

2009

THE SUNDIAL PRIMER

SUNDIAL KITS  
CORRECT-A-DIAL  
DIALLING BUDDY  
DIALLING GUIDE  
CHECK-A-DIAL  
INCLINOMETER  
DECLINOMETER  
SNOURTHOMETER  
AND MUCH MORE!

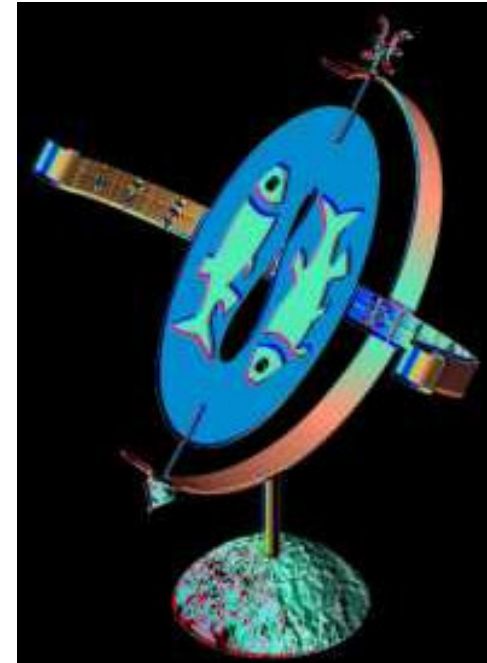
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EQUATION OF TIME  
2009



**THE SUNDIAL PRIMER**

**GET HOOKED ON GNOMONICS!**

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CREATED BY CARL SABANSKI



**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
335	December	1	-10	54	FAST
336	December	2	-10	31	FAST
337	December	3	-10	08	FAST
338	December	4	-9	44	FAST
339	December	5	-9	19	FAST
340	December	6	-8	54	FAST
341	December	7	-8	28	FAST
342	December	8	-8	02	FAST
343	December	9	-7	35	FAST
344	December	10	-7	08	FAST
345	December	11	-6	40	FAST
346	December	12	-6	13	FAST
347	December	13	-5	44	FAST
348	December	14	-5	16	FAST
349	December	15	-4	47	FAST
350	December	16	-4	18	FAST
351	December	17	-3	49	FAST
352	December	18	-3	19	FAST
353	December	19	-2	50	FAST
354	December	20	-2	20	FAST
355	December	21	-1	50	FAST
356	December	22	-1	20	FAST
357	December	23	-0	50	FAST
358	December	24	-0	20	FAST
350	December	25	0	09	SLOW
360	December	26	0	39	SLOW
361	December	27	1	09	SLOW
362	December	28	1	38	SLOW
363	December	29	2	07	SLOW
364	December	30	2	36	SLOW
366	December	31	3	05	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
1	January	1	3	40	SLOW
2	January	2	4	08	SLOW
3	January	3	4	36	SLOW
4	January	4	5	03	SLOW
5	January	5	5	30	SLOW
6	January	6	5	56	SLOW
7	January	7	6	22	SLOW
8	January	8	6	48	SLOW
9	January	9	7	13	SLOW
10	January	10	7	37	SLOW
11	January	11	8	01	SLOW
12	January	12	8	24	SLOW
13	January	13	8	46	SLOW
14	January	14	9	08	SLOW
15	January	15	9	30	SLOW
16	January	16	9	50	SLOW
17	January	17	10	10	SLOW
18	January	18	10	29	SLOW
19	January	19	10	48	SLOW
20	January	20	11	05	SLOW
21	January	21	11	22	SLOW
22	January	22	11	38	SLOW
23	January	23	11	54	SLOW
24	January	24	12	09	SLOW
25	January	25	12	22	SLOW
26	January	26	12	35	SLOW
27	January	27	12	48	SLOW
28	January	28	12	59	SLOW
29	January	29	13	10	SLOW
30	January	30	13	19	SLOW
31	January	31	13	28	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
32	February	1	13	37	SLOW
33	February	2	13	44	SLOW
34	February	3	13	50	SLOW
35	February	4	13	56	SLOW
36	February	5	14	01	SLOW
37	February	6	14	05	SLOW
38	February	7	14	08	SLOW
39	February	8	14	11	SLOW
40	February	9	14	13	SLOW
41	February	10	14	14	SLOW
42	February	11	14	14	SLOW
43	February	12	14	13	SLOW
44	February	13	14	12	SLOW
45	February	14	14	10	SLOW
46	February	15	14	07	SLOW
47	February	16	14	03	SLOW
48	February	17	13	59	SLOW
49	February	18	13	54	SLOW
50	February	19	13	49	SLOW
51	February	20	13	42	SLOW
52	February	21	13	35	SLOW
53	February	22	13	28	SLOW
54	February	23	13	20	SLOW
55	February	24	13	11	SLOW
56	February	25	13	02	SLOW
57	February	26	12	52	SLOW
58	February	27	12	41	SLOW
59	February	28	12	30	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
305	November	1	-16	24	FAST
306	November	2	-16	25	FAST
307	November	3	-16	26	FAST
308	November	4	-16	25	FAST
309	November	5	-16	23	FAST
310	November	6	-16	21	FAST
311	November	7	-16	18	FAST
312	November	8	-16	14	FAST
313	November	9	-16	09	FAST
314	November	10	-16	03	FAST
315	November	11	-15	57	FAST
316	November	12	-15	49	FAST
317	November	13	-15	41	FAST
318	November	14	-15	32	FAST
319	November	15	-15	22	FAST
320	November	16	-15	11	FAST
321	November	17	-15	00	FAST
322	November	18	-14	47	FAST
323	November	19	-14	34	FAST
324	November	20	-14	20	FAST
325	November	21	-14	05	FAST
326	November	22	-13	49	FAST
327	November	23	-13	33	FAST
328	November	24	-13	16	FAST
329	November	25	-12	58	FAST
330	November	26	-12	39	FAST
331	November	27	-12	19	FAST
332	November	28	-11	59	FAST
333	November	29	-11	38	FAST
334	November	30	-11	16	FAST

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
274	October	1	-10	23	FAST
275	October	2	-10	42	FAST
276	October	3	-11	01	FAST
277	October	4	-11	20	FAST
278	October	5	-11	38	FAST
279	October	6	-11	56	FAST
280	October	7	-12	13	FAST
281	October	8	-12	30	FAST
282	October	9	-12	46	FAST
283	October	10	-13	02	FAST
284	October	11	-13	18	FAST
285	October	12	-13	33	FAST
286	October	13	-13	48	FAST
287	October	14	-14	02	FAST
288	October	15	-14	15	FAST
289	October	16	-14	28	FAST
290	October	17	-14	40	FAST
291	October	18	-14	52	FAST
292	October	19	-15	03	FAST
293	October	20	-15	14	FAST
294	October	21	-15	23	FAST
295	October	22	-15	33	FAST
296	October	23	-15	41	FAST
297	October	24	-15	49	FAST
298	October	25	-15	56	FAST
299	October	26	-16	02	FAST
300	October	27	-16	08	FAST
301	October	28	-16	13	FAST
302	October	29	-16	17	FAST
303	October	30	-16	20	FAST
304	October	31	-16	23	FAST

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
60	March	1	12	19	SLOW
61	March	2	12	06	SLOW
62	March	3	11	54	SLOW
63	March	4	11	41	SLOW
64	March	5	11	27	SLOW
65	March	6	11	14	SLOW
66	March	7	10	59	SLOW
67	March	8	10	45	SLOW
68	March	9	10	30	SLOW
69	March	10	10	14	SLOW
70	March	11	9	59	SLOW
71	March	12	9	43	SLOW
72	March	13	9	26	SLOW
73	March	14	9	10	SLOW
74	March	15	8	53	SLOW
75	March	16	8	36	SLOW
76	March	17	8	19	SLOW
77	March	18	8	01	SLOW
78	March	19	7	44	SLOW
79	March	20	7	26	SLOW
80	March	21	7	08	SLOW
81	March	22	6	50	SLOW
82	March	23	6	32	SLOW
83	March	24	6	14	SLOW
84	March	25	5	56	SLOW
85	March	26	5	38	SLOW
86	March	27	5	20	SLOW
87	March	28	5	02	SLOW
88	March	29	4	43	SLOW
89	March	30	4	25	SLOW
90	March	31	4	07	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
91	April	1	3	50	SLOW
92	April	2	3	32	SLOW
93	April	3	3	14	SLOW
94	April	4	2	57	SLOW
95	April	5	2	40	SLOW
96	April	6	2	22	SLOW
97	April	7	2	06	SLOW
98	April	8	1	49	SLOW
99	April	9	1	33	SLOW
100	April	10	1	16	SLOW
101	April	11	1	00	SLOW
102	April	12	0	45	SLOW
103	April	13	0	30	SLOW
104	April	14	0	15	SLOW
105	April	15	0	00	
106	April	16	-0	14	FAST
107	April	17	-0	28	FAST
108	April	18	-0	41	FAST
109	April	19	-0	54	FAST
110	April	20	-1	07	FAST
111	April	21	-1	19	FAST
112	April	22	-1	31	FAST
113	April	23	-1	42	FAST
114	April	24	-1	53	FAST
115	April	25	-2	04	FAST
116	April	26	-2	14	FAST
117	April	27	-2	23	FAST
118	April	28	-2	32	FAST
119	April	29	-2	40	FAST
120	April	30	-2	48	FAST

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
244	September	1	-0	03	FAST
245	September	2	-0	22	FAST
246	September	3	-0	42	FAST
247	September	4	-1	02	FAST
248	September	5	-1	22	FAST
249	September	6	-1	42	FAST
250	September	7	-2	02	FAST
251	September	8	-2	23	FAST
252	September	9	-2	44	FAST
253	September	10	-3	05	FAST
254	September	11	-3	26	FAST
255	September	12	-3	47	FAST
256	September	13	-4	08	FAST
257	September	14	-4	30	FAST
258	September	15	-4	51	FAST
250	September	16	-5	12	FAST
260	September	17	-5	34	FAST
261	September	18	-5	55	FAST
262	September	19	-6	17	FAST
263	September	20	-6	38	FAST
264	September	21	-6	59	FAST
265	September	22	-7	20	FAST
266	September	23	-7	41	FAST
267	September	24	-8	02	FAST
268	September	25	-8	23	FAST
260	September	26	-8	44	FAST
270	September	27	-9	04	FAST
271	September	28	-9	24	FAST
272	September	29	-9	44	FAST
273	September	30	-10	04	FAST

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
213	August	1	6	19	SLOW
214	August	2	6	15	SLOW
215	August	3	6	10	SLOW
216	August	4	6	05	SLOW
217	August	5	5	59	SLOW
218	August	6	5	52	SLOW
219	August	7	5	45	SLOW
220	August	8	5	37	SLOW
221	August	9	5	29	SLOW
222	August	10	5	20	SLOW
223	August	11	5	11	SLOW
224	August	12	5	00	SLOW
225	August	13	4	50	SLOW
226	August	14	4	39	SLOW
227	August	15	4	27	SLOW
228	August	16	4	15	SLOW
229	August	17	4	02	SLOW
230	August	18	3	49	SLOW
231	August	19	3	35	SLOW
232	August	20	3	21	SLOW
233	August	21	3	06	SLOW
234	August	22	2	51	SLOW
235	August	23	2	35	SLOW
236	August	24	2	19	SLOW
237	August	25	2	03	SLOW
238	August	26	1	46	SLOW
239	August	27	1	28	SLOW
240	August	28	1	11	SLOW
241	August	29	0	53	SLOW
242	August	30	0	35	SLOW
243	August	31	0	16	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
121	May	1	-2	55	FAST
122	May	2	-3	02	FAST
123	May	3	-3	08	FAST
124	May	4	-3	14	FAST
125	May	5	-3	19	FAST
126	May	6	-3	24	FAST
127	May	7	-3	28	FAST
128	May	8	-3	31	FAST
129	May	9	-3	34	FAST
130	May	10	-3	36	FAST
131	May	11	-3	38	FAST
132	May	12	-3	39	FAST
133	May	13	-3	40	FAST
134	May	14	-3	40	FAST
135	May	15	-3	39	FAST
136	May	16	-3	38	FAST
137	May	17	-3	36	FAST
138	May	18	-3	34	FAST
139	May	19	-3	31	FAST
140	May	20	-3	28	FAST
141	May	21	-3	24	FAST
142	May	22	-3	20	FAST
143	May	23	-3	15	FAST
144	May	24	-3	09	FAST
145	May	25	-3	03	FAST
146	May	26	-2	57	FAST
147	May	27	-2	50	FAST
148	May	28	-2	43	FAST
149	May	29	-2	35	FAST
150	May	30	-2	27	FAST
151	May	31	-2	18	FAST

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
152	June	1	-2	09	FAST
153	June	2	-1	59	FAST
154	June	3	-1	50	FAST
155	June	4	-1	39	FAST
156	June	5	-1	29	FAST
157	June	6	-1	18	FAST
158	June	7	-1	07	FAST
159	June	8	-0	55	FAST
160	June	9	-0	44	FAST
161	June	10	-0	32	FAST
162	June	11	-0	20	FAST
163	June	12	-0	07	FAST
164	June	13	0	05	SLOW
165	June	14	0	18	SLOW
166	June	15	0	31	SLOW
167	June	16	0	44	SLOW
168	June	17	0	57	SLOW
169	June	18	1	10	SLOW
170	June	19	1	23	SLOW
171	June	20	1	36	SLOW
172	June	21	1	49	SLOW
173	June	22	2	02	SLOW
174	June	23	2	15	SLOW
175	June	24	2	28	SLOW
176	June	25	2	41	SLOW
177	June	26	2	53	SLOW
178	June	27	3	06	SLOW
179	June	28	3	18	SLOW
180	June	29	3	30	SLOW
181	June	30	3	42	SLOW

**EQUATION OF TIME – 2009**

Day No.	Date		Correction		The Sundial Is
	Month	Day	Min.	Sec.	
182	July	1	3	54	SLOW
183	July	2	4	05	SLOW
184	July	3	4	16	SLOW
185	July	4	4	27	SLOW
186	July	5	4	37	SLOW
187	July	6	4	47	SLOW
188	July	7	4	57	SLOW
189	July	8	5	06	SLOW
190	July	9	5	15	SLOW
191	July	10	5	24	SLOW
192	July	11	5	32	SLOW
193	July	12	5	40	SLOW
194	July	13	5	47	SLOW
195	July	14	5	53	SLOW
196	July	15	6	00	SLOW
197	July	16	6	05	SLOW
198	July	17	6	10	SLOW
199	July	18	6	15	SLOW
200	July	19	6	19	SLOW
201	July	20	6	23	SLOW
202	July	21	6	26	SLOW
203	July	22	6	28	SLOW
204	July	23	6	30	SLOW
205	July	24	6	31	SLOW
206	July	25	6	32	SLOW
207	July	26	6	32	SLOW
208	July	27	6	31	SLOW
209	July	28	6	30	SLOW
210	July	29	6	28	SLOW
211	July	30	6	26	SLOW
212	July	31	6	23	SLOW