REVELATION AND REALITY

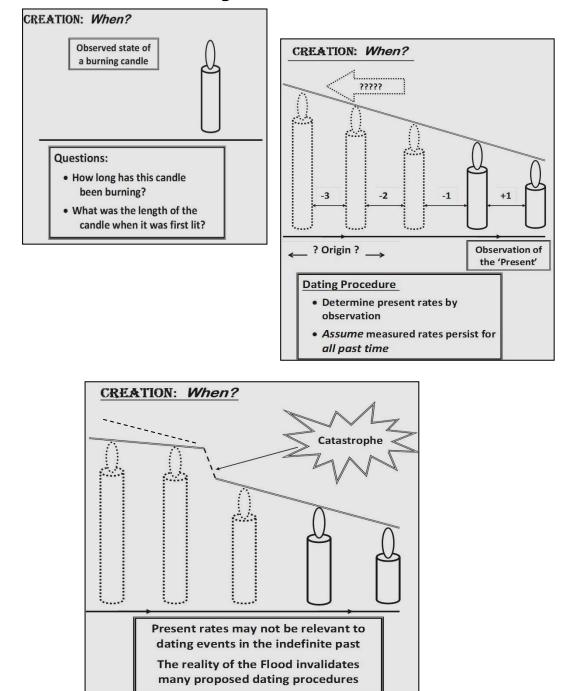
The Issue of Origins: Biblical, Philosophical and Scientific Perspectives Concerning The Truth about What is Real

Origins and Reality according to Infallible Scripture and True Science

- Lecture #1. Foundations: The Battle of Authority
- Lecture #2. The Primordial Cosmos: Part 1
- Lecture #3. The Primordial Cosmos: Part 2
- Lecture #4. The Young Solar System
- Lecture #5. Carbon-14 Dating and True Science

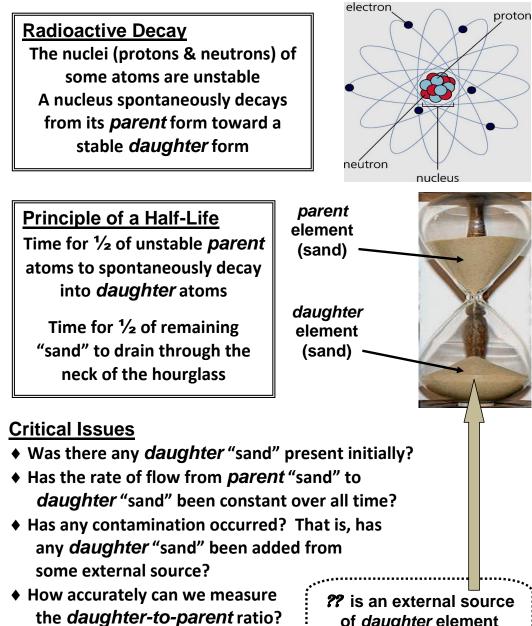
Lectures by: L.G. Redekopp The Bridge Bible Fellowship Summer 2020

Contact: lg.redekopp@usc.edu

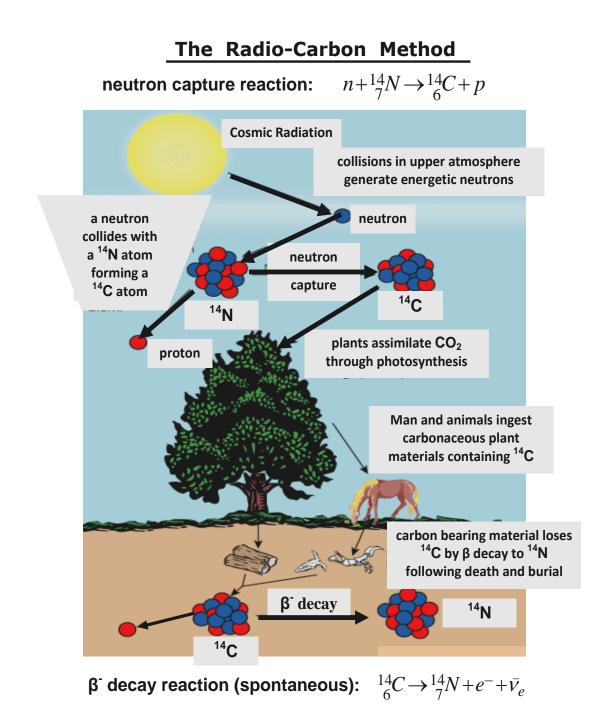


The Issue: Dating the Past Based on the Present

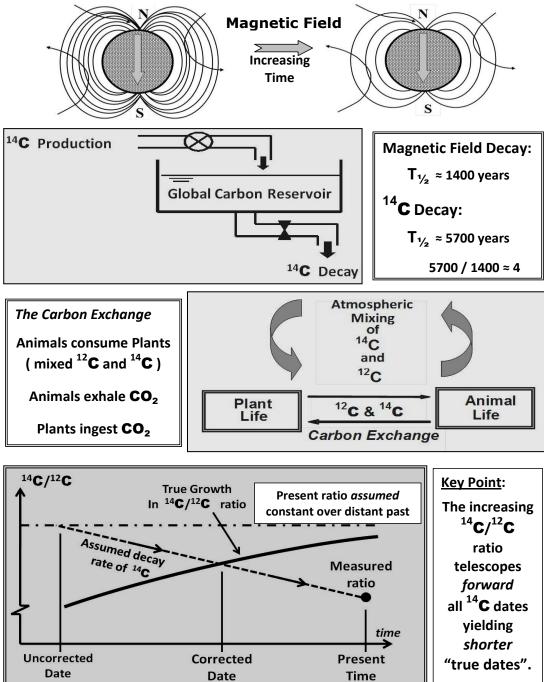
Radiometric Dating: Fundamental Considerations



of daughter element (sand) available ??



The Radio-Carbon Method cont'd.



Published Ages	Number of	"Corrected" Ages	
of	Dated	of	
Specimens	Specimens	Specimens	
0 - 580	780	0 - 500	
580 - 1160	1174	500 - 1000	
1160 - 1745	857	1000 - 1500	
1745 - 2340	777	1500 - 2000	
234 - 2940	628	2000 - 2500	
2940 - 3545	538	2500 - 3000	
3545 - 4160	447	3000 - 3500	
4160 - 4780	371	3500 - 4000	
4780 - 5410	290	4000 - 4500	
5410 - 5995	🗙 86 🌟	4500 - 4950	
5995 - 6805	218	4950 - 5500	
6805 - 7500	146	5500 - 6000	
7500 - 8215	133	6000 - 6500	
8215 - 8950	127	6500 - 7000	
8950 - 9710	107	7000 - 7500	
9710 - 10,500	86	7500 - 8000	
10,500 - 11,320	66	8000 - 8500	
11,320 - 12,980	72	8500 - 9500	
12,980 - 15,000	65	9500 - 10,500	
15,000 - 17,100	52	10,500 - 11,500	
17,100 - 19,900	41	11,500 - 12,500	
19,900 - 23,240	39	12,500 - 13,500	
23,240 - 29,120	51	13,500 - 14,500	
29,120 - 37,740	127	14,500 - 15,500	
37, 740 - ∞	13	15,500 - 15,700	

The Issue: Dating the Past Based on the Present

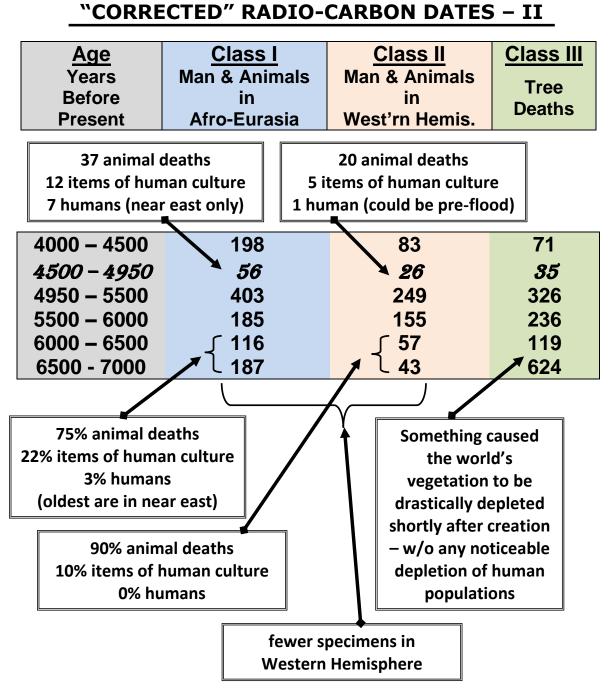
RADIO-CARBON DATES

Adapted from: R. L. Whitelaw, Creation Res. Soc. Quart., Vol. 7, pp.56-71, 1970.

DISTRIBUTION OF "CORRECTED" RADIO-CARBON DATES

Period Number of Dated Specimens in Each Period			h Period
Age Years Before Present	<u>Class I</u> Man & Animals in Afro-Eurasia	<u>Class II</u> Man & Animals in Western Hemisphere	<u>Class III</u> Tree Deaths
0 - 500	276	496	154
500 - 1000	384	803	150
1000 - 1500	361	540	119
1500 – 2000	357	391	108
2000 - 2500	363	253	110
2500 - 3000	344	182	108
3000 - 3500	289	158	102
3500 - 4000	259	114	91
4000 - 4500	198	83	71
4500 - 4950	🗙 56	26	🗙 35
4950 - 5500	403	249	326
5500 - 6000	185	155	236
6000 - 6500	116	57	119
6500 - 7000	□ 187	4 3	□ 624

Adapted from: R. L. Whitelaw, Creation Res. Soc. Quart., Vol. 7, pp. 56-71, 1970.



Adapted from: R. L. Whitelaw, Creation Res. Soc. Quart. Vol. 7, pp. 56-71, 1970

¹⁴ C Content for 10 Coal Samples			
Era	Location	Conventional Age	¹⁴ C / ¹² C pMC ± 1σ
Cenozoic (recent life)			
	Montana	34 – 55 M yrs	0.27 ± 0.02
	North Dakota	34 – 55 M yrs	0.20 ± 0.02
	Texas	34 – 55 M yrs	0.30 ± 0.03
Mesozoic (middle life)			
	Arizona	65 – 145 M yrs	0.18 ± 0.02
	Utah	65 – 145 M yrs	0.10 ± 0.03
	Utah	65 – 145 M. yrs	0.35 ± 0.03
Paleozoic (ancient life)			
	Illinois	300 – 311 M yrs	0.29 ± 0.03
	Kentucky	300 – 311 M yrs	0.46 ±0.03
	Pennsylvania	300 – 311 M yrs	0.13 ± 0.02
	Pennsylvania	300 – 311 M yrs	0.19 ± 0.02
Average pMC = 0.247 ± 0.025 → → ≈ 50,000 yrs			
¹⁴ C Content for 12 Diamond Samples			
Average pMC = 0.09 ± 0.025 → → ≈ 60,000 yrs			
J.R. Baumgardner "Radioisotopes and the Age of the Earth – Vol.2" pp. 587 – 630			

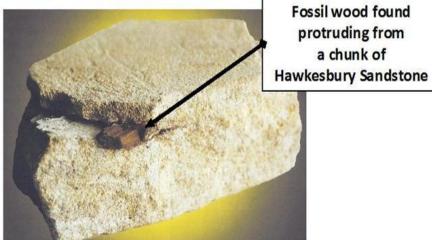
Discordant Radioactive Dates Fossil Wood in 'Ancient' Sandstone

Fossil Information

- Location: Sydney, Australia

 and surrounding area (60 mi radius)
- Fossil Position: Hawkesbury Sandstone

 a formation covering 7,700 sq. mi. up to 820 ft thick
- + A very hard, durable rock (mineral quartz grains)
 - visible as prominent cliffs along Sydney Harbor ... and containing spectacular fossil graveyards of fish, sharks and plants.
- Nominal 'age' of Hawkesbury formation:
 - ~ 225 230 million years



Nominal ¹⁴C 'Age': [~] 33,720 ± 430 yrs "Flood Corrected" Age: [~] 4500 yrs

Ref. A. Snelling, Creation, Vol. 21, pp. 39-41, (1999)

Discordant Radioactive Dates Fossil Wood in an 'Ancient' Basalt Flow

	C) Analysis of Fostoal Mine, Queensland	
Sample	Lab	¹⁴ C Age (yrs.)
Wood in Drill Core	Geochron Lab	> 35,620
Wood in Drill Core	ANSTO	44,700 ± 950
Wood Sample #1	Geochron Lab	29,544 ± 759
Wood Sample #2	ANSTO	37,800 ± 3,450

Basalt Sample	Lab	K–Ar 'Age' (Millions of Yrs)	Avg. K–Ar Age (Millions of Yrs)
Outcrop #1	AMDEL	44.9 ± 1.1	
Outcrop #2	AMDEL	47.9 ±1.6	43.9 ± 4.8
Outcrop #2	Geochron	39.1 ± 1.5	
Drill Core	Geochron	ح 58.3 ± 2.0	47.5 ± 10.8
Drill Core (near wood)	Geochron	36.7 ± 1.2 ∫	47.51 10.8

Nominal 'Age' of Basalt Flow: ≈ 30,000,000 yrs

"Corrected" ¹⁴C Age of Wood Samples: ≈ 4500 yrs

Ref. A. Snelling, Creation, Vol. 20 (1), pp. 24-27 (1997-98)

Age of the Earth: 'True Science' Assessment

"Whole Planet" Data

Decay of Earth's Magnetic Field → Age of Earth < 10,000 years

Good correspondence with Biblical Creation Model \rightarrow 6000 year age

"Local" Measurements

¹⁴**C** Dating of Fossiliferous Material → Age of Earth < 15,000 years

Good correspondence with Biblical Creation Model \rightarrow 6000 year age

Summary Chronology of the Old Testament		
Year An. Hom.	Year BCC (Before Christ Corrected)	Dated Events and Comments
0	1	Adam created; Fall & Imposition of Curse.
1	4042	Adam Age 1 – A Mature Adult.
•	-	•••
1656	2387	Noahic Deluge (Flood).
•	•	•••
2083	1960	Covenant Promise given to Abraham.
	4500	
2513	1530	Exodus Begins.
2012	980	••• David bogins to roign as King of Israel
3063	900	David begins to reign as King of Israel.
3587	456	Babylon conquered by Medo-Persia.
		•••
	1000	Beginning of the first 69 weeks (483 years) of
3589	454	Daniel's 70 weeks (of years).
•	•	
4038	5	Birth of Christ.
4039	4	Christ age 1
	•	•••
4042	1 BCC	Christ age 4
4043	1 AD	Christ age 5