1024	0.50	0949	0.49	0925	0.58	
	1641	4.09	1609	4.46	1540	4.87	1518	5.24	
	2350	0.38	2305	0.60	2234	0.50	2202	0.58	
31 MO	0512	3.59	0445	3.98	0416	4.26	0351	4.66	31 MO
	1152	0.47	1113	0.66	1037	0.70	1014	0.83	
	1733	3.94	1706	4.30	1637	4.67	1612	5.00	
			2355	0.68	2326	0.61	2253	0.78	

06 | JUNE | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0041	0.40	0544	3.83	0519	4.10	0452	4.42	1 TU
	0611	3.44	1209	0.85	1134	0.97	1111	1.13	
	1246	0.64	1808	4.09	1742	4.43	1715	4.71	
	1833	3.74					2352	1.01	
2 WE	0137	0.45	0051	0.79	0025	0.75	0604	4.22	2 WE
	0720	3.31	0653	3.69	0628	3.95	1221	1.41	
	1354	0.80	1315	1.04	1246	1.21	1825	4.43	
	1944	3.52	1917	3.88	1850	4.17			
3 TH	0237	0.51	0153	0.91	0127	0.90	0059	1.22	3 TH
	0836	3.26	0810	3.63	0744	3.89	0723	4.14	
	1507	0.88	1429	1.15	1357	1.34	1336	1.56	
	2054	3.36	2029	3.72	2000	3.97	1937	4.22	
4 FR	0340	0.56	0301	0.99	0229	1.01	0206	1.35	4 FR
	0953	3.34	0928	3.70	0902	3.97	0839	4.22	
	1619	0.87	1544	1.15	1510	1.34	1450	1.56	
	2202	3.30	2142	3.68	2112	3.90	2050	4.15	
5 SA	0444	0.59	0411	0.99	0335	1.05	0313	1.36	5 SA
	1056	3.50	1029	3.86	1000	4.13	0940	4.41	
	1732	0.78	1656	1.04	1628	1.21	1603	1.41	
	2303	3.35	2242	3.73	2212	3.94	2152	4.22	
6 SU	0540	0.57	0510	0.92	0435	0.99	0412	1.25	6 SU
	1142	3.67	1113	4.04	1043	4.32	1024	4.64	
	1826	0.66	1750	0.91	1718	1.03	1655	1.22	
	2351	3.44	2327	3.84	2258	4.04	2238	4.35	
7 MO	0625	0.53	0554	0.81	0519	0.89	0455	1.10	7 MO
	1219	3.81	1149	4.20	1119	4.51	1100	4.85	
	1907	0.59	1831	0.81	1757	0.88	1733	1.05	
					2336	4.16	2316	4.50	
8 TU	0030	3.54	0005	3.96	0556	0.79	0531	0.94	8 TU
	0704	0.50	0631	0.72	1152	4.65	1133	5.02	
	1251	3.91	1222	4.33	1832	0.80	1807	0.94	
	1944	0.57	1907	0.76			2350	4.61	

06 | JUNE | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0104 0739 1321 2017	3.61 0.48 3.97 0.59	0040 0705 1253 1940	4.05 0.66 4.41 0.76	0010 0629 1223 1906	4.26 0.71 4.73 0.76	0604 1204 1838	0.81 5.10 0.87	9 WE
10 TH	0133 0812 1349 ● 2050	3.65 0.48 4.01 0.62	0112 0737 1322 2012	4.10 0.63 4.44 0.78	0043 0702 1253 1938	4.30 0.67 4.77 0.76	0022 0636 1233 1908	4.68 0.73 5.14 0.83	10 TH
11 FR	0202 0844 1419 2122	3.69 0.48 4.05 0.63	0142 0809 1351 2044	4.11 0.62 4.44 0.79	0113 0733 1324 2011	4.32 0.64 4.79 0.75	0052 0708 1301 1941	4.70 0.70 5.14 0.81	11 FR
12 SA	0234 0918 1454 2157	3.72 0.47 4.08 0.64	0213 0842 1422 2117	4.09 0.63 4.44 0.80	0145 0806 1356 2046	4.33 0.63 4.80 0.75	0122 0742 1332 2016	4.71 0.71 5.15 0.80	12 SA
13 SU	0311 0954 1532 2235	3.71 0.49 4.06 0.64	0247 0917 1458 2153	4.06 0.66 4.42 0.81	0219 0842 1433 2122	4.32 0.65 4.79 0.75	0155 0818 1407 2053	4.70 0.76 5.13 0.82	13 SU
14 MO	0353 1031 1614 2313	3.64 0.54 4.00 0.66	0325 0955 1538 2230	4.00 0.72 4.38 0.83	0257 0919 1512 2201	4.27 0.72 4.74 0.78	0232 0855 1446 2130	4.65 0.85 5.08 0.87	14 MO
15 TU	0436 1111 1656 2355	3.54 0.62 3.91 0.67	0406 1035 1622 2310	3.93 0.81 4.31 0.86	0338 0959 1554 2241	4.21 0.83 4.66 0.82	0313 0935 1529 2210	4.57 0.97 4.99 0.93	15 TU
16 WE	0521 1154 1742	3.47 0.70 3.83	0450 1119 1709 2353	3.88 0.91 4.22 0.88	0422 1043 1640 2326	4.15 0.96 4.55 0.85	0357 1018 1616 2254	4.50 1.10 4.89 1.00	16 WE

06 | JUNE | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0040	0.67	0540	3.85	0512	4.12	0448	4.44	17 TH
	0610	3.46	1210	1.00	1134	1.08	1109	1.23	
	1244	0.79	1802	4.13	1731	4.43	1710	4.76	
	1832	3.75					2347	1.06	
18 FR	0134	0.64	0044	0.89	0020	0.87	0551	4.44	18 FR
	0708	3.51	0640	3.87	0613	4.14	1213	1.33	
	1347	0.86	1311	1.08	1238	1.18	1817	4.64	
	1933	3.68	1907	4.04	1836	4.31			
19 SA	0236	0.60	0144	0.91	0124	0.87	0051	1.10	19 SA
	0822	3.61	0756	3.97	0735	4.25	0711	4.55	
	1505	0.87	1425	1.11	1359	1.18	1331	1.33	
	2049	3.64	2024	4.02	1958	4.26	1935	4.60	
20 SU	0343	0.55	0255	0.90	0232	0.83	0202	1.06	20 SU
	0940	3.80	0911	4.17	0847	4.47	0823	4.79	
	1623	0.80	1544	1.03	1512	1.07	1448	1.20	
	2202	3.68	2136	4.07	2108	4.30	2044	4.66	
21 MO	0450	0.50	0407	0.82	0337	0.76	0310	0.93	21 MO
	1045	4.00	1015	4.39	0948	4.71	0925	5.06	
	1735	0.71	1655	0.91	1620	0.93	1555	1.00	
	2304	3.75	2239	4.16	2209	4.39	2147	4.77	
22 TU	0552	0.46	0512	0.72	0439	0.67	0411	0.78	22 TU
	1141	4.16	1110	4.58	1041	4.92	1020	5.32	
	1840	0.64	1759	0.80	1725	0.80	1655	0.81	
			2335	4.26	2305	4.50	2244	4.92	
23 WE	0000	3.83	0610	0.63	0537	0.57	0508	0.63	23 WE
	0650	0.42	1158	4.72	1130	5.10	1109	5.53	
	1231	4.28	1857	0.74	1822	0.67	1752	0.65	
	1938	0.59			2356	4.61	2334	5.07	
24 TH	0050	3.91	0025	4.34	0630	0.48	0601	0.50	24 TH
	0743	0.40	0703	0.56	1215	5.22	1156	5.68	
	1317	4.37	1243	4.81	1914	0.58	1843	0.53	
	2029	0.56	1948	0.70					

06 | JUNE | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0137	3.98	0112	4.39	0044	4.70	0022	5.18	25 FR
	0832	0.39	0753	0.53	0719	0.42	0652	0.42	
	1401	4.42	1328	4.85	1301	5.28	1241	5.74	
	○ 2118	0.56	2037	0.69	2002	0.53	1932	0.47	○
26 SA	0225	4.00	0159	4.40	0131	4.73	0109	5.23	26 SA
	0919	0.41	0840	0.55	0806	0.43	0740	0.41	
	1447	4.42	1414	4.82	1347	5.26	1327	5.73	
	2205	0.57	2123	0.71	2049	0.52	2018	0.47	
27 SU	0313	3.98	0247	4.36	0218	4.70	0156	5.19	27 SU
	1006	0.48	0927	0.62	0852	0.50	0827	0.48	
	1534	4.37	1502	4.76	1433	5.19	1413	5.64	
	2250	0.57	2207	0.73	2134	0.53	2103	0.51	
28 MO	0401	3.93	0336	4.30	0305	4.63	0243	5.10	28 MO
	1052	0.58	1012	0.72	0936	0.63	0912	0.62	
	1620	4.30	1551	4.66	1520	5.07	1459	5.50	
	2334	0.58	2250	0.76	2218	0.57	2145	0.59	
29 TU	0449	3.86	0425	4.23	0354	4.54	0329	4.97	29 TU
	1137	0.70	1058	0.83	1021	0.79	0956	0.80	
	1706	4.19	1640	4.54	1609	4.91	1546	5.30	
			2332	0.80	2301	0.64	2228	0.72	
30 WE	0017	0.60	0514	4.15	0445	4.44	0419	4.81	30 WE
	0536	3.79	1145	0.96	1107	0.98	1042	1.02	
	1222	0.82	1731	4.38	1702	4.71	1637	5.05	
	1753	4.03			2346	0.75	2312	0.90	

07 | JULY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0101	0.64	0016	0.87	0541	4.33	0514	4.64	1 TH
	0629	3.69	0608	4.06	1201	1.19	1134	1.27	
	1313	0.96	1235	1.10	1759	4.45	1734	4.75	
	1847	3.81	1826	4.17					
2 FR	0149	0.72	0103	0.99	0036	0.92	0003	1.13	2 FR
	0732	3.60	0707	3.96	0641	4.22	0616	4.50	
	1413	1.09	1334	1.25	1305	1.38	1237	1.51	
	1952	3.57	1926	3.94	1859	4.18	1836	4.46	
3 SA	0242	0.82	0158	1.13	0131	1.11	0101	1.36	3 SA
	0838	3.55	0811	3.90	0746	4.15	0722	4.42	
	1517	1.15	1440	1.35	1408	1.48	1345	1.64	
	2058	3.40	2030	3.75	2002	3.95	1941	4.24	
4 SU	0340	0.89	0301	1.23	0229	1.25	0204	1.50	4 SU
	0942	3.59	0918	3.91	0852	4.18	0830	4.45	
	1622	1.13	1549	1.35	1513	1.47	1453	1.64	
	2201	3.32	2138	3.66	2109	3.85	2050	4.15	
5 MO	0440	0.89	0406	1.24	0330	1.29	0308	1.51	5 MO
	1043	3.69	1021	4.02	0953	4.29	0934	4.59	
	1733	1.02	1702	1.24	1629	1.35	1604	1.50	
	2304	3.35	2245	3.71	2216	3.89	2158	4.22	
6 TU	0539	0.84	0509	1.15	0432	1.22	0408	1.40	6 TU
	1138	3.83	1114	4.18	1045	4.46	1028	4.80	
	1835	0.86	1801	1.09	1729	1.16	1702	1.31	
			2339	3.84	2310	4.01	2250	4.37	
7 WE	0000	3.45	0602	1.02	0526	1.09	0500	1.23	7 WE
	0633	0.76	1158	4.33	1128	4.63	1110	4.99	
	1223	3.95	1847	0.98	1812	1.01	1745	1.14	
	1922	0.77			2353	4.15	2330	4.53	
8 TH	0043	3.55	0021	3.97	0609	0.97	0542	1.07	8 TH
	0718	0.72	0645	0.93	1204	4.75	1145	5.12	
	1300	4.03	1235	4.44	1850	0.92	1821	1.02	
	2001	0.75	1926	0.93					

07 | JULY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0115 0756 1330 2038	3.64 0.71 4.11 0.78	0056 0722 1307 2001	4.07 0.87 4.51 0.92	0027 0646 1236 1925	4.28 0.87 4.86 0.86	0005 0619 1216 1854	4.66 0.93 5.23 0.93	9 FR
10 SA	0144 0831 1400 2113	3.75 0.71 4.20 0.80	0128 0756 1336 2035	4.16 0.82 4.59 0.91	0058 0721 1306 2000	4.39 0.79 4.95 0.80	0035 0654 1245 1929	4.78 0.82 5.32 0.84	10 SA
11 SU	0215 0906 1434 2148	3.86 0.69 4.29 0.79	0158 0831 1407 2109	4.23 0.79 4.65 0.90	0128 0756 1338 2036	4.50 0.71 5.03 0.75	0106 0730 1316 2004	4.90 0.73 5.41 0.76	11 SU
12 MO	0253 0943 1513 2225	3.94 0.69 4.32 0.79	0232 0909 1442 2144	4.27 0.78 4.68 0.89	0202 0833 1414 2112	4.57 0.68 5.06 0.72	0139 0808 1350 2041	4.97 0.70 5.45 0.71	12 MO
13 TU	0334 1023 1554 2302	3.94 0.73 4.29 0.79	0309 0947 1521 2220	4.26 0.82 4.66 0.89	0238 0912 1452 2149	4.59 0.71 5.03 0.71	0216 0846 1428 2118	4.99 0.72 5.44 0.70	13 TU
14 WE	0416 1103 1634 2339	3.90 0.78 4.21 0.78	0349 1027 1602 2256	4.23 0.89 4.59 0.89	0317 0951 1532 2226	4.58 0.78 4.95 0.70	0254 0925 1508 2154	4.97 0.77 5.38 0.70	14 WE
15 TH	0457 1144 1716	3.87 0.83 4.13	0430 1108 1645 2334	4.22 0.94 4.51 0.86	0359 1031 1615 2304	4.56 0.85 4.86 0.69	0335 1004 1551 2233	4.94 0.84 5.28 0.71	15 TH
16 FR	0019 0540 1229 1801	0.74 3.88 0.87 4.04	0515 1153 1734	4.22 0.99 4.41	0444 1116 1703 2348	4.56 0.93 4.73 0.70	0420 1049 1641 2317	4.92 0.92 5.13 0.75	16 FR

07 | JULY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0103	0.69	0017	0.84	0536	4.56	0514	4.90	17 SA
	0629	3.91	0607	4.24	1210	1.03	1143	1.05	
	1322	0.91	1246	1.05	1759	4.55	1740	4.92	
	1854	3.92	1831	4.26					
18 SU	0158	0.68	0110	0.87	0043	0.77	0012	0.85	18 SU
	0730	3.92	0714	4.25	0647	4.54	0624	4.87	
	1432	0.96	1353	1.12	1323	1.13	1253	1.17	
	2002	3.76	1946	4.10	1917	4.34	1856	4.71	
19 MO	0304	0.69	0216	0.94	0153	0.86	0120	0.97	19 MO
	0859	3.93	0835	4.29	0812	4.58	0746	4.91	
	1552	0.96	1514	1.14	1443	1.14	1416	1.20	
	2129	3.65	2107	4.02	2038	4.23	2015	4.61	
20 TU	0417	0.70	0335	0.97	0307	0.90	0237	1.02	20 TU
	1019	4.02	0950	4.40	0922	4.70	0859	5.04	
	1713	0.91	1635	1.07	1559	1.07	1533	1.09	
	2242	3.65	2222	4.04	2150	4.24	2129	4.64	
21 WE	0529	0.67	0451	0.92	0419	0.86	0349	0.96	21 WE
	1126	4.14	1056	4.54	1026	4.86	1006	5.23	
	1831	0.81	1752	0.94	1717	0.92	1645	0.92	
	2351	3.72	2329	4.14	2258	4.36	2236	4.79	
22 TH	0636	0.62	0600	0.82	0527	0.75	0456	0.81	22 TH
	1223	4.26	1152	4.67	1121	5.03	1102	5.45	
	1933	0.70	1854	0.81	1819	0.74	1747	0.73	
					2354	4.53	2330	4.99	
23 FR	0047	3.83	0024	4.27	0624	0.61	0555	0.63	23 FR
	0734	0.56	0658	0.71	1209	5.19	1149	5.65	
	1310	4.37	1240	4.78	1910	0.59	1838	0.56	
	2024	0.63	1946	0.73					
24 SA ○	0134	3.96	0110	4.37	0041	4.70	0016	5.18	24 SA ○
	0824	0.53	0748	0.64	0714	0.50	0646	0.47	
	1352	4.44	1323	4.85	1252	5.29	1233	5.78	
	○ 2110	0.61	2031	0.69	1955	0.49	1923	0.45 ○	

07 | JULY | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0215	4.05	0153	4.44	0123	4.81	0059	5.30	25 SU
	0911	0.54	0834	0.63	0759	0.46	0732	0.39	
	1432	4.48	1405	4.88	1334	5.32	1314	5.82	
	2153	0.62	2113	0.70	2037	0.46	2005	0.41	
26 MO	0257	4.09	0236	4.46	0204	4.85	0141	5.34	26 MO
	0955	0.60	0917	0.67	0841	0.49	0815	0.41	
	1513	4.46	1447	4.85	1416	5.28	1355	5.78	
	2233	0.65	2152	0.73	2117	0.48	2044	0.43	
27 TU	0338	4.09	0318	4.45	0244	4.83	0222	5.30	27 TU
	1037	0.69	0958	0.74	0921	0.59	0855	0.50	
	1554	4.40	1529	4.78	1456	5.18	1435	5.66	
	2310	0.68	2229	0.76	2154	0.52	2121	0.48	
28 WE	0417	4.07	0359	4.41	0324	4.78	0302	5.22	28 WE
	1116	0.78	1037	0.83	0959	0.72	0932	0.63	
	1634	4.31	1611	4.68	1537	5.04	1515	5.49	
	2345	0.71	2303	0.79	2228	0.59	2156	0.57	
29 TH	0456	4.04	0439	4.37	0404	4.71	0341	5.10	29 TH
	1153	0.87	1115	0.92	1034	0.86	1009	0.79	
	1713	4.17	1652	4.54	1619	4.85	1557	5.25	
			2336	0.84	2301	0.69	2230	0.71	
30 FR	0019	0.74	0520	4.30	0447	4.60	0423	4.96	30 FR
	0535	3.97	1153	1.03	1112	1.02	1046	1.00	
	1228	0.96	1735	4.33	1705	4.60	1642	4.96	
	1755	3.98			2336	0.86	2307	0.93	
31 SA	0052	0.80	0011	0.93	0535	4.45	0511	4.77	31 SA
	0620	3.86	0606	4.18	1157	1.24	1130	1.27	
	1308	1.07	1236	1.17	1757	4.28	1734	4.60	
	1843	3.70	1825	4.05			2349	1.22	

08 | AUGUST | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0131 0717 1407 1947	0.92 3.69 1.20 3.40	0053 0701 1334 1925	1.09 4.02 1.35 3.74	0020 0634 1304 1857	1.11 4.25 1.47 3.94	0609 1231 1839	4.54 1.57 4.24	1 SU
2 MO	0230 0836 1525 2105	1.07 3.55 1.27 3.19	0150 0808 1449 2036	1.30 3.87 1.47 3.51	0125 0743 1418 2008	1.38 4.09 1.59 3.68	0048 0719 1353 1951	1.53 4.36 1.75 3.98	2 MO
3 TU	0350 0952 1640 2221	1.15 3.55 1.20 3.16	0310 0925 1609 2159	1.43 3.83 1.44 3.46	0241 0900 1532 2132	1.53 4.07 1.56 3.62	0210 0836 1511 2113	1.72 4.33 1.72 3.94	3 TU
4 WE	0503 1103 1802 2336	1.08 3.67 1.01 3.29	0427 1041 1731 2316	1.39 3.96 1.25 3.63	0354 1012 1700 2249	1.50 4.22 1.36 3.79	0327 0954 1632 2227	1.69 4.50 1.52 4.13	4 WE
5 TH	0610 1201 1901	0.93 3.86 0.80	0537 1138 1828	1.22 4.17 1.04	0504 1107 1754 2339	1.32 4.45 1.10 4.04	0435 1050 1727 2315	1.49 4.77 1.26 4.40	5 TH
6 FR	0029 0703 1244 1945	3.48 0.80 4.01 0.71	0006 0629 1220 1910	3.86 1.03 4.37 0.91	0555 1148 1834	1.10 4.68 0.90	0528 1130 1806 2350	1.23 5.02 1.03 4.65	6 FR
7 SA	0105 0746 1317 2023	3.66 0.73 4.14 0.71	0043 0710 1253 1947	4.05 0.90 4.52 0.85	0014 0635 1220 1910	4.27 0.90 4.87 0.76	0608 1202 1840	0.98 5.23 0.85	7 SA
8 SU	0134 0823 1347 2059	3.83 0.71 4.28 0.72	0114 0746 1323 2021	4.22 0.81 4.66 0.81	0043 0711 1249 1944	4.49 0.74 5.05 0.65	0021 0644 1230 1914	4.88 0.75 5.43 0.67	8 SU

08 | AUGUST | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0203	4.00	0144	4.35	0112	4.69	0051	5.10	9 MO
	0859	0.70	0822	0.74	0747	0.60	0720	0.56	
	1418	4.41	1352	4.78	1320	5.18	1300	5.60	
	2134	0.73	2055	0.77	2019	0.55	1949	0.52	
10 TU	0236	4.14	0216	4.45	0143	4.84	0122	5.26	10 TU
	0937	0.69	0900	0.70	0823	0.52	0757	0.44	
	1453	4.47	1425	4.84	1354	5.25	1333	5.70	
	2210	0.72	2130	0.75	2055	0.49	2024	0.42	
11 WE	0313	4.20	0251	4.49	0217	4.91	0157	5.33	11 WE
	1015	0.71	0938	0.71	0901	0.51	0834	0.40	
	1531	4.45	1501	4.83	1430	5.23	1408	5.71	
	2245	0.73	2204	0.74	2129	0.46	2059	0.37	
12 TH	0351	4.20	0328	4.49	0254	4.93	0233	5.34	12 TH
	1054	0.75	1016	0.75	0938	0.54	0911	0.43	
	1610	4.37	1540	4.76	1509	5.14	1446	5.63	
	2320	0.71	2238	0.72	2204	0.45	2133	0.36	
13 FR	0430	4.17	0407	4.48	0333	4.92	0311	5.31	13 FR
	1132	0.78	1055	0.79	1016	0.60	0948	0.49	
	1650	4.26	1622	4.65	1550	5.02	1527	5.48	
	2356	0.67	2314	0.69	2239	0.45	2210	0.38	
14 SA	0511	4.16	0450	4.47	0416	4.90	0354	5.26	14 SA
	1214	0.79	1136	0.83	1057	0.68	1029	0.60	
	1734	4.12	1708	4.49	1636	4.84	1615	5.25	
			2354	0.68	2320	0.51	2251	0.48	
15 SU	0036	0.62	0540	4.43	0506	4.80	0444	5.14	15 SU
	0558	4.11	1225	0.90	1146	0.83	1119	0.79	
	1303	0.83	1804	4.26	1731	4.56	1712	4.92	
	1826	3.91					2343	0.70	
16 MO	0127	0.65	0044	0.76	0011	0.68	0550	4.93	16 MO
	0658	3.97	0644	4.30	0611	4.61	1226	1.05	
	1410	0.91	1329	1.04	1256	1.04	1830	4.56	
	1937	3.63	1922	3.97	1851	4.21			

08 | AUGUST | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0235	0.74	0150	0.93	0123	0.93	0051	1.01	17 TU
	0840	3.83	0812	4.19	0748	4.46	0720	4.76	
	1532	0.97	1454	1.13	1423	1.16	1355	1.23	
	2118	3.45	2054	3.80	2024	4.00	2001	4.34	
18 WE	0357	0.80	0316	1.04	0250	1.06	0218	1.20	18 WE
	1010	3.87	0939	4.21	0910	4.48	0848	4.77	
	1710	0.91	1631	1.06	1559	1.10	1528	1.16	
	2245	3.46	2224	3.84	2153	4.02	2131	4.38	
19 TH	0524	0.76	0448	0.99	0418	1.00	0346	1.15	19 TH
	1125	4.00	1057	4.35	1025	4.64	1007	4.97	
	1835	0.68	1756	0.83	1722	0.84	1651	0.91	
			2337	4.03	2311	4.25	2244	4.62	
20 FR	0003	3.62	0605	0.81	0532	0.78	0503	0.90	20 FR
	0640	0.62	1156	4.52	1125	4.86	1105	5.24	
	1223	4.14	1854	0.62	1818	0.57	1749	0.64	
	1932	0.49					2335	4.90	
21 SA	0056	3.80	0030	4.22	0003	4.50	0559	0.62	21 SA
	0736	0.51	0701	0.63	0625	0.56	1149	5.48	
	1307	4.26	1242	4.66	1209	5.05	1834	0.43	
	2018	0.43	1940	0.52	1903	0.40			
22 SU	0135	3.95	0110	4.36	0041	4.70	0014	5.14	22 SU
	0822	0.47	0746	0.54	0710	0.41	0643	0.40	
	1343	4.35	1319	4.76	1246	5.19	1226	5.65	
	○ 2058	0.46	2020	0.50	1943	0.31	1913	0.31	
23 MO	0207	4.07	0145	4.46	0114	4.86	0050	5.31	23 MO
	0903	0.48	0826	0.51	0750	0.35	0723	0.28	
	1416	4.42	1354	4.82	1321	5.25	1301	5.73	
	2135	0.51	2056	0.53	2019	0.30	1948	0.26	
24 TU	0239	4.17	0220	4.52	0147	4.94	0125	5.40	24 TU
	0941	0.53	0903	0.54	0827	0.37	0800	0.26	
	1452	4.43	1429	4.82	1357	5.23	1337	5.72	
	2209	0.57	2129	0.58	2053	0.33	2022	0.27	

08 | AUGUST | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0312	4.20	0255	4.53	0220	4.96	0200	5.40	25 WE
	1017	0.61	0938	0.61	0902	0.45	0834	0.32	
	1528	4.38	1505	4.77	1432	5.14	1412	5.62	
	2240	0.61	2200	0.62	2123	0.40	2053	0.32	
26 TH	0346	4.19	0330	4.49	0253	4.92	0235	5.33	26 TH
	1051	0.68	1012	0.69	0933	0.55	0906	0.42	
	1603	4.28	1541	4.66	1507	5.00	1447	5.45	
	2309	0.64	2230	0.66	2151	0.48	2123	0.40	
27 FR	0419	4.15	0404	4.44	0327	4.84	0308	5.22	27 FR
	1122	0.74	1043	0.76	1003	0.65	0937	0.55	
	1638	4.13	1616	4.51	1543	4.81	1523	5.23	
	2336	0.65	2258	0.69	2218	0.57	2153	0.53	
28 SA	0453	4.08	0439	4.37	0402	4.73	0343	5.07	28 SA
	1152	0.78	1115	0.83	1033	0.78	1008	0.72	
	1713	3.94	1653	4.30	1621	4.57	1600	4.94	
			2327	0.75	2248	0.71	2223	0.72	
29 SU	0003	0.68	0517	4.24	0440	4.55	0420	4.86	29 SU
	0529	3.96	1150	0.94	1107	0.96	1043	0.97	
	1224	0.84	1733	4.02	1702	4.25	1642	4.57	
	1752	3.67			2320	0.95	2257	1.02	
30 MO	0033	0.76	0000	0.89	0525	4.28	0503	4.58	30 MO
	0612	3.74	0601	4.03	1150	1.24	1126	1.32	
	1304	0.97	1233	1.14	1754	3.86	1735	4.14	
	1841	3.33	1823	3.66			2340	1.40	
31 TU	0111	0.94	0042	1.13	0001	1.29	0606	4.24	31 TU
	0712	3.46	0701	3.77	0629	3.97	1239	1.70	
	1412	1.14	1342	1.37	1310	1.55	1857	3.76	
	1957	2.99	1937	3.32	1910	3.48			

09 | SEPTEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0209	1.17	0151	1.40	0113	1.65	0048	1.80	1 WE
	0859	3.28	0828	3.58	0803	3.77	0741	4.02	
	1553	1.16	1520	1.44	1448	1.62	1427	1.82	
	2142	2.90	2113	3.20	2048	3.34	2031	3.65	
2 TH	0427	1.19	0343	1.46	0319	1.69	0248	1.90	2 TH
	1029	3.39	1002	3.65	0936	3.88	0918	4.13	
	1721	0.97	1652	1.26	1623	1.42	1600	1.60	
	2313	3.11	2249	3.42	2226	3.58	2205	3.91	
3 FR	0545	0.95	0507	1.25	0442	1.43	0414	1.63	3 FR
	1136	3.66	1113	3.93	1044	4.20	1030	4.48	
	1832	0.69	1801	0.97	1729	1.06	1704	1.24	
			2345	3.76	2321	3.96	2259	4.30	
4 SA	0010	3.44	0607	0.98	0537	1.09	0512	1.25	4 SA
	0642	0.71	1159	4.21	1128	4.52	1114	4.84	
	1222	3.91	1846	0.76	1811	0.77	1746	0.92	
	1919	0.53			2356	4.30	2334	4.66	
5 SU	0048	3.70	0023	4.04	0618	0.80	0553	0.89	5 SU
	0727	0.58	0651	0.78	1201	4.80	1145	5.14	
	1258	4.10	1234	4.43	1847	0.57	1820	0.66	
	1958	0.48	1923	0.65					
6 MO	0118	3.92	0054	4.26	0024	4.59	0004	4.97	6 MO
	0806	0.53	0729	0.64	0654	0.57	0629	0.58	
	1328	4.25	1303	4.61	1230	5.02	1214	5.40	
	2035	0.50	1957	0.59	1921	0.42	1854	0.43	
7 TU	0146	4.11	0124	4.43	0051	4.84	0033	5.24	7 TU
	0844	0.51	0806	0.55	0730	0.40	0705	0.33	
	1358	4.38	1332	4.74	1300	5.18	1242	5.60	
	2111	0.51	2032	0.55	1955	0.30	1927	0.25	
8 WE	0216	4.27	0154	4.55	0120	5.03	0103	5.44	8 WE
	0923	0.51	0843	0.49	0807	0.30	0741	0.18	
	1431	4.45	1404	4.82	1332	5.25	1314	5.72	
	2146	0.51	2106	0.51	2030	0.23	2002	0.13	

09 | SEPTEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0250	4.36	0228	4.62	0153	5.14	0137	5.53	9 TH
	1002	0.52	0922	0.48	0845	0.26	0818	0.12	
	1508	4.43	1439	4.81	1408	5.23	1349	5.72	
	2222	0.51	2141	0.49	2105	0.20	2037	0.08	
10 FR	0327	4.37	0305	4.62	0230	5.16	0213	5.54	10 FR
	1041	0.54	1000	0.50	0922	0.28	0855	0.13	
	1547	4.33	1519	4.73	1447	5.12	1427	5.61	
	2256	0.49	2216	0.46	2140	0.20	2112	0.09	
11 SA	0406	4.33	0345	4.60	0310	5.13	0251	5.48	11 SA
	1120	0.55	1039	0.54	1000	0.33	0933	0.20	
	1629	4.18	1601	4.58	1530	4.96	1509	5.40	
	2333	0.45	2253	0.45	2216	0.24	2149	0.16	
12 SU	0449	4.25	0429	4.53	0353	5.02	0334	5.36	12 SU
	1201	0.56	1121	0.59	1041	0.44	1014	0.35	
	1715	3.98	1650	4.36	1618	4.71	1558	5.10	
			2335	0.49	2257	0.38	2231	0.35	
13 MO	0014	0.45	0521	4.40	0444	4.81	0425	5.13	13 MO
	0538	4.09	1211	0.70	1131	0.64	1103	0.61	
	1251	0.61	1749	4.05	1716	4.35	1657	4.69	
	1810	3.69			2349	0.67	2324	0.70	
14 TU	0106	0.54	0027	0.64	0552	4.48	0531	4.78	14 TU
	0641	3.83	0629	4.16	1242	0.93	1211	0.97	
	1357	0.71	1316	0.87	1847	3.95	1822	4.26	
	1937	3.35	1914	3.71					
15 WE	0217	0.70	0137	0.87	0107	1.02	0035	1.12	15 WE
	0836	3.62	0802	3.96	0735	4.22	0709	4.48	
	1522	0.77	1446	0.98	1416	1.09	1350	1.19	
	2122	3.23	2056	3.57	2025	3.77	2004	4.07	
16 TH	0349	0.76	0312	0.99	0248	1.15	0217	1.33	16 TH
	1005	3.65	0937	3.95	0906	4.20	0847	4.47	
	1714	0.62	1633	0.85	1606	0.94	1536	1.07	
	2259	3.36	2231	3.72	2212	3.93	2144	4.23	

09 | SEPTEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0531 1121 1828	0.61 3.79 0.32	0454 1058 1750 2339	0.86 4.12 0.55 3.99	0428 1031 1718 2319	0.96 4.40 0.61 4.25	0358 1011 1652 2252	1.17 4.71 0.74 4.57	17 FR
18 SA	0007 0640 1218 1920	3.61 0.39 3.94 0.16	0605 1156 1842	0.60 4.30 0.35	0532 1128 1808	0.65 4.63 0.36	0508 1107 1742 2335	0.81 4.99 0.46 4.86	18 SA
19 SU	0053 0730 1259 2002	3.80 0.28 4.04 0.17	0026 0654 1237 1924	4.18 0.43 4.42 0.30	0002 0619 1206 1848	4.49 0.43 4.79 0.24	0556 1146 1822	0.51 5.20 0.29	19 SU
20 MO	0126 0811 1329 2037	3.93 0.28 4.12 0.26	0101 0734 1308 1959	4.30 0.37 4.51 0.32	0033 0659 1236 1923	4.68 0.30 4.92 0.19	0008 0634 1217 1855	5.08 0.31 5.36 0.20	20 MO
21 TU	0152 0848 1358 2109	4.05 0.33 4.20 0.35	0129 0810 1337 2030	4.40 0.36 4.59 0.36	0059 0735 1305 1954	4.83 0.24 5.00 0.19	0037 0709 1247 1926	5.26 0.19 5.45 0.16	21 TU
22 WE	0218 0922 1430 2137	4.15 0.38 4.23 0.40	0158 0843 1407 2100	4.47 0.39 4.61 0.40	0126 0808 1336 2023	4.93 0.25 5.00 0.23	0107 0741 1318 1955	5.36 0.16 5.45 0.16	22 WE
23 TH	0246 0953 1503 2204	4.19 0.44 4.17 0.43	0228 0914 1440 2128	4.48 0.44 4.56 0.44	0155 0838 1408 2049	4.96 0.31 4.91 0.29	0138 0811 1350 2024	5.36 0.20 5.36 0.21	23 TH
24 FR	0317 1023 1535 2231	4.17 0.49 4.05 0.45	0300 0944 1512 2155	4.43 0.50 4.43 0.48	0225 0906 1440 2115	4.90 0.39 4.77 0.36	0209 0840 1422 2052	5.27 0.29 5.19 0.30	24 FR

09 | SEPTEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0347	4.10	0333	4.35	0256	4.80	0239	5.14	25 SA
	1052	0.52	1013	0.56	0934	0.47	0909	0.39	
	1606	3.89	1544	4.27	1512	4.58	1454	4.97	
	2257	0.46	2222	0.51	2142	0.45	2119	0.42	
26 SU	0419	4.00	0405	4.25	0327	4.67	0309	4.97	26 SU
	1122	0.53	1043	0.60	1002	0.57	0938	0.53	
	1639	3.70	1616	4.08	1545	4.37	1527	4.72	
	2325	0.47	2250	0.56	2209	0.58	2148	0.60	
27 MO	0453	3.86	0438	4.13	0400	4.50	0342	4.78	27 MO
	1153	0.56	1115	0.68	1033	0.72	1010	0.75	
	1716	3.45	1652	3.83	1622	4.09	1604	4.40	
	2355	0.54	2322	0.67	2240	0.79	2221	0.87	
28 TU	0533	3.65	0517	3.94	0439	4.25	0421	4.51	28 TU
	1230	0.65	1153	0.84	1110	0.96	1049	1.06	
	1801	3.15	1737	3.52	1706	3.74	1651	4.02	
					2318	1.10	2301	1.24	
29 WE	0032	0.68	0002	0.87	0529	3.92	0511	4.17	29 WE
	0624	3.36	0607	3.66	1204	1.28	1146	1.45	
	1321	0.81	1248	1.08	1811	3.36	1802	3.63	
	1904	2.83	1841	3.18			2359	1.66	
30 TH	0123	0.92	0059	1.15	0014	1.49	0639	3.85	30 TH
	0742	3.07	0725	3.39	0655	3.59	1338	1.70	
	1455	0.93	1422	1.25	1359	1.49	1952	3.49	
	2053	2.68	2026	3.02	2008	3.19			

10 | OCTOBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0302	1.12	0241	1.33	0232	1.71	0158	1.89	1 FR
	0945	3.08	0914	3.38	0851	3.61	0832	3.85	
	1633	0.79	1602	1.13	1537	1.32	1517	1.53	
	2241	2.95	2210	3.26	2151	3.47	2131	3.77	
2 SA	0508	0.89	0424	1.16	0408	1.42	0341	1.62	2 SA
	1100	3.36	1035	3.65	1008	3.93	0956	4.18	
	1747	0.53	1716	0.85	1648	0.97	1627	1.17	
	2339	3.35	2311	3.66	2249	3.92	2231	4.22	
3 SU	0610	0.60	0530	0.87	0507	1.03	0443	1.20	3 SU
	1151	3.66	1127	3.97	1058	4.29	1046	4.58	
	1840	0.34	1807	0.60	1736	0.65	1714	0.82	
			2352	4.00	2327	4.31	2309	4.63	
4 MO	0019	3.68	0619	0.62	0551	0.69	0528	0.80	4 MO
	0658	0.41	1205	4.22	1135	4.58	1121	4.90	
	1230	3.88	1847	0.46	1815	0.42	1751	0.53	
	1923	0.27			2357	4.63	2340	4.97	
5 TU	0052	3.93	0026	4.25	0630	0.44	0606	0.47	5 TU
	0740	0.33	0701	0.45	1206	4.80	1151	5.16	
	1303	4.03	1237	4.40	1851	0.26	1826	0.29	
	2002	0.26	1924	0.38					
6 WE ●	0122	4.12	0057	4.42	0026	4.88	0010	5.24	6 WE ●
	0821	0.30	0741	0.35	0708	0.26	0643	0.21	
	1335	4.14	1308	4.52	1237	4.95	1221	5.35	
	2040	0.27	2000	0.32	1926	0.14	1901	0.10	
7 TH	0153	4.26	0128	4.54	0057	5.07	0041	5.43	7 TH
	0903	0.29	0821	0.29	0746	0.15	0721	0.05	
	1409	4.20	1341	4.59	1311	5.01	1255	5.45	
	2117	0.26	2037	0.28	2002	0.06	1936	-0.01	
8 FR	0227	4.33	0204	4.59	0131	5.16	0116	5.52	8 FR
	0944	0.28	0902	0.27	0826	0.10	0759	-0.02	
	1447	4.17	1419	4.57	1349	4.97	1332	5.44	
	2155	0.25	2116	0.25	2039	0.03	2013	-0.05	

10 | OCTOBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0305	4.33	0243	4.58	0210	5.16	0154	5.51	9 SA
	1026	0.29	0943	0.28	0906	0.11	0838	0.00	
	1529	4.06	1500	4.46	1431	4.85	1413	5.31	
	2233	0.23	2155	0.24	2117	0.06	2052	0.00	
10 SU	0347	4.25	0327	4.52	0252	5.07	0235	5.40	10 SU
	1107	0.29	1025	0.31	0947	0.17	0919	0.08	
	1613	3.89	1547	4.29	1516	4.65	1458	5.09	
	2312	0.23	2236	0.26	2157	0.16	2132	0.13	
11 MO	0433	4.11	0415	4.40	0338	4.90	0321	5.21	11 MO
	1151	0.31	1109	0.38	1030	0.30	1002	0.25	
	1703	3.66	1639	4.04	1608	4.38	1549	4.77	
	2356	0.28	2321	0.35	2241	0.37	2217	0.39	
12 TU	0526	3.89	0510	4.21	0432	4.62	0414	4.92	12 TU
	1243	0.36	1202	0.50	1123	0.52	1054	0.53	
	1806	3.35	1745	3.74	1715	4.03	1652	4.37	
					2337	0.71	2312	0.78	
13 WE	0051	0.43	0018	0.53	0550	4.26	0524	4.54	13 WE
	0639	3.58	0622	3.94	1237	0.78	1206	0.88	
	1349	0.43	1310	0.65	1849	3.72	1823	4.01	
	1944	3.10	1916	3.47					
14 TH	0207	0.61	0133	0.75	0102	1.05	0032	1.19	14 TH
	0825	3.39	0753	3.72	0725	3.99	0702	4.23	
	1515	0.44	1438	0.72	1411	0.89	1345	1.05	
	2121	3.08	2057	3.44	2032	3.66	2007	3.92	
15 FR	0348	0.62	0308	0.81	0247	1.11	0217	1.31	15 FR
	0950	3.38	0927	3.69	0900	3.94	0839	4.20	
	1655	0.27	1614	0.60	1552	0.73	1525	0.93	
	2252	3.30	2223	3.65	2208	3.91	2142	4.16	
16 SA	0521	0.40	0442	0.66	0420	0.87	0354	1.09	16 SA
	1106	3.48	1046	3.83	1024	4.11	1004	4.40	
	1805	0.04	1728	0.36	1659	0.47	1636	0.65	
	2353	3.56	2325	3.90	2308	4.21	2244	4.49	

10 | OCTOBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0625	0.18	0549	0.43	0520	0.58	0457	0.76	17 SU
	1203	3.59	1143	3.97	1118	4.29	1058	4.62	
	1855	-0.04	1818	0.23	1746	0.30	1723	0.45	
					2347	4.41	2323	4.73	
18 MO	0036	3.72	0010	4.06	0604	0.40	0541	0.52	18 MO
	0713	0.10	0636	0.30	1153	4.39	1133	4.76	
	1242	3.66	1221	4.05	1823	0.25	1800	0.34	
	1935	0.04	1857	0.22			2351	4.90	
19 TU	0107	3.81	0041	4.15	0014	4.54	0617	0.36	19 TU
	0752	0.13	0714	0.27	0641	0.29	1200	4.87	
	1311	3.72	1249	4.11	1220	4.48	1830	0.28	
	2008	0.15	1930	0.25	1855	0.23			
20 WE	0131	3.90	0106	4.23	0037	4.67	0017	5.04	20 WE
	0827	0.19	0748	0.28	0714	0.24	0649	0.27	
	1338	3.80	1315	4.19	1246	4.56	1228	4.95	
	2036	0.22	1958	0.26	1923	0.22	1858	0.23	
21 TH	0154	3.97	0132	4.29	0102	4.76	0044	5.12	21 TH
	0858	0.24	0818	0.30	0745	0.24	0718	0.23	
	1408	3.82	1344	4.22	1314	4.57	1257	4.96	
	2100	0.23	2026	0.27	1949	0.22	1925	0.21	
22 FR	0221	4.00	0202	4.30	0130	4.77	0114	5.10	22 FR
	0927	0.27	0847	0.32	0813	0.28	0746	0.26	
	1438	3.78	1415	4.17	1345	4.50	1328	4.88	
	2125	0.22	2053	0.29	2015	0.25	1953	0.25	
23 SA	0250	3.96	0233	4.23	0159	4.70	0143	4.99	23 SA
	0955	0.30	0915	0.36	0840	0.34	0814	0.32	
	1509	3.66	1445	4.04	1415	4.36	1358	4.74	
	2154	0.22	2121	0.33	2041	0.31	2021	0.33	
24 SU	0321	3.87	0304	4.12	0228	4.58	0212	4.85	24 SU
	1024	0.31	0945	0.40	0907	0.41	0843	0.41	
	1540	3.52	1515	3.89	1446	4.20	1428	4.56	
	2223	0.24	2149	0.37	2109	0.39	2050	0.45	

10 | OCTOBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0353	3.76	0335	4.02	0259	4.46	0242	4.70	25 MO
	1055	0.31	1015	0.44	0936	0.47	0914	0.52	
	1614	3.34	1547	3.73	1518	4.03	1501	4.35	
	2254	0.26	2220	0.42	2139	0.51	2121	0.61	
26 TU	0429	3.62	0409	3.91	0333	4.32	0315	4.55	26 TU
	1128	0.32	1048	0.49	1008	0.58	0947	0.67	
	1652	3.14	1623	3.55	1555	3.82	1539	4.12	
	2326	0.33	2254	0.50	2212	0.68	2154	0.83	
27 WE	0509	3.44	0448	3.76	0412	4.12	0354	4.35	27 WE
	1206	0.36	1127	0.60	1046	0.74	1026	0.91	
	1738	2.91	1708	3.33	1640	3.57	1625	3.85	
			2335	0.66	2252	0.94	2235	1.13	
28 TH	0004	0.45	0535	3.55	0459	3.86	0443	4.09	28 TH
	0558	3.21	1216	0.77	1137	0.97	1117	1.20	
	1254	0.47	1806	3.10	1738	3.31	1726	3.57	
	1835	2.70			2346	1.25	2331	1.46	
29 FR	0055	0.65	0030	0.87	0602	3.58	0548	3.81	29 FR
	0701	2.97	0638	3.32	1257	1.17	1238	1.44	
	1405	0.56	1327	0.91	1922	3.18	1905	3.45	
	2001	2.59	1935	2.97					
30 SA	0211	0.83	0148	1.02	0113	1.49	0057	1.68	30 SA
	0836	2.87	0813	3.22	0755	3.47	0735	3.70	
	1534	0.51	1459	0.89	1438	1.10	1423	1.40	
	2152	2.81	2120	3.17	2101	3.43	2041	3.66	
31 SU	0410	0.75	0326	0.95	0314	1.32	0250	1.54	31 SU
	1010	3.04	0941	3.39	0917	3.68	0901	3.89	
	1650	0.33	1615	0.68	1551	0.85	1535	1.14	
	2256	3.21	2226	3.54	2204	3.84	2147	4.06	

11 | NOVEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0523	0.48	0440	0.71	0421	0.98	0359	1.18	1 MO
	1109	3.30	1042	3.65	1015	3.97	1003	4.20	
	1749	0.16	1713	0.47	1647	0.58	1629	0.83	
	2342	3.56	2313	3.89	2248	4.23	2233	4.46	
2 TU	0619	0.26	0537	0.47	0514	0.66	0451	0.81	2 TU
	1155	3.51	1128	3.88	1100	4.22	1046	4.49	
	1839	0.07	1801	0.30	1733	0.36	1712	0.55	
			2352	4.14	2325	4.53	2309	4.79	
3 WE	0021	3.82	0627	0.31	0559	0.41	0535	0.50	3 WE
	0709	0.14	1206	4.05	1138	4.41	1122	4.72	
	1235	3.66	1844	0.20	1814	0.20	1752	0.32	
	1923	0.03			2359	4.76	2342	5.04	
4 TH	0056	3.98	0028	4.30	0642	0.23	0617	0.27	4 TH
	0755	0.09	0713	0.21	1215	4.53	1157	4.88	
	1312	3.74	1243	4.15	1854	0.07	1830	0.15	
	2006	0.01	1926	0.14					
5 FR	0131	4.09	0103	4.39	0034	4.91	0017	5.20	5 FR
	0840	0.08	0757	0.16	0724	0.12	0658	0.12	
	1349	3.78	1320	4.19	1253	4.57	1235	4.96	
	● 2047	0.00	2008	0.10	1935	0.00	1910	0.05	●
6 SA	0208	4.13	0142	4.42	0112	4.97	0056	5.26	6 SA
	0925	0.08	0842	0.14	0807	0.08	0740	0.06	
	1430	3.75	1402	4.15	1334	4.53	1316	4.94	
	2129	0.00	2051	0.09	2016	0.00	1951	0.05	
7 SU	0249	4.09	0225	4.38	0154	4.93	0138	5.22	7 SU
	1010	0.08	0926	0.15	0851	0.09	0824	0.08	
	1515	3.65	1447	4.05	1419	4.41	1401	4.82	
	2212	0.02	2135	0.11	2058	0.06	2034	0.12	
8 MO	0335	3.99	0312	4.29	0239	4.81	0223	5.09	8 MO
	1055	0.09	1012	0.18	0936	0.15	0908	0.16	
	1605	3.49	1537	3.89	1509	4.23	1450	4.63	
	2255	0.07	2220	0.17	2142	0.20	2119	0.29	

11 | NOVEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0425 1142 1700 2343	3.83 0.10 3.29 0.17	0404 1100 1633 2311	4.15 0.24 3.69 0.28	0329 1023 1605 2230	4.62 0.26 4.01 0.42	0312 0956 1544 2208	4.89 0.31 4.37 0.53	9 TU
10 WE	0521 1235 1809	3.63 0.13 3.08	0502 1154 1742	3.97 0.33 3.47	0427 1118 1719 2329	4.36 0.42 3.77 0.72	0408 1050 1652 2307	4.61 0.54 4.07 0.86	10 WE
11 TH	0040 0636 1339 1934	0.33 3.37 0.15 2.94	0010 0612 1259 1907	0.44 3.74 0.42 3.32	0545 1228 1842	4.06 0.59 3.60	0520 1201 1818	4.30 0.78 3.84	11 TH
12 FR	0157 0801 1453 2101	0.47 3.17 0.14 2.97	0124 0732 1414 2037	0.58 3.53 0.48 3.34	0053 0706 1347 2015	0.98 3.82 0.67 3.60	0027 0645 1323 1952	1.15 4.03 0.91 3.82	12 FR
13 SA	0326 0920 1614 2223	0.46 3.08 0.08 3.16	0246 0857 1534 2155	0.63 3.42 0.45 3.50	0222 0832 1514 2139	1.03 3.70 0.65 3.79	0157 0813 1449 2117	1.23 3.93 0.90 4.00	13 SA
14 SU	0450 1035 1726 2323	0.31 3.09 -0.01 3.36	0409 1016 1648 2255	0.55 3.45 0.36 3.69	0353 0953 1625 2238	0.89 3.73 0.53 4.01	0326 0936 1603 2218	1.10 3.99 0.77 4.23	14 SU
15 MO	0557 1134 1819	0.14 3.14 -0.03	0519 1115 1741 2339	0.41 3.52 0.28 3.81	0455 1051 1714 2318	0.66 3.81 0.44 4.16	0433 1034 1653 2257	0.87 4.10 0.65 4.41	15 MO
16 TU	0006 0647 1216 1859	3.49 0.05 3.19 0.02	0609 1156 1822	0.30 3.58 0.25	0540 1129 1751 2346	0.49 3.87 0.41 4.27	0518 1111 1730 2326	0.68 4.18 0.57 4.55	16 TU

11 | NOVEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0039	3.57	0012	3.89	0618	0.39	0555	0.55	17 WE
	0728	0.05	0648	0.26	1157	3.94	1140	4.26	
	1249	3.24	1226	3.63	1822	0.37	1801	0.50	
	1931	0.08	1855	0.24			2354	4.65	
18 TH	0106	3.64	0040	3.96	0011	4.37	0627	0.48	18 TH
	0803	0.08	0722	0.25	0651	0.34	1209	4.33	
	1318	3.30	1254	3.70	1225	4.01	1830	0.44	
	1957	0.09	1924	0.22	1850	0.33			
19 FR	0132	3.69	0108	4.01	0038	4.43	0022	4.71	19 FR
	0834	0.11	0752	0.26	0721	0.33	0657	0.45	
	1348	3.32	1323	3.73	1255	4.02	1239	4.35	
	○ 2022	0.06	1952	0.21	1916	0.30	1857	0.40	
20 SA	0159	3.69	0138	4.00	0107	4.42	0052	4.68	20 SA
	0901	0.14	0821	0.28	0750	0.36	0725	0.46	
	1416	3.30	1353	3.69	1325	3.98	1308	4.30	
	2050	0.03	2020	0.22	1944	0.30	1925	0.42	
21 SU	0228	3.65	0208	3.94	0137	4.36	0121	4.58	21 SU
	0929	0.15	0850	0.30	0818	0.40	0753	0.50	
	1446	3.24	1422	3.60	1354	3.89	1337	4.20	
	2121	0.02	2050	0.24	2012	0.33	1955	0.49	
22 MO	0259	3.60	0240	3.85	0206	4.27	0150	4.47	22 MO
	0959	0.14	0921	0.32	0847	0.43	0824	0.55	
	1518	3.15	1453	3.50	1425	3.79	1408	4.09	
	2154	0.04	2122	0.27	2043	0.38	2026	0.58	
23 TU	0333	3.52	0312	3.77	0238	4.19	0220	4.37	23 TU
	1032	0.13	0953	0.34	0918	0.46	0857	0.62	
	1555	3.04	1526	3.39	1459	3.68	1441	3.96	
	2229	0.07	2156	0.32	2117	0.47	2100	0.70	
24 WE	0412	3.40	0348	3.68	0314	4.09	0255	4.26	24 WE
	1108	0.13	1029	0.37	0953	0.51	0932	0.71	
	1636	2.89	1605	3.28	1538	3.56	1520	3.82	
	2305	0.14	2233	0.38	2153	0.61	2137	0.86	

11 | NOVEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0453	3.25	0428	3.58	0354	3.95	0335	4.13	25 TH
	1146	0.14	1107	0.42	1032	0.59	1011	0.85	
	1722	2.75	1649	3.16	1622	3.42	1605	3.66	
	2345	0.25	2316	0.48	2235	0.79	2218	1.05	
26 FR	0539	3.09	0513	3.45	0439	3.78	0421	3.97	26 FR
	1231	0.18	1153	0.50	1119	0.70	1058	1.01	
	1814	2.64	1741	3.06	1714	3.29	1659	3.52	
					2326	0.99	2310	1.25	
27 SA	0034	0.38	0007	0.60	0532	3.59	0516	3.79	27 SA
	0633	2.93	0606	3.30	1218	0.80	1158	1.15	
	1328	0.22	1248	0.57	1829	3.24	1812	3.46	
	1919	2.62	1848	3.01					
28 SU	0138	0.51	0111	0.69	0035	1.15	0018	1.39	28 SU
	0739	2.81	0713	3.19	0648	3.44	0632	3.65	
	1438	0.20	1356	0.58	1333	0.80	1314	1.19	
	2048	2.76	2018	3.13	2004	3.40	1943	3.59	
29 MO	0307	0.52	0229	0.69	0209	1.13	0146	1.37	29 MO
	0906	2.82	0837	3.20	0820	3.47	0759	3.68	
	1550	0.10	1511	0.49	1447	0.68	1432	1.06	
	2204	3.06	2132	3.41	2111	3.71	2051	3.88	
30 TU	0432	0.34	0348	0.54	0327	0.90	0306	1.14	30 TU
	1018	2.95	0948	3.33	0925	3.61	0907	3.84	
	1655	-0.03	1617	0.33	1550	0.50	1534	0.84	
	2300	3.37	2229	3.70	2205	4.03	2147	4.21	

12 | DECEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0538	0.14	0454	0.36	0430	0.65	0407	0.86	1 WE
	1116	3.10	1047	3.48	1021	3.77	1003	4.02	
	1753	-0.12	1714	0.18	1646	0.34	1627	0.61	
	2349	3.60	2317	3.92	2251	4.29	2234	4.49	
2 TH	0636	0.01	0553	0.22	0526	0.44	0501	0.61	2 TH
	1206	3.21	1136	3.61	1109	3.91	1051	4.19	
	1845	-0.18	1806	0.08	1737	0.21	1715	0.43	
					2334	4.48	2315	4.70	
3 FR	0032	3.74	0000	4.06	0617	0.29	0551	0.42	3 FR
	0729	-0.06	0646	0.14	1154	4.00	1135	4.32	
	1250	3.29	1221	3.69	1825	0.10	1802	0.29	
	1934	-0.20	1855	0.03			2357	4.83	
4 SA	0112	3.82	0042	4.13	0015	4.59	0639	0.30	4 SA
	0819	-0.07	0736	0.10	0705	0.20	1218	4.40	
	1333	3.33	1304	3.73	1238	4.06	1848	0.23	
	2021	-0.20	1943	0.00	1911	0.05			
5 SU	0153	3.84	0125	4.15	0057	4.63	0040	4.87	5 SU
	0908	-0.07	0825	0.10	0752	0.16	0726	0.25	
	1418	3.33	1349	3.71	1323	4.05	1305	4.40	
	2107	-0.18	2030	0.02	1957	0.06	1935	0.23	
6 MO	0238	3.80	0211	4.11	0142	4.59	0126	4.83	6 MO
	0955	-0.05	0912	0.11	0839	0.17	0814	0.25	
	1507	3.27	1437	3.65	1411	3.97	1353	4.34	
	2153	-0.12	2118	0.06	2043	0.13	2023	0.30	
7 TU	0326	3.71	0301	4.03	0229	4.48	0214	4.73	7 TU
	1043	-0.04	1000	0.13	0927	0.20	0902	0.30	
	1559	3.18	1529	3.54	1502	3.85	1444	4.22	
	2241	-0.04	2207	0.14	2130	0.26	2111	0.42	
8 WE	0417	3.59	0353	3.92	0320	4.32	0304	4.58	8 WE
	1131	-0.05	1048	0.17	1016	0.26	0950	0.38	
	1654	3.07	1625	3.43	1600	3.72	1539	4.07	
	2330	0.08	2259	0.24	2220	0.44	2202	0.60	

12 | DECEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0510	3.44	0449	3.78	0418	4.13	0359	4.39	9 TH
	1221	-0.05	1139	0.21	1108	0.33	1042	0.50	
	1755	2.96	1728	3.32	1707	3.61	1642	3.90	
			2355	0.34	2316	0.66	2257	0.81	
10 FR	0024	0.21	0549	3.60	0524	3.92	0501	4.15	10 FR
	0610	3.24	1234	0.26	1205	0.42	1140	0.65	
	1315	-0.04	1839	3.24	1817	3.53	1754	3.77	
	1904	2.88							
11 SA	0131	0.34	0059	0.45	0027	0.86	0004	1.01	11 SA
	0721	3.01	0656	3.38	0632	3.68	0611	3.90	
	1414	-0.01	1335	0.34	1307	0.53	1245	0.80	
	2018	2.85	1953	3.22	1930	3.50	1910	3.71	
12 SU	0245	0.40	0207	0.52	0140	0.97	0117	1.15	12 SU
	0832	2.81	0806	3.18	0741	3.46	0724	3.68	
	1517	0.04	1439	0.41	1410	0.63	1352	0.92	
	2130	2.91	2105	3.27	2044	3.55	2025	3.75	
13 MO	0359	0.37	0317	0.55	0256	0.97	0233	1.17	13 MO
	0941	2.68	0921	3.05	0855	3.31	0842	3.56	
	1621	0.08	1545	0.45	1519	0.70	1503	0.96	
	2234	3.02	2208	3.36	2147	3.66	2130	3.86	
14 TU	0515	0.26	0431	0.51	0418	0.84	0353	1.06	14 TU
	1046	2.64	1029	3.02	1003	3.27	0952	3.56	
	1723	0.09	1648	0.42	1625	0.68	1608	0.92	
	2325	3.13	2258	3.45	2236	3.77	2221	4.00	
15 WE	0615	0.13	0533	0.41	0512	0.67	0450	0.89	15 WE
	1141	2.68	1122	3.06	1055	3.31	1043	3.62	
	1811	0.07	1738	0.36	1711	0.62	1655	0.83	
			2340	3.54	2314	3.89	2259	4.14	
16 TH	0006	3.24	0619	0.32	0554	0.54	0533	0.75	16 TH
	0700	0.03	1203	3.13	1135	3.38	1121	3.70	
	1224	2.74	1818	0.30	1749	0.54	1733	0.73	
	1850	0.03			2348	3.98	2333	4.25	

12 | DECEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0041	3.32	0015	3.62	0630	0.46	0609	0.66	17 FR
	0739	-0.01	0658	0.27	1210	3.46	1154	3.78	
	1301	2.81	1237	3.20	1821	0.46	1806	0.64	
	1923	-0.01	1853	0.24					
18 SA	0113	3.36	0049	3.67	0020	4.04	0006	4.30	18 SA
	0812	0.00	0732	0.25	0703	0.43	0641	0.62	
	1332	2.85	1309	3.25	1243	3.50	1225	3.82	
	1953	-0.05	1925	0.21	1852	0.41	1836	0.60	
19 SU	0142	3.36	0121	3.68	0052	4.05	0037	4.30	19 SU
	0842	0.03	0803	0.26	0733	0.44	0711	0.62	
	1400	2.87	1338	3.27	1313	3.52	1255	3.82	
	○ 2024	-0.07	1956	0.20	1921	0.37	1906	0.59 ○	
20 MO	0210	3.37	0152	3.66	0121	4.03	0106	4.26	20 MO
	0910	0.05	0833	0.26	0803	0.44	0740	0.63	
	1428	2.90	1407	3.26	1341	3.51	1324	3.80	
	2056	-0.09	2027	0.19	1952	0.35	1937	0.60	
21 TH	0241	3.37	0223	3.63	0150	4.02	0134	4.21	21 TH
	0940	0.03	0904	0.25	0834	0.43	0812	0.63	
	1501	2.92	1437	3.24	1410	3.50	1353	3.77	
	2131	-0.09	2101	0.20	2026	0.35	2012	0.64	
22 WE	0317	3.35	0256	3.61	0222	3.99	0205	4.16	22 WE
	1014	0.01	0938	0.24	0907	0.42	0846	0.64	
	1540	2.88	1511	3.20	1444	3.47	1427	3.73	
	2209	-0.06	2139	0.22	2103	0.40	2048	0.71	
23 TH	0356	3.28	0332	3.56	0258	3.93	0239	4.11	23 TH
	1050	0.00	1013	0.25	0943	0.42	0922	0.68	
	1621	2.80	1549	3.15	1522	3.41	1504	3.66	
	2248	0.01	2218	0.27	2142	0.50	2125	0.80	
24 FR	0436	3.16	0410	3.49	0337	3.83	0317	4.03	24 FR
	1128	0.00	1050	0.27	1020	0.44	0959	0.73	
	1703	2.72	1630	3.10	1603	3.36	1545	3.59	
	2328	0.09	2259	0.33	2222	0.61	2205	0.89	

12 | DECEMBER | 2021

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0518	3.04	0450	3.41	0418	3.72	0358	3.94	25 SA
	1207	-0.02	1129	0.28	1059	0.46	1037	0.78	
	1748	2.69	1715	3.08	1649	3.33	1631	3.56	
			2345	0.38	2307	0.72	2248	0.98	
26 SU	0013	0.17	0535	3.31	0504	3.60	0444	3.83	26 SU
	0603	2.93	1213	0.28	1144	0.48	1122	0.82	
	1253	-0.04	1807	3.10	1742	3.33	1725	3.56	
	1837	2.71					2342	1.06	
27 MO	0106	0.24	0037	0.42	0001	0.83	0540	3.70	27 MO
	0653	2.82	0627	3.20	0557	3.45	1218	0.86	
	1348	-0.06	1306	0.29	1240	0.49	1838	3.61	
	1940	2.78	1913	3.16	1900	3.39			
28 TU	0216	0.29	0141	0.46	0115	0.89	0051	1.12	28 TU
	0757	2.70	0734	3.09	0714	3.32	0656	3.58	
	1454	-0.08	1412	0.30	1350	0.50	1327	0.86	
	2106	2.92	2035	3.29	2020	3.56	1955	3.76	
29 WE	0343	0.24	0300	0.43	0240	0.82	0215	1.06	29 WE
	0922	2.65	0855	3.04	0837	3.28	0814	3.56	
	1606	-0.12	1527	0.25	1501	0.45	1441	0.80	
	2218	3.12	2145	3.47	2124	3.76	2101	3.97	
30 TH	0459	0.11	0416	0.33	0351	0.67	0328	0.90	30 TH
	1036	2.68	1009	3.08	0944	3.31	0923	3.60	
	1713	-0.19	1635	0.16	1606	0.38	1546	0.68	
	2319	3.29	2247	3.63	2222	3.95	2202	4.17	
31 FR	0608	-0.01	0525	0.23	0459	0.53	0433	0.73	31 FR
	1140	2.76	1113	3.17	1046	3.39	1027	3.71	
	1814	-0.24	1737	0.08	1707	0.29	1646	0.56	
			2341	3.76	2314	4.10	2256	4.35	

CONVERSION TABLE, FEET TO METRES

Feet	Metres	Feet	Metres	Feet	Metres	Feet	Metres
0'0"	0.00	8'0"	2.44	16'0"	4.88	24'0"	7.32
3"	0.08	3"	2.51	3"	4.95	3"	7.39
6"	0.15	6"	2.59	6"	5.03	6"	7.47
9"	0.23	9"	2.67	9"	5.11	9"	7.54
1'0"	0.30	9'0"	2.74	17'0"	5.18	25'0"	7.62
3"	0.40	3"	2.82	3"	5.26	3"	7.70
6"	0.49	6"	2.90	6"	5.33	6"	7.77
9"	0.58	9"	2.97	9"	5.41	9"	7.85
2'0"	0.61	10'0"	3.05	18'0"	5.49	26'0"	7.92
3"	0.70	3"	3.12	3"	5.56	3"	8.00
6"	0.79	6"	3.20	6"	5.64	6"	8.08
9"	0.88	9"	3.28	9"	5.71	9"	8.15
3'0"	0.91	11'0"	3.35	19'0"	5.79	27'0"	8.23
3"	1.01	3"	3.43	3"	5.87	3"	8.31
6"	1.10	6"	3.51	6"	5.94	6"	8.38
9"	1.19	9"	3.58	9"	6.02	9"	8.46
4'0"	1.22	12'0"	3.66	20'0"	6.10	28'0"	8.53
3"	1.31	3"	3.73	3"	6.17	3"	8.61
6"	1.40	6"	3.81	6"	6.25	6"	8.69
9"	1.49	9"	3.89	9"	6.32	9"	8.76
5'0"	1.52	13'0"	3.96	21'0"	6.40	29'0"	8.84
3"	1.60	3"	4.04	3"	6.48	3"	8.92
6"	1.68	6"	4.11	6"	6.55	6"	8.99
9"	1.75	9"	4.19	9"	6.63	9"	9.07
6'0"	1.83	14'0"	4.27	22'0"	6.71	30'0"	9.14
3"	1.91	3"	4.34	3"	6.78	3"	9.22
6"	1.98	6"	4.42	6"	6.86	6"	9.30
9"	2.06	9"	4.50	9"	6.93	9"	9.37
7'0"	2.13	15'0"	4.57	23'0"	7.01	31'0"	9.45
3"	2.21	3"	4.65	3"	7.09	3"	9.52
6"	2.29	6"	4.72	6"	7.16	6"	9.60
9"	2.36	9"	4.80	9"	7.24	9"	9.68

LIST OF WRECKS IN KARNAPHULI RIVER AND OUTER ANCHORAGE AREA

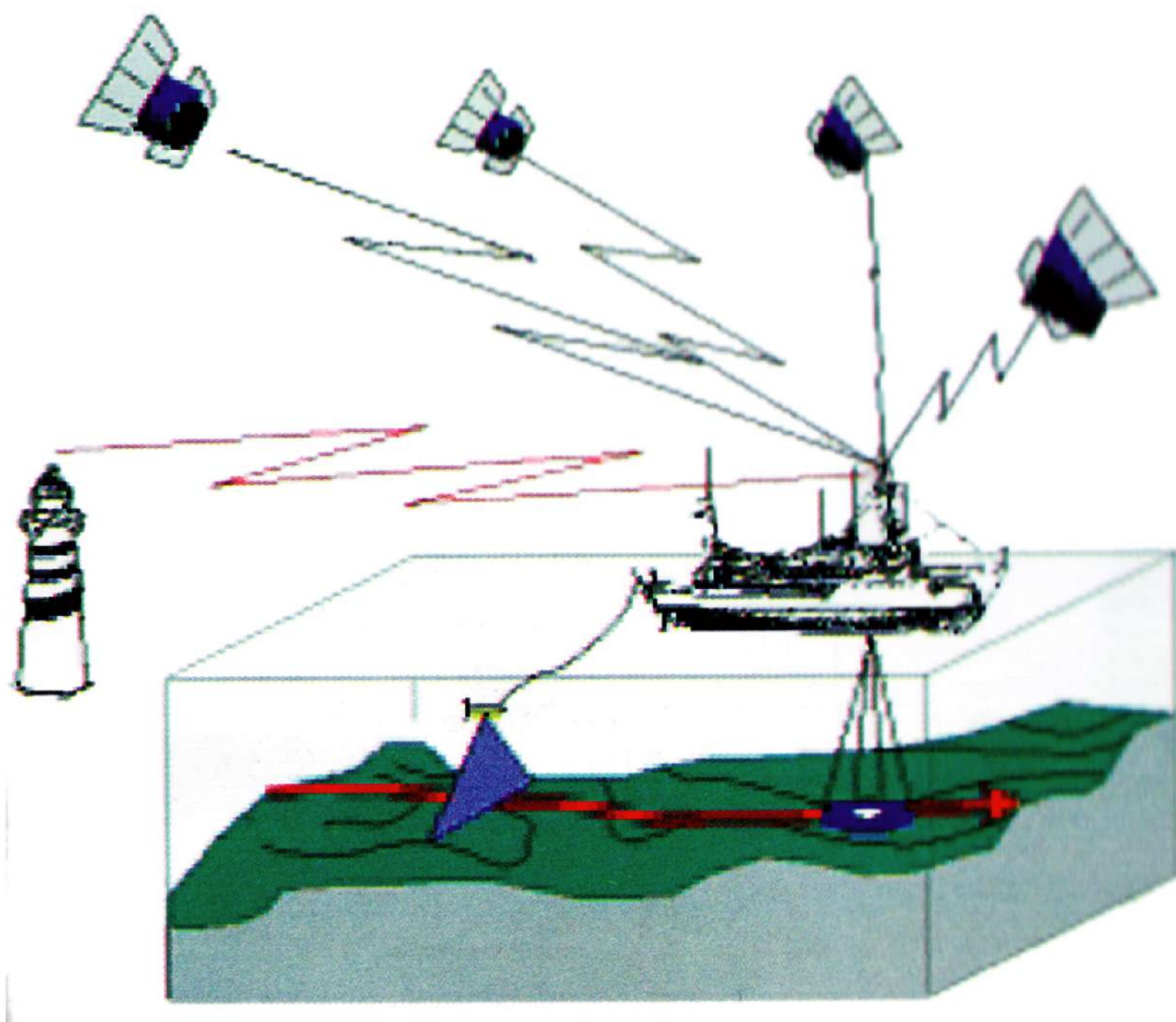
(Based on Hydrographic Survey Charts: 2012-13)

Co-ordinate system: BUTM

Ellipsoid: WGS 84

Sl.	Name of Wrecks	Geo-Position		Location
		Latitude	Longitude	
1	S. S. Thetic	22° 08' 00.600"	091° 45' 45.000"	Anchorage Area "C"
2	MV Kawana	22° 12' 37.469"	091° 47' 59.915"	Outer Bar Area
3	MV United Star	22° 12' 35.213"	091° 48' 03.784"	Outer Bar Area
4	MV Tina	22° 14' 23.346"	091° 46' 21.674"	Out side of Anchorage "A"
5	MV Sea Master-1	22° 15' 25.642"	091° 45' 43.008"	Out side of Anchorage "A"
6	MV Bangal Bridge	22° 18' 13.920"	091° 43' 03.598"	Anchorage Area "A"
7	MV Firoz Farjana	22° 14' 09.048"	091° 45' 58.779"	Anchorage Area "A"
8	MV Lita	22° 15' 29.936"	091° 45' 47.514"	Outside Anchorage Area "A"
9	MV Hang Gang-3	22° 15' 23.592"	091° 43' 49.198"	Anchorage Area "A"
10	MV Vishva Kusum	22° 15' 33.901"	091° 44' 18.058"	Anchorage Area "A"
11	MV Fortune	22° 17' 14.730"	091° 44' 02.598"	Anchorage Area "A"
12	MV BIWTC-1063	22° 17' 37.453"	091° 42' 46.430"	Anchorage Area "A"
13	MV Sea Horse	22° 18' 46.745"	091° 49' 01.063"	Near National Cement Factory
14	MV Ocan Pearl	22° 14' 49.954"	091° 46' 41.182"	Near Patenga Seabeach
15	MV Hyang Ro Bow	22° 12' 24.174"	091° 43' 45.426"	Anchorage Area "B"
16	MV Chattagram	22° 14' 13.860"	091° 45' 35.999"	Anchorage Area "A"
17	MV Sea Samrat	22° 15' 27.834"	091° 45' 41.500"	Outside of Anchorage "A"
18	MV Kader	22° 17' 13.736"	091° 43' 28.125"	Anchorage Area "A"
19	MV Mayur pankhi	22° 10' 26.134"	091° 48' 22.755"	Near Gohira
20	MV Sristy Sohan	22° 17' 58.290"	091° 43' 42.733"	Anchorage Area "A"
21	Unknown Wreck	22° 14' 09.600"	091° 46' 31.199"	Outside of Anchorage "A"

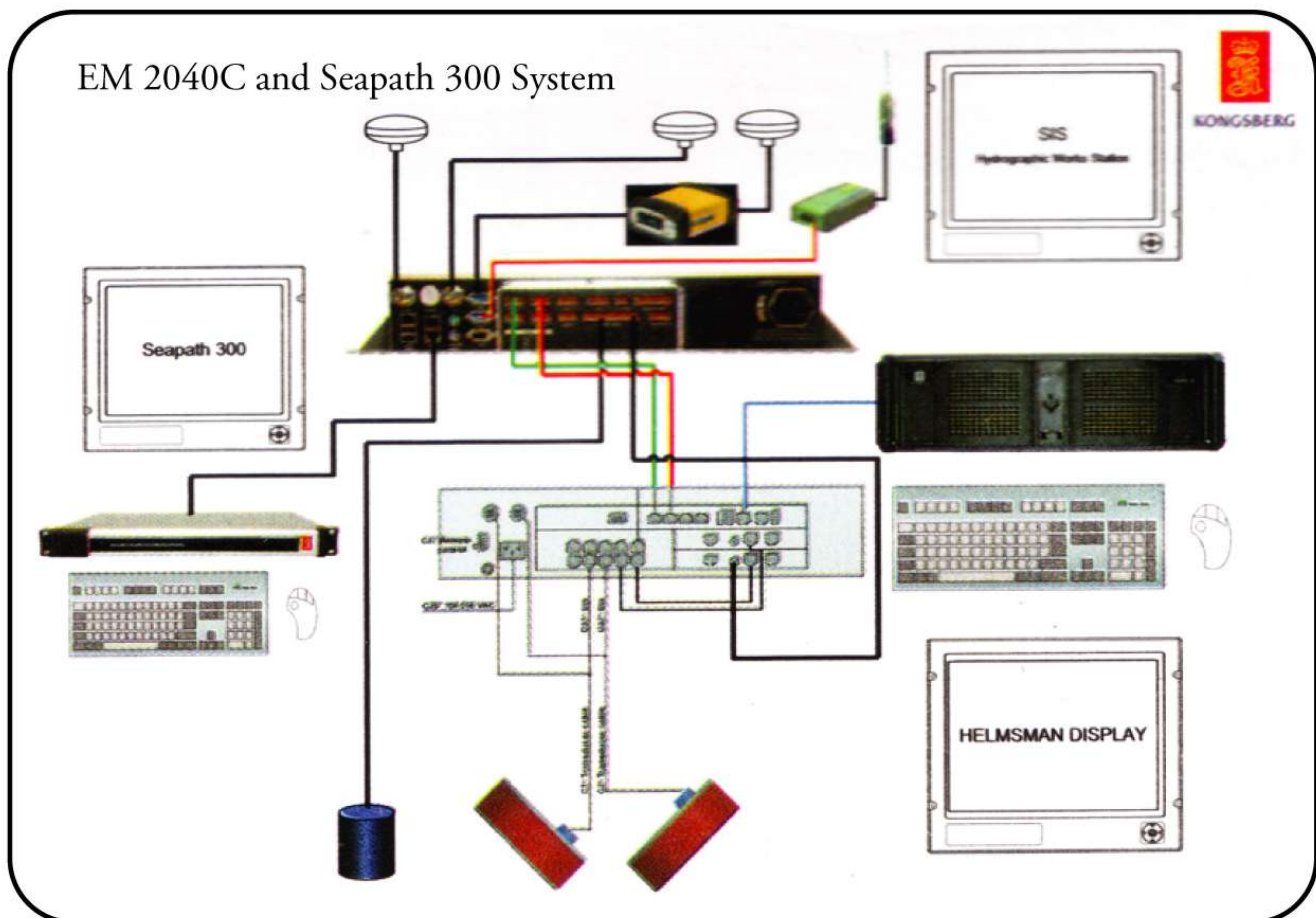
*Auto Tide Gauge Station
&
Hydrographic Survey Equipment*



**Hydrographic Department
CHITTAGONG PORT AUTHORITY**



Remotely Operated Vehicle: **RB-600 (Eprons, Latvia)**



Multi-Beam Echo-Sounder: **Kongsberg- EM 2040C**



Multi-Parameter Water quality measuring meter



Differential Global Positioning System (DGPS)- **JAVAD GNSS**



Acoustic Doppler Current Profiler- **SonTek ADP**



Digital Level - **Sokkia SDL-30**



Side Scan Sonar - **Edgetech 4125**



Sound Velocity Profiler- **AML Minos.X**



Sub Bottom Profiler- **Edgetech 3100P**



Echo Sounder- **Navisound 420**



Auto Tide Gauge Station at **Kalurghat**



Auto Tide Gauge Station at **Dock Office**



Auto Tide Gauge Station at **Khal 18**



Auto Tide Gauge Station at **Kaptai**





CHITTAGONG PORT LIMIT AREA

KARNAPHULI & OUTER ANCHORAGE

