

Old Physics, New Geology

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THESIS

Extreme forms are created by extreme events, 3.1. Earlier papers have argued that the Earth's oceans and continents have been reconfigured by this ebook's super huge impact (THESI) and earlier super huge impacts.

The most likely extreme event to have happened to Solar System planets recently is super huge impact a few 100 Ma ago, due to Stellar Oscillations across the local Spiral Arm, v.10.

The generally accepted theory of Solar System genesis, that planets evolved agglomeratively, from a rotating dust cloud, suggests that the Earth's crust and mantle comprise multiscale, nested irregularities.

INTERFERENCE PATTERN

The effect of such irregularities on shock waves emanating from a super huge impact would be global, multiscale, nested interference pattern fracture-melt inscriptions, because such waves ubiquitously coarsen.

Such inscriptions would have been "developed" by antagonistic penetrations of magma and water. Huge volumes of water would have frozen many such inscriptions extensively, my Freeze Effect, 3.3.

Oceans, oceanic surf, geyser rainouts and foams have evidently fixed/frozen interference pattern inscriptions extensively across what would become island arcs, coastal lowlands, continental basins, mountain, river, lake, coastline systems.

In y.03, FORAZE EFFECT, I wrote: ". . . . How then to explain further tiers coastal and continental shelf tiers?" My answer: Foam-Rainout freeze (FORAZE) Effect-ed Continental Shelf, continental basin genesis.

FORAZE EFFECT

Seawater would have foamed very high subsequent to THESI.

Earth's oceans and low-lying lands would have been covered with a towering, eventually very slowly diminishing layer of surf- and geyser-generated foam, globally.

Oceanic geysers would have produced enormous volumes of rainout/rain/water fallout, particularly surrounding most heavily impacted Western Pacific, Arctic Oceans, Gulf of Mexico, Caribbean.

This is implicit in the huge breaking surface waves implicit in the "2-week super huge earthquake" global scenario of y.02, CORROBORATION, surface foams of y.04, MACRO RECORDINGS, Oceanic Geysers.

A towering layer of foam would have been an effective cooling agent/fixative, intermediate between air and ocean. It would have flowed and been blown by the wind far inland in some places.

I thus propose that:

1. Geyser rainout and foam more or less Freeze Effect-ed extensive areas beyond Earth's oceans during a most critical, post- THESI period.
2. Significant depression/magmatic freeze/fixation, of global inscriptions at shallows or lands that would become continental shelves, shallows or lands beyond what would become new coastlines, future continental basins and so on, was thus proscribed by a Foraze Effect."

SYMMETRIES

Such landforms could be expected to exhibit nested multiscale symmetries, because interference pattern inscription potentials are uniquely, profoundly symmetrical.

OVERALL PROOF

Finding such symmetries and showing that they are real would obviously be the best of all possible ways to corroborate 1.031's PROOF of my overall thesis!

I decided to concentrate on the region surrounding the Pacific Ocean, Figs 1, 2, indicated as Impact Hemispheric by the Pacific Ocean's octo-chot-anomaly and antipodal Africa, using 0.2's method.

This ebook's symmetries of Vols y)-1, many other mutually corroborative indications, Impact Hemispheric limb regional BOUNDARY (IHBO)-consistent impacts (3.1) and so on, prove my overall thesis.

COMETS

Comets are generally much more extensive than the Earth, at the Earth. My "most likely extreme event", super huge cometary impact, can therefore generally be expected to span the entire Earth.

Even without such spanning, wave coarsening (4.9) can be expected to produce equivalent hemispheric dichotomies about emphatic global bisectonal faultlines, $(\frac{1}{2})^{1-N}$ rhythms, 4.3.

Largest scale, macro-symmetries so produced would generally be about IHBO as an axis, an idea corroborated by Vol 1's IHBO-symmetric macro-symmetries.

Subharmonic rhythms may be emphatic, as on Earth, where a fragmentary cometary nucleus has evidently produced broadly distributed, huge/super huge impacts, 4.3.

REAL APPROACH

The above understanding and practice emerged here subsequent to 1.031's PROOF.

Serms are where the ebook started. Serms are Supercrater Etalon Resonance Manifestations (4.5-11), followed by 4.2-4.

Then came 3.1-8. Then Vol 1's macro-symmetries, followed by Vol 2's European application, before Vol 0. Then Vols y-v.

POSTSCRIPT: Vol 2 was a dangerous excursion. This Vol 0, which followed it, never mentions Spirality!

INTRODUCTION

By the time I had finished Vols 1 & 2, I was determined to look at the "Flying Saucer" form of IHBO's Tierra Del Fuego (IHBOss 0, 1), the "sea monster" form of the Shantung Peninsula (IHBOss 26, 27), look for similar detail globally, Vol 0.

KEYS 0, 1

My suspicion was that these symmetrical features with axes at/aligned with IHBO would be a key towards proving that the Earth had been re-configured as explained above.

Super huge impact would be expected to have produced symmetries across axes orthogonal to the flight direction of THESHI impactors as these "Flying Saucer" forms obviously were.

That many major faultline manifestations coincide with IHBO is corroborative.

I call this the "IHBO Effect" because such a telling set of coincidences for a single great circle, consistent with THESHI co-genesis with IHBO, is extremely unlikely to be a random coincidence:

IHBO EFFECT

Amazon, Yenesei River mouths are aligned with IHBO. Yangtze, Yellow and Ob river mouths (more or less at IHBO) are orthogonal to IHBO.

A quasi-hyperbolic symmetry of the Parana, Uruguay River systems (IHBOss 2, 3), is coaxial with IHBO. A boomerang symmetry of the W-most corner of the Lena River (IHBOss 20, 21), is coaxial with IHBO.

IHBO is collinear with the mid-Atlantic Ridge (in the North Atlantic) and Philippines Trench. These IHBO-centred Keys 0, 1 would usefully combine with Keys 2-4:

KEY 2

New Guinea N coast potential, along the Franz Joseph Island edge of my Arctic Ocean Deep Impact cavity (AODI), in the Africa Ghost shown on the ebook Back Cover (x.0).

By the time I started Vol 0, I was thinking about how this AODI-energised potential illuminates multiscale symmetry detail within IHBO via 3.4's ANTIPODAL EFFECT.

KEYS 3, 4

Vol 0 thus began with convergence of Key 1 & 2 interests. This would produce a final Key 4 via an intermediate Key 3 related to Key 1: The "radiations" explained in 3.4;

Tellingly, like Yangtze, Yellow and Ob river mouths, these are orthogonal to IHBO, again extremely unlikely to be a random coincidence, consistent with THESI genesis.

DISCUSSION

The New Guinea N coast potential coincidence with the Franz Joseph Island edge of AODI in the Africa Ghost is telling because of New Guinea's position within a most impressive string of island arcs.

ISLAND ARCS

Important IHBO sub-symmetries occur where this Western Pacific/East Asian string of island arcs cross IHBO at Kepulauan Kai, W tip of New Guinea and Yaeyama Retto.

Having obviously originated at AODI, the New Guinea N coast potential seems to have echoed around the world, as indicated by Vol 1's macro-symmetries and Vol 5's ghosts.

However, its strongest ex-AODI expression has been in those island arcs, as the New Guinea N coast potential of the Australia Ghost, Vol 3, probably via "Double Whammy" impact energisation, 3.4.

Antipodal Effect (3.4), co-operation of long and short distance waves, mantle serms, CMB waveguides (4.2) and so on, are thus also tellingly indicated.

"RADIATIONS", KEY 3

Other important IHBO sub-symmetries occur where some of the "radiations", explained in 3.4 FLARED ANTIPODAL CONJUGACIES, cross IHBO orthogonally:

Shantung Peninsula, Lake Baikal W-most bend of Lena River, and so on.

SYMMETRY STRINGS

An obvious question arises: Do such IHBO-coherent symmetry inscriptions extend as longitudinal symmetry strings? Are the IHBO-orthogonal "radiations" longitudinal symmetry string manifestations?

KEY 4

The Western Pacific island arcs answer this question affirmatively. So too the similarly positioned and directed Yangtze River-centred China symmetries, Vol y slide show.

The Ob, Yellow and Yangtze River systems are clearly indicated by the IHBO Effect as being similarly related to the radiations.

They similarly echo/frame the "radiations", are roughly parallel to them, if only at IHBO, are along side of the radiations within Asia and so on.

Yangtze River-centred China symmetries' longitudinal symmetry string candidacy thus obviously implies similar candidacies for Yellow and Ob river systems.

Divergence of all these symmetry string manifestations from radiational linearity beyond IHBO is evidently due to antipodal impacts, as explained for Western Pacific island arcs in 3.4-7, and below.

UBIQUITOUS SYMMETRY STRINGS

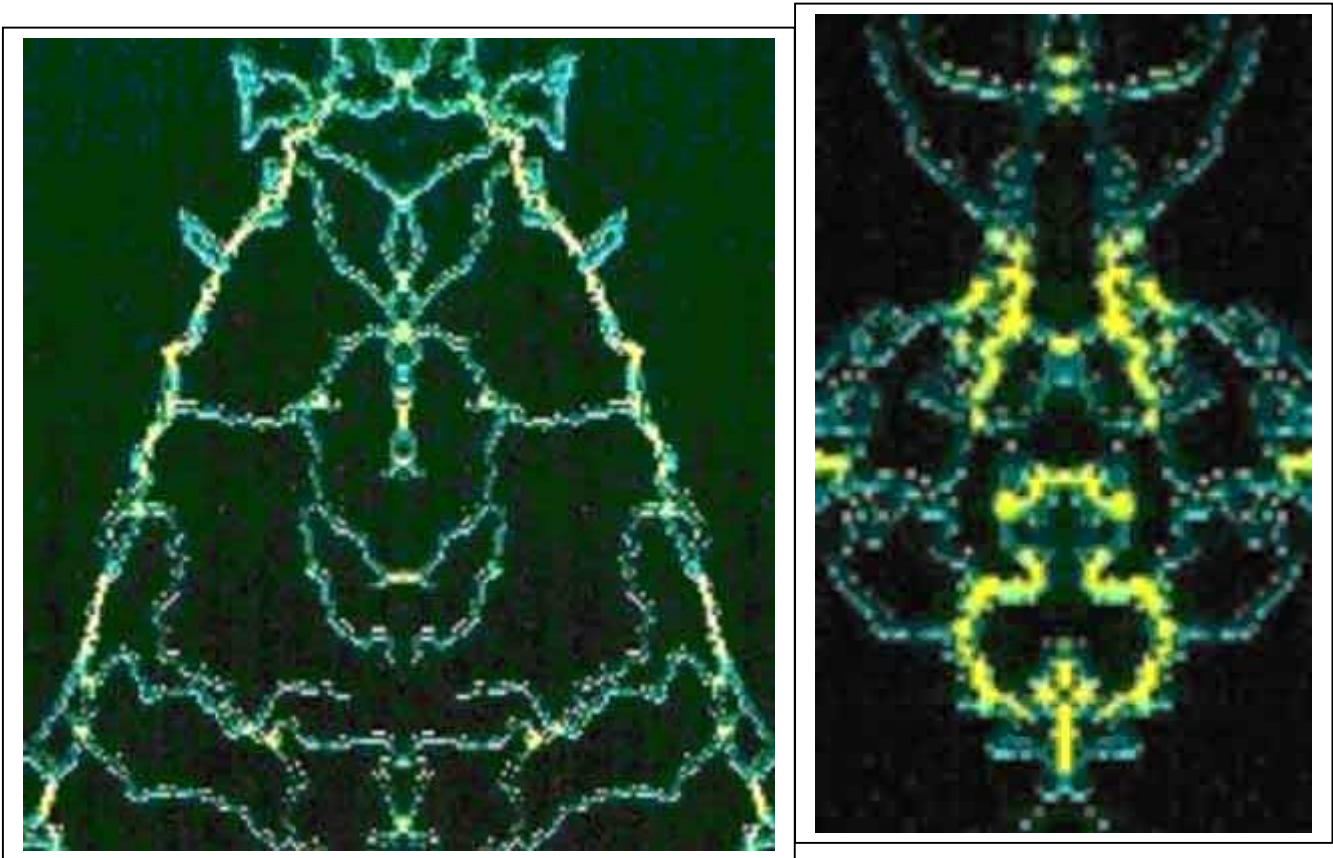
Longitudinal symmetry string candidacies thus extended to include coastlines, rivers, mountain ranges, divergence from radiational linearity being generally ascribed to antipodal or neighbouring impacts.

GLOBALLY UBIQUITOUS, MULTISCALE, MULTIDIRECTIONAL SYMMETRIES

In parallel with “symmetry string” idea development, my Vol 0 experience of multiscale symmetries, Figs 1, 2, indicated the following generalisations of my IHBO Effect:

1. Large river systems are as likely to be longitudinal as orthogonal in IHBO coincidences.
2. Beyond IHBO, multiscale river systems are as likely to be longitudinal as orthogonal in their coincidences with multiscale multidirectional symmetry axes (0.4, Self-Similarity).
3. Multiscale river systems may generally be most expressive examples of multidirectional faultline networks, because riverine Freeze Effect is generally dominant, un-obscured.

These generalisations are corroborated by Vol 0, 1 demonstrations, and are Serm theory consistent.



Figs 1& 2: Obs 276a-b Tasmania Symmetry detail.

Fig 1 shows NW corner coastal and axial detail. Fig 2 shows SE corner detail.

RADIATIONS

Are “radiations” essentially longitudinal multiscale, nested symmetry strings? This would be consistent with, indeed proof of super huge impact tectonogenesis, via Thesis explanation, above.

Ironically, the answer came as a demonstration that a most exceptional, least straight “radiation” example is most emphatically a symmetry string (Obs 0-45).

While NW/Western Pacific island arcs are not as straight/“radiation”-al as continental examples, they are, importantly, probably more Freeze Effect-ed (3.3).

Symmetry string axes are orthogonal to string direction. IHBO sub-symmetry axes cohere with IHBO. “Radiation”-al symmetry strings (3.4) are thus orthogonal to IHBO, parallel to THESI impactors.

Why should continental “radiation”-al symmetry strings be so parallel to THESI impactor direction? Explanation: Super huge impactor shock wave interference pattern tectonogenesis.

This simple observation, corroborated by the other symmetry demonstrations of Vols y, 0, 1, 4, as explained in 0.4 and so on, corroborates my super huge impact tectonogenesis thesis.

The Physics is plausible, simple, direct, the IHBO-orthogonal and other symmetry strings of this Vol 0 convincingly real, really convincing, 0.4.

EXTENSIVE CONTINENTAL SYMMETRIES

Tibet, Australia, Canada, central Andes, India, central and southern Africa, coastal NW North America, Arctica show extensive inland symmetries, consistent with THESI Impact low elevation, Foraze Effect, y.03.

Impact genesis of my continental "radiation" inscriptions is presumed. I never found time to look at these and many other mountains closely, other places being more important.

FAR WESTERN PACIFIC ISLAND ARCS

Far Western Pacific island arcs are unusually curvilinear, more so than continental "radiations" for example.

If we include the peninsulas and islands of SE Asia and Melanesia, the overall form of these arcs is strikingly like a megaphone pointing **towards** extreme central Pacific Ocean impact energisation.

Such "Wrong Way" uplift morphology suggests antipodal genesis as a "right way" shock wave-coupled bundle of interference pattern fringes flaring away from a N South American impact, 3.4-7.

This interpretation does not contradict my earlier conclusion that the "NW Pacific Arc" (3.1), **within** this Western Pacific "megaphone", has also been directly impacted.

UBIQUITOUS MULTISCALE, MULTIDIRECTIONAL SYMMETRIES

Coastlines and Freeze Effect-ed intra-continental regions, such as most of Canada and Australia, exhibit nested, multiscale, multi-directional symmetries ubiquitously, consistent with Foraze Effect, y.03.

Vol 1 Macro-Symmetries, Vol 4's ghosts imply that Earth's oceans have been similarly inscribed. Oceanic inscriptions are hard to pursue beyond oceanic islands.

Aleutian and Kuril Islands are amongst Earth's most emphatic sub-symmetries. Mekong and Orinoco river deltas are amongst Earth's most emphatic riverine sub-symmetries.

RIVER MOUTH INSCRIPTION

The following ideas have been corroborated by Vols v-x Antipodal Resonances Theory.

The Orinoco River (Obs 181-192) exhibits many discrete, riverine symmetries, from highlands to bell-shaped mouth, that are too profound to have other than shock wave interference pattern explanation.

That most river systems show such wide-ranging symmetries is thus telling, corroborative of Obs 181-191 indications: multi-directional axial, interference pattern symmetry inscription (below).

My first mountain range symmetry string was, a probably oceanically Freeze Effect-ed, Flinders Ranges of South Australia (IHBOss 36, 37).

INTERFERENCE PATTERNS

Ubiquitous symmetries are characteristic of interference patterns propagated through media containing irregularities, such as Earth' substrata, little else.

This already suggests that all symmetries, Vol 1's macro-symmetries as much as this Vol 0's multiscale symmetries, are interference patterns of impact-generated serms (4.5-11, below also):

This indication, explained further in 0.2-4, is corroborated by above explanation of IHBO-regional alignment of symmetry strings with THESI Impactors.

SYMMETRY GENESIS

Symmetries are thus indicated as the ultimate effect of mantle/crustal media irregularities upon srm etalon resonances, indicated as real by srm fringe finesse, 4.8, and rotational macros, y.02, MACROS.

Serms are typically nested as srm clusters within overall serms. This was explained in terms of wave coarsening in 4.9.

Nested symmetries are obviously interference pattern phenomena within nested etalons produced by coarsening etalon shock waves, 4.9.

EXPERIMENTAL CORROBORATION

Such serm interference pattern symmetry genesis is experimentally falsifiable/provable:

I propose that laser images be investigated for symmetries by irregularising their crystal lasing media to produce interference patterns, experimentally, theoretically, numerically.

This ebook started Mar 1997, with a detailed global study of the vague, noisy circular features I called serms:

SERMS

Serms, 4.5-11, are the planetary media within which impact shock wave interference pattern inscriptions (faultlines) are manifested: 3-D resonance structures, serms are the "craters" of rocky planets, moons.

Serms look unusual on Earth because extensive antagonism between magmatic uplift and Freeze Effect (3.3), has spectacularly developed/emphasised its faultlines.

Earth's continental serm clusters are most often both antipodal and near-horizontal (adjacent) to impacts that have energised them, 3.4-7. Serms.

SYMMETRIES

The Earth's geology is consistent with having been re-configured by "pathway" inscriptions through sets of symmetrical faultlines within nested serm morphologies, Pathway Genesis below.

SERBILS, SERTALS, BITALIMS

I had originally understood Island arcs, coastlines, mountain ranges, great rivers, small rivers, creeks, channels, canyons, ocean trenches, half-domes, bisectional islands, and so on as serm cluster bisectional/serm tangential faultlines.

I had proposed that the bisectional (radial) faultlines be called "**serbils**", after SERm/serm cluster Bisectional faultlineS (SERBILS), their manifestations, "**serbilims**". I called the less frequent serm tangential faultlines **sertals**, serbil-sertal combinations **serbitals**, their manifestations: **bitalims**.

MACROS

A more advanced, genetic understanding of the same phenomena:

Freeze Effect-ed macros, y.01-6, are evidently rotational, Inscription-Phase pathways through sets of symmetries, consistent with the bitalims, symmetries, ghosts, antipodal resonances of Vols v-y), 0, 1, 4.

NOISE

Macros, bitalims may be lost or obscured. Geological effects such as volcanism, magmatism, erosion, hydrodynamics, and so on are often extremely noisy.

NESTING

Symmetries are ubiquitously nested within overall symmetries, macro-symmetries and so on, presumably because they are produced within serms, ubiquitously nested within encompassing serms.

BITAL NETWORK

NW Pacific island arcs appear to be unusually simple, generally sertalim dominant. However, their nested axes of symmetry are generally orthogonal, serm radial, consistent with serbil genesis.

NW Pacific island arcs are thus evidently embedded within a bitalim network, essentially radial-tangential, extending beneath the water. . .

This idea is corroborated by the Tanega, Kunashir and neighbouring island symmetry indications of Vol y Slide Show.

That coastlines are generally orthogonal to coastal rivers is consistent with gravity and the Principle of Least Action. But, as in River Mouth Inscription above:

Rivers and coastline symmetries are also consistent with bital network proto-genesis.

They can be read as a mixture of symmetry inscriptions with hydrodynamic, soil erosional noise, an important corroboration of my overall thesis via such sub-theses as:

Bital networks are relic, composite pathways through serm symmetries.

This idea may have been inspired by memories of perceptions, attempts at understanding and so on of the aurora, 1974, as explained in y.06 CORROBORATIONS, Auroral Observations.

ZIG-ZAGS

Faultlines are characteristically zig-zag-ed. Vol y)'s serm mountain peak-centred symmetries show good examples. The evidence of Vol y), 0 symmetries is that:

Zig-zag-ed spans, some of them 100s km long, manifest noise but also, evidently, composite pathways through phase-shifting serm symmetry coincidences.

"Zigs" become "zags", schematically, as one symmetry "drops off" while the next directional symmetry "comes on line".

In this Vol 0's slide show, I recommend Orinoco River Delta (Obs 181-192), Cape of Good Hope (Obs 211-234), California Peninsula (Obs 135-150) and Tasmania (Obs 276a-336) symmetries.

PATHWAY GENESIS

Pathways are obviously either "inscriptional" or "post-inscriptional".

INSCRIPTION PHASE PATHWAYS: Serm spirality indications are that many emphatic pathways, fjords and so on, are defined during the super huge earthquake inscription phase as macros, y.04.

y.02 macro explanation, Vol y's slide shows corroborate this idea. Major sections of major faultline manifestations, Tectonic plate boundaries, continental shelf edges, coastlines, fjords, major rivers and so on, are thus evidently Inscription Phase pathways.

POST-INSCRIPTION PHASE PATHWAYS: There are many pathways which are evidently post-inscriptional, mostly fluvial pathways, manifest as rivers, streams, many river, mountain and coastal systems.

Post-inscriptional pathways are generally fluvial and/or effected by post-inscriptional magmatism, opposing Freeze Effect and so on, 1.01, SPIRALITY, Spirality Genesis.

BISECTIONALITY

Hence faultline Zig-zag-iness, but

Why are serbilims so profoundly bisectional of serms/serm clusters?

Ubiquity of both serm/serm cluster bisectionality and serm nestedness, ultimately within largest scale crustal and mantle serms (4.25, 6), are explicable in terms of shock wave coarsening, 4.9.

WAVE COARSENING

I have explained ubiquitous, planetary/stellar layer wave coarsening in terms of etalon resonance, 4.9, 4.5-12, 14.

Long waves preferentially emerge from planetary layer mixes of shorter waves due to etalon resonance being fed, "pumped" by shorter waves.

Long waves are generally more penetrating than short waves also. Penetration is roughly proportional to wavelength. So long waves are most sustainable, tend to accumulate.

A large portion of delivered cometary kinetic energy may thus have been converted into $\frac{1}{4}$ -wave mantle resonances before much melting had occurred, consistent with ocean-continent re-configuration, Vols 1, 4, y.01, RETROSPECTION.

PLANETARY RHYTHMS

Earth, Mars, Venus planetary rhythms/hemispheric dichotomies are thus explained:

Shock waves emanating from sufficiently energetic super huge impacts on small rocky planets generally rapidly coarsen to planetary, $\frac{1}{4}$ -wave mantle resonance scale, 4.9.

Wave coarsening can be expected to produce hemi-, quattro-, octo- hexadeci-chotomies, depending on impactor multiplicities, spacings, 4.3.

Serm cluster-encompassing serms have evidently attained such order of magnitude: 4.3, 4.8 MANTLE RESONANCE, Planetary Rhythms.

These early ideas have been confirmed by Vols v-x's IHBO-consistent flared antipodal conjugacies, global bisectonal faultlines.

FREEZE EFFECT

I had thus reasoned that Freeze Effect-ed serbils were probably good places to look for examples of multiscale, multi-directional nested symmetries, a good place to test my thesis.

Hence my emphasis on islands, island arcs, coastlines, basins in this Vol 0's examples.

CORROBORATION

Vols 0, 1 symmetries corroborate the above Discussion and Proof ideas:

1. River system symmetries exhibit a telling patchiness, 0.4:

Drainage basin river system symmetries are tellingly weakest where there is strongest evidence of noise: along alluvial plain meanders and so on more than at their mouths, as in Obs 181-192.

Such meaningful patchiness in mixes of symmetry inscriptions with hydrodynamic noise, corroborates my overall thesis and various sub-theses.

2. The whole Earth exhibits multiscale symmetries ubiquitously, consistent with extensive Freeze Effect.

I have as yet found no patches of non-symmetries attributable to magmatic distortion, not in Tibet or the central Andes. . . .

Aleutian and Kuril Islands are most emphatic sub-symmetries. Mekong and Orinoco river deltas are similarly emphatically inscribed.

3. I have confirmed 1)-2) impressions from my global survey (0.4) most intensively in Arctica, nearly all of Canada, South America, SE Asia and most of Australia, India, Africa, using 0.4's Method.
4. Refer to 0.4 explanation of Kamchatka, California Peninsula and other Symmetries.
5. Map rotations about axes of symmetry of tuning fork/hairpin shaped rivers generally produces convincing, multiscale symmetries, as explained in 0.4. Consistently:
6. While tuning fork/hairpin shaped rivers are generally "sharp shouldered" in North Australia, they are less so in central Africa, consistent with Australian impact adjacency, African antipodality, 0.4.
7. China, Antarctica, and my Lop Nor serm have boundaries which are unusually circular, mostly serralims. Refer to 3.4, CONTINENT/OCEAN UPLIFT/DEPRESSION Southern Ocean Genesis, & KEY POSITIONS, SHAPES.

Tellingly, all three are globally most complete serms abutting IHBO from the non-impacted hemisphere, energised indirectly by oceanic impactors both near-horizontally and antipodally:

Near-horizontally ahead of NW, SW Pacific and Sea of Okhotsk-Kamchatka impactors; antipodally to Peru-Chile Trench-Andean, AODI and SE Pacific Plateau impactors.

The Matto Grosso serm is an oceanic example: horizontally ahead of NW South American impactors; antipodally to Marianas impactors.

8. Other 2, 4K kd circularly sermed subcontinents, Europe, W Siberian, SW Asia, SE Asia serms similarly follow IHBO, and are similarly energised indirectly by near-horizontal and antipodal, mostly oceanic impactors:

Near-horizontally ahead of AODI, West Arctic and NW Pacific impactors; antipodally to South Pacific, N South America impactors.

9. Circular serm forms are strongly evident in antipodal Africa also, particularly at its Congo-Lake Victoria central region, Obs 235-260, 4.25.

These corroborate the Point 7, 8 idea because while far from IHBO, they are similarly non-impacted, even "Double Whammy"-energised (0.4) by sloping and antipodal impactors: Ahead of North American and NE Pacific impactors (1.023) ; antipodal to Central Pacific impactors.

CIRCULAR TERRESTRIAL LANDFORMS

Points 7-9 are strong evidence of my Freeze Effect and Impact Effect-ed Leakiness ideas (3.3) ideas, corroborated by 4,000 kd Sea of Japan-centred mantle serm implications explained in y.1351.

Points 7-9 together with those ideas, and 3.4's "Double Whammy" idea, suggests an explanation of 2, 4K kd circularly sermed subcontinent genesis:

Where there is much oceanic surface water, as on Earth, serms are developed as circularly uplifted landforms, as generally happens on dry planets, only when non-impacted AND greatly energised indirectly, antipodally and/or sub-horizontally.

The 2, 4K kd circularly sermed subcontinents of EurAsia are thus seen as the continental equivalent of 3.4's "Double Whammy" Effect-ed seas and ocean basins. The circles are serms, 4.5-11.