

## The Corner Theorem

Segment 10 of 15 · V12 Audit Correction Layer · Hurricane Findings Revision

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*This note is a stratigraphic layer above the V11 Anti-Wash Addendum (v2). The V11 addendum and the original Seg 10 v6 document remain the geological baseline — unchanged, undeleted, visible beneath this layer. This V12 layer makes two corrections required by the 19 April 2026 internal audit: (1) the  $R=0.9951 / -12.2^\circ / 5.7^\circ$  result is withdrawn as an identified computational artefact; (2) the 8/8 Path A/B framing is revised to remove the claim of observational evidence for two topologically distinct attractor basins. The Corner Theorem as mathematics is unaffected. CF CONSISTENT not PASS throughout.*

### 1. WITHDRAWN — $R=0.9951 / -12.2^\circ / \text{Circular SD } 5.7^\circ / n=140$

The V11 addendum (page 2, Section 2b) states:

#### WITHDRAWN — 19 April 2026 Audit

"This is the  $\phi_{\text{tilt}}$  coordinate used in the TC-RADAR analysis (mean tilt-shear angular difference  $-12.2^\circ$  downshear-left, circular std  $5.7^\circ$ )."

Also withdrawn: the v16 note claim that "tilt direction universality confirmed...  $-12.2^\circ$  downshear-left waist-level offset is path-independent.  $R \approx 0.996$  in both paths, Levene  $p=0.78$ ." And the Geometric Laws table row: " $\phi_{\text{tilt,waist}}$  (universal) PATH-INDEPENDENT  $-12.2^\circ$ ".

Artefact mechanism (identified by NS 78, 19 April 2026):

The script `SFVFS_tilt_shear_test.py` read `tc_tilt_direction` at waist levels 21–23 (10.5–11.5 km) from TC-RADAR v3k. The variable returned values clustered near  $0^\circ$  for most storms — either because the v3k centre-finding algorithm defaulted to near-zero direction below a displacement threshold, or because of a fill-value handling issue. Input to the Rayleigh test was therefore near-constant (mean  $0.3^\circ$ , std  $1.3^\circ$  across  $n=157$  storms). A Rayleigh test on near-constant input returns  $R \approx 1.0$  by mathematical identity. The test was correctly programmed. The input data was degenerate.

Reproduction result (NS 117, 19 April 2026, TC-RADAR v3m):

#### Reproduction on TC-RADAR v3m

$n=143$ , circular mean  $= -53^\circ$ , circular std  $= 126^\circ$ , Rayleigh  $R=0.0904$ , Rayleigh test  $p\text{-value}=0.31$  (cannot reject uniformity). On v3m the tilt direction variable shows actual directional spread. No clustering exists. The v3k result was a data artefact.

NS 78 retraction statement (verbatim, 19 April 2026):

#### Retraction — NS 78, 19 April 2026

"The  $R=0.9951$ ,  $-12.2^\circ$ , circular std  $5.7^\circ$  result is not a valid finding. It is an artefact. It should be withdrawn from the handover documents and Corner Theorem v5 immediately."

This withdrawal also removes the physical basis for the spatial projection conjecture as stated in V11 Section 2b. The  $7.99^\circ$  Lode angle gap in eigenvalue space (mathematical) remains; the claimed physical tilt angle correspondence at  $-12.2^\circ$  is withdrawn. The bridge between eigenvalue space and physical space is conjecture without current observational support.

### 2. REVISED — 8/8 Path A/B Split Framing

The V11 addendum (page 1, Section 1) states the 8/8 split is "the observational signature that two such basins exist and are populated in the Atlantic record." The audit requires this framing to be revised. The 8/8 split is a classification result, not independent observational evidence for two topologically distinct attractor basins.

## REVISED FRAMING — V12

### V12 Revised Framing — 8/8 Path A/B Split

The 8/8 Path A/B split is a classification of 16 intense Atlantic storms ( $\geq 115$  kt in TC-RADAR v3k, 1997–2019) by whether a waist structure is detectable at levels 21–23. Eight storms meet the criterion (Path A); eight do not (Path B). The split is the distribution that resulted from applying this criterion to this sample.

It is not independent evidence of two attractor basins in the Corner Theorem's geometric phase space. The conjecture that Path A and Path B correspond to distinct attractor basins remains conjectural. No probability claim is made. CF CONSISTENT not PASS.

Note: a naming inconsistency exists between session records regarding the Path B storm list (NS 74 and NS 80 give 7 Path B storms; v19 Hurricane Findings gives 10). The accurate list from current data must be verified and locked before V12 release.

## 3. RETAINED — Confirmed Observational Findings

### RETAINED — Confirmed by 19 April 2026 Audit

$\phi_{\text{tilt}}$  shear-relative  $44^\circ$ ,  $R=0.7542$ ,  $n=216$  (TC-RADAR v3k) — computed by NS 76 in-session with visible code. Waist contraction  $r=-0.6733$ ,  $n=157$  (Atlantic Path A) — NS 76 in-session. DHOV–intensity  $r=0.5865$ ,  $n=210$  — NS 77 in-session with visible code. DHOV vs tilt waist  $r=-0.5800$  — NS 76 in-session. Tilt waist vs intensity  $r=-0.4972$ ,  $n=157$  — NS 76 in-session.

Note: G dominant driver  $r=0.7206$ , Arc-length–High G RI  $r=0.3151$ , and Conditioned RI benchmark  $AUC=0.6979$  are not directly audited and require re-verification before V12 release. The marginal significance of  $p=0.0273$  for the arc-length result must be flagged explicitly.

## 4. UNCHANGED — The Corner Theorem as Mathematics

The Corner Theorem as a mathematical object is unaffected by this audit. The Tresca yield surface geometry, D6 symmetry, and Lode angles at  $k\pi/3$  intervals are independent of hurricane data. The theorem stands as mathematics. What changes in V12 is that its claimed observational signature in TC-RADAR is partially withdrawn. The theorem stands as mathematics awaiting potential physical correspondence; the correspondence is conjecture without current empirical support at the tilt-angle level. CF CONSISTENT not PASS.