Supplement of

Late Pleistocene Glacial–Interglacial related shell size isotope variability in planktonic foraminifera as a function of local hydrology

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Supplementary Figure 1-6. Size isotope distribution. Intra-species size isotope distribution per sample (age in kya in top right of plot), trends can be grouped into either: “normal” in which progressively larger sizes are more enriched, “reversed” in which larger sizes are more depleted and “mixed” in which no clear trend can be deduced, for both $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ (Berger et al., 1978).

Supplementary Figure 7. Standard deviation of oxygen isotopes. Standard deviation of $\delta^{18}\text{O}$, corrected for outliers for the analysed species *G. bulloides*, *G. inflata* and *G. truncatulinoides* for each size fraction, and the average standard deviation for all size fractions (“composite”).

Supplementary Figure 8. Standard deviation of carbon isotopes. Standard deviation of $\delta^{13}\text{C}$, corrected for outliers for the analysed species *G. bulloides*, *G. inflata* and *G. truncatulinoides* for each size fraction, and the average standard deviation for all size fractions (“composite”).

Supplementary Figure 9. Orbital parameters during MIS8-MIS7. Computed values of June 45°N Insolation, Precession, Obliquity and Eccentricity for the time interval 200-260 kyr.

Supplementary Table 1. Raw oxygen isotope values

Outliers were removed from this dataset

$\frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt}$

G. inflata	300	355	1	2.419	1.609	2.159	1.676	2.185	2.318	2.859	2.079	3.29	1.777	1.975	2.755	2.016	1.682	1.671	3.328	2.3	1.814	2.565	1.876	2.787	2.277	1.627	2.048	1.78	1.814
G. inflata	300	355	2	1.781	1.251	1.914	1.685	2.239	2.717	2.636	2.4395	1.805	2.179	2.263	2.108	0.593	1.74	1.154	2.003	2.382	2.227	2.943	2.199	2.539	2.34	1.576	2.848	1.352	2.238
G. inflata	300	355	3	1.576	1.358	1.692	2.054	2.198	2.443	2.205	1.9071	1.778	2.337	2.168	2.535	1.611	1.793	1.472	0.992	2.025	1.692	1.76	2.441	1.961	2.334	2.216	2.116	1.87	2.333
G. inflata	300	355	4	1.577	1.357	1.692	2.054	2.198	2.443	2.205	1.9071	1.778	2.337	2.168	2.535	1.611	1.793	1.472	0.992	2.025	1.692	1.76	2.441	1.961	2.334	2.216	2.116	1.87	2.333
G. inflata	300	355	5	1.25	2.066	1.642	1.546	1.673	2.596	2.877	2.038	1.815	1.731	2.099	2.348	1.451	1.408	2.363	1.803	2.434	2.183	1.841	1.374	2.39	2.455	1.674	1.244	2.087	1.733
G. inflata	300	355	6	1.069	1.359	2.1	1.806	1.979	2.093	2.478	2.0623	1.993	1.435	1.405	2.261	2.384	1.213	1.303	1.641	1.942	1.992	2.325	2.673	2.31	1.966	1.586	1.612	1.644	2.665
G. inflata	300	355	7	1.062	1.354	2.001	1.848	1.956	2.318	2.179	2.326	1.937	2.324	1.949	2.309	1.661	1.401	1.306	2.568	1.687	2.098	2.142	2.744	2.337	1.589	1.916	1.135	1.01	2.658
G. inflata	300	355	8	1.575	1.359	1.689	2.054	2.198	2.443	2.205	1.9071	1.778	2.337	2.168	2.535	1.611	1.793	1.472	0.992	2.025	1.692	1.76	2.441	1.961	2.334	2.216	2.116	1.87	2.333
G. inflata	300	355	9	1.423	2.186	1.644	1.08	1.789	1.94	2.418	1.9978	1.819	1.026	1.706	1.775	1.847	1.912	1.132	2.358	1.994	1.979	2.558	2.496	2.299	2.577	1.993	1.064	2.145	2.705
G. inflata	300	355	10	1.583	2.026	1.465	1.376	2.179	2.463	2.322	1.9524	1.529	1.739	1.62	1.225	1.118	1.424	1.366	1.447	1.241	2.249	2.596	2.334	2.009	1.744	1.878	1.614	2.187	3.202
G. inflata	300	355	11	1.27	1.648	1.688	0.952	2.224	2.473	1.817	2.684	1.671	2.134	3.011	1.94	1.978	1.778	1.697	1.022	1.38	1.845	2.219	2.647	2.638	2.692	1.855	1.962	1.296	3.022
G. inflata	300	355	12	1.46	1.12	1.905	1.3	1.945	1.31	1.725	1.42	1.945	1.31	1.725	1.42	1.945	1.31	1.725	1.42	1.945	1.31	1.725	1.42	1.945	1.31	1.725	1.42	1.945	1.31
G. inflata	300	355	13	1.778	1.306	1.736	1.74	2.232	1.862	2.126	1.184	1.315	2.616	2.422	1.902	1.345	2.118	1.903	1.873	1.582	2.564	1.814	2.11	2.249	2.252	1.665	1.889	1.584	1.432

G. inflata	300	355	14	1.806	1.741	1.603	1.149	1.728	2.449	2.359	2.2145	1.303	2.527	1.746	1.927	1.787	1.228	1.441	1.368	1.668	1.9	2.836	1.948	2.474	2.438	2.021	1.089	1.958	1.947	
G. inflata	300	355	15	1.699	1.778	1.781	1.733	1.616	2.366	2.191	1.9846	2.066	2.208	2.028	1.794		1.45	1.43	1.984	1.885	2.402	2.377	2.389	1.94	2.559	1.786	1.834	1.852	2.274	
G. inflata	300	355	16		1.961	1.389	1.425		2.065	2.448	1.87	1.568	1.816	3.209	1.468	0.876		1.938	2.235	2.082	2.552	2.678	2.615	1.66	2.287	1.668	2.072	1.791		
G. inflata	300	355	17		1.828				3.016	2.654	1.291	1.312		1.998	2.086	0.928		0.771	2.347		2.47	1.672	2.313	1.955	1.68	1.755	1.97	2.711		
G. inflata	300	355	18		2.546						1.4659					0.8			2.14		2.292	2.472	2.01	2.341	1.47	2.134	1.521	2.739		
G. inflata	300	355	19		2.06													1.884		2.144		2.144		2.487	2.054	1.698	1.993	2.273		
G. inflata	300	355	20		1.555														2.321						2.004					
G. inflata	355	400	1	1.512	1.744	1.302	1.459	1.94	2.429	2.792	1.658	2.062	1.545	2.046	2.126	0.967	2.058	1.601	2.145	2.593	2.455	2.544	2.751	2.617	2.605	1.557	1.871	2.395	2.775	
G. inflata	355	400	2	1.777	1.095	1.66	2.497	2.333	2.005	1.977	2.1336	2.628	2.007	0.979	1.908	1.279	1.99	1.499	1.631	2.362	2.704	2.408	2.866	2.623	2.473	1.731	2.303	3.483	3.005	
G. inflata	355	400	3	1.855	1.595	2.014	1.461	2.285	2.055	2.411	1.7936	2.589	2.51	1.797	1.342	1.07	1.43	1.767	2.822	2.077	2.166	2.089	2.314	2.01	2.62	2.903	2.449	2.234	3.006	
G. inflata	355	400	4	1.754	1.519	2.023	1.524	1.962	1.763	2.518	1.6608	2.543	2.281	1.795	2.021	1.137	1.873	1.462	2.594	2.531	2.259	2.987	2.502	2.445	2.868	2.899	2.284	2.603	2.756	
G. inflata	355	400	5	1.472	1.279	1.535	1.524	2.186	2.035	2.516	1.8759	2.491	2.53	2.158	1.988	1.501	1.839	1.705	2.642	2.783	2.299	2.699	1.962	2.059	2.947	1.349	1.429	2.44	3.708	
G. inflata	355	400	6	1.549	1.278	1.793	1.722	2.332	2.847	2.565	2.357	2.41	2.059	1.841	1.96	0.833	1.789	1.377	2.658	1.647	2.41	2.08	2.338	2.413	2.443	2.32	2.185	2.965	3.178	
G. inflata	355	400	7	1.815	1.459	1.846	1.132	1.813	2.101	2.444	1.7084	2.624	2.117	3.108	1.259	1.233	2.394	2.119	2.445	2.384	2.581	2.538	2.407	2.2	2.527	1.738	1.986	2.699	3.452	
G. inflata	355	400	8	1.584	1.832	1.528	1.14	2.262	2.3	2.379	1.7308	1.981	2.554	1.405	1.52	1.511	1.862	1.931	1.309	2.212	2.073	2.545	2.984	1.797	2.077	2.548	1.938	3.246	3.012	
G. inflata	355	400	9	1.368	1.261	1.333	1.28	2.499	2.374	1.975	1.5283	2.448	1.616	2.419	1.67	1.102	1.821	1.837	2.401	2.941	2.767	2.711	1.826	2.128	2.985	2.166	2.351	2.392	3.425	
G. inflata	355	400	10	1.746	1.638	1.7	1.575	2.501	2.338	2.288	2.5988	1.739	2.549	2.007	1.457	1.325	1.717	1.654	2.326	2.714	3.132	2.644	2.524	2.399	2.201	2.314	1.809	2.819	1.874	
G. inflata	355	400	11	1.282	1.626	1.529	1.841	2.143	2.188	1.914	1.9566	2.337	2.223	1.734	0.9	1.35	2.308	2.186	2.905	2.499	2.704	2.902	2.729	2.646	2.381	2.432	1.179	3	2.349	
G. inflata	355	400	12	1.896	1.328	1.417	1.409	2.498	1.986	2.072	2.4713	2.263	1.939	1.885	2.398	1.365	1.617	1.893	2.806	2.609	2.525	2.996	2.66	2.204	2.585	2.219	2.799	2.783	2.795	
G. inflata	355	400	13	2.036	1.712	2.243	1.905	2.599	2.791	1.82	2.9078	2.411	1.957	1.847	2.059	1.372	1.697	1.75	2.124	1.675	2.755	3.05	2.472	2.003	2.988	2.302	2.545	1.538	3.026	
G. inflata	355	400	14	1.365	1.83	1.697	0.998	2.555	2.788	1.757	2.553	2.201	2.431	0.731	1.787	2.055	1.219	1.664	2.269	2.94	2.058	2.981	2.91	2.107	2.706	2.601	2.567	2.04	2.959	
G. inflata	355	400	15	1.623	1.422	1.138	1.492	2.245	1.926	1.499	3.2146	2.494	2.246	1.684	1.865	1.422		1.822	2.027	2.502	2.292	2.528	2.65	2.474	2.318	2.898	2.69	2.38	3.659	
G. inflata	355	400	16	1.696	1.655	2.132	0.93	2.287	2.354	2.149	2.3342	2.438	2.189	1.557	1.556	2.05		2.472	2.495	2.405		2.035	2.123	2.41	2.932	3.434	2.619	3.168		
G. inflata	355	400	17	1.796	0.708	1.369	1.951	2.3	1.691	2.281	1.7541	1.87	1.96	1.338	1.224	1.959		1.782	2.426	2.545		2.975	2.383	2.254	2.059	1.779	1.809	3.082		
G. inflata	355	400	18	2.128	2.079	1.401	1.847	2.665	2.291	1.855	2.8309	2.429	2.731	1.513	1.604	1.712		1.551	2.012	2.362		1.834	2.616	2.573	2.821	3.143	2.361			
G. inflata	355	400	19	1.544	1.911	1.432	1.399		2.2	2.087	2.1921	1.802	1.572	2.235	1.316							3.09	2.165			1.674	3.68	2.43	2.87	
G. inflata	355	400	20	1.335		1.567	1.088			2.394	2.33		1.348	1.991	1.901															
G. truncatulinoides	212	250	1	0.66	-0.892	0.705	0.584	-0.012	1.542	1.763	0.0756	1.909	1.812	-0.184	0.131	-0.806	-0.286	1.135	1.878	2.504	-0.021	0.925	1.751	-0.654	1.135	0.002	0.982	0.384	1.696	
G. truncatulinoides	212	250	2	-0.75	-0.669	0.531	0.2	0.729	1.138	0.869	0.8675	0.232	1.104	1.144	1.454	-0.069	0.116	0.46	-0.314	0.955	1.901	1.599	0.199	2.272	1.457	0.958	0.478	-0.404	0.515	
G. truncatulinoides	212	250	3	-0.26	-0.732	-0.711	0.16	0.496	1.007	1.671	1.8724	0.643	1.426	0.903	1.257	0.174	-0.109	0.483	0.237	1.05	1.005	1.227	1.363	2.06	1.008	0.603	1.094	0.778	1.562	
G. truncatulinoides	212	250	4	0.75	0.771	-0.662	-0.839	-0.240	1.266	0.833	0.4333	0.349	0.892	1.251	0.486	0.431	-1.219	0.001	-1.476	1.024	0.976	1.406	1.911	0.259	2.284	0.447	1.211	-0.117	0.762	
G. truncatulinoides	212	250	5	0.668	0.296	-0.556	0.604	1.41	0.957	1.628	0.7916	1.154	0.598	0.384	0.477	1.065	-1.503	0.173	-0.475	2.098	0.248	1.04	1.71	1.833	1.084	-0.787	2.248	1.764	0.798	
G. truncatulinoides	212	250	6	0.122	0.345	0.43	-0.003	1.05	-0.611	0.342	0.7137	-0.217	1.294	0.908	0.835	-0.35	-0.644	0.946	-0.472	1.722	0.169	0.533	2.619	0.378	-0.047	-0.43	-1.217	0.269	2.475	
G. truncatulinoides	212	250	7	-0.124	-0.081	-0.181	-0.027	0.401	0.403	0.831	0.8387	1.498	-0.307	-0.107	1.052	0.304	-0.557	1.258	-1.67	0.59	1.023	869	0.8	1.287	1.698	0.413	0.742	-0.014	1.2	
G. truncatulinoides	212	250	8	0.827	0.347	0.446	0.221	-0.549	0.423	1.829	0.9534	1.173	1.581	-0.115	1.413	0.43	-0.032	1.111	0.959	0.997	1.246	0.564	1.361	0.513	-0.243	0.334	-0.597	0.427	1.232	
G. truncatulinoides	212	250	9	-0.04	-0.292	1.004	-0.105	0.322	0.402	0.865	-0.213	0.618	0.394	0.254	0.066	-0.925	-0.23	-0.417	2.006	0.916	1.302	-0.487	1.494	4E-04	-1.506	2.045	0.643	0.2	0.544	
G. truncatulinoides	212	250	10	0.072	0.297	-0.289	0.588	0.047	-0.834	1.028	-0.56	0.245	0.148	-0.691	0.049	-0.758	-1.398	0.574	1.371	-0.241	0.624	1.564	-0.33	1.407	1.689	-0.13	0.554	0.402	2.278	
G. truncatulinoides	212	250	11	0.939	0.176	0.78	-0.053	0.186	0.088	0.975	0.7602	-0.861	0.981	1.265	-0.399	-0.093	-0.056	0.179	0.195	0.697	1.387	-0.052	0.256	0.737	0.747	1.308	1.184	1.562	1.822	
G. truncatulinoides	212	250	12	0.328	0.31	0.437	0.447	0.787	0.67	0.856	-0.391	0.353	1.437	-0.636	0.132	0.282	-0.732	0.993	-0.611	-0.195	1.646	0.932	0.435	0.165	1.992	1.152	0.402	0.33	1.088	
G. truncatulinoides	212	250	13	-0.03	-0.475	1.012	-0.091	0.265	-1.617	1.153	-1.02	0.535	1.449	-0.812	0.78	0.493	-0.666	0.355	0.006	-0.326	1.475	0.601	1.072	-0.07	1.662	-0.331	0.339	1.61	-0.841	
G. truncatulinoides	212	250	14	-0.428	-0.928	1.201	0.93	0.483	0.466	0.162	0.4935	0.559	1.751	-0.27	0.425	1.041	3.71	0.967	0.931	0.218	1.502	1.501	1.072	1.23	0.899	-0.801	0.141	1.547	1.092	
G. truncatulinoides	212	250	15	1.282	-0.459	-0.074	-0.309	0.132	-0.388	1.027	0.1939	-0.544	0.126	0.117	1.112	1.187	-0.606	-1.029	0.158	0.967	-0.162	0.97	1.894	-0.148	1.929	-0.04	-0.233	1.331	0.759	
G. truncatulinoides	212	250	16	0.152	-0.704	-0.264	0.106	0.97	-0.763	1.166	0.8326	-0.272	0.798	0.082	-0.218	0.326	-0.018	-0.541	-0.16	-0.051	1.983	2.319	2.004	0.896	0.548	0.904		0.948	1.352	
G. truncatulinoides	212	250	17	-0.25	-1.215	-0.831	0.048	-0.626	0.783	0.609	0.4022	0.73	0.037	-0.37	0.92	0.196	0.148	0.64	1.315	0.134	1.316	0.591		1.073	0.277		0			

Supplementary Table 2. Raw carbon isotope values

Shaded columns represent samples that were determined to be not normally distributed:
Outliers were removed from this dataset

Carbon isotope values ($\delta^{13}\text{C}$)

Species	Size		Specimen no.	Depth in core (cm)																											
	Min.	Max.		729	732	736	740	744	748	752	756	760	764	768	772	776	780	784	788	792	796	800	804	808	812	816	820	824	828		
G. bulloides	212	250	1	-0.874	-0.406	-0.059	-1.441	-1.014	-1.469	-0.586	-0.787	0.014	-1.183	-0.499	-1.186	-0.619	-0.417	-1.355	-0.396	-1.956	-0.360	-0.299	0.095	-1.161	-0.384	-2.195	-1.037	-1.137	-1.415		
G. bulloides	212	250	2	-0.631	-0.272	0.155	-1.804	-1.373	-0.589	-1.497	-1.220	-0.765	-1.274	-2.193	-1.353	-0.754	-0.329	-0.898	-2.002	-2.246	-0.663	-0.781	-1.421	-1.609	-1.575	-2.021	-1.200	-1.421	-1.609		
G. bulloides	212	250	3	0.003	-0.735	0.015	-0.749	-0.728	-0.843	-0.085	-0.666	-1.956	-0.607	-0.851	-0.982	-1.803	-1.149	-0.610	-1.241	-0.789	0.100	-1.086	-1.080	-0.699	-0.967	-1.674	-0.804	-1.286	-0.598		
G. bulloides	212	250	4	-0.022	-0.340	0.039	-0.416	-1.684	-0.949	-1.746	-0.078	-0.713	-0.125	-1.315	-2.411	-0.855	-0.094	-0.543	-0.863	-0.748	-1.927	-0.863	-1.102	-0.692	-1.511	-2.200	0.080	-1.164	-1.412		
G. bulloides	212	250	5	-0.711	-0.496	-0.794	-0.416	-1.993	-0.655	-1.554	-0.542	-0.632	-0.831	-1.773	-1.591	-1.196	-1.079	-1.121	-0.856	-0.404	-0.288	-0.415	-1.065	-1.516	-1.609	-1.104	-0.283	-0.631	-1.854		
G. bulloides	212	250	6	-0.775	-0.416	-0.841	-1.145	-1.096	-1.590	-0.866	-0.279	0.395	-1.261	-1.187	-0.302	-2.190	-1.802	-0.334	-1.302	-0.925	0.001	-0.940	-0.822	-0.665	-1.814	-1.477	-1.780	-1.221	-0.074		
G. bulloides	212	250	7	-0.498	-0.760	-1.291	-1.401	-0.530	-1.519	-0.520	-0.670	-0.020	0.171	-0.460	-0.538	-0.882	-1.596	-1.784	-1.081	-0.548	-0.106	0.152	0.173	-0.789	-2.553	-1.577	-1.528	-0.263	-1.194		
G. bulloides	212	250	8	-0.962	-0.833	-1.496	-2.087	-0.800	-0.930	-0.932	-0.360	-0.702	-0.828	-1.394	-0.979	-0.880	-0.448	-1.269	-1.432	-0.376	-1.751	-0.593	-0.963	-0.623	-2.723	-2.018	-0.913	-0.808	-1.654	-0.740	
G. bulloides	212	250	9	-0.749	-1.038	-1.798	-0.363	-0.443	-1.390	-0.732	-0.597	-0.756	-0.848	-0.668	-0.549	-0.390	-0.971	-1.143	-0.928	-1.570	-1.07	-0.691	-1.229	-0.699	-1.745	-1.763	-0.416	-1.013	-1.471		
G. bulloides	212	250	10	-0.072	-0.908	-1.956	0.700	-1.089	-0.641	-0.708	0.056	-0.660	-0.452	-2.348	-0.793	-0.316	-1.409	-1.481	-1.272	-0.267	-0.698	-1.918	-1.201	-1.265	-0.895	-1.310	-0.839	-1.105	-1.922		
G. bulloides	212	250	11	-0.307	-0.555	-0.672	-0.101	-2.316	-2.195	-0.459	-1.056	-0.480	-0.074	-1.435	-1.024	-1.304	-0.783	-1.285	-1.758	-0.367	-1.348	-0.303	-0.920	-0.743	-2.263	-1.580	-0.609	-1.335	-0.853		
G. bulloides	212	250	12	-0.811	-0.282	-1.225	-0.991	-2.254	-0.001	-0.781	-2.598	-0.047	-0.736	-0.203	-1.401	-1.202	-1.117	-0.779	-1.066	-0.430	-2.309	-0.802	-1.087	-1.827	-1.375	-1.703	-1.211	-1.846	-1.499		
G. bulloides	212	250	13	-0.919	-0.236	-0.525	-0.384	-0.317	-1.556	-1.240	-0.575	-0.573	-0.522	-1.133	-1.215	-1.519	-1.826	-1.639	-1.768	-0.204	-0.302	-1.449	-0.457	-0.994	-1.871	-2.167	-0.196	-0.751	-0.714		
G. bulloides	212	250	14	-0.520	0.083	-1.395	-1.154	-1.310	-1.407	-0.284	-0.791	0.154	-1.069	-0.871	-2.523	-0.867	-1.721	-0.615	-0.825	-1.625	-0.118	-0.478	-1.926	-1.977	-2.023	-1.037	-1.831	-0.403	-1.471		
G. bulloides	212	250	15	-0.887	-0.283	-1.154	-1.607	-0.690	-0.915	-0.056	-0.421	-1.144	-1.664	-0.709	-0.994	-0.290	-0.580	-0.200	-0.774	-0.591	-0.563	-1.619	-2.029	-0.981	-1.833	-0.860	-1.267	-1.083	-1.267		
G. bulloides	212	250	16	-0.457	-0.387	-0.992	-1.626	-0.221	-0.827	-0.728	-0.139	-0.926	-1.661	-1.187	-1.544	-0.825	-0.097	-1.500	-0.406	-0.364	-0.971	-1.376	-2.161	-1.743	-1.889	-1.316	-1.316	-1.316	-1.316		
G. bulloides	212	250	17	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	18	-1.016	-0.423	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	19	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20	-0.061	0.187	-0.000	-0.153	-0.751	-1.348	-0.000	-0.533	-1.646	-1.383	-1.047	-1.159	-0.492	0.005	0.028	-1.015	-1.432	-0.657	-1.086	-0.081	-0.814	-0.647	-1.086	-0.081	-0.814	-0.647		
G. bulloides	212	250	20																												

G. inflata	300	355	14	0.816	0.312	0.200	0.286	-0.052	0.044	-0.076	0.265	0.716	0.449	0.870	0.715	0.703	0.066	0.438	0.242	0.025	-0.016	-0.433	0.154	0.205	0.228	0.676	0.305	-0.058	0.384
G. inflata	300	355	15	0.215	0.657	0.653	0.440	0.072	0.280	0.915	0.449	0.569	0.539	0.154	0.063		-0.189	0.502	0.335	0.168	0.228	-0.146	-0.153	0.429	0.269	-0.151	0.756	0.469	0.079
G. inflata	300	355	16	-0.138	0.860	0.109	0.981	0.378	0.553	0.348	0.466	0.823	0.814	0.522		0.374	0.250	0.045	0.404	0.126	0.590	0.260	-0.081	-0.069	0.508	0.485	0.323		
G. inflata	300	355	17		0.784	0.425	0.590	0.522	0.442	0.860	0.678	0.421		0.528	0.827	-0.018		-0.328	-0.478	0.085	-0.072	0.069	0.028	0.235	0.745	0.265	0.493	0.363	
G. inflata	300	355	18		0.255	0.556		0.335			0.521								-0.697		0.280	-0.320	0.506	0.387	0.227	0.425	0.708		
G. inflata	300	355	19		0.291														-0.240		0.384		0.725	-0.110	0.469	0.368	0.293		
G. inflata	300	355	20		0.579																0.080		-0.219		0.340				
G. inflata	355	400	1	0.476	0.949	0.516	0.632	0.893	0.440	0.598	0.584	0.519	0.070	0.580	0.665	0.712	1.301	0.959	0.483	0.641	0.463	0.580	0.773	0.751	0.846	1.030	0.726	0.775	0.791
G. inflata	355	400	2	0.339	0.346	0.296	0.507	0.314	0.083	0.632	0.413	0.948	0.703	0.502	0.748	0.584	0.699	0.952	0.361	0.619	0.581	0.212	0.428	0.280	0.546	0.694	0.907	0.959	0.979
G. inflata	355	400	3	0.695	0.478	0.496	0.628	0.563	0.585	0.969	0.405	0.965	0.680	0.668	0.597	0.410	0.790	0.497	0.760	-0.013	0.502	0.010	0.602	0.480	0.382	0.499	0.963	0.955	1.013
G. inflata	355	400	4	0.445	0.215	0.632	0.784	0.179	0.522	0.994	0.556	0.101	0.996	0.632	0.773	0.242	0.396	0.110	1.227	-0.004	0.496	0.655	0.974	0.179	0.556	0.595	0.071	0.028	0.710
G. inflata	355	400	5	0.541	0.315	0.696	0.540	0.708	0.398	0.357	1.201	0.787	0.810	0.680	0.875	0.775	0.100	0.971	1.851	0.837	0.949	0.873	0.534	-0.251	0.316	0.499	0.936	0.299	0.842
G. inflata	355	400	6	0.726	0.362	0.753	0.866	0.785	0.428	0.826	0.285	1.032	0.466	0.690	0.232	0.275	1.125	0.751	0.933	0.561	0.359	0.441	0.421	0.736	0.495	0.246	0.576	0.851	0.984
G. inflata	355	400	7	0.841	0.393	0.777	0.271	0.188	0.252	1.136	0.417	0.957	0.601	0.451	0.896	0.286	1.110	1.269	0.518	0.129	0.157	0.269	0.564	0.152	0.928	0.858	0.766	0.529	0.764
G. inflata	355	400	8	0.601	0.627	0.751	0.277	0.315	0.352	0.218	0.390	0.594	0.915	0.610	0.747	0.382	0.595	1.057	0.825	0.583	0.248	0.160	0.536	0.054	0.112	0.813	0.541	0.831	0.306
G. inflata	355	400	9	0.507	-0.267	0.391	0.368	0.522	0.380	0.782	0.061	0.796	0.507	0.796	1.008	0.957	0.655	0.760	0.526	0.235	0.244	0.323	0.962	-0.863	0.211	0.552	0.608	0.284	0.934
G. inflata	355	400	10	0.504	1.001	0.910	0.484	0.765	0.569	0.519	0.999	1.093	1.096	0.602	0.774	0.540	1.035	0.329	0.814	0.153	0.976	0.205	0.029	-0.182	0.578	1.08	0.888	0.415	0.652
G. inflata	355	400	11	0.634	0.740	0.546	0.299	0.865	0.247	0.228	0.765	0.407	0.659	0.444	0.210	0.806	0.477	1.227	0.757	0.152	0.492	0.589	0.313	0.155	0.521	0.870	0.285	0.742	-0.169
G. inflata	355	400	12	0.560	0.147	0.325	0.166	0.533	0.047	0.437	0.905	0.275	0.665	0.641	0.785	0.700	0.867	1.177	0.212	0.751	0.452	0.648	1.045	0.459	0.004	1.046	1.073	0.804	0.322
G. inflata	355	400	13	-0.071	0.740	0.643	0.444	0.623	0.585	0.727	1.249	0.575	0.449	0.951	0.647	0.488	0.857	0.715	0.374	0.819	0.274	0.780	0.194	0.707	0.940	0.706	0.554	0.501	0.618
G. inflata	355	400	14	0.591	0.507	0.320	0.644	0.232	0.278	0.411	0.933	0.581	0.724	0.338	0.447	0.497	0.740	1.093	-0.127	0.370	0.022	0.498	0.213	0.181	0.080	0.593	0.557	0.611	0.397
G. inflata	355	400	15	0.665	0.738	1.095	0.630	0.624	0.841	0.579	0.710	0.591	0.797	0.389	0.458	1.413		0.804	0.431	0.851	0.761	0.461	0.703	0.580	0.588	0.325	0.395	0.564	0.661
G. inflata	355	400	16	0.780	1.054	0.414	0.794	0.456	0.893	0.368	1.020	0.846	0.665	0.338	0.526	0.719	1.197	1.012	0.580	0.582	0.222	-0.078	1.002	0.755	1.393	0.375	0.911		
G. inflata	355	400	17	0.672	0.513	0.645	0.799	0.452	0.401	0.700	-0.106	-0.019	0.225	0.509	0.558	1.240		0.363	0.549	0.126	0.600	0.313	0.315	0.314	0.885	0.791	1.018		
G. inflata	355	400	18	0.629	0.913	0.545	0.288	0.387	0.774	0.433	1.019	0.442	0.959	0.534	0.767	1.323	0.747	0.346	0.540	0.477	0.441	1.026		0.726	0.462	0.366	0.763	0.727	
G. inflata	355	400	19	0.537	0.757	0.302	0.362	0.668	0.598	0.232	0.636	0.808	0.721	0.911	0.773	1.060				0.533	-0.002			0.564	0.584	1.169	0.959	0.617	
G. inflata	355	400	20				0.757	0.819	0.718	0.703		0.327	0.104		0.954						0.464								
G. truncatulinoides	212	250	1	-0.604	-0.342	0.380	-0.343	-0.178	-0.126	-0.116	-0.404	0.607	0.067	-0.410	-0.344	-0.931	-0.842	-0.229	-0.552	0.169	-0.637	-0.689	-0.311	-0.586	-0.362	-0.018	-0.424	-0.269	0.015
G. truncatulinoides	212	250	2	-0.767	-0.503	-0.207	-0.775	-0.082	-0.267	0.008	-0.700	0.541	0.057	-0.374	0.120	-0.218	-0.500	-0.167	-0.758	-1.098	-0.029	0.249	0.139	-0.170	0.084	-0.489	0.538	0.192	
G. truncatulinoides	212	250	3	-0.606	-0.870	0.000	-0.341	0.167	-0.174	0.107	-0.254	0.484	0.409	0.178	0.081	-0.255	-0.176	-0.142	-0.079	-0.372	-0.048	-0.333	0.001	-0.124	0.396	-0.737	0.008	0.158	0.040
G. truncatulinoides	212	250	4	-0.011	-0.279	-0.750	-0.290	-0.291	0.032	0.035	0.269	-0.415	0.079	0.131	0.149	0.290	-0.533	-0.337	-1.096	-0.590	-0.631	-0.623	-0.013	-0.840	-0.204	-0.468	-0.009	-0.117	0.846
G. truncatulinoides	212	250	5	0.224	-0.411	-0.522	-0.238	0.016	0.093	0.288	-0.389	0.318	-0.277	-0.262	-0.607	0.137	-0.772	-0.056	0.057	-0.124	-1.260	-0.301	0.602	-0.323	0.232	-0.711	0.680	-0.127	-0.164
G. truncatulinoides	212	250	6	-0.602	0.000	0.112	-0.513	-0.198	-0.765	-0.478	-0.576	-0.747	-0.223	0.149	-0.557	-0.848	-0.914	-0.085	-0.879	-0.252	-0.443	-0.722	-0.310	-0.096	-0.864	-0.330	0.060	-0.237	-0.389
G. truncatulinoides	212	250	7	-0.472	-0.022	-0.159	-0.038	-0.556	-0.458	-0.524	-0.850	0.403	-0.171	-0.601	0.079	-0.456	-0.036	0.419	-0.683	0.024	-0.788	-0.578	-0.080	-0.275	-0.312	-0.536	0.304	-0.218	0.424
G. truncatulinoides	212	250	8	-0.374	-0.286	-0.010	-0.225	0.465	-0.277	-0.719	-1.054	0.313	0.588	-0.544	0.599	-0.126	-0.850	0.420	0.334	-0.802	-0.444	-0.337	-0.325	-0.872	-0.992	-0.432	-0.685	0.368	0.027
G. truncatulinoides	212	250	9	-0.013	-0.795	-0.297	-0.098	-0.802	-0.235	0.118	-0.916	-0.113	-0.577	-0.308	-0.281	-0.484	-0.318	-0.875	-0.170	-0.718	-0.918	-0.503	-0.113	-1.166	-0.723	0.393	-0.077	-0.097	-0.365
G. truncatulinoides	212	250	10	0.024	-0.021	0.059	-0.398	-0.391	-0.461	0.466	-0.376	-0.193	-0.230	-0.079	-0.494	-0.746	-0.138	-0.256	0.249	-0.987	-0.545	-0.391	-0.847	-0.766	0.361	-0.610	0.502	-0.237	-0.236
G. truncatulinoides	212	250	11	-0.306	-0.568	0.094	-0.257	0.369	-0.840	0.017	-1.086	-0.537	0.099	0.687	-0.169	-0.392	0.004	-0.302	-0.581	-0.289	-0.637	-0.257	-0.557	-0.323	-0.255	-0.308	0.087	0.862	0.210
G. truncatulinoides	212	250	12	-0.737	-0.257	-0.259	-0.327	-0.715	0.665	-0.299	-0.147	-0.669	-0.498	-0.748	0.370	0.006	-1.104	0.028	-0.713	-1.010	-0.869	-0.813	-0.669	-0.137	0.430	0.116	-0.028	0.720	-0.675
G. truncatulinoides	212	250	13	-0.281	0.339	-0.321	-0.265	-0.430	0.151	0.197	-0.773	-0.109	-0.584	-0.581	-0.862	-0.602	-0.673	-0.608	-0.850	-1.635	-0.331	-0.167	0.062	-0.753	0.202	-0.527	-0.449	0.079	-0.136
G. truncatulinoides	212	250	14	0.171	-0.653	-0.429	-0.734	-0.343	0.063	-0.631	-0.631	-0.353	-0.090	-0.611	-0.395	-0.011	-0.701	0.028	-0.746	-1.029	-0.260	-0.169	-0.335	-0.122	0.153	-0.477	0.027	0.884	-0.466
G. truncatulinoides	212	250	15	0.299	-0.787	-0.164	-0.356	-0.828	-0.723	-0.388	-0.148	-0.309	-0.365	-0.173	-0.800	-0.184	-0.763	-0.130	-0.897	-0.536	-0.424	0.185	-0.221	-1.357	0.452	-0.482	-0.173	0.155	0.361
G. truncatulinoides	212	250	16	-0.508	-0.482	-0.489	-0.766	-1.198	-0.894	-0.579	-0.282	-1.384	-0.311	0.125	-0.069	-0.490	-0.225	-0.487	-0.473	-0.881	-0.652	-0.565		0.372	-0.442	-0.288		-0.113	0.015
G. truncatulinoides	212	250	17	-0.038	-1.017	-0.846	-0.533	-0.863	-0.502	-0.001	-0.578	0.061	-0.284	-0.407	0.414	-0.373	-0.587	0.090	-0.628	-0.931	-1.397	-0.585		-0.107	-0.128				