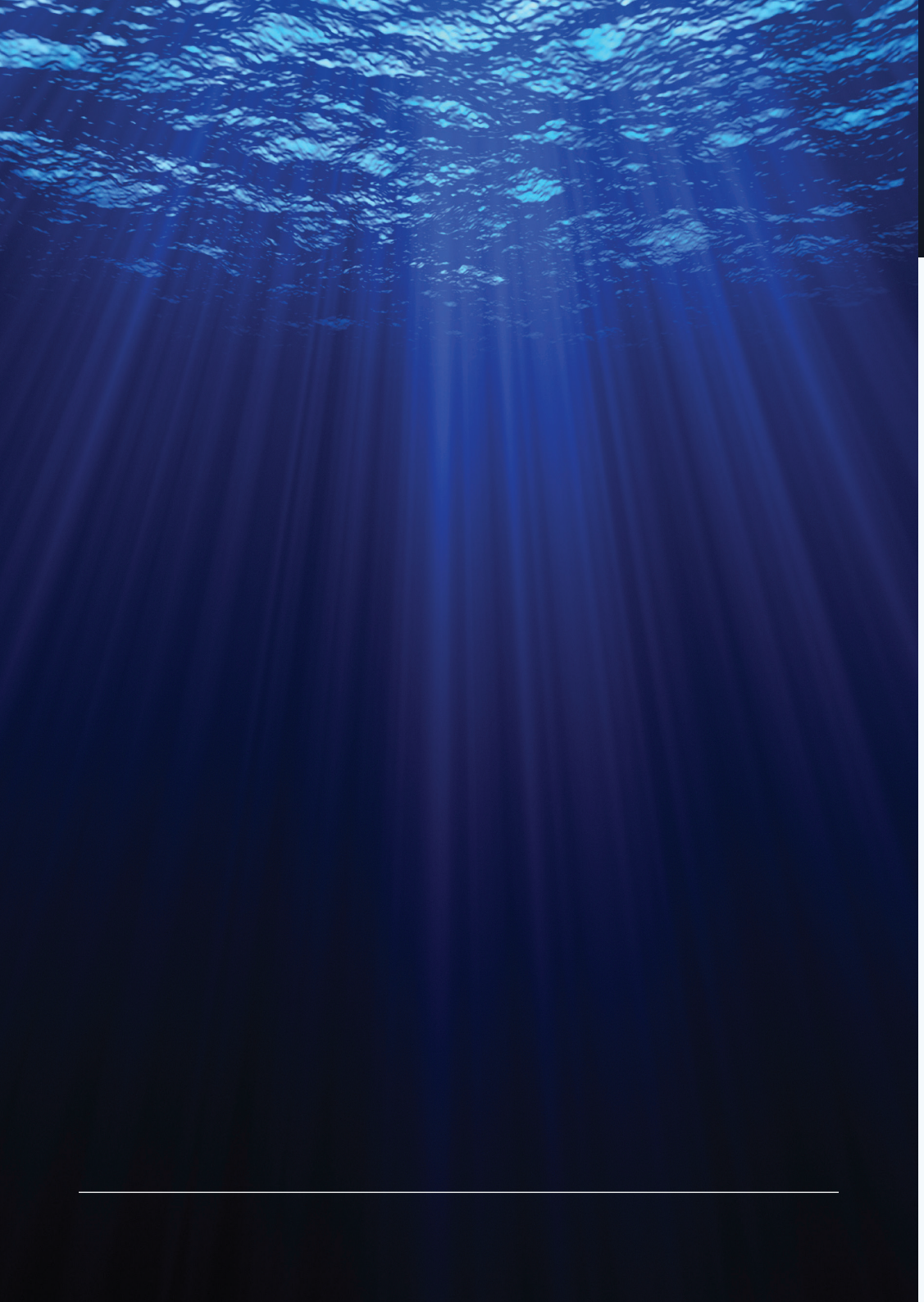
National Oceanography Centre

MARINE DATA PRODUCTS

National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

noc.ac.uk

NERC SCIENCE OF THE ENVIRONMENT



National Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

Marine Data Products

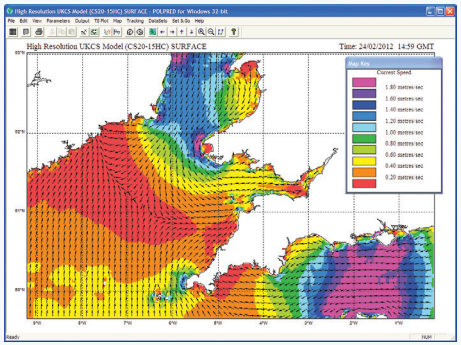
The National Oceanography Centre (NOC) provides powerful user-friendly marine information products. Our range of products cover the breadth of interests in the marine environment from the research community through to individual, organisational and commercial users across the full range of maritime sectors.

A wide range of raw marine scientific data is freely available from a number of sources including the British Oceanographic Data Centre, however users often prefer to have the tools to help them use and interpret the data rather than gigabytes of numbers in a file.

The NOC provide a comprehensive service to help clients understand, interpret and apply marine information.

A range of software products are available, covering the coast to the deep ocean. These give clients the ability to take control of large volumes of data and interpret, process and visualise it in a number of different ways.

In addition to information products, the NOC can work directly with clients to deliver bespoke solutions and services based on decades of experience in working with oceanographic data and models.



Tides at the coast

The NOC has provided a national and international tidal prediction service for nearly 100 years. Modern methods of tidal prediction used throughout the world are based on the work of Dr Arthur Doodson, a past director of the institute. The NOC has continued to develop and refine these analytical methods and today provide users with the analysis software used to produce tide tables and compute tidal currents.

The NOC can analyse data from *in-situ* measurements, such as privately owned tide gauges, or part of the UK network to refine predictions and produce very accurate data for specific locations. We also provide access to tidal heights on the go via our AnyTide smartphone app.

Tide Tables

With a history of tidal prediction going back so far and backed by the National Tide Gauge Network, we can provide the most accurate table tables.

Whether you ask us to produce the tide tables for you and supply publication ready PDF files or you compute them yourself using our powerful tidal software, you get the same high quality and accurate information presented in a wide range of formats to meet your requirements.

MILFORD HAVEN

Time Zone: GMT only Lat 51°42' N Long 5°01' W Year : 2017

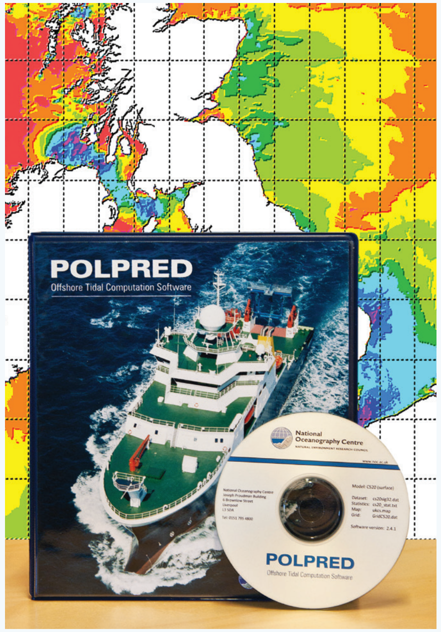
Day	September	Time	m	October	Time	m	November	Time	m	December	Time	m
1	F	0158 0829 1443 2106	5.02 2.77 5.28 2.59	Su	0238 0900 1509 2130	5.16 2.67 5.58 2.33	W	0342 1000 1602 2224	6.07 1.86 6.49 1.46	F	0349 1012 1612 2236	6.43 1.56 6.78 1.20
2	Sa	0316 0937 1545 2204	5.31 2.43 5.69 2.18	M	0337 0954 1558 2218	5.63 2.19 6.08 1.84	Th	0426 1045 1645 2306	6.58 1.39 6.95 1.05	Sa	0438 1100 1701 2324	6.88 1.15 7.16 0.87
3	Su	0410 1027 1631 2249	5.73 2.02 6.13 1.77	Tu	0421 1037 1639 2259	6.13 1.72 6.55 1.39	F	0508 1127 1727 2349	7.02 1.01 7.31 0.74	Su	0525 1148 1749	7.25 0.83 7.42
4	M	0453 1107 1711 2328	6.14 1.64 6.53 1.40	W	0500 1116 1718 2337	6.59 1.31 6.96 1.01	Sa	0549 1209 1810	7.34 0.74 7.54	M	0011 0612 1236 1837	0.66 7.48 0.64 7.53
5	Tu	0530 1145 1748	6.50 1.31 6.85	Th	0538 1154 1756	6.97 0.97 7.28	Su	0031 0630 1251 1853	0.57 7.53 0.61 7.61	Tu	0057 0659 1323 1925	0.60 7.56 0.60 7.47
6	W	0005 0606 1221 1824	1.09 6.79 1.05 7.10	F	0015 0615 1233 1835	0.74 7.25 0.74 7.48	M	0113 0713 1335 1937	0.56 7.55 0.63 7.51	W	0143 0746 1411 2014	0.68 7.49 0.72 7.26
7	Th	0042 0642 1257 1900	0.86 7.00 0.87 7.26	Sa	0054 0654 1312 1914	0.58 7.40 0.64 7.54	Tu	0156 0757 1419 2023	0.71 7.40 0.83 7.23	Th	0230 0835 1500 2103	0.91 7.27 0.98 6.92
8	F	0118 0718 1333 1936	0.72 7.12 0.78 7.31	Su	0133 0733 1351 1954	0.57 7.40 0.68 7.43	W	0239 0843 1506 2112	1.02 7.10 1.16 6.81	F	0318 0925 1551 2155	1.25 6.94 1.34 6.51
9	Sa	0155 0754 1411 2014	0.70 7.12 0.83 7.23	M	0212 0812 1432 2036	0.72 7.24 0.89 7.16	Th	0327 0933 1557 2206	1.44 6.70 1.59 6.33	Sa	0409 1019 1648 2251	1.64 6.56 1.71 6.10
10	Su	0233 0832 1448 2054	0.82 6.98 1.00 7.01	Tu	0253 0854 1515 2121	1.03 6.93 1.24 6.75	F	0420 1032 1701 2309	1.89 6.28 1.99 5.89	Su	0508 1118 1754 2354	2.00 6.20 2.02 5.79
11	M	0311 0912 1529 2136	1.07 6.72 1.30 6.66	W	0337 0942 1603 2214	1.46 6.52 1.68 6.25	Sa	0527 1141 1823	2.27 5.95 2.24	M	0617 1225 1906	2.26 5.95 2.18
12	Tu	0353 0957 1615 2226	1.44 6.36 1.68 6.23	Th	0428 1040 1706 2319	1.94 6.07 2.12 5.78	Su	0024 0654 1300 1946	5.64 2.42 5.85 2.20	Tu	0105 0732 1336 2016	5.65 2.32 5.88 2.15
13	W	0442 1052 1713 2330	1.86 5.96 2.08 5.80	F	0538 1154 1836	2.35 5.73 2.37	M	0146 0814 1418 2056	5.69 2.27 6.01 1.96	W	0216 0841 1444 2117	5.73 2.21 5.97 2.00
14	Th	0548 1206 1839	2.24 5.65 2.34	Sa	0042 0714 1323 2009	5.53 2.48 5.70 2.24	Tu	0257 0918 1523 2152	5.97 1.97 6.31 1.67	Th	0318 0939 1542 2208	5.95 2.01 6.15 1.82
15	F	0051 0723 1334 2018	5.55 2.38 5.62 2.23	Su	0212 0839 1447 2122	5.66 2.22 6.02 1.86	W	0353 1011 1614 2239	6.31 1.66 6.59 1.43	F	0409 1027 1630 2251	6.21 1.81 6.33 1.65
16	Sa	0221 0851 1500 2134	5.66 2.14 5.96 1.83	M	0324 0944 1550 2218	6.07 1.81 6.46 1.45	Th	0439 1054 1657 2318	6.60 1.44 6.78 1.29	Sa	0454 1109 1712 2330	6.44 1.64 6.48 1.53
17	Su	0339 0959 1606 2234	6.07 1.71 6.45 1.36	Tu	0419 1036 1639 2304	6.50 1.41 6.84 1.14	F	0518 1133 1736 2354	6.80 1.30 6.88 1.22	Su	0533 1147 1750	6.62 1.51 6.58
18	M	0436 1053 1658 2324	6.54 1.27 6.91 0.98	W	0503 1119 1722 2344	6.84 1.13 7.08 0.96	Sa	0554 1208 1811	6.91 1.24 6.90	M	0005 0608 1223 1825	1.44 6.74 1.43 6.63
19	Tu	0524 1139 1743	6.92 0.94 7.22	Th	0543 1157 1800	7.04 0.98 7.19	Su	0027 0628 1242 1844	1.22 6.95 1.25 6.86	Tu	0039 0642 1257 1858	1.41 6.79 1.40 6.63
20	W	0006 0606 1220 1824	0.74 7.14 0.76 7.36	F	0019 0619 1232 1835	0.91 7.12 0.95 7.17	M	0058 0700 1314 1915	1.28 6.91 1.32 6.76	W	0111 0715 1330 1931	1.42 6.78 1.43 6.57
21	Th	0045 0644 1257 1900	0.66 7.23 0.72 7.35	Sa	0052 0652 1306 1908	0.95 7.11 1.01 7.07	Tu	0129 0732 1346 1947	1.40 6.81 1.45 6.60	Th	0142 0748 1403 2003	1.49 6.71 1.50 6.46
22	F	0121 0719 1332 1936	0.72 7.18 0.80 7.22	Su	0124 0724 1337 1939	1.08 7.00 1.16 6.90	W	0200 0803 1418 2019	1.58 6.65 1.65 6.39	F	0215 0821 1437 2037	1.60 6.58 1.63 6.29
23	Sa	0154 0753 1406 2009	0.89 7.02 1.01 6.98	M	0154 0755 1408 2010	1.29 6.82 1.39 6.65	Th	0230 0837 1452 2053	1.81 6.42 1.89 6.12	Sa	0248 0857 1514 2113	1.77 6.40 1.80 6.09
24	Su	0224 0825 1437 2040	1.16 6.77 1.30 6.67	Tu	0223 0826 1439 2041	1.56 6.57 1.68 6.34	F	0303 0913 1530 2130	2.07 6.14 2.16 5.81	Su	0325 0935 1554 2154	1.97 6.19 2.00 5.86
25	M	0254 0857 1508 2112	1.50 6.45 1.66 6.29	W	0252 0858 1512 2114	1.88 6.26 2.02 5.99	Sa	0342 0955 1615 2217	2.36 5.85 2.42 5.52	M	0407 1020 1640 2243	2.19 5.97 2.18 5.65
26	Tu	0324 0930 1540 2146	1.88 6.08 2.06 5.88	Th	0324 0935 1550 2153	2.23 5.91 2.38 5.60	Su	0431 1049 1714 2318	2.63 5.59 2.62 5.29	Tu	0457 1115 1737 2344	2.38 5.78 2.31 5.51
27	W	0357 1008 1620 2227	2.29 5.69 2.47 5.45	F	0404 1021 1641 2245	2.60 5.55 2.71 5.24	M	0538 1157 1831	2.80 5.46 2.65	W	0603 1220 1848	2.49 5.71 2.31
28	Th	0439 1058 1718 2327	2.68 5.31 2.83 5.07	Sa	0502 1126 1758	2.91 5.26 2.92	Tu	0034 0704 1314 1948	5.26 2.75 5.56 2.44	Th	0056 0721 1331 2002	5.53 2.42 5.81 2.14
29	F	0551 1215 1852	3.00 5.06 2.99	Su	0003 0636 1253 1932	5.01 3.04 5.22 2.81	W	0152 0818 1423 2051	5.50 2.45 5.89 2.05	F	0208 0835 1440 2109	5.76 2.15 6.09 1.81
30	Sa	0100 0738 1357 2026	4.91 3.01 5.17 2.77	M	0138 0807 1416 2043	5.12 2.80 5.52 2.43	Th	0256 0918 1521 2146	5.94 2.02 6.33 1.61	Sa	0314 0940 1542 2209	6.15 1.76 6.47 1.43
31				Tu	0251 0911 1515 2138	5.54 2.35 5.99 1.94				Su	0412 1039 1640 2304	6.60 1.33 6.85 1.07

Datum of Predictions = Chart Datum : 3.71 metres below Ordnance Datum (Newlyn)

We do the maths so you don't have to…

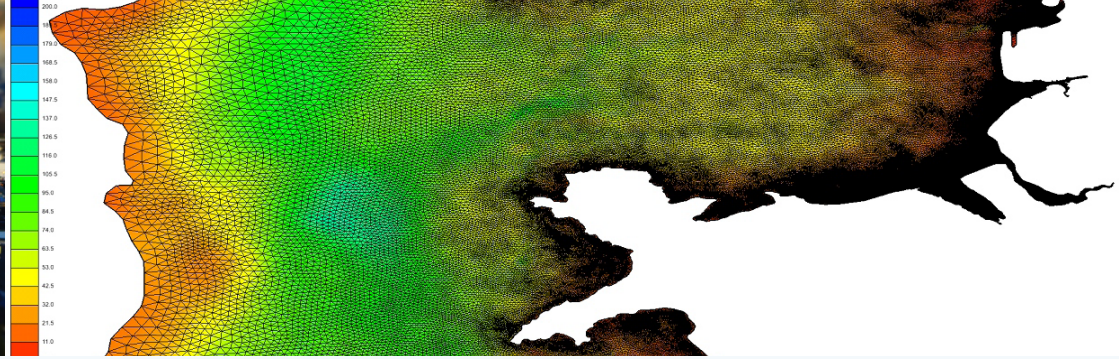
The NOC is a world leading centre in ocean modelling and the forecasting of shelf sea dynamics.

Our products have provided valuable information to a diverse range of clients ranging from one-man consultancy firms through to major government funded studies.



Our products and services include:

- Offshore modelling software that is powerful yet very easy to use (POLPRED)
- Time series of tidal levels and currents for any location offshore
- Data from our tide and surge model going back to 1955
- Extreme levels / return periods
- Particle tracking
- Data to match your specific criteria.



Bespoke services

The NOC can provide bespoke services, such as a tide table layout to fit your publication.

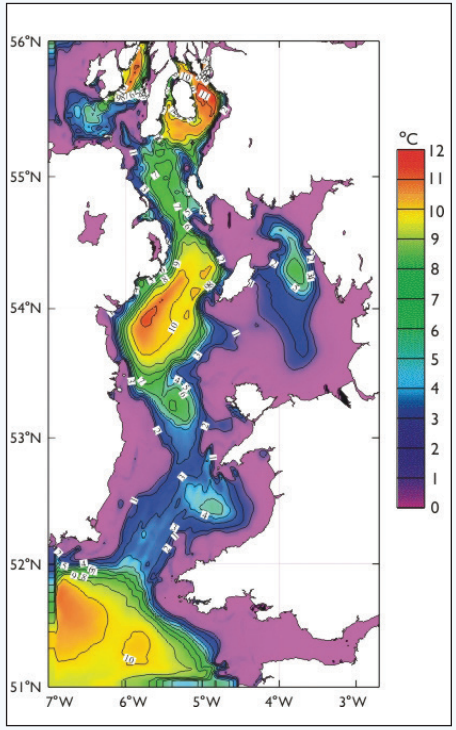
Who do we work with?

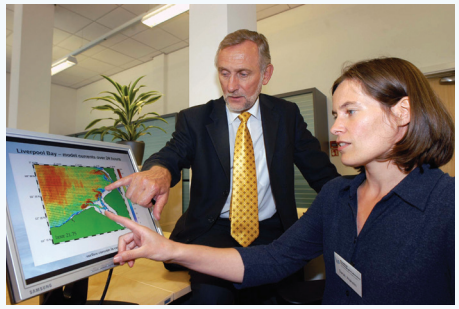
We have a diverse range of clients covering a wide range of market sectors including:

- Environment Agency
- Met Office
- Local government
- Academia / research
- Ports and harbours
- Offshore renewables
- RNLI
- Oil and gas
- Offshore survey
- Maritime investigations
- Law enforcement
- Publishers
- Event planners.

Applied modelling

If you have a more specialist modelling requirement than is offered by our standard software then we may be able to help.





We can produce models covering a wide range of parameters including:

- 2D and 3D tides
- storm surges
- waves
- sediment movement
- particle tracking
- temperature and salinity.

Please get in touch to discuss your requirements.

email: dataproducts@noc.ac.uk

noc.ac.uk