

KARNAPHULI RIVER

TIDE TABLES

2022



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



CHITTAGONG PORT AUTHORITY

Country moves with us

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KARNAPHULI RIVER

Handbook of Tide Tables

2022



Department of Hydrography
CHITTAGONG PORT AUTHORITY

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Tide Tables 2022

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

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Department of Hydrography
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Bangladesh

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CHITTAGONG PORT AUTHORITY

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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.



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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

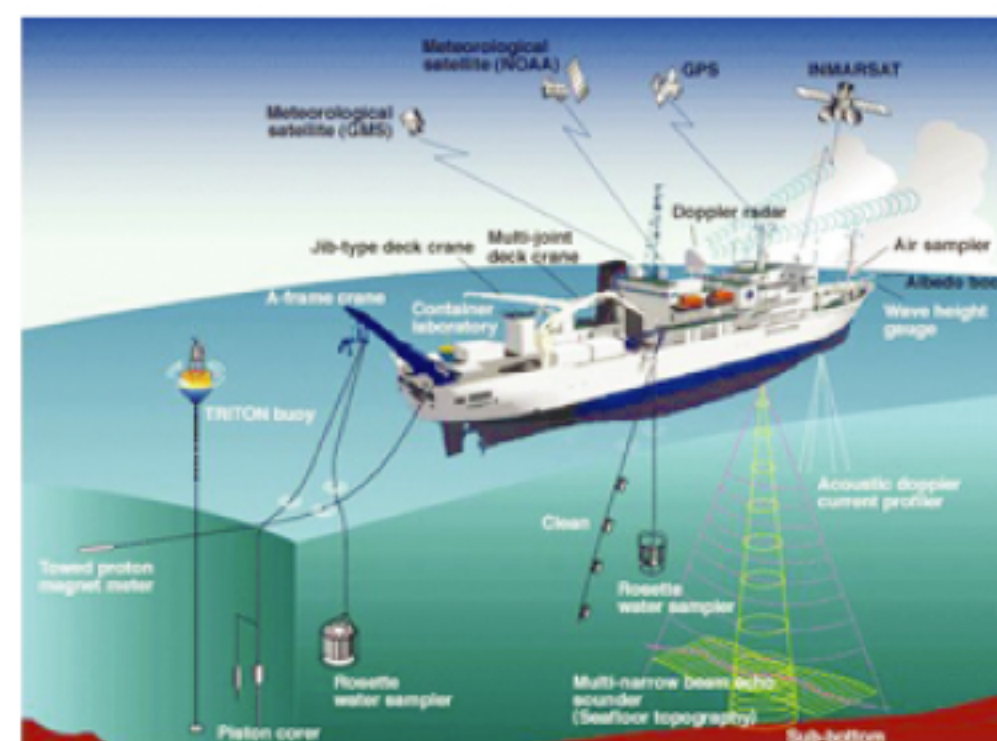
- | | |
|-----------------------------|-----------------|
| • Chairman | +88 031 2510870 |
| • Member (Admin & Planning) | +88 031 2526004 |
| • Member (Finance) | +88 031 2510871 |
| • Member (Engineering) | +88 031 2510872 |
| • Member (Harbour & Marine) | +88 031 2510873 |
| • Deputy Conservator | +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 on 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

Physical Properties

Length (OA): 83.5 m

Length (BP): 80 m

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

Suction pipe diameter: 0.55 m

Number of dredging pipes: 2

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

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PHASES OF THE MOON 2022
(DAY: HOUR: MINUTE)

MONTH	NEW MOON	FULL MOON
January	03:00:33	18:05:49
February	01:11:46	16:22:57
March	02:23:35	18:13:17
April	01:12:24	17:00:55
May	01:02:28	16:10:14
	30:17:30	
June	29:08:52	14:17:52
July	28:23:55	14:00:37
August	27:14:17	12:07:36
September	26:03:54	10:15:59
October	25:16:49	10:02:55
November	24:04:57	09:17:02
December	23:16:17	08:10:08

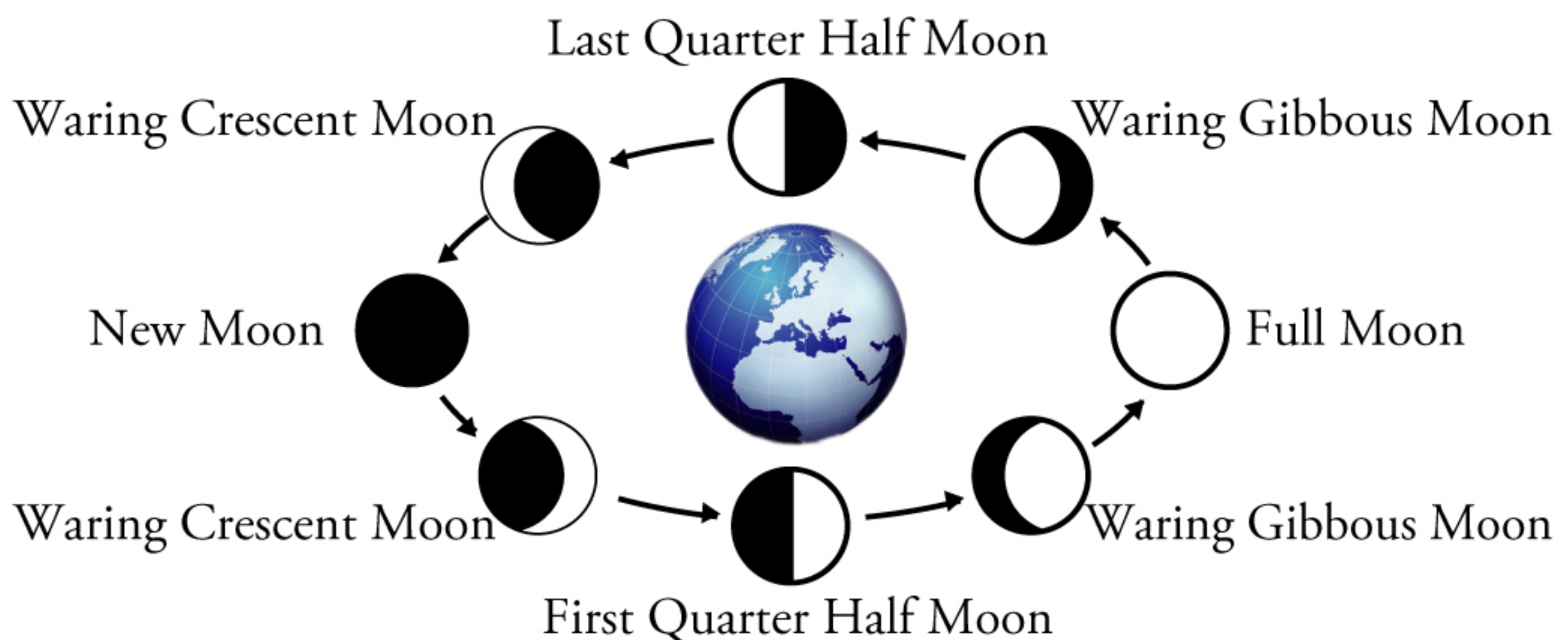
PHASES OF THE MOON 2022
(DAY: HOUR: MINUTE)

Month	First Qtr.	Last Qtr.
January	10:00:11	25:19:41
February	08:19:50	24:04:32
March	10:16:45	25:11:37
April	09:12:47	23:17:56
May	09:06:21	23:00:43
June	07:20:48	21:09:11
July	07:08:14	20:20:18
August	05:17:06	19:10:36
September	04:00:08	18:03:52
October	03:06:14	17:23:15
November	01:12:37	16:19:27
	30:20:36	
December	30:07:21	16:14:56

LIST OF CPA TIDE GAUGE STATION

SL	TIDE GAUGE STATION (AUTO)	POSITION(AP.)
01	KHAL NO- 18	22°13'33"N 91°48'18"E
02	KHAL NO- 10	22°16'1.5"N 91°49'27"E
03	KALURGHAT	22°23'51"N 91°53'17"E
04	KAPTAI	22°29'37.5"N 92°11'34.5"E
05	SADARGHAT	22°19'27"N 91°50'0.5"E
06	DOCK OFFICE	22°18'06.8"N 91°47'47.7"E
07	SITAKUNDA	22°-30'-01.74"N 091°-41'-32.70"E
08	SANGU RIVER	22°-08'-11.19516"N 091°-50'-36.21768"E
09	MATARBARI	21°-42'-18.6981"N 091°-52'-24.5324"E
10	KUTUBDIA	21°-49'-21.26388"N 091°-54'-36.11016"E
11	REZUKHAL	21° 17' 41.892"N 091°03'4.787"E
12	BAY TERMINAL	

PHASES OF THE MOON



HIGHEST & LOWEST TIDE OF 2021
IN SELECTED TIDE STATION

KALURGHAT AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
4.98	13:15	26/05/21	-0.64	10:35	02/03/21

SADARGHAT STATION (MANUAL)

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.40	12:40	26/05/21	-0.35	10:00	02/03/21

KHAL NO-10 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.80	12:20	26/05/21	-0.20	09:00	29/05/21

KHAL NO-18 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
6.40	12:15	26/05/21	-0.10	08:00	28/05/21

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 | 2022

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0012	3.44	0627	0.16	0600	0.39	0534	0.57	1 SA
	0709	-0.09	1208	3.28	1141	3.50	1121	3.86	
	1235	2.87	1833	0.03	1804	0.21	1743	0.46	
	1909	-0.28					2343	4.51	
2 SU	0059	3.53	0029	3.86	0002	4.22	0629	0.44	2 SU
	0804	-0.14	0723	0.11	0654	0.29	1209	3.98	
	1324	2.96	1257	3.36	1231	3.61	1836	0.37	
	2001	-0.28	1926	0.00	1856	0.14			
3 MO	0143	3.58	0115	3.90	0047	4.28	0029	4.59	3 MO
	0855	-0.15	0814	0.08	0744	0.22	0719	0.35	
	1410	3.03	1343	3.40	1318	3.68	1256	4.06	
	2051	-0.26	2017	0.01	1945	0.12	1926	0.32	
4 TU	0227	3.59	0201	3.90	0132	4.28	0115	4.61	4 TU
	0943	-0.15	0902	0.07	0831	0.18	0806	0.30	
	1457	3.06	1430	3.41	1404	3.69	1344	4.08	
	2139	-0.19	2106	0.05	2033	0.16	2015	0.34	
5 WE	0313	3.55	0249	3.86	0218	4.23	0201	4.57	5 WE
	1029	-0.14	0947	0.08	0917	0.18	0852	0.29	
	1545	3.05	1518	3.38	1453	3.66	1432	4.05	
	2226	-0.10	2154	0.11	2120	0.25	2102	0.41	
6 TH	0359	3.47	0338	3.79	0306	4.12	0248	4.47	6 TH
	1113	-0.13	1031	0.10	1001	0.20	0936	0.32	
	1633	3.02	1608	3.34	1543	3.61	1521	3.98	
	2313	0.01	2242	0.18	2205	0.38	2147	0.52	
7 FR	0445	3.35	0427	3.69	0355	3.98	0335	4.33	7 FR
	1155	-0.12	1114	0.12	1044	0.23	1019	0.39	
	1721	2.97	1659	3.30	1636	3.56	1612	3.89	
	2359	0.12	2329	0.26	2252	0.52	2233	0.67	
8 SA	0532	3.18	0516	3.54	0448	3.81	0425	4.12	8 SA
	1237	-0.10	1156	0.17	1127	0.30	1103	0.51	
	1813	2.89	1753	3.25	1732	3.50	1708	3.80	
					2343	0.69	2323	0.85	

01 | JANUARY | 2022

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0048	0.24	0018	0.36	0543	3.58	0520	3.86	9 SU
	0622	2.95	0606	3.33	1213	0.43	1151	0.69	
	1321	-0.03	1242	0.26	1830	3.43	1807	3.69	
	1914	2.80	1851	3.17					
10 MO	0147	0.36	0113	0.47	0045	0.86	0022	1.06	10 MO
	0724	2.67	0702	3.06	0641	3.30	0619	3.56	
	1412	0.08	1334	0.40	1306	0.61	1247	0.90	
	2020	2.72	1953	3.09	1932	3.34	1909	3.58	
11 TU	0254	0.44	0215	0.58	0150	0.99	0128	1.22	11 TU
	0833	2.41	0804	2.78	0743	3.02	0724	3.28	
	1510	0.18	1435	0.53	1405	0.78	1349	1.09	
	2125	2.70	2059	3.04	2038	3.30	2016	3.54	
12 WE	0403	0.42	0323	0.64	0301	1.02	0244	1.27	12 WE
	0942	2.24	0918	2.59	0854	2.82	0841	3.11	
	1612	0.21	1541	0.59	1508	0.87	1457	1.17	
	2229	2.75	2206	3.06	2144	3.34	2128	3.59	
13 TH	0527	0.29	0442	0.59	0438	0.90	0415	1.15	13 TH
	1054	2.21	1042	2.57	1014	2.79	1007	3.13	
	1715	0.17	1648	0.54	1620	0.84	1611	1.11	
	2329	2.87	2306	3.16	2243	3.47	2229	3.75	
14 FR	0632	0.09	0551	0.43	0532	0.69	0512	0.96	14 FR
	1201	2.32	1144	2.70	1120	2.91	1103	3.26	
	1813	0.07	1747	0.43	1720	0.72	1707	0.98	
			2356	3.29	2331	3.61	2314	3.91	
15 SA	0018	3.00	0638	0.30	0614	0.54	0554	0.80	15 SA
	0717	-0.06	1228	2.84	1204	3.06	1142	3.40	
	1248	2.45	1833	0.32	1803	0.58	1749	0.84	
	1900	-0.02					2351	4.03	
16 SU	0057	3.09	0037	3.40	0009	3.73	0629	0.70	16 SU
	0754	-0.10	0717	0.22	0649	0.45	1215	3.52	
	1324	2.55	1302	2.96	1238	3.18	1823	0.74	
	1938	-0.06	1910	0.25	1838	0.48			

01 | JANUARY | 2022

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0130	3.14	0111	3.47	0041	3.80	0023	4.10	17 MO
	0827	-0.08	0750	0.20	0720	0.40	0700	0.65	
	1352	2.64	1330	3.05	1306	3.28	1244	3.61	
	○ 2010	-0.08	1943	0.20	1910	0.39	1855	0.66 ○	
18 TU	0158	3.20	0140	3.52	0109	3.86	0052	4.15	18 TU
	0857	-0.05	0821	0.18	0750	0.36	0729	0.59	
	1418	2.76	1357	3.13	1332	3.37	1311	3.69	
	2042	-0.11	2014	0.16	1942	0.32	1926	0.59	
19 WE	0227	3.26	0209	3.57	0136	3.90	0120	4.19	19 WE
	0927	-0.05	0851	0.15	0822	0.31	0800	0.53	
	1448	2.86	1425	3.20	1358	3.45	1339	3.76	
	2117	-0.13	2048	0.12	2017	0.27	2000	0.55	
20 TH	0300	3.30	0240	3.61	0207	3.92	0149	4.22	20 TH
	0959	-0.07	0923	0.12	0855	0.27	0833	0.48	
	1523	2.92	1456	3.23	1429	3.49	1410	3.79	
	2155	-0.11	2125	0.13	2053	0.28	2036	0.55	
21 FR	0337	3.27	0313	3.59	0241	3.89	0220	4.20	21 FR
	1033	-0.09	0956	0.11	0928	0.26	0906	0.47	
	1601	2.90	1531	3.22	1503	3.49	1443	3.78	
	2233	-0.06	2203	0.16	2130	0.33	2111	0.59	
22 SA	0414	3.18	0348	3.54	0316	3.82	0254	4.15	22 SA
	1106	-0.10	1029	0.11	1001	0.25	0939	0.47	
	1638	2.86	1607	3.22	1540	3.48	1519	3.77	
	2311	0.00	2241	0.19	2208	0.40	2147	0.64	
23 SU	0451	3.07	0425	3.46	0354	3.73	0330	4.07	23 SU
	1141	-0.15	1103	0.09	1035	0.22	1012	0.47	
	1716	2.86	1646	3.24	1619	3.50	1558	3.78	
	2351	0.03	2320	0.21	2246	0.45	2224	0.68	
24 MO	0530	2.97	0504	3.38	0434	3.63	0410	3.97	24 MO
	1218	-0.21	1140	0.06	1111	0.20	1048	0.48	
	1757	2.89	1729	3.28	1704	3.52	1643	3.79	
					2331	0.53	2308	0.76	

01 | JANUARY | 2022

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0036	0.06	0005	0.22	0520	3.49	0458	3.81	25 TU
	0614	2.85	0549	3.25	1156	0.24	1134	0.54	
	1303	-0.24	1224	0.07	1757	3.50	1739	3.77	
	1847	2.90	1822	3.28					
26 WE	0134	0.13	0101	0.29	0030	0.66	0006	0.90	26 WE
	0708	2.66	0645	3.05	0617	3.26	0600	3.56	
	1403	-0.18	1322	0.17	1256	0.37	1234	0.69	
	1957	2.85	1938	3.24	1926	3.45	1900	3.73	
27 TH	0300	0.20	0217	0.39	0159	0.76	0129	1.03	27 TH
	0824	2.43	0808	2.82	0751	3.02	0729	3.34	
	1522	-0.10	1442	0.28	1419	0.50	1354	0.83	
	2143	2.88	2110	3.26	2052	3.50	2025	3.77	
28 FR	0427	0.16	0346	0.40	0323	0.73	0300	1.00	28 FR
	1007	2.34	0943	2.75	0918	2.94	0856	3.27	
	1641	-0.10	1606	0.28	1538	0.52	1517	0.84	
	2300	3.02	2227	3.37	2204	3.63	2143	3.90	
29 SA	0552	0.04	0510	0.32	0448	0.61	0422	0.86	29 SA
	1131	2.42	1106	2.85	1041	3.03	1020	3.38	
	1753	-0.15	1721	0.21	1653	0.45	1632	0.75	
			2333	3.51	2307	3.80	2249	4.10	
30 SU	0004	3.18	0624	0.18	0559	0.41	0533	0.64	30 SU
	0705	-0.11	1211	3.03	1147	3.23	1122	3.59	
	1237	2.60	1828	0.11	1800	0.32	1739	0.59	
	1859	-0.21			2359	3.96	2339	4.30	
31 MO	0055	3.31	0026	3.65	0652	0.24	0627	0.45	31 MO
	0801	-0.21	0721	0.06	1236	3.42	1209	3.79	
	1326	2.78	1259	3.20	1853	0.19	1833	0.42	
	● 1955	-0.25	1923	0.03					●

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0137	3.41	0112	3.74	0042	4.08	0023	4.45	1 TU
	0848	-0.24	0808	-0.01	0738	0.13	0713	0.31	
	1407	2.93	1341	3.32	1316	3.57	1251	3.95	
	2044	-0.25	2012	-0.01	1940	0.12	1921	0.31	
2 WE	0216	3.47	0154	3.80	0123	4.14	0103	4.53	2 WE
	0930	-0.23	0851	-0.02	0820	0.08	0755	0.23	
	1446	3.04	1421	3.40	1355	3.67	1332	4.05	
	2129	-0.20	2057	0.00	2024	0.12	2004	0.28	
3 TH	0256	3.47	0236	3.81	0204	4.13	0144	4.54	3 TH
	1010	-0.20	0930	-0.01	0900	0.08	0834	0.21	
	1526	3.09	1502	3.43	1434	3.70	1412	4.09	
	2212	-0.13	2139	0.05	2105	0.17	2046	0.31	
4 FR	0336	3.42	0318	3.78	0244	4.06	0223	4.48	4 FR
	1048	-0.17	1006	0.02	0937	0.10	0912	0.23	
	1605	3.11	1543	3.43	1513	3.70	1452	4.07	
	2252	-0.04	2219	0.11	2144	0.26	2124	0.40	
5 SA	0417	3.32	0359	3.69	0325	3.94	0303	4.35	5 SA
	1122	-0.14	1040	0.05	1010	0.15	0947	0.28	
	1643	3.09	1623	3.41	1552	3.68	1532	4.03	
	2330	0.04	2256	0.17	2220	0.36	2200	0.51	
6 SU	0456	3.18	0439	3.56	0405	3.79	0343	4.17	6 SU
	1153	-0.13	1112	0.08	1040	0.20	1019	0.37	
	1721	3.03	1702	3.37	1633	3.63	1613	3.95	
			2332	0.24	2254	0.48	2235	0.66	
7 MO	0003	0.11	0518	3.37	0447	3.58	0425	3.93	7 MO
	0535	2.97	1144	0.14	1110	0.31	1053	0.53	
	1219	-0.10	1744	3.28	1717	3.52	1657	3.82	
	1803	2.92			2334	0.65	2314	0.87	
8 TU	0037	0.20	0010	0.34	0535	3.29	0512	3.60	8 TU
	0619	2.69	0601	3.09	1145	0.50	1131	0.78	
	1248	-0.01	1219	0.28	1812	3.34	1750	3.62	
	1855	2.74	1835	3.11					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0125	0.34	0059	0.50	0033	0.88	0009	1.15	9 WE
	0715	2.33	0653	2.73	0631	2.93	0611	3.22	
	1329	0.16	1308	0.51	1235	0.79	1224	1.10	
	2011	2.54	1941	2.91	1921	3.13	1857	3.40	
10 TH	0253	0.45	0212	0.68	0154	1.06	0131	1.39	10 TH
	0836	2.01	0803	2.39	0742	2.59	0725	2.88	
	1501	0.36	1433	0.73	1407	1.04	1348	1.37	
	2134	2.46	2102	2.78	2043	3.02	2018	3.29	
11 FR	0415	0.41	0337	0.73	0315	1.09	0309	1.42	11 FR
	1007	1.89	0944	2.24	0923	2.45	0911	2.76	
	1633	0.35	1601	0.76	1530	1.09	1518	1.41	
	2252	2.56	2229	2.85	2207	3.12	2153	3.40	
12 SA	0558	0.19	0518	0.58	0511	0.85	0453	1.17	12 SA
	1141	2.05	1125	2.43	1107	2.64	1046	2.98	
	1748	0.19	1721	0.60	1658	0.92	1647	1.23	
	2356	2.77	2336	3.06	2313	3.35	2257	3.66	
13 SU	0655	-0.07	0620	0.33	0557	0.59	0540	0.90	13 SU
	1237	2.31	1216	2.71	1156	2.92	1132	3.25	
	1846	0.01	1818	0.40	1749	0.69	1737	0.99	
					2356	3.57	2338	3.90	
14 MO	0042	2.96	0022	3.26	0631	0.41	0614	0.71	14 MO
	0735	-0.20	0700	0.18	1228	3.15	1204	3.47	
	1313	2.53	1251	2.93	1827	0.51	1813	0.79	
	1928	-0.08	1858	0.26					
15 TU	0116	3.09	0057	3.41	0027	3.73	0009	4.07	15 TU
	0809	-0.21	0733	0.11	0702	0.30	0643	0.58	
	1341	2.69	1318	3.10	1253	3.33	1230	3.66	
	2003	-0.10	1932	0.18	1859	0.37	1844	0.64	
16 WE	0144	3.19	0126	3.53	0053	3.85	0036	4.20	16 WE
	0840	-0.17	0804	0.08	0732	0.23	0711	0.47	
	1406	2.85	1343	3.24	1315	3.49	1254	3.82	
	○ 2036	-0.11	2004	0.12	1932	0.25	1914	0.50	○

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0211	3.29	0152	3.63	0119	3.95	0101	4.31	17 TH
	0911	-0.14	0833	0.05	0802	0.16	0741	0.36	
	1432	3.01	1408	3.36	1339	3.63	1319	3.97	
	2109	-0.12	2037	0.07	2006	0.17	1946	0.40	
18 FR	0241	3.37	0220	3.70	0147	4.00	0127	4.39	18 FR
	0942	-0.14	0904	0.02	0834	0.10	0812	0.27	
	1503	3.12	1435	3.44	1407	3.73	1347	4.06	
	2145	-0.12	2112	0.05	2041	0.14	2020	0.36	
19 SA	0315	3.37	0250	3.71	0218	3.99	0157	4.41	19 SA
	1013	-0.15	0935	0.00	0906	0.08	0843	0.23	
	1537	3.15	1507	3.47	1438	3.77	1418	4.09	
	2222	-0.08	2148	0.06	2116	0.17	2054	0.38	
20 SU	0350	3.29	0324	3.67	0252	3.92	0228	4.35	20 SU
	1045	-0.17	1006	-0.02	0937	0.06	0914	0.22	
	1612	3.14	1541	3.48	1513	3.79	1452	4.10	
	2258	-0.05	2224	0.08	2151	0.20	2127	0.41	
21 MO	0426	3.17	0359	3.59	0328	3.84	0303	4.26	21 MO
	1116	-0.23	1038	-0.06	1009	0.03	0945	0.22	
	1647	3.14	1618	3.51	1551	3.82	1529	4.11	
	2334	-0.05	2300	0.08	2227	0.24	2202	0.46	
22 TU	0503	3.05	0438	3.49	0408	3.73	0342	4.11	22 TU
	1151	-0.30	1113	-0.09	1043	0.02	1019	0.25	
	1727	3.13	1700	3.52	1633	3.81	1612	4.09	
			2341	0.10	2308	0.33	2243	0.57	
23 WE	0016	-0.03	0523	3.32	0453	3.54	0430	3.88	23 WE
	0547	2.89	1155	-0.04	1124	0.12	1102	0.39	
	1233	-0.30	1752	3.44	1724	3.68	1705	3.97	
	1816	3.04					2338	0.79	
24 TH	0110	0.07	0034	0.22	0002	0.53	0530	3.54	24 TH
	0642	2.62	0618	3.03	0549	3.22	1200	0.68	
	1329	-0.17	1251	0.16	1221	0.39	1820	3.76	
	1924	2.85	1904	3.25	1840	3.45			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0234	0.20	0149	0.42	0132	0.76	0101	1.06	25 FR
	0804	2.29	0745	2.70	0727	2.87	0705	3.19	
	1453	0.02	1413	0.41	1352	0.67	1326	0.99	
	2126	2.76	2049	3.14	2031	3.36	2005	3.66	
26 SA	0410	0.21	0329	0.51	0311	0.79	0250	1.10	26 SA
	1003	2.20	0938	2.60	0915	2.78	0853	3.10	
	1624	0.07	1553	0.48	1528	0.73	1508	1.06	
	2253	2.90	2221	3.23	2158	3.48	2138	3.78	
27 SU	0559	0.02	0517	0.36	0457	0.57	0432	0.87	27 SU
	1142	2.39	1114	2.82	1056	3.01	1031	3.34	
	1758	-0.02	1727	0.35	1702	0.57	1641	0.88	
			2332	3.43	2308	3.71	2250	4.04	
28 MO	0000	3.10	0627	0.11	0558	0.29	0536	0.57	28 MO
	0705	-0.22	1215	3.10	1154	3.31	1128	3.65	
	1243	2.67	1833	0.15	1803	0.35	1744	0.61	
	1906	-0.15			2357	3.91	2338	4.29	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0049	3.27	0024	3.61	0645	0.11	0621	0.35	1 TU
	0754	-0.33	0716	-0.04	1234	3.55	1208	3.91	
	1325	2.89	1258	3.32	1850	0.19	1830	0.39	
	1955	-0.21	1922	0.03					
2 WE	0127	3.39	0105	3.74	0035	4.05	0015	4.47	2 WE
	0835	-0.32	0756	-0.08	0724	0.02	0700	0.21	
	1359	3.07	1332	3.47	1306	3.73	1242	4.11	
	2038	-0.21	2004	-0.02	1931	0.11	1911	0.26	
3 TH	0201	3.47	0140	3.83	0109	4.14	0049	4.58	3 TH
	0912	-0.27	0832	-0.08	0801	0.00	0736	0.14	
	1430	3.21	1404	3.59	1337	3.87	1315	4.26	
	2116	-0.18	2042	-0.01	2009	0.08	1948	0.21	
4 FR	0235	3.51	0216	3.88	0144	4.16	0123	4.62	4 FR
	0946	-0.21	0905	-0.05	0834	0.01	0809	0.12	
	1502	3.30	1438	3.65	1408	3.95	1348	4.33	
	2153	-0.12	2118	0.03	2045	0.12	2024	0.24	
5 SA	0312	3.49	0253	3.86	0219	4.11	0158	4.57	5 SA
	1017	-0.18	0935	-0.02	0905	0.05	0841	0.14	
	1536	3.33	1512	3.65	1441	3.96	1422	4.34	
	2228	-0.06	2152	0.08	2119	0.18	2057	0.31	
6 SU	0349	3.39	0329	3.77	0255	4.00	0233	4.45	6 SU
	1045	-0.16	1004	0.00	0932	0.09	0911	0.20	
	1610	3.31	1547	3.63	1515	3.94	1456	4.29	
	2300	-0.01	2223	0.12	2149	0.25	2127	0.40	
7 MO	0425	3.24	0405	3.64	0331	3.85	0309	4.28	7 MO
	1111	-0.16	1032	0.01	0958	0.13	0939	0.28	
	1644	3.25	1621	3.58	1549	3.88	1531	4.21	
	2329	0.01	2253	0.15	2218	0.32	2156	0.51	
8 TU	0500	3.04	0439	3.46	0407	3.66	0345	4.05	8 TU
	1136	-0.16	1100	0.05	1025	0.21	1007	0.42	
	1719	3.14	1657	3.49	1626	3.77	1607	4.08	
			2325	0.22	2250	0.45	2228	0.70	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0000	0.05	0516	3.20	0446	3.39	0424	3.74	9 WE
	0537	2.77	1130	0.17	1055	0.39	1037	0.66	
	1203	-0.10	1737	3.31	1708	3.55	1648	3.85	
	1759	2.93			2329	0.69	2307	0.99	
10 TH	0037	0.17	0003	0.37	0532	3.03	0510	3.34	10 TH
	0621	2.42	0558	2.86	1132	0.70	1115	1.03	
	1239	0.07	1208	0.42	1802	3.25	1743	3.54	
	1852	2.64	1829	3.03					
11 FR	0132	0.37	0058	0.63	0034	1.02	0010	1.36	11 FR
	0722	2.03	0658	2.46	0637	2.63	0622	2.92	
	1327	0.35	1302	0.76	1224	1.11	1214	1.45	
	2027	2.37	1954	2.76	1934	2.97	1914	3.27	
12 SA	0322	0.48	0238	0.84	0224	1.18	0207	1.55	12 SA
	0915	1.80	0839	2.20	0824	2.38	0808	2.71	
	1544	0.59	1509	0.99	1448	1.34	1430	1.66	
	2211	2.41	2139	2.73	2119	2.97	2059	3.28	
13 SU	0455	0.32	0423	0.75	0414	1.03	0411	1.37	13 SU
	1112	2.01	1049	2.39	1035	2.61	1015	2.96	
	1719	0.39	1647	0.83	1625	1.15	1613	1.45	
	2326	2.68	2303	2.98	2241	3.25	2227	3.58	
14 MO	0616	0.03	0546	0.47	0524	0.70	0510	1.02	14 MO
	1212	2.40	1149	2.79	1131	3.01	1108	3.36	
	1822	0.14	1753	0.55	1726	0.83	1713	1.12	
			2355	3.27	2330	3.57	2313	3.92	
15 TU	0016	2.96	0630	0.24	0601	0.44	0546	0.74	15 TU
	0702	-0.16	1225	3.11	1202	3.34	1140	3.70	
	1249	2.72	1836	0.35	1805	0.58	1750	0.84	
	1907	-0.01					2345	4.17	
16 WE	0052	3.16	0031	3.49	0002	3.80	0615	0.55	16 WE
	0739	-0.20	0705	0.13	0633	0.28	1206	3.95	
	1318	2.94	1253	3.34	1226	3.60	1822	0.62	
	1944	-0.06	1911	0.23	1839	0.39			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0121	3.30	0100	3.65	0028	3.96	0011	4.35	17 TH
	0812	-0.17	0736	0.09	0704	0.18	0644	0.39	
	1342	3.13	1317	3.52	1248	3.80	1229	4.17	
	2019	-0.06	1944	0.15	1912	0.25	1853	0.44	
18 FR	0148	3.42	0126	3.77	0053	4.08	0036	4.50	18 FR
	0845	-0.14	0806	0.05	0735	0.10	0713	0.25	
	1408	3.31	1341	3.67	1311	3.99	1253	4.35	
	○ 2055	-0.06	2018	0.10	1947	0.16	1926	0.32 ○	
19 SA	0217	3.51	0153	3.86	0121	4.15	0102	4.61	19 SA
	0917	-0.13	0837	0.00	0807	0.04	0744	0.15	
	1438	3.45	1408	3.78	1339	4.12	1321	4.48	
	2132	-0.06	2054	0.07	2023	0.11	2000	0.26	
20 SU	0250	3.52	0224	3.89	0152	4.16	0132	4.64	20 SU
	0949	-0.15	0909	-0.04	0839	0.00	0816	0.09	
	1511	3.51	1439	3.84	1412	4.19	1353	4.54	
	2209	-0.04	2131	0.06	2059	0.11	2035	0.25	
21 MO	0326	3.46	0258	3.86	0228	4.10	0206	4.59	21 MO
	1022	-0.18	0942	-0.07	0912	-0.03	0848	0.07	
	1547	3.51	1516	3.86	1448	4.22	1428	4.56	
	2246	-0.03	2207	0.07	2135	0.13	2110	0.28	
22 TU	0405	3.35	0337	3.77	0306	4.00	0243	4.47	22 TU
	1055	-0.23	1016	-0.09	0945	-0.03	0922	0.10	
	1625	3.48	1556	3.85	1528	4.21	1507	4.53	
	2323	-0.03	2245	0.08	2212	0.18	2146	0.35	
23 WE	0446	3.19	0419	3.63	0349	3.85	0326	4.28	23 WE
	1131	-0.27	1053	-0.07	1022	0.02	0959	0.20	
	1709	3.40	1641	3.79	1614	4.12	1553	4.43	
			2327	0.14	2255	0.30	2229	0.50	
24 TH	0006	0.00	0507	3.40	0439	3.61	0416	3.99	24 TH
	0533	2.97	1138	0.06	1106	0.22	1044	0.45	
	1215	-0.21	1736	3.61	1708	3.90	1648	4.22	
	1802	3.22			2352	0.54	2326	0.78	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0103	0.11	0021	0.31	0542	3.25	0521	3.59	25 FR
	0633	2.65	0609	3.07	1206	0.58	1146	0.84	
	1314	0.00	1237	0.34	1832	3.58	1808	3.91	
	1919	2.95	1855	3.35					
26 SA	0226	0.23	0139	0.53	0123	0.79	0054	1.08	26 SA
	0815	2.35	0748	2.76	0729	2.95	0706	3.26	
	1441	0.23	1406	0.63	1344	0.89	1320	1.19	
	2115	2.85	2042	3.21	2019	3.45	1956	3.76	
27 SU	0409	0.21	0329	0.59	0317	0.78	0250	1.10	27 SU
	1012	2.38	0946	2.78	0930	2.99	0903	3.31	
	1627	0.26	1558	0.66	1537	0.88	1514	1.19	
	2242	2.98	2215	3.32	2153	3.57	2131	3.89	
28 MO	0551	-0.05	0513	0.36	0448	0.50	0425	0.82	28 MO
	1140	2.69	1111	3.10	1054	3.33	1031	3.66	
	1804	0.07	1730	0.43	1702	0.63	1641	0.91	
	2349	3.18	2324	3.52	2302	3.80	2242	4.16	
29 TU	0651	-0.26	0613	0.12	0543	0.25	0522	0.53	29 TU
	1234	2.98	1206	3.39	1144	3.63	1121	3.99	
	1902	-0.08	1827	0.22	1755	0.41	1735	0.62	
					2346	3.97	2326	4.38	
30 WE	0037	3.33	0013	3.68	0625	0.13	0603	0.35	30 WE
	0736	-0.30	0657	0.02	1219	3.84	1154	4.24	
	1312	3.18	1244	3.59	1837	0.28	1817	0.43	
	1946	-0.11	1910	0.13			2359	4.53	
31 TH	0112	3.43	0049	3.80	0019	4.10	0638	0.25	31 TH
	0813	-0.22	0734	0.02	0701	0.09	1222	4.44	
	1342	3.34	1313	3.73	1245	4.02	1853	0.31	
	2024	-0.08	1948	0.11	1914	0.20			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0141	3.53	0119	3.90	0048	4.20	0028	4.65	1 FR
	0845	-0.14	0805	0.03	0733	0.08	0709	0.19	
	1408	3.48	1340	3.86	1310	4.18	1250	4.60	
	2058	-0.04	2021	0.12	1949	0.17	1926	0.26	
2 SA	0213	3.60	0151	3.98	0120	4.25	0059	4.71	2 SA
	0914	-0.10	0834	0.03	0802	0.08	0738	0.16	
	1436	3.58	1409	3.94	1340	4.28	1320	4.68	
	2131	-0.01	2053	0.14	2021	0.18	1958	0.28	
3 SU	0248	3.58	0226	3.97	0154	4.21	0132	4.67	3 SU
	0942	-0.10	0902	0.04	0830	0.10	0807	0.17	
	1508	3.60	1441	3.94	1412	4.29	1352	4.67	
	2202	0.03	2124	0.17	2052	0.22	2028	0.33	
4 MO	0324	3.48	0300	3.88	0229	4.11	0206	4.56	4 MO
	1009	-0.09	0930	0.05	0857	0.13	0835	0.23	
	1541	3.55	1514	3.89	1444	4.24	1424	4.60	
	2233	0.05	2153	0.20	2121	0.27	2057	0.41	
5 TU	0358	3.32	0334	3.74	0303	3.96	0240	4.39	5 TU
	1037	-0.08	0959	0.08	0924	0.19	0903	0.32	
	1614	3.47	1547	3.82	1517	4.16	1457	4.50	
	2303	0.07	2223	0.22	2150	0.34	2125	0.51	
6 WE	0431	3.13	0407	3.57	0336	3.78	0314	4.18	6 WE
	1105	-0.06	1027	0.13	0952	0.28	0931	0.46	
	1647	3.35	1621	3.72	1551	4.04	1531	4.36	
	2335	0.09	2254	0.27	2222	0.45	2157	0.66	
7 TH	0506	2.90	0441	3.36	0412	3.56	0350	3.93	7 TH
	1134	0.00	1057	0.24	1022	0.45	1002	0.69	
	1724	3.17	1657	3.57	1629	3.85	1609	4.17	
			2330	0.40	2258	0.65	2234	0.90	
8 FR	0011	0.18	0520	3.08	0453	3.26	0433	3.61	8 FR
	0546	2.62	1133	0.46	1058	0.74	1039	1.03	
	1208	0.15	1743	3.33	1713	3.58	1656	3.89	
	1810	2.91			2348	0.94	2325	1.24	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0057	0.35	0017	0.62	0546	2.92	0530	3.25	9 SA
	0639	2.30	0611	2.76	1146	1.13	1131	1.44	
	1253	0.41	1222	0.79	1819	3.26	1806	3.58	
	1913	2.62	1848	3.03					
10 SU	0220	0.53	0129	0.89	0127	1.20	0059	1.54	10 SU
	0801	2.06	0737	2.50	0727	2.67	0715	3.02	
	1401	0.71	1343	1.10	1313	1.48	1314	1.77	
	2109	2.50	2036	2.89	2018	3.14	1956	3.47	
11 MO	0403	0.46	0323	0.92	0306	1.13	0248	1.50	11 MO
	1020	2.21	0946	2.61	0930	2.85	0907	3.20	
	1635	0.67	1555	1.06	1535	1.35	1516	1.64	
	2240	2.72	2210	3.08	2145	3.35	2126	3.67	
12 TU	0518	0.25	0447	0.71	0422	0.87	0406	1.22	12 TU
	1129	2.62	1100	3.02	1038	3.27	1018	3.62	
	1742	0.40	1708	0.80	1641	1.04	1625	1.31	
	2336	3.02	2310	3.38	2243	3.67	2227	3.99	
13 WE	0614	0.06	0543	0.48	0514	0.61	0457	0.93	13 WE
	1211	3.00	1142	3.40	1117	3.66	1059	4.01	
	1832	0.21	1758	0.56	1729	0.75	1711	0.99	
			2351	3.64	2322	3.93	2306	4.28	
14 TH	0016	3.26	0623	0.32	0553	0.42	0533	0.68	14 TH
	0658	-0.01	1214	3.69	1146	3.97	1128	4.33	
	1242	3.27	1839	0.40	1808	0.54	1748	0.73	
	1914	0.13			2353	4.12	2336	4.49	
15 FR	0049	3.43	0024	3.82	0627	0.29	0606	0.48	15 FR
	0736	-0.01	0658	0.24	1213	4.21	1154	4.59	
	1310	3.48	1241	3.89	1845	0.38	1823	0.52	
	1954	0.11	1916	0.31					
16 SA	0119	3.55	0053	3.95	0023	4.25	0003	4.67	16 SA
	0812	0.00	0732	0.17	0701	0.19	0638	0.30	
	1339	3.66	1308	4.05	1240	4.41	1221	4.81	
	○ 2034	0.10	1954	0.25	1923	0.27	1859	0.37	○

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0150	3.64	0123	4.04	0054	4.33	0034	4.80	17 SU
	0848	0.00	0807	0.11	0736	0.11	0711	0.17	
	1411	3.79	1338	4.17	1312	4.56	1253	4.96	
	2115	0.10	2034	0.22	2002	0.21	1936	0.28	
18 MO	0226	3.67	0158	4.08	0129	4.35	0108	4.85	18 MO
	0924	-0.03	0843	0.06	0812	0.05	0747	0.09	
	1447	3.86	1414	4.23	1348	4.63	1329	5.04	
	2156	0.11	2113	0.20	2041	0.18	2015	0.25	
19 TU	0306	3.63	0237	4.04	0209	4.29	0147	4.81	19 TU
	1001	-0.06	0921	0.04	0849	0.04	0824	0.09	
	1527	3.86	1454	4.23	1429	4.63	1408	5.03	
	2236	0.12	2153	0.21	2122	0.20	2054	0.27	
20 WE	0349	3.52	0321	3.94	0252	4.19	0229	4.69	20 WE
	1039	-0.08	1000	0.05	0927	0.08	0903	0.16	
	1611	3.80	1540	4.17	1513	4.57	1452	4.95	
	2318	0.12	2235	0.24	2204	0.26	2135	0.35	
21 TH	0435	3.35	0408	3.79	0339	4.03	0316	4.48	21 TH
	1120	-0.05	1042	0.13	1009	0.20	0945	0.34	
	1659	3.67	1631	4.06	1603	4.43	1541	4.79	
			2322	0.32	2252	0.39	2222	0.53	
22 FR	0005	0.16	0503	3.56	0434	3.79	0411	4.19	22 FR
	0528	3.13	1131	0.31	1058	0.45	1035	0.64	
	1208	0.07	1732	3.85	1702	4.18	1641	4.52	
	1758	3.47			2354	0.60	2323	0.81	
23 SA	0106	0.23	0020	0.47	0550	3.50	0523	3.84	23 SA
	0638	2.86	0613	3.28	1204	0.80	1142	1.04	
	1311	0.29	1236	0.59	1831	3.89	1804	4.21	
	1924	3.22	1855	3.61					
24 SU	0223	0.28	0137	0.64	0119	0.76	0049	1.05	24 SU
	0818	2.70	0751	3.11	0729	3.33	0706	3.63	
	1440	0.46	1406	0.81	1342	1.04	1319	1.31	
	2057	3.13	2029	3.49	2002	3.75	1939	4.05	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0356	0.22	0315	0.66	0255	0.75	0226	1.08	25 MO
	1003	2.82	0934	3.22	0916	3.46	0850	3.75	
	1624	0.42	1549	0.79	1524	1.00	1459	1.27	
	2221	3.19	2156	3.55	2131	3.80	2107	4.10	
26 TU	0523	0.05	0445	0.51	0419	0.57	0355	0.91	26 TU
	1120	3.12	1050	3.50	1030	3.76	1008	4.07	
	1746	0.24	1711	0.59	1642	0.78	1620	1.03	
	2328	3.31	2304	3.68	2239	3.94	2217	4.27	
27 WE	0622	-0.06	0546	0.35	0514	0.42	0452	0.71	27 WE
	1212	3.35	1142	3.74	1119	4.00	1055	4.35	
	1842	0.14	1807	0.44	1734	0.60	1713	0.80	
			2351	3.78	2323	4.05	2302	4.41	
28 TH	0016	3.40	0629	0.30	0556	0.37	0533	0.60	28 TH
	0707	-0.02	1219	3.89	1151	4.17	1127	4.56	
	1249	3.50	1850	0.37	1816	0.49	1754	0.64	
	1926	0.14			2354	4.15	2334	4.53	
29 FR	0050	3.48	0026	3.87	0630	0.35	0607	0.52	29 FR
	0743	0.07	0704	0.30	1215	4.34	1154	4.75	
	1318	3.62	1246	4.02	1852	0.42	1829	0.54	
	2003	0.18	1926	0.37					
30 SA	0120	3.58	0055	3.98	0024	4.25	0003	4.65	30 SA
	0813	0.13	0734	0.28	0701	0.32	0636	0.44	
	1342	3.73	1312	4.14	1242	4.49	1222	4.90	
	● 2036	0.21	1958	0.37	1925	0.38	1901	0.49	●

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0151	3.65	0126	4.06	0056	4.32	0034	4.72	1 SU
	0840	0.12	0802	0.25	0729	0.28	0704	0.38	
	1410	3.80	1341	4.21	1312	4.57	1251	4.96	
	2107	0.23	2028	0.38	1957	0.38	1931	0.48	
2 MO	0224	3.64	0159	4.06	0130	4.30	0107	4.71	2 MO
	0908	0.10	0830	0.23	0758	0.28	0733	0.37	
	1442	3.81	1413	4.20	1345	4.56	1323	4.93	
	2138	0.25	2058	0.40	2027	0.41	2000	0.52	
3 TU	0258	3.55	0234	3.97	0205	4.20	0141	4.61	3 TU
	0938	0.11	0900	0.25	0827	0.32	0802	0.43	
	1515	3.75	1445	4.13	1418	4.49	1355	4.84	
	2209	0.27	2128	0.43	2058	0.47	2030	0.58	
4 WE	0332	3.42	0307	3.84	0238	4.07	0214	4.48	4 WE
	1009	0.14	0931	0.30	0856	0.39	0832	0.52	
	1548	3.67	1518	4.05	1450	4.40	1427	4.74	
	2242	0.28	2159	0.46	2129	0.53	2101	0.66	
5 TH	0406	3.27	0340	3.70	0311	3.93	0248	4.32	5 TH
	1040	0.18	1002	0.37	0927	0.49	0904	0.66	
	1623	3.58	1552	3.97	1525	4.31	1502	4.64	
	2315	0.30	2233	0.50	2202	0.61	2134	0.76	
6 FR	0442	3.10	0415	3.55	0347	3.77	0325	4.15	6 FR
	1112	0.25	1035	0.48	0959	0.64	0938	0.85	
	1701	3.45	1631	3.86	1602	4.18	1541	4.50	
	2352	0.35	2309	0.58	2239	0.74	2212	0.93	
7 SA	0524	2.92	0455	3.38	0428	3.59	0407	3.95	7 SA
	1148	0.37	1112	0.65	1037	0.87	1016	1.11	
	1745	3.27	1715	3.69	1646	3.99	1627	4.30	
			2353	0.73	2325	0.92	2259	1.16	
8 SU	0036	0.45	0544	3.19	0517	3.38	0459	3.73	8 SU
	0613	2.74	1200	0.88	1125	1.16	1107	1.43	
	1232	0.57	1811	3.48	1739	3.76	1722	4.07	
	1839	3.08							

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0137	0.57	0049	0.91	0029	1.11	0001	1.40	9 MO
	0717	2.61	0650	3.03	0629	3.23	0612	3.56	
	1332	0.79	1304	1.12	1231	1.42	1217	1.70	
	1948	2.93	1927	3.33	1902	3.58	1844	3.88	
10 TU	0300	0.60	0208	1.02	0200	1.15	0129	1.51	10 TU
	0854	2.66	0830	3.08	0815	3.32	0754	3.63	
	1514	0.88	1441	1.21	1425	1.46	1403	1.73	
	2126	2.97	2059	3.38	2036	3.64	2014	3.92	
11 WE	0417	0.48	0336	0.94	0313	1.01	0252	1.39	11 WE
	1023	2.98	0953	3.38	0929	3.65	0909	3.95	
	1648	0.70	1608	1.04	1542	1.23	1522	1.50	
	2237	3.18	2209	3.58	2141	3.85	2122	4.12	
12 TH	0518	0.33	0440	0.75	0412	0.82	0352	1.15	12 TH
	1117	3.34	1047	3.75	1020	4.02	1002	4.33	
	1747	0.50	1709	0.82	1639	0.97	1619	1.19	
	2328	3.40	2300	3.81	2232	4.07	2213	4.37	
13 FR	0609	0.24	0531	0.58	0501	0.64	0439	0.90	13 FR
	1159	3.63	1128	4.05	1100	4.35	1042	4.68	
	1838	0.38	1759	0.64	1728	0.75	1706	0.92	
			2342	3.99	2313	4.25	2254	4.60	
14 SA	0010	3.57	0615	0.46	0544	0.49	0520	0.66	14 SA
	0655	0.20	1203	4.27	1135	4.61	1115	4.97	
	1235	3.84	1845	0.54	1814	0.58	1749	0.69	
	1926	0.33			2351	4.39	2330	4.79	
15 SU	0048	3.69	0020	4.12	0626	0.36	0600	0.46	15 SU
	0738	0.19	0657	0.37	1210	4.81	1149	5.21	
	1310	4.00	1237	4.43	1858	0.46	1831	0.52	
	○ 2012	0.31	1930	0.48				○	
16 MO	0125	3.78	0057	4.20	0029	4.48	0007	4.94	16 MO
	0820	0.17	0739	0.31	0707	0.26	0640	0.31	
	1347	4.10	1313	4.52	1248	4.94	1226	5.37	
	2057	0.32	2014	0.45	1942	0.39	1913	0.41	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0205	3.81	0137	4.23	0110	4.52	0048	5.01	17 TU
	0902	0.15	0821	0.26	0748	0.21	0721	0.24	
	1427	4.15	1353	4.56	1329	5.00	1307	5.43	
	2143	0.32	2058	0.44	2026	0.36	1957	0.37	
18 WE	0250	3.78	0221	4.20	0154	4.49	0132	4.99	18 WE
	0945	0.15	0904	0.26	0831	0.21	0804	0.26	
	1513	4.14	1438	4.55	1413	4.98	1352	5.40	
	2228	0.33	2143	0.45	2111	0.36	2042	0.38	
19 TH	0338	3.70	0309	4.12	0241	4.40	0219	4.89	19 TH
	1029	0.18	0948	0.31	0915	0.28	0849	0.36	
	1602	4.08	1528	4.48	1501	4.90	1440	5.29	
	2315	0.33	2230	0.48	2159	0.41	2128	0.45	
20 FR	0430	3.58	0401	4.00	0333	4.27	0309	4.73	20 FR
	1115	0.25	1036	0.42	1002	0.43	0937	0.54	
	1655	3.98	1623	4.36	1554	4.75	1532	5.12	
			2320	0.53	2250	0.49	2218	0.59	
21 SA	0006	0.33	0500	3.85	0432	4.10	0407	4.50	21 SA
	0528	3.43	1130	0.58	1055	0.65	1031	0.81	
	1207	0.37	1726	4.18	1657	4.54	1634	4.87	
	1755	3.81			2350	0.60	2317	0.79	
22 SU	0104	0.34	0017	0.62	0546	3.93	0520	4.26	22 SU
	0639	3.28	0610	3.69	1202	0.92	1138	1.11	
	1311	0.54	1235	0.78	1815	4.30	1750	4.60	
	1910	3.62	1842	3.98					
23 MO	0210	0.34	0124	0.71	0100	0.70	0029	0.98	23 MO
	0802	3.21	0734	3.60	0709	3.85	0646	4.13	
	1431	0.65	1354	0.93	1325	1.10	1300	1.32	
	2028	3.48	2002	3.84	1933	4.12	1910	4.40	
24 TU	0322	0.33	0240	0.77	0212	0.77	0144	1.09	24 TU
	0929	3.30	0901	3.67	0837	3.93	0813	4.19	
	1553	0.64	1517	0.95	1445	1.13	1421	1.36	
	2144	3.42	2121	3.79	2051	4.03	2027	4.30	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0436 1044 1712 2253	0.32 3.48 0.56 3.42	0358 1013 1636 2229	0.77 3.85 0.87 3.81	0328 0948 1606 2159	0.79 4.11 1.03 4.03	0301 0925 1541 2137	1.11 4.38 1.25 4.31	25 WE
26 TH	0539 1138 1813 2345	0.32 3.64 0.48 3.46	0504 1107 1737 2320	0.72 4.01 0.75 3.85	0432 1039 1705 2249	0.76 4.28 0.88 4.07	0408 1018 1642 2229	1.05 4.59 1.09 4.37	26 TH
27 FR	0628 1218 1901	0.37 3.74 0.46	0553 1146 1824 2359	0.68 4.13 0.69 3.92	0519 1116 1750 2327	0.73 4.42 0.77 4.14	0456 1055 1727 2308	0.97 4.77 0.94 4.47	27 FR
28 SA	0024 0707 1250 1940	3.51 0.42 3.83 0.48	0631 1217 1902	0.64 4.23 0.67	0556 1145 1828	0.69 4.56 0.70	0533 1126 1805 2341	0.88 4.93 0.83 4.58	28 SA
29 SU	0057 0740 1318 2016	3.58 0.43 3.91 0.49	0031 0704 1247 1937	4.00 0.59 4.34 0.66	0001 0629 1216 1903	4.24 0.63 4.67 0.65	0605 1157 1838	0.77 5.06 0.77	29 SU
30 MO	0129 0810 1347 2048	3.64 0.40 3.96 0.51	0104 0734 1317 2009	4.07 0.54 4.39 0.67	0035 0701 1249 1936	4.31 0.58 4.73 0.65	0014 0635 1228 1909	4.67 0.68 5.12 0.75	30 MO
31 TU	0202 0841 1418 2119	3.66 0.37 3.97 0.53	0138 0805 1349 2039	4.09 0.53 4.39 0.70	0110 0731 1322 2008	4.31 0.56 4.72 0.68	0047 0705 1259 1939	4.69 0.65 5.10 0.77	31 TU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0234	3.63	0211	4.04	0144	4.26	0120	4.65	1 WE
	0913	0.38	0837	0.54	0803	0.58	0737	0.68	
	1451	3.95	1421	4.34	1355	4.68	1331	5.04	
	2150	0.54	2110	0.72	2040	0.71	2010	0.80	
2 TH	0307	3.58	0244	3.97	0216	4.20	0153	4.59	2 TH
	0946	0.41	0909	0.59	0835	0.63	0810	0.75	
	1525	3.92	1455	4.30	1428	4.64	1404	4.97	
	2224	0.55	2143	0.73	2113	0.73	2043	0.83	
3 FR	0343	3.51	0319	3.89	0250	4.13	0227	4.51	3 FR
	1020	0.45	0943	0.64	0908	0.70	0845	0.85	
	1602	3.87	1531	4.25	1503	4.59	1440	4.91	
	2259	0.55	2217	0.75	2148	0.77	2118	0.88	
4 SA	0422	3.42	0356	3.82	0326	4.06	0304	4.42	4 SA
	1056	0.52	1019	0.73	0944	0.82	0921	0.98	
	1641	3.79	1610	4.18	1541	4.51	1519	4.82	
	2337	0.57	2254	0.79	2225	0.83	2156	0.96	
5 SU	0504	3.33	0436	3.74	0407	3.98	0345	4.32	5 SU
	1134	0.61	1059	0.85	1023	0.97	1001	1.15	
	1724	3.68	1653	4.08	1623	4.39	1602	4.70	
			2334	0.85	2306	0.91	2237	1.08	
6 MO	0018	0.60	0521	3.66	0452	3.89	0432	4.22	6 MO
	0550	3.25	1143	0.98	1108	1.14	1047	1.34	
	1216	0.73	1741	3.95	1710	4.25	1650	4.55	
	1811	3.57			2354	0.99	2325	1.22	
7 TU	0105	0.64	0020	0.93	0547	3.84	0527	4.14	7 TU
	0643	3.22	0614	3.61	1202	1.30	1142	1.51	
	1308	0.85	1236	1.12	1806	4.10	1748	4.39	
	1905	3.47	1839	3.83					
8 WE	0204	0.67	0114	1.00	0053	1.05	0023	1.33	8 WE
	0747	3.27	0723	3.64	0702	3.88	0641	4.16	
	1416	0.94	1343	1.22	1314	1.39	1252	1.60	
	2011	3.41	1950	3.78	1925	4.02	1904	4.31	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0312	0.64	0221	1.02	0202	1.03	0133	1.34	9 TH
	0907	3.44	0842	3.81	0821	4.07	0759	4.35	
	1546	0.91	1506	1.18	1440	1.30	1418	1.52	
	2130	3.45	2105	3.83	2040	4.07	2017	4.36	
10 FR	0420	0.56	0335	0.94	0309	0.94	0245	1.22	10 FR
	1016	3.69	0948	4.07	0923	4.35	0902	4.65	
	1700	0.76	1620	1.03	1548	1.12	1527	1.30	
	2235	3.56	2209	3.96	2141	4.18	2119	4.49	
11 SA	0521	0.47	0440	0.81	0409	0.81	0345	1.02	11 SA
	1113	3.93	1043	4.33	1016	4.63	0955	4.96	
	1802	0.63	1722	0.88	1648	0.94	1625	1.05	
	2330	3.68	2304	4.09	2235	4.31	2213	4.67	
12 SU	0616	0.41	0536	0.69	0503	0.68	0438	0.81	12 SU
	1201	4.12	1130	4.54	1103	4.87	1041	5.24	
	1859	0.56	1818	0.77	1744	0.78	1717	0.83	
			2353	4.21	2324	4.45	2302	4.86	
13 MO	0019	3.79	0628	0.59	0555	0.56	0527	0.62	13 MO
	0708	0.37	1213	4.68	1146	5.06	1124	5.47	
	1246	4.24	1910	0.71	1836	0.66	1808	0.66	
	1952	0.53					2347	5.02	
14 TU	0104	3.88	0038	4.29	0010	4.57	0616	0.48	14 TU
	0757	0.35	0717	0.52	0644	0.45	1207	5.62	
	1328	4.33	1255	4.77	1229	5.19	1857	0.54	
	○ 2043	0.52	2000	0.68	1926	0.57		○	
15 WE	0148	3.93	0123	4.34	0055	4.65	0033	5.13	15 WE
	0845	0.34	0805	0.49	0731	0.39	0704	0.40	
	1412	4.38	1339	4.81	1314	5.25	1253	5.69	
	2132	0.52	2048	0.67	2015	0.51	1945	0.47	
16 TH	0236	3.95	0210	4.35	0142	4.67	0121	5.17	16 TH
	0933	0.36	0853	0.49	0819	0.39	0752	0.39	
	1501	4.39	1426	4.80	1400	5.24	1340	5.68	
	2220	0.51	2136	0.66	2103	0.49	2033	0.45	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0328	3.92	0300	4.32	0231	4.64	0210	5.14	17 FR
	1021	0.41	0941	0.54	0907	0.45	0841	0.46	
	1551	4.36	1517	4.74	1449	5.16	1429	5.60	
	2308	0.48	2224	0.66	2152	0.49	2120	0.47	
18 SA	0421	3.88	0352	4.26	0322	4.56	0300	5.04	18 SA
	1110	0.48	1031	0.63	0956	0.57	0930	0.59	
	1643	4.28	1611	4.64	1541	5.04	1520	5.46	
	2357	0.46	2312	0.67	2241	0.50	2208	0.54	
19 SU	0516	3.81	0448	4.19	0419	4.47	0355	4.90	19 SU
	1202	0.58	1123	0.75	1048	0.73	1022	0.77	
	1737	4.16	1710	4.51	1639	4.87	1616	5.25	
					2333	0.56	2259	0.67	
20 MO	0048	0.45	0003	0.71	0523	4.38	0457	4.74	20 MO
	0617	3.74	0551	4.11	1146	0.92	1119	1.01	
	1259	0.70	1221	0.88	1745	4.65	1720	4.98	
	1838	3.98	1814	4.32			2355	0.86	
21 TU	0142	0.47	0057	0.78	0028	0.67	0608	4.60	21 TU
	0726	3.67	0659	4.04	0632	4.31	1225	1.24	
	1403	0.82	1325	1.02	1253	1.10	1829	4.69	
	1947	3.77	1922	4.12	1852	4.41			
22 WE	0240	0.54	0156	0.90	0127	0.82	0056	1.08	22 WE
	0838	3.65	0811	4.01	0743	4.27	0720	4.53	
	1511	0.90	1434	1.12	1400	1.23	1335	1.39	
	2055	3.58	2031	3.94	1959	4.18	1937	4.45	
23 TH	0341	0.64	0301	1.01	0227	0.98	0200	1.26	23 TH
	0948	3.68	0921	4.03	0852	4.29	0830	4.55	
	1623	0.92	1547	1.15	1512	1.27	1448	1.44	
	2200	3.46	2140	3.83	2107	4.02	2046	4.29	
24 FR	0443	0.72	0408	1.07	0332	1.09	0308	1.35	24 FR
	1050	3.74	1022	4.10	0952	4.36	0932	4.65	
	1737	0.87	1700	1.10	1630	1.19	1603	1.36	
	2302	3.42	2243	3.80	2210	3.98	2152	4.28	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0543 1140 1834 2355	0.75 3.82 0.78 3.45	0511 1112 1757 2334	1.04 4.19 1.00 3.85	0436 1041 1725 2302	1.09 4.47 1.06 4.03	0411 1023 1700 2244	1.31 4.80 1.20 4.36	25 SA
26 SU	0632 1221 1920	0.73 3.91 0.71	0600 1153 1843	0.97 4.29 0.92	0526 1122 1809 2345	1.02 4.59 0.94 4.13	0501 1104 1744 2324	1.19 4.96 1.06 4.49	26 SU
27 MO	0038 0713 1257 1959	3.53 0.68 3.99 0.69	0015 0641 1229 1922	3.93 0.89 4.39 0.88	0606 1159 1847	0.92 4.71 0.87	0541 1139 1821	1.05 5.10 0.97	27 MO
28 TU	0113 0750 1329 2034	3.60 0.64 4.04 0.70	0051 0717 1303 1957	4.02 0.82 4.45 0.87	0023 0642 1233 1922	4.23 0.84 4.78 0.83	0000 0616 1212 1854	4.62 0.93 5.18 0.91	28 TU
29 WE	0145 0824 1359 2106	3.66 0.62 4.08 0.73	0124 0750 1334 2029	4.08 0.79 4.49 0.88	0057 0715 1305 1955	4.31 0.79 4.83 0.82	0033 0649 1243 1925	4.70 0.85 5.22 0.89	29 WE
30 TH	0214 0857 1430 2137	3.72 0.63 4.13 0.74	0155 0823 1404 2100	4.12 0.77 4.52 0.89	0129 0748 1336 2027	4.35 0.76 4.85 0.81	0104 0722 1313 1956	4.75 0.81 5.23 0.86	30 TH

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0245	3.77	0227	4.14	0159	4.39	0135	4.78	1 FR
	0930	0.63	0856	0.77	0821	0.75	0755	0.81	
	1503	4.17	1436	4.54	1408	4.87	1345	5.24	
	2210	0.74	2131	0.88	2100	0.79	2029	0.83	
2 SA	0321	3.80	0301	4.14	0231	4.41	0208	4.79	2 SA
	1006	0.66	0931	0.80	0856	0.77	0831	0.83	
	1541	4.17	1512	4.53	1442	4.86	1419	5.23	
	2245	0.73	2205	0.87	2134	0.78	2104	0.82	
3 SU	0401	3.78	0338	4.12	0306	4.40	0244	4.77	3 SU
	1042	0.71	1007	0.86	0932	0.84	0908	0.90	
	1619	4.11	1550	4.49	1519	4.81	1456	5.18	
	2320	0.73	2239	0.89	2209	0.80	2139	0.84	
4 MO	0441	3.73	0416	4.08	0344	4.37	0322	4.73	4 MO
	1120	0.78	1045	0.94	1009	0.93	0945	0.98	
	1659	4.03	1629	4.41	1558	4.72	1536	5.10	
	2356	0.73	2314	0.90	2244	0.82	2215	0.88	
5 TU	0522	3.70	0456	4.06	0425	4.34	0403	4.69	5 TU
	1159	0.83	1125	1.01	1049	1.03	1025	1.08	
	1740	3.94	1711	4.32	1640	4.62	1618	4.99	
			2351	0.90	2322	0.84	2253	0.93	
6 WE	0034	0.71	0540	4.07	0510	4.34	0448	4.68	6 WE
	0606	3.72	1209	1.08	1133	1.11	1110	1.19	
	1243	0.88	1759	4.21	1728	4.50	1707	4.84	
	1826	3.86					2339	1.00	
7 TH	0119	0.69	0034	0.91	0006	0.86	0543	4.67	7 TH
	0656	3.77	0633	4.09	0604	4.36	1206	1.30	
	1337	0.94	1302	1.15	1229	1.21	1807	4.67	
	1919	3.76	1857	4.09	1824	4.34			
8 FR	0215	0.69	0128	0.96	0102	0.92	0034	1.09	8 FR
	0759	3.82	0741	4.14	0718	4.40	0655	4.71	
	1451	0.99	1413	1.21	1346	1.26	1318	1.38	
	2028	3.65	2010	3.99	1944	4.20	1924	4.55	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0325	0.70	0237	1.00	0214	0.97	0145	1.14	9 SA
	0923	3.90	0859	4.25	0836	4.53	0811	4.84	
	1616	0.95	1537	1.17	1507	1.20	1443	1.32	
	2149	3.62	2127	3.98	2100	4.18	2037	4.54	
10 SU	0438	0.67	0356	0.97	0327	0.94	0301	1.09	10 SU
	1035	4.04	1008	4.42	0941	4.71	0918	5.06	
	1731	0.85	1652	1.06	1617	1.07	1553	1.13	
	2258	3.67	2236	4.06	2207	4.25	2144	4.65	
11 MO	0545	0.61	0506	0.88	0433	0.85	0407	0.94	11 MO
	1137	4.19	1107	4.60	1039	4.92	1018	5.30	
	1840	0.76	1800	0.94	1725	0.92	1656	0.93	
	2359	3.77	2336	4.18	2307	4.40	2244	4.84	
12 TU	0647	0.55	0609	0.77	0535	0.72	0507	0.75	12 TU
	1230	4.33	1159	4.75	1131	5.12	1110	5.55	
	1940	0.68	1900	0.84	1826	0.76	1755	0.73	
							2336	5.06	
13 WE	0052	3.89	0028	4.31	0000	4.58	0603	0.57	13 WE
	0743	0.50	0705	0.67	0632	0.58	1157	5.75	
	1317	4.44	1245	4.87	1218	5.29	1847	0.55	
	○ 2034	0.63	1953	0.77	1919	0.61			○
14 TH	0139	4.00	0116	4.41	0047	4.74	0024	5.25	14 TH
	0835	0.48	0758	0.61	0723	0.47	0656	0.42	
	1401	4.52	1330	4.94	1302	5.39	1242	5.87	
	2123	0.60	2042	0.72	2007	0.50	1936	0.43	
15 FR	0225	4.09	0202	4.48	0133	4.84	0111	5.37	15 FR
	0925	0.49	0847	0.59	0812	0.42	0745	0.34	
	1447	4.55	1416	4.96	1348	5.41	1328	5.92	
	2209	0.58	2128	0.69	2054	0.44	2022	0.36	
16 SA	0313	4.13	0249	4.50	0219	4.87	0157	5.40	16 SA
	1013	0.53	0935	0.62	0859	0.45	0832	0.35	
	1533	4.53	1504	4.92	1434	5.36	1414	5.87	
	2255	0.56	2212	0.68	2138	0.42	2106	0.35	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0401	4.14	0338	4.49	0305	4.85	0243	5.36	17 SU
	1101	0.60	1021	0.69	0945	0.54	0918	0.43	
	1620	4.47	1553	4.84	1521	5.24	1500	5.74	
	2338	0.55	2255	0.69	2222	0.43	2148	0.39	
18 MO	0449	4.11	0427	4.46	0354	4.80	0331	5.26	18 MO
	1147	0.68	1108	0.78	1031	0.67	1003	0.58	
	1707	4.35	1644	4.71	1611	5.07	1548	5.52	
			2338	0.72	2304	0.50	2230	0.51	
19 TU	0021	0.57	0518	4.41	0445	4.72	0421	5.12	19 TU
	0538	4.06	1155	0.89	1118	0.84	1049	0.79	
	1235	0.79	1736	4.52	1705	4.84	1640	5.23	
	1756	4.17			2348	0.65	2314	0.72	
20 WE	0105	0.63	0021	0.80	0542	4.60	0517	4.93	20 WE
	0632	3.96	0613	4.31	1212	1.05	1141	1.07	
	1326	0.92	1246	1.04	1803	4.54	1738	4.86	
	1853	3.92	1832	4.27					
21 TH	0153	0.75	0108	0.95	0037	0.87	0003	1.01	21 TH
	0736	3.83	0713	4.18	0644	4.44	0619	4.72	
	1424	1.06	1345	1.20	1313	1.27	1243	1.36	
	1958	3.63	1934	3.97	1905	4.19	1843	4.48	
22 FR	0247	0.89	0204	1.14	0134	1.13	0102	1.33	22 FR
	0844	3.71	0819	4.04	0751	4.29	0727	4.55	
	1528	1.16	1452	1.34	1418	1.43	1353	1.56	
	2106	3.39	2042	3.71	2012	3.89	1952	4.18	
23 SA	0348	1.01	0310	1.30	0237	1.34	0210	1.56	23 SA
	0952	3.66	0930	3.98	0902	4.22	0840	4.48	
	1645	1.16	1612	1.36	1541	1.46	1516	1.60	
	2215	3.26	2201	3.59	2130	3.75	2112	4.05	
24 SU	0456	1.03	0425	1.32	0351	1.40	0325	1.61	24 SU
	1059	3.71	1040	4.03	1009	4.29	0951	4.58	
	1809	0.99	1733	1.21	1704	1.28	1636	1.43	
	2329	3.29	2315	3.66	2247	3.82	2224	4.15	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0603	0.94	0536	1.21	0504	1.29	0437	1.47	25 MO
	1157	3.83	1136	4.17	1106	4.45	1046	4.78	
	1903	0.80	1828	1.02	1755	1.07	1729	1.22	
					2340	3.99	2313	4.35	
26 TU	0026	3.43	0007	3.81	0553	1.11	0528	1.26	26 TU
	0657	0.82	0627	1.05	1148	4.62	1128	4.99	
	1241	3.96	1220	4.32	1835	0.91	1809	1.04	
	1945	0.70	1910	0.90			2350	4.55	
27 WE	0106	3.56	0045	3.97	0018	4.18	0607	1.06	27 WE
	0740	0.74	0708	0.93	0632	0.95	1201	5.15	
	1317	4.06	1255	4.44	1222	4.77	1842	0.92	
	2021	0.69	1946	0.85	1909	0.82			
28 TH	0136	3.69	0116	4.10	0048	4.34	0022	4.73	28 TH
	0816	0.71	0743	0.85	0706	0.84	0640	0.90	
	1346	4.15	1324	4.54	1252	4.89	1231	5.28	
	● 2054	0.72	2018	0.85	1941	0.76	1912	0.82	●
29 FR	0201	3.82	0144	4.21	0115	4.48	0050	4.88	29 FR
	0848	0.71	0814	0.81	0737	0.75	0712	0.76	
	1414	4.25	1351	4.64	1319	4.99	1258	5.39	
	2125	0.75	2048	0.84	2011	0.70	1942	0.72	
30 SA	0228	3.96	0212	4.30	0141	4.60	0119	5.01	30 SA
	0921	0.71	0846	0.78	0810	0.68	0744	0.66	
	1444	4.34	1420	4.71	1348	5.06	1327	5.47	
	2156	0.75	2118	0.82	2043	0.65	2013	0.64	
31 SU	0301	4.06	0243	4.37	0210	4.69	0149	5.10	31 SU
	0955	0.72	0919	0.77	0843	0.65	0818	0.61	
	1518	4.37	1452	4.74	1421	5.08	1358	5.51	
	2228	0.75	2149	0.81	2115	0.63	2045	0.59	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0338	4.08	0317	4.37	0243	4.73	0221	5.13	1 MO
	1030	0.75	0954	0.81	0918	0.68	0852	0.62	
	1555	4.32	1526	4.70	1455	5.03	1432	5.48	
	2300	0.76	2220	0.82	2147	0.63	2117	0.57	
2 TU	0414	4.05	0352	4.35	0318	4.72	0255	5.11	2 TU
	1106	0.80	1030	0.87	0953	0.74	0926	0.67	
	1631	4.22	1602	4.61	1531	4.94	1507	5.39	
	2332	0.74	2251	0.81	2218	0.63	2149	0.58	
3 WE	0451	4.03	0428	4.34	0355	4.72	0331	5.09	3 WE
	1141	0.83	1105	0.91	1028	0.79	1001	0.73	
	1708	4.13	1641	4.51	1610	4.84	1546	5.27	
			2324	0.78	2251	0.61	2223	0.60	
4 TH	0005	0.69	0507	4.35	0436	4.72	0412	5.07	4 TH
	0529	4.04	1144	0.95	1106	0.85	1040	0.83	
	1220	0.84	1724	4.38	1654	4.69	1631	5.08	
	1750	4.02			2329	0.64	2303	0.67	
5 FR	0043	0.64	0002	0.76	0523	4.67	0500	5.00	5 FR
	0615	4.04	0554	4.35	1154	0.97	1129	1.00	
	1307	0.87	1231	1.01	1745	4.47	1726	4.81	
	1840	3.86	1817	4.19			2353	0.85	
6 SA	0133	0.66	0051	0.82	0019	0.77	0603	4.88	6 SA
	0711	3.97	0655	4.28	0624	4.56	1236	1.22	
	1413	0.97	1336	1.13	1302	1.16	1841	4.52	
	1945	3.63	1929	3.96	1857	4.17			
7 SU	0242	0.75	0157	0.97	0129	0.98	0101	1.08	7 SU
	0840	3.87	0822	4.22	0758	4.48	0731	4.79	
	1543	1.01	1505	1.21	1435	1.23	1409	1.33	
	2122	3.48	2100	3.83	2033	4.01	2010	4.38	
8 MO	0407	0.79	0325	1.06	0259	1.06	0229	1.20	8 MO
	1016	3.94	0946	4.29	0919	4.57	0855	4.89	
	1711	0.94	1634	1.13	1559	1.14	1534	1.20	
	2246	3.52	2224	3.90	2155	4.08	2131	4.47	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0527 1128 1835 2359	0.73 4.10 0.78 3.68	0450 1058 1756 2335	0.98 4.48 0.94 4.09	0419 1029 1723 2307	0.98 4.79 0.92 4.32	0350 1008 1650 2241	1.09 5.14 0.95 4.74	9 TU
10 WE	0640 1226 1937	0.62 4.28 0.61	0604 1156 1859	0.82 4.68 0.74	0532 1125 1824	0.78 5.04 0.65	0502 1105 1752 2334	0.84 5.45 0.66 5.05	10 WE
11 TH	0054 0740 1311 2027	3.88 0.52 4.43 0.52	0028 0704 1243 1948	4.30 0.65 4.84 0.61	0000 0630 1211 1912	4.59 0.55 5.26 0.44	0602 1152 1841	0.55 5.72 0.42	11 TH
12 FR	0136 0831 1351 2111	4.05 0.46 4.53 0.49	0112 0754 1324 2032	4.47 0.54 4.94 0.55	0043 0719 1253 1956	4.83 0.38 5.41 0.31	0018 0651 1233 1925	5.32 0.31 5.90 0.25	12 FR
13 SA	0215 0917 1430 2153	4.19 0.46 4.58 0.50	0153 0840 1405 2114	4.58 0.50 4.99 0.54	0122 0804 1334 2037	4.99 0.30 5.46 0.26	0100 0736 1314 2006	5.50 0.18 5.98 0.18	13 SA
14 SU	0255 1002 1512 2234	4.28 0.50 4.56 0.52	0234 0923 1447 2153	4.64 0.52 4.97 0.56	0202 0847 1415 2117	5.07 0.31 5.41 0.27	0141 0819 1355 2045	5.58 0.16 5.94 0.17	14 SU
15 MO	0336 1045 1554 2312	4.30 0.57 4.49 0.56	0317 1005 1530 2230	4.64 0.59 4.88 0.60	0242 0928 1457 2154	5.07 0.40 5.28 0.33	0222 0900 1436 2123	5.56 0.23 5.80 0.24	15 MO
16 TU	0417 1126 1635 2348	4.28 0.66 4.36 0.60	0359 1045 1613 2306	4.60 0.68 4.73 0.65	0323 1007 1539 2229	5.01 0.53 5.08 0.44	0303 0939 1518 2158	5.47 0.37 5.57 0.36	16 TU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0456 1205 1717	4.21 0.75 4.17	0441 1125 1657 2342	4.53 0.79 4.53 0.73	0404 1046 1624 2304	4.90 0.69 4.83 0.61	0344 1017 1602 2234	5.31 0.57 5.25 0.58	17 WE
18 TH	0023 0538 1245 1803	0.67 4.09 0.86 3.89	0525 1205 1743	4.40 0.93 4.24	0449 1126 1713 2341	4.73 0.90 4.50 0.86	0428 1057 1651 2313	5.08 0.86 4.85 0.91	18 TH
19 FR	0059 0628 1331 1859	0.79 3.88 1.01 3.54	0019 0615 1253 1838	0.88 4.20 1.12 3.87	0541 1217 1810	4.47 1.19 4.08	0519 1147 1749	4.77 1.23 4.38	19 FR
20 SA	0144 0738 1434 2015	0.97 3.62 1.16 3.18	0107 0717 1357 1947	1.11 3.94 1.33 3.51	0031 0648 1327 1920	1.21 4.16 1.46 3.67	0001 0623 1258 1901	1.33 4.42 1.60 3.95	20 SA
21 SU	0255 0902 1548 2137	1.16 3.43 1.21 3.00	0216 0835 1517 2115	1.36 3.73 1.43 3.30	0148 0809 1445 2049	1.53 3.93 1.60 3.44	0114 0744 1425 2030	1.72 4.17 1.77 3.73	21 SU
22 MO	0416 1022 1736 2310	1.19 3.44 1.06 3.08	0340 1004 1702 2257	1.46 3.73 1.30 3.42	0312 0936 1643 2237	1.65 3.94 1.43 3.57	0245 0919 1614 2209	1.87 4.19 1.60 3.88	22 MO
23 TU	0539 1134 1842	1.03 3.63 0.75	0511 1119 1809 2355	1.31 3.94 0.99 3.70	0447 1051 1739 2335	1.47 4.17 1.09 3.89	0420 1033 1714 2304	1.69 4.47 1.27 4.21	23 TU
24 WE	0015 0642 1224 1924	3.34 0.79 3.86 0.55	0613 1207 1852	1.04 4.18 0.78	0542 1138 1818	1.16 4.45 0.84	0518 1118 1753 2340	1.35 4.79 0.99 4.52	24 WE

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0054	3.59	0033	3.95	0009	4.17	0557	1.04	25 TH
	0726	0.63	0655	0.84	0620	0.91	1150	5.05	
	1301	4.02	1242	4.37	1209	4.68	1825	0.79	
	2000	0.50	1927	0.68	1850	0.68			
26 FR	0123	3.77	0102	4.14	0034	4.41	0009	4.79	26 FR
	0803	0.58	0729	0.73	0653	0.74	0629	0.79	
	1330	4.15	1309	4.51	1235	4.86	1218	5.25	
	2033	0.53	1958	0.66	1920	0.57	1854	0.63	
27 SA	0147	3.94	0127	4.29	0057	4.61	0036	5.01	27 SA
	0836	0.59	0800	0.67	0723	0.60	0659	0.59	
	1356	4.27	1334	4.64	1300	5.01	1243	5.41	
	2104	0.58	2027	0.65	1949	0.49	1922	0.49	
28 SU	0211	4.11	0153	4.42	0120	4.79	0101	5.19	28 SU
	0908	0.60	0831	0.63	0754	0.50	0729	0.43	
	1423	4.38	1359	4.74	1327	5.11	1308	5.54	
	2134	0.60	2056	0.64	2019	0.43	1952	0.38	
29 MO	0239	4.24	0221	4.50	0146	4.92	0128	5.31	29 MO
	0941	0.60	0903	0.61	0827	0.44	0801	0.34	
	1454	4.42	1428	4.77	1357	5.14	1336	5.59	
	2204	0.61	2126	0.63	2050	0.40	2022	0.31	
30 TU	0312	4.28	0251	4.53	0216	4.97	0157	5.35	30 TU
	1016	0.63	0938	0.63	0900	0.44	0834	0.33	
	1529	4.36	1501	4.73	1430	5.09	1407	5.56	
	2235	0.61	2156	0.62	2120	0.39	2053	0.29	
31 WE	0347	4.25	0325	4.51	0250	4.98	0229	5.34	31 WE
	1050	0.67	1012	0.67	0934	0.48	0907	0.37	
	1604	4.24	1536	4.63	1505	4.99	1442	5.44	
	2306	0.59	2227	0.61	2150	0.39	2124	0.30	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0422	4.21	0401	4.48	0327	4.95	0304	5.30	1 TH
	1125	0.68	1047	0.70	1007	0.53	0941	0.44	
	1641	4.10	1614	4.50	1543	4.85	1520	5.27	
	2338	0.53	2300	0.57	2223	0.39	2157	0.35	
2 FR	0501	4.16	0441	4.45	0407	4.90	0344	5.22	2 FR
	1202	0.67	1124	0.74	1044	0.60	1018	0.56	
	1723	3.94	1658	4.32	1627	4.65	1605	5.02	
			2338	0.57	2301	0.47	2236	0.49	
3 SA	0016	0.49	0528	4.37	0455	4.75	0432	5.07	3 SA
	0546	4.06	1210	0.83	1130	0.78	1106	0.80	
	1248	0.71	1752	4.05	1720	4.33	1701	4.66	
	1815	3.70			2350	0.71	2327	0.78	
4 SU	0106	0.56	0027	0.69	0555	4.49	0534	4.79	4 SU
	0646	3.86	0629	4.18	1239	1.06	1213	1.13	
	1355	0.83	1316	1.01	1837	3.94	1820	4.27	
	1926	3.38	1909	3.73					
5 MO	0218	0.73	0137	0.92	0105	1.04	0037	1.15	5 MO
	0830	3.66	0803	4.00	0737	4.25	0710	4.55	
	1525	0.90	1449	1.12	1419	1.20	1354	1.32	
	2120	3.24	2053	3.58	2025	3.78	2002	4.11	
6 TU	0349	0.80	0312	1.05	0247	1.16	0217	1.33	6 TU
	1010	3.73	0939	4.05	0911	4.32	0848	4.60	
	1710	0.80	1632	1.00	1604	1.06	1533	1.17	
	2254	3.39	2229	3.75	2203	3.95	2137	4.30	
7 WE	0526	0.69	0450	0.93	0425	0.99	0352	1.16	7 WE
	1125	3.94	1058	4.27	1027	4.57	1008	4.90	
	1833	0.52	1755	0.71	1723	0.71	1653	0.82	
			2337	4.04	2313	4.30	2246	4.68	
8 TH	0006	3.66	0607	0.68	0536	0.68	0507	0.79	8 TH
	0643	0.49	1155	4.50	1123	4.86	1105	5.25	
	1221	4.14	1851	0.48	1816	0.42	1748	0.48	
	1929	0.33			2359	4.62	2333	5.04	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0055 0737 1303 2013	3.90 0.35 4.28 0.28	0026 0701 1237 1935	4.29 0.48 4.67 0.37	0627 1205 1859	0.41 5.08 0.23	0600 1147 1831	0.44 5.52 0.24	9 FR
10 SA	0131 0823 1338 ○ 2053	4.08 0.31 4.37 0.30	0104 0745 1313 2014	4.47 0.37 4.78 0.35	0035 0710 1241 1938	4.86 0.25 5.22 0.14	0012 0644 1224 1909	5.32 0.18 5.70 0.09 ○	10 SA
11 SU	0202 0904 1412 2130	4.23 0.32 4.43 0.35	0138 0826 1348 2051	4.59 0.34 4.83 0.37	0108 0751 1317 2015	5.04 0.17 5.28 0.12	0047 0724 1300 1946	5.51 0.05 5.78 0.03	11 SU
12 MO	0234 0944 1449 2206	4.32 0.37 4.42 0.40	0214 0905 1426 2126	4.65 0.37 4.81 0.41	0142 0829 1355 2050	5.13 0.18 5.23 0.16	0123 0802 1336 2021	5.60 0.02 5.74 0.06	12 MO
13 TU	0309 1023 1528 2240	4.33 0.44 4.32 0.45	0251 0942 1505 2200	4.63 0.44 4.71 0.46	0217 0906 1433 2122	5.12 0.26 5.09 0.26	0200 0838 1414 2054	5.57 0.10 5.58 0.15	13 TU
14 WE	0346 1100 1607 2311	4.28 0.51 4.16 0.51	0330 1018 1544 2232	4.56 0.54 4.54 0.53	0254 0941 1512 2153	5.03 0.39 4.88 0.39	0236 0913 1452 2126	5.45 0.23 5.35 0.29	14 WE
15 TH	0422 1134 1644 2340	4.18 0.59 3.95 0.57	0408 1053 1622 2304	4.45 0.63 4.31 0.61	0330 1014 1551 2222	4.89 0.54 4.62 0.55	0313 0946 1531 2158	5.26 0.43 5.04 0.51	15 TH
16 FR	0459 1207 1724	4.03 0.66 3.68	0446 1128 1703 2336	4.30 0.75 4.03 0.74	0409 1047 1633 2253	4.68 0.73 4.30 0.79	0351 1021 1614 2231	5.01 0.69 4.65 0.83	16 FR

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0008	0.66	0529	4.08	0452	4.39	0433	4.68	17 SA
	0541	3.79	1208	0.92	1126	1.00	1101	1.05	
	1243	0.77	1750	3.68	1721	3.89	1704	4.19	
	1810	3.32			2331	1.15	2311	1.26	
18 SU	0041	0.83	0016	0.96	0546	4.01	0526	4.27	18 SU
	0634	3.46	0622	3.78	1227	1.34	1202	1.48	
	1338	0.94	1305	1.15	1829	3.45	1814	3.73	
	1917	2.93	1855	3.28					
19 MO	0131	1.08	0115	1.26	0029	1.58	0011	1.73	19 MO
	0806	3.15	0740	3.47	0713	3.65	0651	3.90	
	1502	1.05	1428	1.32	1401	1.56	1340	1.75	
	2101	2.71	2029	3.04	2008	3.18	1950	3.48	
20 TU	0336	1.23	0255	1.44	0236	1.78	0206	1.98	20 TU
	0945	3.11	0917	3.39	0853	3.58	0833	3.84	
	1630	0.95	1603	1.25	1544	1.47	1527	1.64	
	2242	2.87	2222	3.18	2209	3.37	2143	3.68	
21 WE	0507	1.02	0431	1.30	0416	1.56	0350	1.77	21 WE
	1102	3.33	1046	3.61	1022	3.84	1007	4.14	
	1801	0.65	1731	0.94	1708	1.09	1645	1.26	
	2349	3.24	2327	3.56	2311	3.79	2243	4.11	
22 TH	0614	0.70	0544	0.98	0519	1.17	0456	1.35	22 TH
	1157	3.62	1141	3.93	1114	4.20	1057	4.53	
	1850	0.40	1819	0.66	1748	0.76	1726	0.92	
					2345	4.16	2320	4.51	
23 FR	0029	3.58	0006	3.89	0557	0.84	0536	0.97	23 FR
	0701	0.48	0629	0.73	1147	4.49	1131	4.84	
	1236	3.84	1217	4.18	1820	0.55	1758	0.66	
	1928	0.30	1855	0.52			2348	4.82	
24 SA	0059	3.81	0036	4.14	0009	4.45	0608	0.67	24 SA
	0739	0.40	0704	0.58	0630	0.62	1158	5.07	
	1306	3.99	1245	4.35	1212	4.69	1828	0.48	
	2001	0.32	1927	0.47	1850	0.42			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0123	3.98	0101	4.31	0031	4.68	0014	5.05	25 SU
	0813	0.40	0736	0.50	0701	0.46	0638	0.45	
	1332	4.10	1309	4.47	1237	4.85	1222	5.23	
	● 2032	0.37	1956	0.46	1920	0.33	1856	0.32	
26 MO	0147	4.14	0126	4.43	0054	4.86	0039	5.22	26 MO
	0847	0.42	0808	0.45	0732	0.34	0709	0.28	
	1358	4.20	1334	4.56	1303	4.95	1246	5.35	
	2103	0.40	2026	0.44	1950	0.26	1926	0.20	
27 TU	0214	4.27	0153	4.51	0120	5.00	0104	5.35	27 TU
	0922	0.42	0842	0.42	0806	0.27	0741	0.18	
	1430	4.23	1403	4.60	1333	4.97	1314	5.41	
	2135	0.40	2057	0.41	2021	0.21	1956	0.13	
28 WE	0247	4.31	0224	4.53	0151	5.05	0134	5.40	28 WE
	0958	0.43	0917	0.42	0840	0.26	0815	0.15	
	1505	4.18	1436	4.55	1406	4.91	1346	5.36	
	2207	0.38	2130	0.39	2053	0.20	2028	0.12	
29 TH	0322	4.28	0300	4.51	0226	5.04	0207	5.37	29 TH
	1034	0.45	0953	0.44	0915	0.28	0849	0.19	
	1543	4.05	1513	4.44	1444	4.79	1423	5.23	
	2240	0.35	2203	0.38	2126	0.21	2101	0.16	
30 FR	0400	4.20	0339	4.45	0305	4.98	0244	5.29	30 FR
	1110	0.45	1030	0.48	0951	0.34	0925	0.27	
	1622	3.87	1555	4.27	1525	4.62	1503	5.03	
	2315	0.32	2240	0.38	2201	0.27	2137	0.26	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0442	4.07	0422	4.36	0348	4.84	0326	5.15	1 SA
	1149	0.46	1111	0.54	1030	0.45	1005	0.43	
	1708	3.65	1642	4.05	1612	4.37	1551	4.73	
	2357	0.34	2322	0.44	2243	0.44	2219	0.48	
2 SU	0531	3.88	0513	4.20	0438	4.60	0417	4.90	2 SU
	1239	0.51	1201	0.66	1120	0.67	1055	0.71	
	1804	3.36	1741	3.74	1711	4.02	1651	4.35	
					2337	0.75	2314	0.84	
3 MO	0050	0.48	0017	0.62	0544	4.25	0523	4.55	3 MO
	0636	3.60	0620	3.94	1236	0.95	1208	1.05	
	1350	0.62	1311	0.83	1845	3.67	1820	3.98	
	1936	3.07	1911	3.44					
4 TU	0207	0.67	0134	0.85	0101	1.11	0032	1.24	4 TU
	0832	3.41	0759	3.75	0732	4.01	0707	4.28	
	1519	0.63	1445	0.89	1417	1.04	1352	1.19	
	2128	3.08	2101	3.43	2035	3.65	2009	3.94	
5 WE	0346	0.70	0312	0.91	0250	1.15	0220	1.34	5 WE
	1003	3.51	0936	3.81	0907	4.08	0845	4.35	
	1706	0.45	1626	0.72	1603	0.82	1533	0.99	
	2258	3.36	2229	3.70	2209	3.96	2143	4.24	
6 TH	0529	0.50	0450	0.73	0427	0.87	0357	1.07	6 TH
	1115	3.69	1051	4.03	1024	4.32	1005	4.63	
	1818	0.19	1740	0.44	1710	0.49	1644	0.64	
	2359	3.66	2329	4.01	2308	4.31	2244	4.63	
7 FR	0635	0.27	0558	0.47	0528	0.55	0503	0.69	7 FR
	1210	3.85	1146	4.21	1117	4.54	1058	4.92	
	1909	0.08	1831	0.27	1758	0.27	1733	0.37	
					2349	4.57	2325	4.95	
8 SA	0044	3.87	0014	4.21	0615	0.33	0550	0.39	8 SA
	0725	0.17	0648	0.31	1155	4.70	1137	5.12	
	1250	3.94	1226	4.32	1838	0.17	1813	0.20	
	1951	0.10	1913	0.23			2359	5.18	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0117 0808 1322 ○ 2028	4.00 0.17 4.01 0.18	0048 0729 1258 1949	4.34 0.26 4.40 0.24	0020 0655 1227 1914	4.76 0.20 4.81 0.12	0630 1210 1848	0.18 5.25 0.11	9 SU
10 MO	0144 0846 1353 2101	4.11 0.20 4.07 0.23	0118 0807 1329 2022	4.44 0.25 4.46 0.26	0048 0733 1259 1947	4.91 0.14 4.87 0.12	0030 0706 1242 1921	5.34 0.08 5.31 0.07	10 MO
11 TU	0212 0923 1428 2133	4.18 0.24 4.06 0.26	0150 0843 1404 2055	4.49 0.28 4.44 0.29	0119 0808 1335 2019	4.99 0.15 4.83 0.16	0102 0741 1316 1953	5.40 0.06 5.27 0.11	11 TU
12 WE	0244 0958 1505 2203	4.17 0.29 3.95 0.30	0225 0917 1440 2127	4.45 0.34 4.33 0.35	0153 0842 1411 2049	4.96 0.23 4.69 0.25	0136 0815 1352 2024	5.34 0.14 5.12 0.21	12 WE
13 TH	0319 1032 1541 2233	4.08 0.35 3.77 0.35	0302 0950 1517 2158	4.35 0.42 4.14 0.42	0228 0914 1447 2118	4.84 0.34 4.48 0.38	0211 0847 1428 2055	5.19 0.27 4.90 0.36	13 TH
14 FR	0354 1104 1616 2301	3.95 0.40 3.56 0.40	0338 1022 1553 2228	4.21 0.50 3.93 0.50	0302 0945 1523 2147	4.67 0.47 4.25 0.53	0245 0919 1504 2125	4.99 0.43 4.63 0.56	14 FR
15 SA	0429 1134 1653 2330	3.79 0.44 3.33 0.47	0414 1055 1630 2300	4.06 0.58 3.70 0.61	0337 1016 1600 2217	4.47 0.61 3.98 0.74	0320 0951 1543 2158	4.76 0.64 4.33 0.82	15 SA
16 SU	0507 1208 1735	3.58 0.50 3.04	0452 1132 1711 2337	3.87 0.70 3.43 0.78	0415 1051 1643 2253	4.22 0.82 3.66 1.03	0359 1028 1628 2236	4.49 0.91 3.98 1.17	16 SU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0004	0.61	0538	3.61	0459	3.89	0445	4.15	17 MO
	0553	3.30	1220	0.88	1138	1.10	1119	1.26	
	1253	0.62	1807	3.11	1740	3.30	1729	3.61	
	1830	2.73			2340	1.41	2328	1.58	
18 TU	0048	0.83	0027	1.03	0605	3.53	0554	3.79	18 TU
	0655	2.98	0642	3.31	1309	1.35	1246	1.56	
	1407	0.75	1334	1.07	1925	3.08	1906	3.39	
	2007	2.52	1939	2.89					
19 WE	0158	1.07	0151	1.26	0137	1.73	0103	1.88	19 WE
	0853	2.81	0820	3.15	0759	3.36	0739	3.64	
	1540	0.71	1508	1.07	1444	1.31	1427	1.55	
	2200	2.69	2127	3.02	2111	3.24	2047	3.54	
20 TH	0421	0.95	0337	1.19	0323	1.56	0258	1.75	20 TH
	1019	2.98	0952	3.29	0925	3.53	0910	3.81	
	1655	0.51	1626	0.87	1601	1.06	1546	1.29	
	2307	3.08	2239	3.39	2221	3.66	2200	3.95	
21 FR	0529	0.65	0451	0.93	0432	1.20	0410	1.39	21 FR
	1117	3.25	1055	3.58	1028	3.86	1016	4.15	
	1756	0.29	1726	0.62	1657	0.76	1640	0.97	
	2351	3.45	2324	3.76	2303	4.06	2244	4.36	
22 SA	0621	0.40	0545	0.66	0520	0.85	0459	1.01	22 SA
	1201	3.49	1138	3.84	1109	4.14	1058	4.45	
	1841	0.18	1809	0.44	1737	0.53	1719	0.70	
			2359	4.03	2333	4.37	2317	4.67	
23 SU	0025	3.72	0626	0.48	0557	0.59	0536	0.70	23 SU
	0704	0.28	1210	4.02	1140	4.35	1128	4.66	
	1234	3.64	1844	0.36	1812	0.38	1752	0.50	
	1919	0.16			2359	4.60	2345	4.90	
24 MO	0053	3.89	0028	4.21	0632	0.42	0609	0.47	24 MO
	0742	0.24	0703	0.38	1209	4.49	1155	4.81	
	1304	3.75	1239	4.13	1844	0.27	1823	0.34	
	1954	0.18	1917	0.31					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0120	4.03	0055	4.32	0025	4.78	0011	5.06	25 TU
	0820	0.23	0739	0.32	0706	0.30	0643	0.31	
	1333	3.82	1307	4.21	1238	4.57	1221	4.93	
	2029	0.18	1951	0.27	1917	0.18	1855	0.21	
26 WE	0150	4.12	0125	4.38	0055	4.89	0038	5.18	26 WE
	0859	0.23	0817	0.28	0743	0.22	0718	0.20	
	1407	3.85	1338	4.23	1311	4.59	1252	4.99	
	2104	0.16	2026	0.24	1951	0.12	1929	0.13	
27 TH	0224	4.15	0200	4.39	0129	4.94	0111	5.23	27 TH
	0939	0.23	0856	0.27	0821	0.19	0755	0.16	
	1445	3.80	1415	4.19	1348	4.54	1328	4.95	
	2141	0.14	2104	0.21	2028	0.11	2005	0.12	
28 FR	0303	4.10	0239	4.35	0207	4.90	0149	5.19	28 FR
	1019	0.23	0937	0.28	0900	0.20	0834	0.18	
	1527	3.68	1456	4.07	1429	4.42	1409	4.83	
	2218	0.13	2143	0.22	2106	0.15	2043	0.19	
29 SA	0345	4.00	0322	4.27	0250	4.80	0230	5.08	29 SA
	1100	0.24	1018	0.32	0941	0.26	0914	0.27	
	1612	3.50	1543	3.91	1515	4.24	1454	4.63	
	2258	0.15	2226	0.26	2147	0.26	2124	0.34	
30 SU	0432	3.84	0411	4.15	0337	4.62	0316	4.89	30 SU
	1144	0.26	1104	0.38	1026	0.38	0959	0.44	
	1703	3.29	1636	3.70	1607	4.01	1546	4.36	
	2345	0.24	2314	0.36	2234	0.48	2211	0.59	
31 MO	0526	3.62	0507	3.97	0431	4.36	0411	4.63	31 MO
	1239	0.30	1159	0.48	1122	0.57	1054	0.68	
	1809	3.04	1743	3.46	1716	3.73	1653	4.04	
					2334	0.79	2311	0.94	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0043	0.40	0015	0.53	0547	4.04	0524	4.30	1 TU
	0641	3.36	0619	3.73	1239	0.74	1211	0.93	
	1349	0.33	1310	0.58	1855	3.56	1829	3.82	
	1948	2.91	1918	3.30					
2 WE	0206	0.55	0135	0.69	0104	1.05	0036	1.22	2 WE
	0822	3.23	0752	3.58	0725	3.85	0702	4.09	
	1513	0.27	1435	0.58	1408	0.76	1344	0.99	
	2125	3.04	2056	3.40	2034	3.66	2008	3.89	
3 TH	0345	0.50	0306	0.68	0244	1.01	0215	1.23	3 TH
	0945	3.26	0920	3.59	0853	3.86	0831	4.11	
	1640	0.13	1600	0.46	1538	0.61	1512	0.85	
	2242	3.33	2212	3.66	2154	3.95	2131	4.18	
4 FR	0512	0.29	0431	0.53	0411	0.77	0343	1.00	4 FR
	1056	3.35	1033	3.71	1007	3.99	0949	4.27	
	1749	-0.01	1710	0.30	1644	0.41	1621	0.63	
	2340	3.57	2310	3.89	2250	4.22	2228	4.48	
5 SA	0616	0.12	0537	0.35	0510	0.52	0446	0.71	5 SA
	1151	3.42	1128	3.80	1101	4.10	1043	4.42	
	1840	-0.03	1802	0.22	1732	0.31	1709	0.48	
			2354	4.03	2330	4.39	2308	4.69	
6 SU	0023	3.71	0627	0.25	0556	0.36	0533	0.50	6 SU
	0706	0.06	1208	3.85	1139	4.17	1121	4.52	
	1232	3.46	1843	0.21	1811	0.27	1748	0.40	
	1922	0.04					2340	4.83	
7 MO	0057	3.78	0027	4.10	0000	4.51	0612	0.37	7 MO
	0748	0.08	0708	0.23	0636	0.28	1153	4.59	
	1304	3.50	1240	3.90	1210	4.24	1822	0.34	
	1957	0.11	1919	0.22	1845	0.25			
8 TU	0124	3.84	0056	4.16	0027	4.60	0009	4.94	8 TU
	0825	0.12	0745	0.24	0713	0.24	0647	0.30	
	1335	3.55	1310	3.94	1242	4.28	1225	4.64	
	○ 2028	0.13	1951	0.22	1917	0.24	1854	0.31	○

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0151	3.87	0127	4.19	0058	4.65	0041	4.96	9 WE
	0900	0.15	0819	0.26	0747	0.25	0721	0.30	
	1409	3.55	1343	3.93	1317	4.26	1258	4.61	
	2057	0.12	2023	0.24	1947	0.25	1925	0.33	
10 TH	0223	3.84	0202	4.14	0132	4.60	0114	4.89	10 TH
	0933	0.18	0852	0.30	0820	0.32	0753	0.36	
	1444	3.46	1418	3.83	1352	4.15	1332	4.51	
	2126	0.13	2054	0.28	2017	0.32	1956	0.41	
11 FR	0257	3.75	0237	4.03	0205	4.47	0148	4.75	11 FR
	1004	0.22	0924	0.36	0850	0.40	0825	0.46	
	1519	3.32	1453	3.68	1426	3.99	1406	4.34	
	2157	0.17	2125	0.35	2047	0.41	2026	0.53	
12 SA	0331	3.63	0312	3.90	0239	4.33	0221	4.58	12 SA
	1035	0.24	0955	0.41	0921	0.49	0856	0.57	
	1553	3.16	1528	3.52	1500	3.82	1441	4.16	
	2228	0.22	2157	0.41	2117	0.53	2058	0.68	
13 SU	0406	3.51	0348	3.78	0312	4.18	0256	4.41	13 SU
	1107	0.24	1028	0.45	0952	0.57	0928	0.69	
	1629	3.00	1603	3.37	1535	3.65	1519	3.97	
	2300	0.27	2230	0.49	2149	0.68	2132	0.87	
14 MO	0444	3.36	0425	3.65	0348	4.02	0333	4.24	14 MO
	1141	0.25	1104	0.51	1027	0.67	1006	0.85	
	1711	2.83	1644	3.21	1615	3.46	1601	3.76	
	2336	0.37	2308	0.60	2227	0.89	2211	1.10	
15 TU	0527	3.17	0507	3.49	0429	3.81	0415	4.03	15 TU
	1222	0.30	1147	0.61	1110	0.83	1051	1.06	
	1800	2.66	1732	3.04	1704	3.26	1653	3.55	
			2355	0.76	2312	1.15	2259	1.37	
16 WE	0019	0.53	0558	3.28	0520	3.55	0508	3.78	16 WE
	0618	2.94	1241	0.74	1206	1.00	1150	1.28	
	1315	0.38	1840	2.91	1825	3.12	1811	3.40	
	1904	2.53							

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0115	0.71	0054	0.93	0013	1.40	0003	1.60	17 TH
	0723	2.74	0708	3.09	0643	3.33	0632	3.57	
	1430	0.43	1356	0.82	1336	1.07	1318	1.39	
	2053	2.58	2019	2.96	2003	3.21	1944	3.46	
18 FR	0249	0.81	0222	0.98	0215	1.45	0148	1.65	18 FR
	0907	2.69	0838	3.06	0817	3.33	0802	3.57	
	1550	0.34	1517	0.74	1453	0.95	1439	1.28	
	2209	2.89	2135	3.22	2114	3.51	2057	3.73	
19 SA	0430	0.60	0346	0.83	0328	1.20	0308	1.42	19 SA
	1020	2.85	0950	3.21	0924	3.50	0912	3.73	
	1653	0.19	1619	0.57	1551	0.76	1539	1.07	
	2301	3.23	2230	3.55	2207	3.85	2153	4.06	
20 SU	0529	0.36	0447	0.62	0425	0.91	0406	1.12	20 SU
	1113	3.05	1045	3.41	1017	3.70	1008	3.94	
	1745	0.06	1710	0.40	1641	0.57	1627	0.85	
	2342	3.50	2313	3.82	2248	4.15	2235	4.36	
21 MO	0620	0.18	0539	0.43	0514	0.66	0453	0.84	21 MO
	1156	3.20	1128	3.58	1100	3.87	1049	4.12	
	1831	-0.01	1754	0.28	1724	0.42	1708	0.65	
			2351	3.99	2323	4.37	2309	4.58	
22 TU	0019	3.69	0626	0.31	0557	0.47	0535	0.62	22 TU
	0707	0.09	1206	3.69	1138	3.99	1123	4.27	
	1234	3.30	1836	0.20	1805	0.29	1746	0.48	
	1913	-0.04			2357	4.53	2341	4.74	
23 WE	0054	3.80	0025	4.10	0639	0.34	0616	0.46	23 WE
	0752	0.06	0710	0.24	1215	4.07	1156	4.38	
	1310	3.37	1242	3.76	1845	0.19	1824	0.35	
	● 1955	-0.05	1917	0.15					
24 TH	0129	3.86	0101	4.15	0033	4.63	0015	4.86	24 TH
	0837	0.05	0754	0.21	0722	0.26	0657	0.35	
	1348	3.40	1319	3.78	1253	4.11	1233	4.45	
	2036	-0.07	1959	0.12	1926	0.12	1904	0.27	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0207	3.88	0140	4.15	0111	4.66	0053	4.90	25 FR
	0922	0.05	0838	0.19	0805	0.22	0740	0.30	
	1430	3.39	1400	3.76	1334	4.09	1315	4.45	
	2118	-0.07	2042	0.11	2008	0.11	1946	0.27	
26 SA	0249	3.85	0223	4.12	0154	4.62	0135	4.86	26 SA
	1007	0.06	0923	0.19	0850	0.22	0824	0.31	
	1516	3.31	1446	3.69	1420	4.01	1400	4.38	
	2202	-0.04	2128	0.13	2052	0.17	2031	0.34	
27 SU	0337	3.76	0311	4.05	0239	4.52	0221	4.76	27 SU
	1053	0.06	1010	0.21	0936	0.26	0910	0.37	
	1607	3.20	1536	3.58	1510	3.88	1450	4.24	
	2248	0.02	2216	0.19	2139	0.29	2118	0.47	
28 MO	0428	3.63	0403	3.95	0330	4.36	0311	4.61	28 MO
	1141	0.06	1059	0.24	1026	0.33	0959	0.46	
	1704	3.07	1633	3.45	1607	3.73	1546	4.06	
	2338	0.13	2309	0.29	2230	0.48	2210	0.67	
29 TU	0525	3.46	0501	3.80	0427	4.15	0409	4.40	29 TU
	1235	0.05	1154	0.28	1122	0.41	1055	0.60	
	1812	2.95	1742	3.33	1722	3.60	1656	3.88	
					2333	0.71	2312	0.89	
30 WE	0039	0.27	0011	0.40	0543	3.92	0521	4.16	30 WE
	0634	3.25	0610	3.62	1228	0.48	1203	0.73	
	1338	0.03	1257	0.33	1845	3.56	1821	3.79	
	1935	2.91	1907	3.29					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0157	0.37	0124	0.48	0054	0.87	0029	1.06	1 TH
	0756	3.09	0728	3.45	0704	3.73	0643	3.97	
	1447	0.00	1407	0.35	1340	0.52	1317	0.80	
	2057	3.02	2029	3.37	2007	3.64	1944	3.85	
2 FR	0320	0.33	0241	0.49	0216	0.88	0150	1.10	2 FR
	0913	3.00	0847	3.35	0820	3.62	0801	3.86	
	1558	-0.03	1519	0.34	1453	0.52	1432	0.81	
	2210	3.19	2141	3.52	2120	3.81	2100	4.01	
3 SA	0439	0.22	0357	0.44	0338	0.77	0311	1.00	3 SA
	1023	2.95	1001	3.32	0933	3.58	0918	3.83	
	1707	-0.04	1628	0.31	1603	0.50	1543	0.77	
	2309	3.33	2239	3.65	2218	3.96	2200	4.18	
4 SU	0548	0.10	0507	0.35	0444	0.61	0421	0.84	4 SU
	1123	2.94	1101	3.32	1033	3.57	1020	3.86	
	1803	-0.01	1725	0.28	1658	0.47	1638	0.71	
	2356	3.41	2327	3.72	2303	4.05	2245	4.30	
5 MO	0642	0.03	0602	0.28	0535	0.48	0512	0.69	5 MO
	1210	2.94	1148	3.33	1119	3.58	1105	3.89	
	1848	0.04	1811	0.27	1741	0.46	1722	0.66	
					2338	4.12	2320	4.39	
6 TU	0034	3.45	0004	3.76	0617	0.41	0555	0.59	6 TU
	0727	0.02	0647	0.26	1155	3.62	1140	3.94	
	1248	2.97	1225	3.36	1818	0.43	1759	0.61	
	1925	0.07	1849	0.26			2352	4.46	
7 WE	0105	3.48	0037	3.80	0009	4.18	0632	0.54	7 WE
	0806	0.03	0725	0.26	0655	0.38	1213	3.99	
	1322	3.01	1257	3.40	1229	3.67	1832	0.56	
	○ 1956	0.05	1923	0.24	1851	0.39			
8 TH	0135	3.50	0110	3.82	0042	4.21	0025	4.48	8 TH
	0841	0.06	0800	0.27	0730	0.39	0707	0.53	
	1355	3.03	1330	3.41	1305	3.68	1246	4.00	
	2024	0.01	1955	0.23	1921	0.38	1904	0.56	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0206	3.49	0145	3.79	0116	4.17	0059	4.44	9 FR
	0912	0.08	0832	0.29	0802	0.43	0739	0.57	
	1427	3.01	1403	3.37	1339	3.64	1319	3.96	
	2055	0.00	2026	0.25	1951	0.39	1934	0.60	
10 SA	0238	3.44	0219	3.73	0149	4.10	0131	4.35	10 SA
	0941	0.11	0902	0.32	0832	0.47	0809	0.63	
	1459	2.96	1435	3.30	1411	3.57	1350	3.89	
	2128	0.01	2058	0.28	2022	0.43	2005	0.67	
11 SU	0311	3.38	0253	3.66	0220	4.02	0203	4.25	11 SU
	1010	0.10	0933	0.33	0902	0.49	0840	0.67	
	1533	2.90	1508	3.23	1442	3.50	1423	3.81	
	2201	0.04	2132	0.31	2055	0.48	2038	0.75	
12 MO	0346	3.32	0327	3.60	0253	3.95	0236	4.16	12 MO
	1043	0.08	1006	0.32	0934	0.50	0913	0.71	
	1610	2.84	1544	3.18	1516	3.44	1459	3.73	
	2237	0.08	2207	0.35	2130	0.57	2114	0.84	
13 TU	0424	3.23	0404	3.53	0328	3.87	0312	4.07	13 TU
	1118	0.05	1041	0.33	1009	0.51	0948	0.76	
	1650	2.76	1622	3.12	1553	3.37	1539	3.65	
	2314	0.15	2246	0.41	2208	0.69	2153	0.96	
14 WE	0504	3.10	0443	3.44	0406	3.75	0351	3.96	14 WE
	1155	0.05	1119	0.36	1047	0.56	1027	0.85	
	1734	2.69	1705	3.07	1636	3.30	1623	3.56	
	2355	0.25	2329	0.49	2250	0.84	2235	1.10	
15 TH	0548	2.95	0525	3.31	0450	3.59	0435	3.82	15 TH
	1236	0.07	1200	0.41	1129	0.63	1111	0.96	
	1823	2.64	1754	3.02	1728	3.24	1715	3.49	
					2338	0.99	2325	1.24	
16 FR	0042	0.36	0016	0.58	0540	3.42	0527	3.64	16 FR
	0637	2.80	0613	3.16	1219	0.70	1203	1.07	
	1325	0.10	1248	0.48	1842	3.24	1827	3.48	
	1921	2.65	1857	3.02					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0140	0.46	0114	0.66	0040	1.11	0026	1.35	17 SA
	0735	2.66	0714	3.02	0651	3.27	0639	3.50	
	1427	0.11	1348	0.51	1324	0.74	1309	1.13	
	2043	2.76	2017	3.12	2002	3.38	1944	3.59	
18 SU	0306	0.47	0229	0.67	0214	1.09	0151	1.35	18 SU
	0854	2.59	0831	2.97	0815	3.22	0759	3.46	
	1540	0.07	1503	0.48	1439	0.69	1426	1.08	
	2157	2.98	2126	3.32	2105	3.60	2048	3.80	
19 MO	0432	0.32	0349	0.56	0327	0.92	0308	1.18	19 MO
	1011	2.64	0943	3.02	0920	3.27	0904	3.52	
	1647	-0.02	1611	0.36	1542	0.58	1529	0.93	
	2255	3.21	2225	3.53	2201	3.83	2144	4.02	
20 TU	0536	0.13	0453	0.41	0428	0.72	0408	0.96	20 TU
	1112	2.74	1045	3.12	1018	3.36	1003	3.63	
	1745	-0.12	1708	0.24	1638	0.46	1622	0.77	
	2345	3.39	2315	3.70	2250	4.03	2233	4.23	
21 WE	0634	0.01	0552	0.29	0525	0.56	0502	0.77	21 WE
	1204	2.85	1138	3.24	1111	3.47	1053	3.77	
	1837	-0.18	1801	0.15	1730	0.35	1711	0.62	
					2334	4.18	2316	4.40	
22 TH	0031	3.51	0001	3.82	0617	0.43	0553	0.61	22 TH
	0728	-0.05	0646	0.22	1157	3.58	1137	3.90	
	1251	2.94	1224	3.33	1820	0.24	1800	0.50	
	1927	-0.21	1850	0.09			2358	4.53	
23 FR	0113	3.58	0044	3.89	0016	4.29	0642	0.49	23 FR
	0819	-0.07	0737	0.17	0707	0.33	1221	4.02	
	1335	3.02	1307	3.40	1242	3.67	1848	0.41	
	2015	-0.22	1939	0.06	1908	0.17			
24 SA	0154	3.63	0127	3.92	0059	4.35	0041	4.60	24 SA
	0908	-0.07	0826	0.14	0755	0.27	0730	0.41	
	1420	3.08	1351	3.44	1326	3.72	1307	4.09	
	2103	-0.20	2029	0.05	1956	0.14	1937	0.37	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0239	3.63	0212	3.93	0143	4.35	0127	4.62	25 SU
	0956	-0.08	0914	0.13	0843	0.23	0818	0.36	
	1508	3.09	1438	3.44	1414	3.72	1355	4.10	
	2151	-0.15	2119	0.08	2045	0.18	2026	0.39	
26 MO	0327	3.60	0301	3.90	0230	4.29	0214	4.58	26 MO
	1044	-0.09	1001	0.11	0931	0.21	0906	0.34	
	1600	3.08	1529	3.41	1504	3.69	1445	4.06	
	2241	-0.07	2209	0.13	2134	0.27	2115	0.45	
27 TU	0417	3.51	0353	3.83	0320	4.18	0303	4.49	27 TU
	1131	-0.11	1049	0.11	1019	0.21	0953	0.35	
	1653	3.04	1624	3.37	1600	3.63	1538	3.99	
	2332	0.02	2301	0.19	2225	0.39	2205	0.55	
28 WE	0509	3.39	0447	3.72	0415	4.03	0356	4.34	28 WE
	1219	-0.13	1137	0.12	1108	0.22	1042	0.41	
	1751	2.99	1725	3.33	1704	3.59	1640	3.91	
			2356	0.25	2320	0.54	2258	0.69	
29 TH	0027	0.13	0545	3.56	0520	3.84	0457	4.13	29 TH
	0605	3.20	1229	0.16	1201	0.28	1135	0.51	
	1311	-0.13	1834	3.31	1813	3.57	1748	3.84	
	1859	2.95							
30 FR	0131	0.23	0057	0.33	0026	0.69	0000	0.86	30 FR
	0712	2.97	0650	3.35	0627	3.62	0604	3.88	
	1407	-0.09	1327	0.24	1259	0.39	1235	0.66	
	2011	2.93	1944	3.30	1922	3.56	1859	3.79	
31 SA	0241	0.28	0203	0.41	0136	0.79	0110	1.00	31 SA
	0825	2.74	0759	3.12	0734	3.37	0714	3.62	
	1508	-0.01	1430	0.34	1400	0.53	1339	0.83	
	2121	2.95	2053	3.30	2030	3.56	2009	3.78	

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

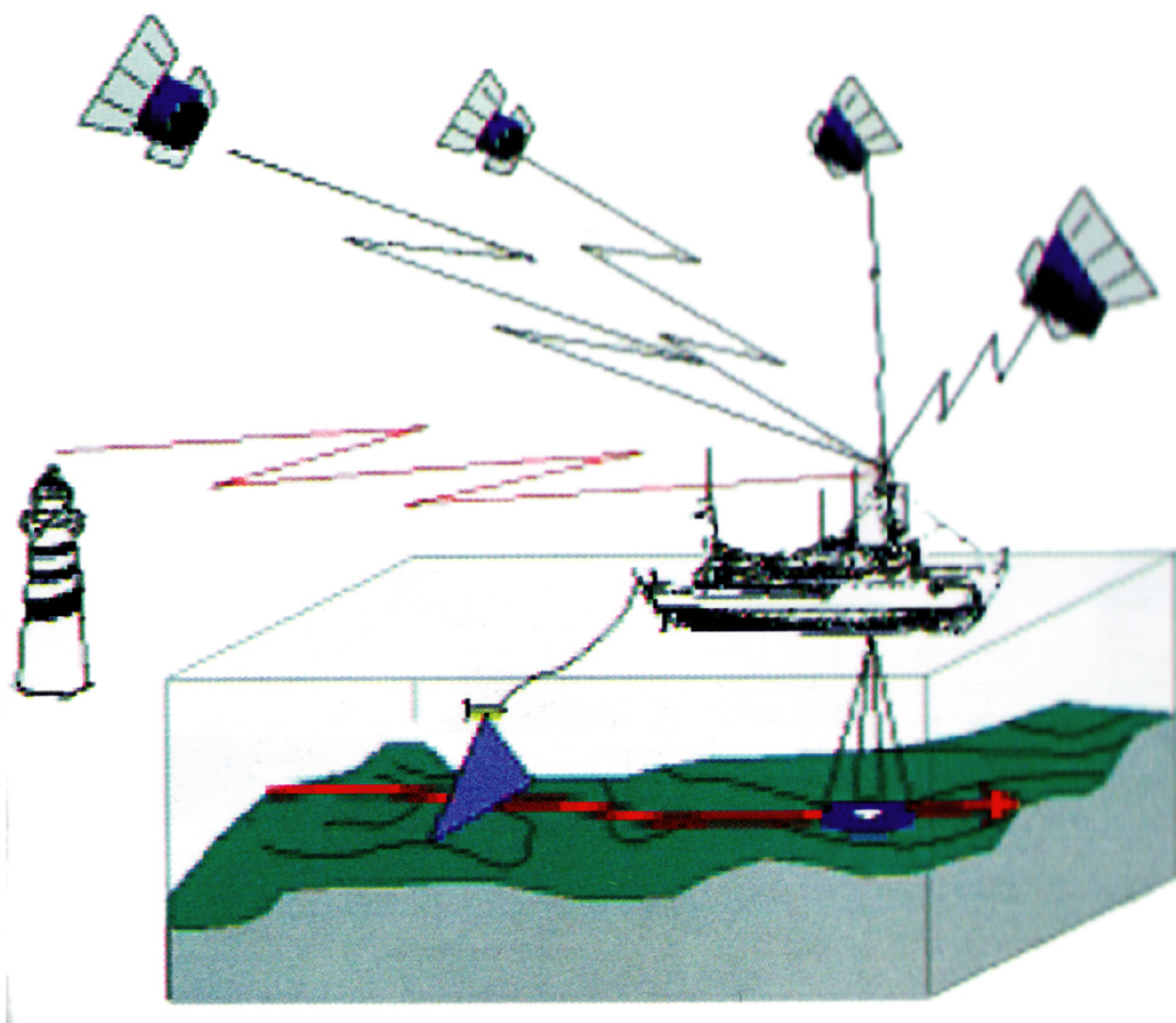
(Based on Hydrographic Survey Charts: 2012-13)

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"

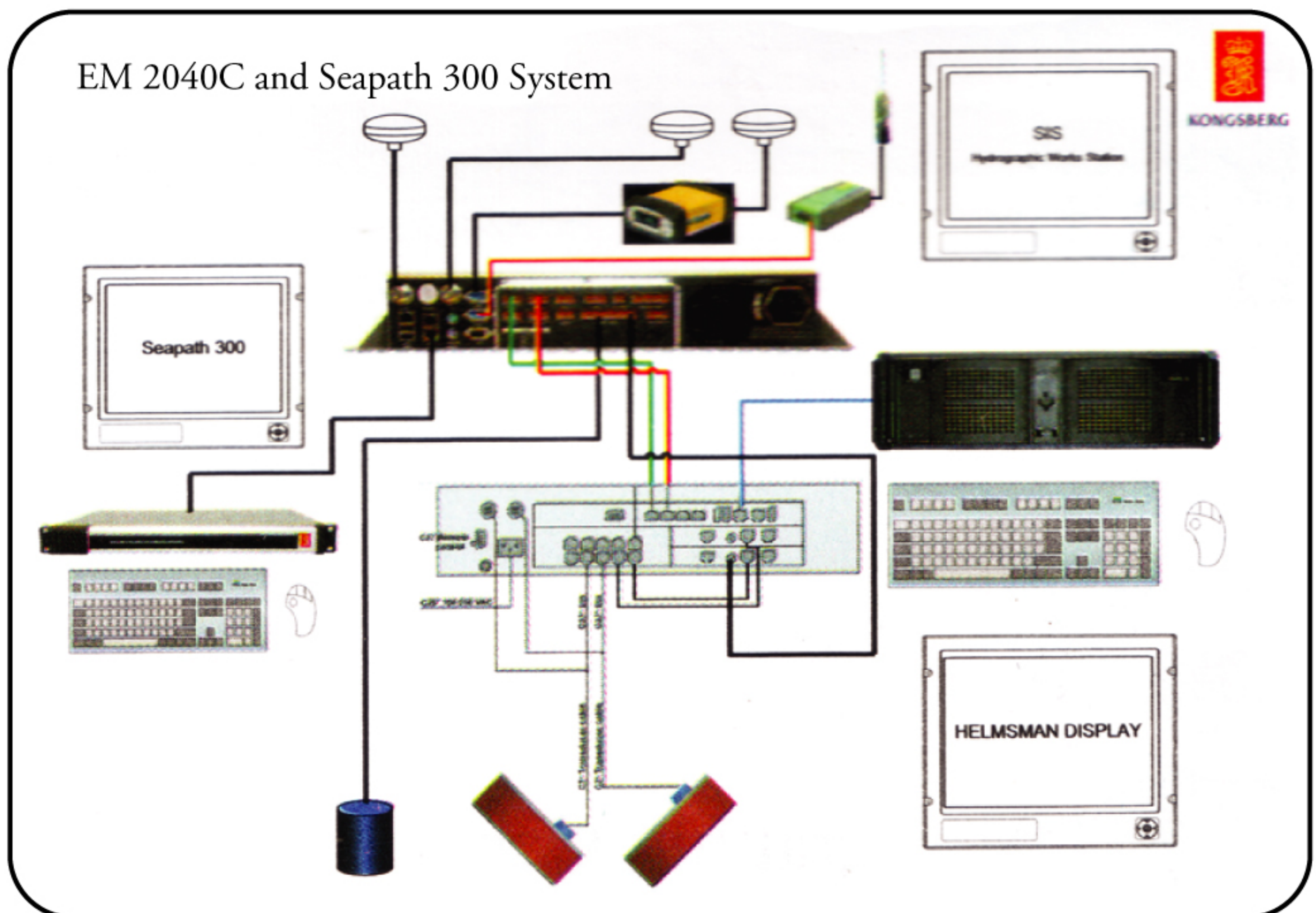
*Auto Tide Gauge Station
&
Hydrographic Survey Equipment*



**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**



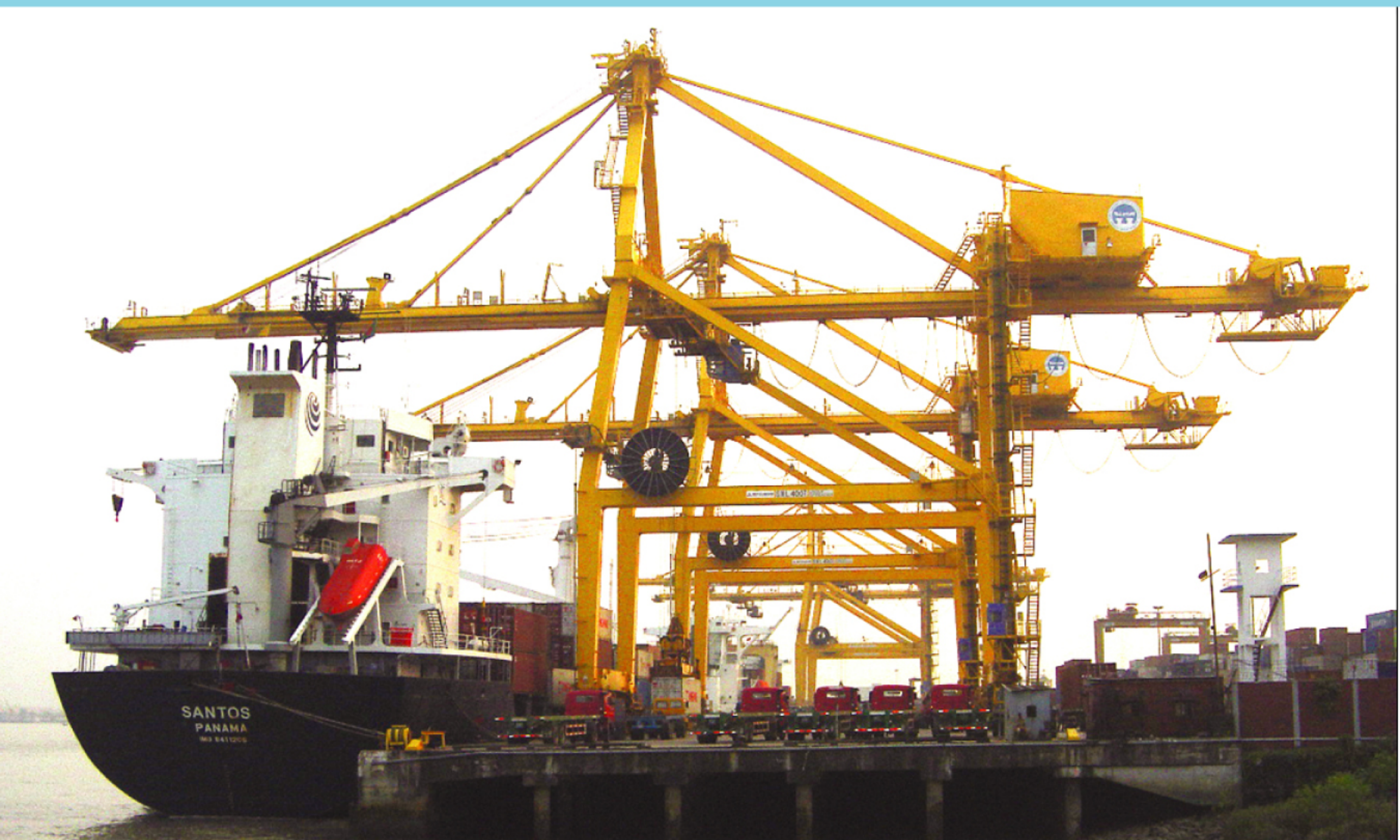
Auto Tide Gauge Station at **Khal No-10**



Auto Tide Gauge Station at **Khal 18**



Auto Tide Gauge Station at **Kaptai**





CHITTAGONG PORT APPROACH

KARNAPHULI & OUTER ANCHORAGE

KALURGHAT

SADARGHAT

ATG at Dock Office

ATG at Khal-10

ATG at Khal-18

