

Monthly and Annual Means of the 1st Principal Component of the position of the North Wall of the Gulf Stream  
1966-2023

NOTE: Month to month variability in the data is high because of Gulf Stream meandering. It is therefore advisable to use either annual mean values or averages over several months.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1966	0.911	-1.3105	-0.3466	-1.1153	-0.3555	0.5935	3.3096	0.9456	3.9318	-0.4264	0.3162	0.5192	0.5811
1967	-1.1232	-0.5897	-1.7979	-1.1029	-0.8921	-0.3848	2.2823	-0.4777	-0.3514	-0.9603	2.4027	-0.6667	-0.3051
1968	-1.0106	1.681	-0.1848	-2.1676	2.2895	0.5702	-1.8487	-1.1351	0.6664	1.3987	2.5718	3.0793	0.4925
1969	0.4973	0.2164	0.9592	-1.1082	0.0954	-1.3055	-0.8828	-2.2277	-2.7351	-0.4184	-2.2843	0.1074	-0.7572
1970	-2.2888	-2.7952	-1.9652	-0.1726	-0.0505	1.349	-0.4489	-2.4752	-2.2744	-1.1902	-1.2923	-0.5212	-1.1771
1971	-1.2491	-1.7848	-1.9316	-2.7134	-1.4959	-0.0393	-4.9699	-2.9514	-1.7195	-1.6211	-1.7131	-0.7508	-1.9117
1972	-0.3179	-1.4684	-0.1756	-2.0248	-2.1163	-2.5975	0.0921	-1.8559	-2.076	-2.902	-0.0703	-0.1679	-1.3067
1973	-2.5947	-1.3828	-1.5365	-0.7717	-3.5702	-1.9295	-1.9276	-0.7888	-0.1976	-0.8756	-0.3692	-0.6267	-1.3809
1974	0.5392	-3.0122	-1.4447	-0.1767	-0.4767	-1.1617	-1.6003	-1.3953	0.3368	-0.3281	-1.1316	-0.2782	-0.8441
1975	0.0712	-0.9151	0.5612	1.197	-1.5896	-1.6355	1.7027	3.2124	0.0664	-0.4103	-2.3957	0.0144	-0.0101
1976	-0.1373	-2.3805	-4.5729	-0.5463	-0.1087	0.176	-0.8833	-0.8372	-1.3866	0.6228	-0.1347	0.5041	-0.8071
1977	1.8069	-0.7498	1.2526	0.6636	-2.6236	0.3952	-1.1419	-1.299	-0.6057	-0.7893	-1.0834	-0.2365	-0.3676
1978	-0.4672	-2.726	0.2333	-0.0936	-2.9058	-3.0181	-0.0283	-1.7263	-0.3384	-0.1989	-0.9926	-1.574	-1.1530
1979	-3.8903	-2.8159	-3.0486	-1.4458	-1.3179	0.3514	-0.5447	-1.9714	-0.2913	-2.1885	-2.1753	-0.3306	-1.6391
1980	-1.5208	1.1669	1.2784	-1.386	-0.3057	-2.0671	0.7827	-2.8361	0.5941	1.7684	-0.4653	-1.7759	-0.3972
1981	-2.2853	0.2077	-1.2602	-3.0117	-0.1525	-1.0534	-0.0399	-0.4603	-0.2726	2.4083	-1.687	-1.8759	-0.7902
1982	0.4918	-1.9111	-1.0783	-2.6585	-1.3276	-1.4707	-1.5616	-0.6765	-2.8024	-0.1799	0.1122	-1.7863	-1.2374
1983	-1.038	-1.8786	0.0234	-0.6887	-1.5518	-1.1532	-0.8309	3.3576	0.5623	-0.837	0.3048	0.6715	-0.2549
1984	0.5109	0.7726	0.4722	0.4386	-1.0678	-1.6231	-2.8785	3.0122	-0.5511	1.2975	1.6061	1.2527	0.2702
1985	1.223	0.3033	-0.6022	1.2088	2.6697	0.7817	0.7394	0.3776	1.1137	4.0264	0.2421	-0.1652	0.9932
1986	2.2269	-1.9286	-1.7891	-1.4554	-1.3507	-0.1582	-0.5847	-1.9093	-0.7852	1.1598	1.2047	-0.3615	-0.4776
1987	-2.535	-1.3834	-2.7541	-1.7371	-0.661	-0.1802	0.3723	0.5263	1.346	0.7109	0.1708	-1.0671	-0.5993
1988	-1.401	1.3222	-0.1528	-0.4136	-0.9395	-1.2962	0.1941	-0.5129	1.677	0.2526	0.0535	-0.5253	-0.1452
1989	-1.4108	-0.0082	0.2005	0.7662	0.9347	0.109	-0.685	-1.6591	-0.0746	0.4803	0.6011	1.8628	0.0931
1990	1.5073	1.338	0.1338	0.5228	0.482	-1.1611	-0.3334	0.9131	0.7451	0.5842	1.1793	0.3146	0.5188
1991	-0.3	-0.3853	-0.7101	0.1784	1.2653	1.9526	1.3139	1.4341	2.4467	1.8978	0.2264	1.1708	0.8742

1992	1.8	0.6333	1.2236	0.6436	0.7908	-0.0495	0.6533	0.3811	0.7648	0.4817	0.6322	2.8089	0.8970
1993	-0.8152	1.1947	-2.4495	0.0407	1.1493	0.9997	-0.2038	1.8684	1.6894	1.9424	2.0291	0.9817	0.7022
1994	2.1642	2.0404	1.7111	0.8276	0.6963	2.102	1.1829	0.7553	-0.2283	-0.1068	-1.1891	4.3906	1.1955
1995	4.2917	2.4892	1.3803	0.4877	0.4814	2.1854	1.1247	2.5616	1.8449	2.1745	1.8086	-0.3638	1.7055
1996	2.2191	0.2596	1.623	-0.5635	-1.1789	-1.1821	-0.5566	-1.0866	0.7389	0.1747	-0.9833	-2.0362	-0.2143
1997	-0.5438	-0.4683	-1.5152	-0.4292	0.5974	-0.7051	0.8467	-0.7034	-0.653	-0.6344	-1.2644	0.1652	-0.4423
1998	0.7651	-0.1751	-0.0982	-3.5644	-2.2895	-0.7762	-1.2791	-1.014	0.8769	0.5122	-1.989	-0.2751	-0.7755
1999	-0.5106	-0.4305	-1.0601	-0.9274	0.6615	0.3394	-1.7544	-0.4061	-0.7944	1.9364	0.2191	0.296	-0.2026
2000	-0.214	0.9594	1.9829	-0.3615	-0.0304	0.3198	0.7962	0.271	2.2624	2.6749	2.6128	1.8501	1.0936
2001	1.5724	1.1352	3.3598	2.0148	1.5624	-0.4304	0.4698	0.6265	1.5332	-0.4391	1.6445	1.4337	1.2069
2002	0.0569	0.6283	0.3737	-0.154	-0.0352	-0.869	5.0532	1.6597	1.5273	1.1597	0.8876	0.0674	0.8630
2003	0.5472	-0.0788	1.7923	0.128	-1.4567	-1.5472	1.101	-1.2149	-0.2833	-0.6726	-0.5976	0.6169	-0.1388
2004	-1.6414	-0.9366	-1.5511	-1.512	-1.3883	-1.8667	-1.4968	-0.3019	-1.4778	0.7187	0.0794	1.7906	-0.7987
2005	0.7782	0.1878	-1.0371	-0.0471	0.5747	-1.5866	-2.2138	-0.7123	0.1561	0.77	0.3608	0.1017	-0.2223
2006	-0.5441	-0.5564	1.5334	-2.4286	-0.7434	-0.0715	-0.3398	0.1884	1.3044	3.5807	2.2731	1.882	0.5065
2007	0.3687	-0.3955	0.8143	0.9108	0.4041	0.9903	-0.6561	0.0836	0.7073	0.469	0.5145	-0.1948	0.3347
2008	-0.8556	2.5569	0.8176	-0.8108	-2.8601	-0.5066	1.2773	-1.0386	-0.2312	1.1226	0.6658	-3.1544	-0.2514
2009	1.9851	-0.5539	-2.4315	-0.8768	-1.3052	-0.0678	-0.2555	0.3946	1.3117	0.8323	0.3196	0.3601	-0.0239
2010	0.447	1.0234	-1.3538	-0.5166	-2.2746	0.4161	0.5729	0.8756	-0.6714	-0.8056	-0.1124	-0.9883	-0.2823
2011	-1.2059	-0.5236	-0.467	-1.537	-0.7888	1.394	1.6863	-8.8148	-2.3167	0.1742	2.9527	-1.7746	-0.9351
2012	-0.9844	0.415	1.0788	1.4787	1.4319	1.0841	0.478	-0.0355	0.4456	0.8493	0.1001	3.2035	0.7954
2013	-0.7226	-0.1709	-0.6017	-1.848	-0.4398	0.6348	-1.7877	0.8785	2.2319	0.1634	0.0847	2.6662	0.0907
2014	1.2121	0.2711	0.4518	1.6298	1.0586	-3.4743	1.1573	0.398	0.9274	0.5082	1.1606	3.0514	0.6960
2015	2.3189	1.6462	0.8912	0.8783	2.2525	1.9915	0.5701	2.7342	1.013	-1.8005	0.9359	1.9005	1.2777
2016	1.4941	0.4188	0.8878	0.5992	0.5679	-0.7145	0.6651	1.3786	1.4477	0.0241	-0.212	-1.412	0.4287
2017	-1.7933	-1.83	0.8524	-1.3072	-0.0441	-0.9917	-1.4573	-0.4755	-0.7082	1.7685	0.9719	2.6239	-0.1992
2018	0.2386	-0.4653	1.1905	0.1795	0.2385	0.8723	1.2603	0.8995	0.7811	0.0718	-1.2884	0.636	0.3845
2019	-1.9192	-0.573	0.6372	-0.1886	0.0006	1.2088	0.6165	4.1049	0.1531	-1.69	2.0722	0.0146	0.3698
2020	1.9968	-0.7328	0.7033	0.1401	-0.0777	-0.0526	-0.1096	-0.5966	0.2956	-0.2352	0.9594	2.7664	0.4214
2021	1.7494	0.3735	-1.2931	-2.2801	-1.5727	2.6048	-0.4111	0.0806	1.2185	1.2405	0.6781	1.8663	0.3546
2022	0.915	0.6827	0.9777	2.1014	2.4529	0.8488	1.7658	1.9796	1.1657	2.6244	1.4945	1.7294	1.5615
2023	1.4514	0.1087	0.8558	-0.004	0.2963	1.6609	1.7797	1.0261	1.6234	0.7361	2.6497	3.8908	1.3396