Figure (Table) 6

DISPUTED EXPLANATIONS OF THE TESTS OF TIME

Test (mostly of absolute time)		Idea of the Test	Evolutionary Explanation	Quantavolutionary Explanation
I. Earth Surface Features				
1.	Gross forms and Relations	Estimate of age, based on theory and presupposi-tions, of lakes, cratering, diastrophism, continental displacement, etc.	Convection-currents from hot mantle, snow and rain, and erosion define features over long times.	All forms can be quickly created under high-energy conditions.
2.	Rock (or fossils) appearance	Judgements of freshness, looseness, etc.	Appearances are deceptive; gradual erosion and cementation	The “eye,” feeling, and taste can distinguish age often
3.	Superposition of strata	Over-layers younger than under-layers, barring intr-usions, displacement	Accepted and basic	Accepted and basic

4.	Sedimentation of materials	Rate of deposit, based on observation and / or suppositions of past rates	Generally, present rates are typical of past rates rates	Revolutions have generally intruded with exponential
5.	Erosion of materials	Rate of deposit, based on observation and/or suppositions of past rates	Generally, present rates are typical of past rates rates	Revolutions have generally intruded with exponential
6.	Salt deposits	Same as I-1 plus I-4	Gradual evaporation of stranded salt waters	Dumping of hot waters or sudden burial
7.	Metal deposits	Same as I.1	Old magmatic extrusions from below	Catastrophic column fallout or cosmic dumping.
8.	Caves, stalagmites	Present rate of growth, retrocalculated	Water filtration through limestone, etc., long-term	Thermal and electrical hi-energy digging and carving
9.	Metamorphic Rock	Past heat and pressure rate; terminated + I.1-2	Gradual heating and non-castrophic forming	Quasi-explosive and/or electrical trical heating
10.	Magnetism of Rocks	Magnetometer registers last melt (a) Magnetic N orientation and (b) intensity	Infrequent reversals now believed in with great effects time	Successive reversals amid moving surfaces shortens
11.	Fluid pressures (gas, oil, water)	Pressure, quantity, rate, exit time = retrocalculation	Entombed fluids finally break through	Continued pressure means late entrapment

12.	Conglomeration	Same as I.1-4-5	Waters and air aggregate different material	Great forces from long distances agglomerate material
II.	***Biological Indicator***			
1.	Birth and Extinction of species	Elapsed time for species to develop, ramify, and become extinct	Occurs slowly by II.5-6-7 and individually with slow ecological change	Occurs by radiation and catastrophe. “Missing links” every where
2.	Fossil (includes bones, pollen, etc.) superposition	See I.3	Orderly succession of species from primitive to modern	Orderly short-time specie succession; sometimes devolution, cross-zoning and confused identification of assemblages
3.	Fossil zoning	Ecological life niches occupied and abandoned, changed and overlaid	Ladder of long-time succession of life niches	Disastrous cross-currents transport and superimpose different fossil beds. *Vs*. I-3
4.	Fossil succession	Superposed beds carry younger, more developed species	Evolution promotes young, developed fossils to higher rocks	Many exceptions, assumptions, anomalies, mixtures
5.	Adaptation time	Time elapsed for accommodating to new surroundings	New species take long breeding for their various life niches	Prompt adaptation occurs with heavy mutation; many vacated niches

6.	Selection time	Time estimates for proliferation of species vs. competition	Requires long time	Rapid diffusion common
7.	Mutation time	Time between successful mutations plus proliferation for species development	With enough time, enough successful mutation for evolutionary branching	Radiation and ecological disasters bunch changes; young species abruptly succeeded. "Missing links" rare
8.	Tree-ring (dendrochronology)	Seasons mark solar years on logs back 5,000 years if matched	Uniformity of recent past evident, earth motions constant	Major gaps and variations in rings; possible substitute cause of rings
9.	Fossil appearance	Youth and age of outcrop or exposed fossils and bones expertly guessed	Experts cannot tell age by visual examination	Experts can see that deposits believed old are really young
10.	Coral reefs	Measure growth; relate to years by present rate	Coral columns of 10^5 years found. Also many fossil corals before	Coral rate varies with minerals, heat. Can grow in shallows of rising waters.
11.	Character of assemblages	Variety, numbers, ambiance, and cause of death	Views assemblages as accidents or repeated incidents	Views for cause, dimenslons of catastrophe, extinction

12.	Fossil fuel formations (coal, oil)	Time required to form coal and oil	Organic sediments, long-term, special conditions	Bull-dozing, deep burial of heated biosphere and some cosmic oil fallout
III.	***Chemo-physical Measures***			
1.	Radiocarbon(^{14}C)	Decay of ^{14}C to ^{14}N in dead organisum proportionate to time of death to 50,000 years	Accepted and basic, with occasional minor deviations	Atmospheric and decay inconstancy invalidates pre-2,500 B.P.
2.	^{40}Potassim - ^{40}Argon ratio	Decay of ^{40}K to ^{40}A in igneous rock proportionate to last melt, 10^5 - 10^9 years	Can approximate rock age back to pre-Cambrian	Migration, new infusions of ^{40}A invalidate; anomalies
3.	Uranium^{238} - Lead^{206} ratio	Decay of ^{40}K to ^{206}Pb in minerals (non-sedimentary) measured from original crystallization of rock	Same as III-2	Migration and decay inconstancy of U-Lead chain invalidates
4.	Thorium^{232} - Lead^{208} ratio	Decay of ^{232}Th to ^{208}Pb in same	Same as III-2	Same as III-3

5.	Rubidium^{87}-Strontium^{87} ratio	Decay of ^{87}Rb to ^{87}Sr in minerals with ^{87}Sr measured from original rock	Same as III-2	Migration of Rb invalidates completely
6.	Thermo-Luminescence	Loss of luminescence of rocks and ceramics since last heating beyond 580°C	A promising method not yet applied and reliable	Promising, little applied, still in realm of nuclear uncertainties
7.	Uranium fission tracks dating	Etchings of charged particle collision with micas are counted and related to decay rate	A promising supplement to III-3	Subject to radionic disasters and cosmic-ray erasures
8.	Oceanic uranium abundance dating	Elaspsed time for uranium to reach present level given known input and output	Unmeasurable or incomprehensible	Short time (10^4) to reach present levels of accumulation
9.	Radiocarbon non-equilibrium method of dating atmosphere	Rate used for dating implies decline of ^{14}C to zero in 13,000 years	Anomalous or unverifiable	Atmosphere transformed implying castasrophes

10.	Temperature gradients of planet	Loss of heat is function of known conditions, known event, hence tells elapsed time	Inner dynamics of bodies unknown; radio-activity; earth fractures are hot plate boundaries	Declining heat is function of elapsed time and recent catastrophes; heat is escaping at fracture boundaries
11.	Soils chemical analysis	Micro-constituents of sediments (soil, ash, clay, etc.) show events.	Normal fires, air, water deposits produce exterme constituents	Volume, mix, context permit revolutionary period indexing and portray
IV.	***Astronomical Motions***			
1.	Planetary and Satellite Orbits	Regular measureable orbits permit retrocalculations of ancient events	Accepted; universal laws retroactive to solar system genesis	Orbits are empirical; changeable by high energy displacements
2.	Rotation of bodies	Regular rotation reliable retrocaluclations	Accepted; calcuable to original emplacement of body; known regular and minute changes	Origin of rotation from older motions; all motions changeable redically, *cf.* Venus
3.	Elecrical fields (charging)	Periods of heavy Earth discharges exist and correlate to human behavior	Speculations; Earth is low-charged and always has been	A developing analysis of several period by evidence of cosmic discharges

4.	Solar emission inconstancy	Solar winds and radiance rates can be retro-correlated with major events	Minor durations have occurred but generally constant behavior	Major and minor; patterned electrical behavior occurred
5.	Resonances	Planets Venus and Mercury achieve periodical positions indicating some special event.	The events are assignable but of unknown timing	The resonances corresponded to legendary large-body encounters
6.	Librations; oscillations of satellites	Gravitation explains and permits retro-calculation of Moon's increasing distance and Earth's slower rotation	Accepted; all irregularities explainable by gravitation and motion laws	Fossil motion detectable; Moon recently emplaced
7.	Gravitational constancy	All retrocalculations practically are measured with laws of gravitation	Laws are absolute and must be consistent with speculation	The constancy is experienced, not absolute; may be in an "unknown" multi-force field
8.	Age of universe	Retrocalculated in billions of years by "big bang" starting assumption	Speed of light basic; no short-time teory conceivable	Irreleva to most problems and highly speculative and adaptible
9.	Meteorite ages	Correspond through chemophysical measures with and age of Earth	Meteorites are solar system resemble primal Earth material	Meteori recently exploded and acquire false ages like III

10.	Solar cycles	Periodicities of sun-spots reflected in natural periods on Earth	Periodicities vary but probably not much	Periodicities are reasonable if experienced, but radical departures probably over thousands of years
11.	Star movement	“Fixed” stars give perfect intervals for retrotiming	Where possible event can be tied to fixed stars	Star movements are anciently implicated in planetary movements
12.	Planet and cometary movement	A position today gives a reliable position through the ages	No force disturbs much the orbits of planets	Planets and comets have behaved changeably in recent times
13.	Cf. IV with I, III, V	Earth-other planet comparisons and correlations of events and causes	Each planet has its own individual unaffected existence	All planets bear the marks of their experiences with other planets
14.	Succession and behaviors of divinities	Planet-associated divinities are function of time when planets active	Mythological materials are superstitions, gibberish; unproven correlations	Mythology permits increasingly exact and reliable correlations; V.1.-2

V.	***Cultural Measures***			
1.	Mythological time	Sublimated and fantastic sequences	Pure fantasy, primitive, and/or indecipherable	Simplified hidden but true messages, sometimes decipherable
2.	Legendary time	Collectively affirmed fixed events and sequences	Same but more intelligible	Same but sometimes clear and accurate
3.	Anniversaries	Asserted or evident temporal fixation of intensive event of type IV.-14,V.1 -2 -10	Random Celebrations or based upon eternal recurrences events	Celebrations of single or psychically combined natural
4.	Calendars	Pre-historical and historical systems of time reckoning	Often confused but OK if in line with present time	Rarely confused; reflect different times; decipherable
5.	Mechanical clocks	Devices, sundials, shadow sticks, and process flows calibrated to time	Unintelligible if not in keeping with present time	Correct “fossils” of different time-periods
6.	Archaeological location and succession	Cultural data arranged by 1.3, development stages, and causes of hiatuses	Usually human-caused or normal present forces	Often radical changes and hiatuses catastrophically caused

7.	Timed records.	Reports of experiences, successive events, or astrology	Often inept, primitive, conflicting with true time	Usually correct but mistakenly edited or for extinct timeperiods
8.	Memorial generations.	Oral long-time transmission plus V.-1, 2, One M.G. = 50 year	Unreliable; too many breaks and much fantasy	Highly disciplined, sometimes valid and reliable
9.	Cycles of Ages.	Theories of successive ages of chaos and creation	Mythical and fantastic; superstitious	Plots main lines of natural-cultural history; fragmentary
10.	Cross-cultural co-experience	Synchronization by common experiences of culture items of catastrophism	Independent invention or diffusion	Traumatic independent invention and coercive diffusion