

# Concordia Isochron Dating

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## Concordia Isochron Dating

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How reliable is radiometric dating? We are repeatedly told that it proves the Earth to be billions of years old. If radiometric dating is reliable than it should not contradict the evolutionary model. According to the Big Bang theory the age of the Universe is 10 to 15 billion years.<sup>1</sup> Standard evolutionist publications give the age of the universe as 13.75 Billion years.<sup>2,3</sup>

Standard evolutionist geology views the Earth as being 4.5 billion years old. Here are some quotes from popular text: “The age of the Earth is  $4.54 \pm 0.05$  billion years.”<sup>4</sup> “The Solar System, formed between 4.53 and 4.58 billion years ago.”<sup>1</sup> “The age of 4.54 billion years found for the Solar System and Earth.”<sup>1</sup> “A valid age for the Earth of 4.55 billion years.”<sup>5,6</sup>

Evolutionists give the age of the galaxy as “11 to 13 billion years for the age of the Milky Way Galaxy.”<sup>1,7</sup> Let us remember this as we look at the following dating as given in secular science journals.

### Age and Mineralogy of Supergene Uranium

Theses rocks from the Bohemian Massif, South East Germany<sup>8</sup> were dated in 2010 using the Uranium-Lead dating method. The table in the essay has three columns of isotopic ratios,  $^{206}\text{Pb}/^{238}\text{U}$ ,  $^{207}\text{Pb}/^{235}\text{U}$  and  $^{207}\text{Pb}/^{206}\text{Pb}$ . You will notice in Table 4 the original article<sup>9</sup> that there are dates besides the  $^{206}\text{Pb}/^{238}\text{U}$  and  $^{207}\text{Pb}/^{235}\text{U}$  ratios but no dates beside the  $^{207}\text{Pb}/^{206}\text{Pb}$  ratios. The first two sets of ratios and dates agree with each other between 94 and 101 percent accuracy. If we use the computer program Isoplot<sup>10</sup> and calculate the ages of the  $^{207}\text{Pb}/^{206}\text{Pb}$  ratios we see why not dates have been put beside them. In **Table 1** we can see that many dates are negative. That is logically impossible. How can the rock have formed millions of years in the future?

**Table 1**

Sample	Pb-206/207	Sample	Pb-206/207
Name	Negative Ages	Name	Negative Ages
A30	-29	A06	-29
A35	-8	A10	-45
A04	-18	A11	-83
A07	-8	A12	-23
A10	-8	A13	-133
A11	-13	A17	-116
A18	-8	A19	-72
A19	-18	A21	-2
A20	-8	A26	-34
		A27	-13
		A29	-45
		A39	-8
		A40	3
		A41	-50

In **Table 2** we can see that the  $^{207}\text{Pb}/^{206}\text{Pb}$  dates are between 1,000 to 21,000 percent discordant when compared to the two Uranium-Lead dating methods. Here is just one of many times where geology journals use selective evidence to try and prove evolution. If the third column or ratios were dated and added to the essay you can see how silly it would look.

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Table 2

Sample	Difference	Sample	Difference
Name	Percent	Name	Percent
A26	1,087	A01	1,006
A29	1,192	A16	1,073
A25	1,202	A32	1,891
A41	1,338	A31	2,067
A07	1,964	A30	3,070
A19	2,385	A29	3,539
A10	2,389	A33	10,452
A22	2,551	A36	16,112
A18	3,126		
A30	3,129		
A24	3,360		
A09	3,612		
A13	4,616		
A05	4,881		
A06	4,982		
A11	5,350		
A25	5,479		
A08	5,628		
A42	6,215		
A04	6,551		
A22	7,031		
A43	10,253		
A17	10,673		
A21	15,256		
A20	21,500		

### 207Pb–206Pb and 40Ar–39Ar ages from SW Montana

These rocks from North America were dated in 2002 using both <sup>41</sup> Potassium-Argon and Lead-Lead dating methods. Again the no dates beside the <sup>207</sup>Pb/<sup>206</sup>Pb ratios. If we add dates we soon see why. The first table in his article has dates <sup>12</sup> using the <sup>40</sup>Ar–<sup>39</sup>Ar dating method. The third table <sup>13</sup> has the <sup>207</sup>Pb/<sup>206</sup>Pb ratios.

Table 3

Sample	K-Ar Dating	K-Ar Dating	Pb Dating	Pb Dating
Name	Max Age	Min Age	Max Age	Min Age
RRCR2	1,818	1,695	4,471	1,895
RRSW1	1,806	1,740	5,011	4,032
HLM2	1,853	1,620	4,522	1,848
TRMR2	1,729	1,199	5,049	2,644

If we use the computer program Isoplot and calculate the ages of the <sup>207</sup>Pb/<sup>206</sup>Pb ratios we see why not dates have been put beside them. The Potassium-Argon and Lead-Lead dating methods are extremely discordant. The author's use of data is very selective. Dates that agree are added and those that do not are omitted. This happens over and over in geology magazines. We can see from the table below that many dates are older than the evolutionist view of the age of Earth. How can such an absurdity be possible? How can the Earth be older than itself?

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Table 4

Sample Name	Million Years	Age Category
RRSW1	5,005	Older Than The Solar System
RRSW1	5,011	Older Than The Solar System
RRSW1	4,939	Older Than Earth
TRMR2	5,015	Older Than The Solar System
TRMR2	5,049	Older Than The Solar System

<sup>207</sup>Pb/<sup>206</sup>Pb Dates

## Uranium-Thorium-Lead Dating

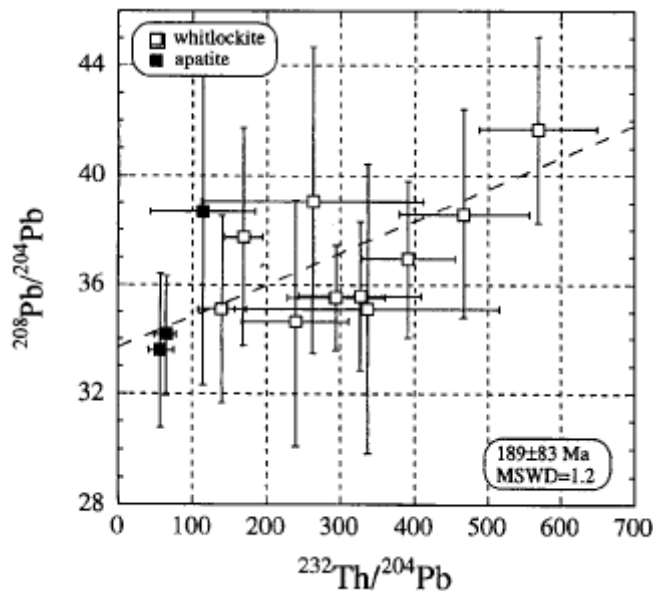
This dating <sup>14</sup> was done in 1999 on meteorite samples by the Department of Earth and Planetary Sciences, Hiroshima University in Japan. Below we can see the isotopic ratios take from Table 2 in the original article. <sup>15</sup> Using the computer program Isoplot we calculate the ages of the <sup>207</sup>Pb/<sup>206</sup>Pb ratios we see why not dates have been put beside them.

Table 5

Pb-207 / Pb-206	Million Years	Age Category
0.889	5,071	Older Than Solar System
0.916	5,114	Older Than Solar System
0.876	5,051	Older Than Solar System
0.869	5,039	Older Than Solar System
0.922	5,123	Older Than Solar System
0.867	5,036	Older Than Solar System

5,051 to 5,123 million years old.

Diagram 1



According to the Isochron [1, 2 and 3] diagrams in the article <sup>16</sup> the meteorites are only supposed to be 200 million years old! This means that the dates are 4,800 million years in error. The ratio of the so called “true” age versus the <sup>207</sup>Pb/<sup>206</sup>Pb age is 25 to 1. The author deliberately chose not to put the dates beside the isotopic ratios because they would show how utterly ridiculous the whole system is. According to the Isochron diagram in the article, the maximum error level is only 83 million years. The error level is 4934 years if we compare it to the <sup>207</sup>Pb/<sup>206</sup>Pb age. This means the error level is 59 times in error.

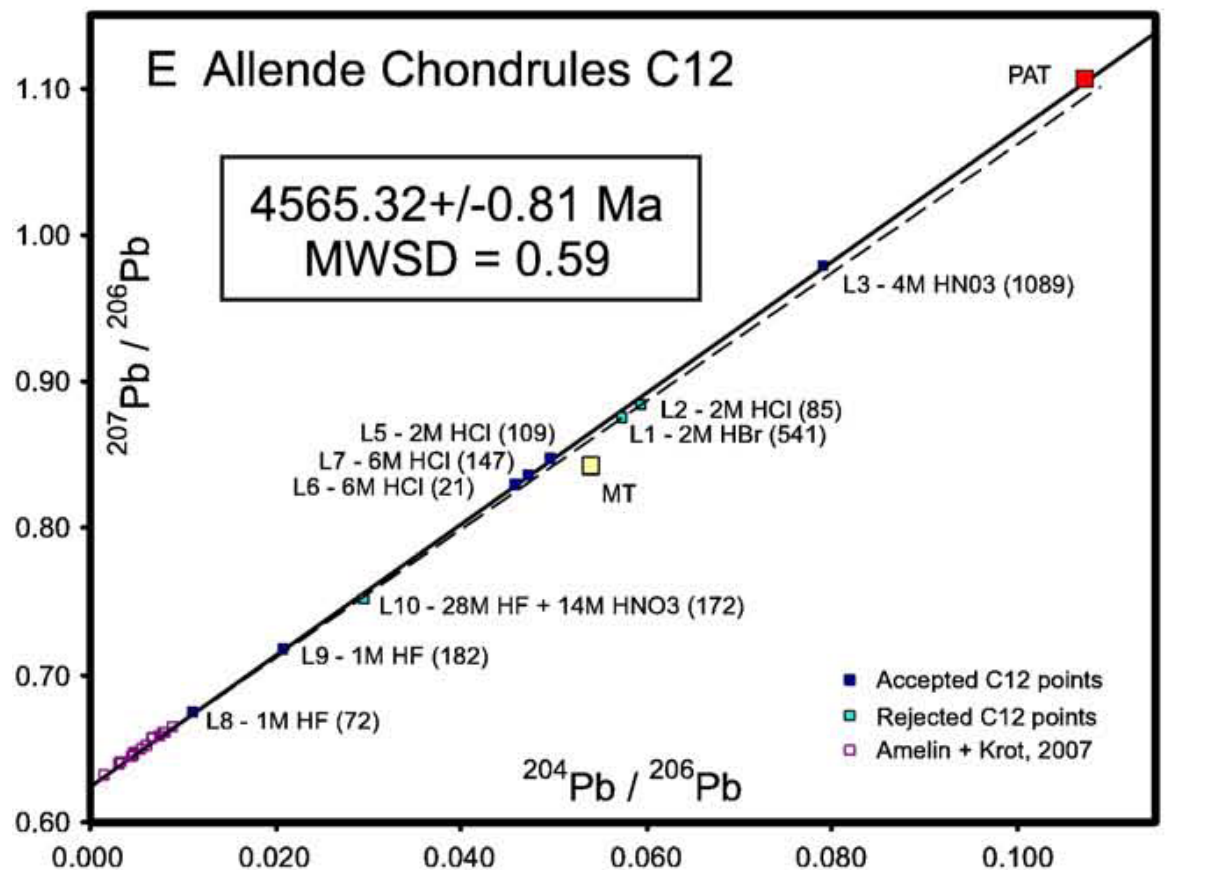
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## Pb–Pb dating of Chondrules

The meteorite samples <sup>17</sup> were dated in 2009 by scientists from the Geological Museum, University of Copenhagen and The University of Texas at Austin. If we use Isoplot and run some of the <sup>207</sup>Pb/<sup>206</sup>Pb ratios given in the article <sup>18</sup> through Microsoft Excel we see that many of the ratios produce ages over 5 billion years old.

Below we can see a Concordia diagram taken from the article <sup>19</sup> that shows the age of the rocks to be 4,565 million years old. As you can see the diagram claims that the error margins is only 810,000 years! If we add the <sup>207</sup>Pb/<sup>206</sup>Pb ratios dates we can see that the diagram is out by 550 million years. That means the error margin given in the diagram is 677 times to short!

Diagram 2



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Table 6

Sample Number	Age Million Years	Age Category
C2-L1	5,194	Older Than Solar System
C2-L2	5,190	Older Than Solar System
C2-L3	5,089	Older Than Solar System
C2-L6	5,020	Older Than Solar System
C4	5,174	Older Than Solar System
C4-L6	5,013	Older Than Solar System
C4-L7	5,094	Older Than Solar System
C4-L8	5,051	Older Than Solar System
C7	5,091	Older Than Solar System
C7-L7	5,032	Older Than Solar System
C7-L8	5,021	Older Than Solar System
C12-10	5,050	Older Than Solar System
C12-L2	5,063	Older Than Solar System
C12-L3	5,206	Older Than Solar System
C12-L5	5,002	Older Than Solar System

5,002 to 5,206 million years old.

### Pb–Pb Dating Constraints

This dating <sup>20</sup> was done in 2007 on meteorite samples by the Washington State University, Department of Geology. We can see from table seven which data in my essay the data was obtained from in Audrey Bouvier's essay.

Table 7

Her Essay	My Essay
Table 2, Page 1587	Table 8
Table 3, Page 1588	Table 9
Table 4, Page 1589	Table 10
Table 5, Page 1590	Table 11
Table 6, Page 1590	Table 12

One of the concordia diagrams <sup>21</sup> in the article gives the following data:

**Chondrules: 4565.5 ± 1.2 Ma**  
**Pyroxenes: 4564.3 ± 0.8 Ma**  
**Phosphates: 4562.7 ± 0.7 Ma**

We are told that the date of 4,565 million years old is only one million years in error at the maximum. If run some of the <sup>207</sup>Pb/<sup>206</sup>Pb ratios given in the article through Isoplot, we see that many of the ratios produce ages over 5 billion years old. The oldest is 5,379 million years. The error margin given in the article is 814 times in error.

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**Table 8**

Sample	Age	Age
Name	Million Years	Category
Allende, Whole-rock-R0	5,334	Older Than Solar System
CV3, L0	5,325	Older Than Solar System
MNHN, L1	5,250	Older Than Solar System
MNHN, L2	5,258	Older Than Solar System
MNHN, L1	5,296	Older Than Solar System
MNHN, L2	5,029	Older Than Solar System
UCLA, L1	5,244	Older Than Solar System
UCLA, L1	5,244	Older Than Solar System
UCLA, L1	5,245	Older Than Solar System
UCLA, Olivine-R0	5,344	Older Than Solar System
UCLA, L0	5,336	Older Than Solar System
Murchison, Whole-rock-R0	5,333	Older Than Solar System
CM2, L0	5,321	Older Than Solar System
CM2, CAI-R0-Murch	5,238	Older Than Solar System
CM2, L0	5,267	Older Than Solar System
ENSL, Blanke	5,016	Older Than Solar System
Canyon-Diablo, Troilitef	5,379	Older Than Solar System

5,016 to 5,379 million years old.

**Table 9**

Pb-206/Pb-207	Age	Age
Ratio	Million Years	Category
0.86665	5,035	Older Than Solar System
0.84518	5,000	Older Than Solar System
0.86306	5,030	Older Than Solar System
0.84983	5,008	Older Than Solar System
0.96359	5,185	Older Than Solar System
0.98081	5,210	Older Than Solar System
0.91120	5,106	Older Than Solar System
1.09068	5,359	Older Than Solar System
0.87958	5,056	Older Than Solar System
0.96906	5,193	Older Than Solar System

5,000 to 5,359 million years old.

**Table 10**

Pb-206/Pb-207	Age	Age
Ratio	Million Years	Category
0.85705	5,020	Older Than Solar System
0.85871	5,022	Older Than Solar System
0.85888	5,023	Older Than Solar System
0.85681	5,019	Older Than Solar System

5,019 to 5,023 million years old.

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**Table 11**

Pb-206/Pb-207	Age	Age
Ratio	Million Years	Category
0.90695	5,100	Older Than Solar System
0.86255	5,029	Older Than Solar System
0.85613	5,018	Older Than Solar System
0.86644	5,035	Older Than Solar System
0.92835	5,133	Older Than Solar System
0.91990	5,120	Older Than Solar System
0.92542	5,128	Older Than Solar System
0.90807	5,101	Older Than Solar System
0.90861	5,102	Older Than Solar System

5,018 to 5,133 million years old.

**Table 12**

Pb-206/Pb-207	Age	Age
Ratio	Million Years	Category
0.88990	5,073	Older Than Solar System
0.87125	5,043	Older Than Solar System
0.89581	5,082	Older Than Solar System
0.89269	5,077	Older Than Solar System
0.85401	5,015	Older Than Solar System
0.89561	5,082	Older Than Solar System
0.98433	5,215	Older Than Solar System
0.92618	5,129	Older Than Solar System
0.99857	5,235	Older Than Solar System
0.95025	5,166	Older Than Solar System
1.01559	5,259	Older Than Solar System

5,015 to 5,259 million years old.

### U–Th–Pb Dating of Hydrothermal ore Deposits

This dating <sup>22</sup> was done in 2010 on rocks from eastern China. If we look at one of the tables <sup>23</sup> in the original essay we see four columns of isotopic data <sup>207</sup>Pb/<sup>206</sup>Pb, <sup>207</sup>Pb/<sup>235</sup>U, <sup>206</sup>Pb/<sup>238</sup>U and <sup>208</sup>Pb/<sup>232</sup>Th. Three have dates beside them but here are no dates beside the <sup>207</sup>Pb/<sup>206</sup>Pb ratios. If we run the <sup>207</sup>Pb/<sup>206</sup>Pb ratios through Isoplot we soon see why there are no dates beside them. According to the Concordia diagrams in the essay <sup>24</sup> the rocks are supposed to be 137 million years old with an average age of 120 million years.

**Table 13**

Sample	Maximum	Minimum	Average
Name	Age	Age	Age
TLS01	2,508	272	943
TLS02	346	8	254
S38	1,682	-294	354
S38	2,508	-139	899
S39	440	-325	94

<sup>207</sup>Pb/<sup>206</sup>Pb dates.

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Table 14

Sample	Maximum	Minimum	Difference	Percentage	Age
Name	Age	Age	Age	Difference	Category
S38-1-a1	12,721	136	12,585	9,253%	Older Than Galaxy
S38-3-a1	7,663	136	7,527	5,534%	Older Than Solar System
S38-3-a2	11,457	44	11,413	25,938%	Older Than Galaxy
S38-3-a3	7,175	130	7,045	5,419%	Older Than Solar System

Some of the dates listed in the article <sup>23</sup> are older than the age of the Solar System and Galaxy! The author offers an explanation: “Due to the very low Th contents in the calcite-hosted titanite, no meaningful <sup>208</sup>Pb/<sup>232</sup>Th ages were obtained.” <sup>25</sup>

### U–Th–Pb dating of Yucca Mountain, Nevada

This dating was done <sup>26</sup> in 2008 by the U.S. Geological Survey office in Denver, Colorado. You will notice in Table 1 the original article <sup>27</sup> that there are no dates beside the <sup>207</sup>Pb/<sup>206</sup>Pb ratios. If we use the computer program Isoplot and calculate the ages of the <sup>207</sup>Pb/<sup>206</sup>Pb ratios we see why not dates have been put beside them.

Table 15

Sample	206-Pb/207-Pb	Age
Name	Million Years	Category
HD1939Pb1-Cc	5,474	Older Than Solar System
HD2055Pb6-Cc	5,632	Older Than Solar System
HD2055Pb7-Cc1	5,512	Older Than Solar System
HD2055Pb7-Cc2	5,523	Older Than Solar System
HD2055Pb10-Cc	5,587	Older Than Solar System
HD-2057-Pb1-Cc	7,864	Older Than Solar System
HD-2057-Pb2-Cc	6,577	Older Than Solar System
HD2059Pb4-Cc	7,474	Older Than Solar System
HD2062Pb2-Cc	5,528	Older Than Solar System
HD2062Pb3-Mn	5,450	Older Than Solar System
HD2065Pb4-Cc	7,202	Older Than Solar System
HD2074Pb1-Cc3	6,304	Older Than Solar System
HD2074Pb2-Cc1	7,569	Older Than Solar System
HD2074Pb2-Cc2	6,519	Older Than Solar System
HD2089APb2-Cc	6,973	Older Than Solar System
HD2089APb3-Mn	5,483	Older Than Solar System
HD2092Pb1-Cc	5,567	Older Than Solar System
HD2092Pb1-Mn	5,452	Older Than Solar System
HD2098Pb3-Cc	5,891	Older Than Solar System
HD2109Pb1-Cc	5,806	Older Than Solar System
HD2155Pb1-Cc	6,349	Older Than Solar System
HD2177Pb2-Cc	5,792	Older Than Solar System
HD2177Pb1-Mn	5,452	Older Than Solar System
HD2227Pb1-Cc	6,109	Older Than Solar System
HD2227Pb1-Mn	5,453	Older Than Solar System
HD2231Pb1-Cc	5,472	Older Than Solar System
HD2233Pb2-Ch1	7,933	Older Than Solar System
HD2233Pb2-Ch2	8,186	Older Than Solar System
HD2233Pb3-Ch	7,583	Older Than Solar System
HD2233Pb4-Ch	7,898	Older Than Solar System

5,450 to 8,186 million years old.



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The dates are between 5,450 and 8,186 million years old. The average age is 6,320 million years old. Table 3 in the original article <sup>28</sup> has dates older than the universe and extreme discordance with up to 2 million percent. The average discordance is 212,000 percent!

### 40Ar/39Ar and U-Th-Pb Dating

This meteorite sample <sup>29</sup> was dated in 1983 by Donald Bogard from the Johnson Space Center, Houston Texas. If we look in Table 5 in the original article we see that there are dates beside the <sup>207</sup>Pb/<sup>208</sup>Pb ratios no dates beside the <sup>207</sup>Pb/<sup>206</sup>Pb ratios. If we run the <sup>207</sup>Pb/<sup>206</sup>Pb ratios through Isoplot we see that they uniformly differ with the <sup>207</sup>Pb/<sup>208</sup>Pb dates given in the essay. The author's choice to drop these dates and only have dates beside the <sup>207</sup>Pb/<sup>208</sup>Pb ratios is just an arbitrary choice.

**Table 16**

<b>Age</b>	<b>Age</b>	<b>Age</b>
<b>Pb-207/208</b>	<b>Pb-207/206</b>	<b>Category</b>
4,560	5,370	Older Than Solar System
4,720	5,364	Older Than Solar System
4,560	5,364	Older Than Solar System
4,450	5,283	Older Than Solar System
4,700	5,371	Older Than Solar System
4,540	5,367	Older Than Solar System
4,410	5,082	Older Than Solar System
4,560	5,368	Older Than Solar System
4,700	5,367	Older Than Solar System
4,500	5,333	Older Than Solar System

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## Isotopic Lead Investigations

These meteorite samples were dated in 1975 by the Department of Geological Sciences, University of California, Santa Barbara, California.<sup>31</sup> From Table 2 in the original article we can calculate the  $^{207}\text{Pb}/^{206}\text{Pb}$  ratios and then we run them through Isoplot. The ages are consistently older than the age of the Solar System.

**Table 17**

<b>Sample</b>	<b>Pb 206/207</b>	<b>Age</b>
<b>Name</b>	<b>Ages</b>	<b>Category</b>
7-1	5,175	Older Than Solar System
7-2	5,300	Older Than Solar System
7-3	5,287	Older Than Solar System
7-4	5,346	Older Than Solar System
4-1	5,337	Older Than Solar System
W-2	5,342	Older Than Solar System
Allende-1	5,297	Older Than Solar System
Allende-2	5,326	Older Than Solar System
Allende	5,262	Older Than Solar System
9-1	5,324	Older Than Solar System
M-2	5,322	Older Than Solar System
9-3	5,339	Older Than Solar System
9-4	5,334	Older Than Solar System
ChL-1 (IC)	5,138	Older Than Solar System
ChL-1 (ID)	5,137	Older Than Solar System
Ch3 (IC)	5,220	Older Than Solar System
Ch3 (ID)	5,227	Older Than Solar System
ChD (IC)	5,103	Older Than Solar System
ChD (ID)	5,099	Older Than Solar System

## Conclusion

Prominent evolutionist Brent Dalrymple states:

“Several events in the formation of the Solar System can be dated with considerable precision.”<sup>33</sup>

Looking at some of the dating it is obvious that precision is much lacking. He then goes on:

“Biblical chronologies are historically important, but their credibility began to erode in the eighteenth and nineteenth centuries when it became apparent to some that it would be more profitable to seek a realistic age for the Earth through observation of nature than through a literal interpretation of parables.”<sup>34</sup>

The Bible believer who accepts the creation account literally has no problem with such unreliable dating methods. Much of the data in Dalrymple’s book is selectively taken to suit and ignores data to the contrary.

<http://creation.com/radiometric-dating-questions-and-answers>

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