# Unified Dimensional Dashboards

S7 ARMADA Run 023b - Per-Ship Identity Profiles

## Overview

The **Unified Dimensional Dashboard** provides a comprehensive 4-panel view of each ship's identity dynamics. This is the go-to visualization for understanding how a specific model behaves under perturbation. Each dashboard combines trajectory, stack, radar, and pillar views into a single actionable summary.

This folder contains 25 per-ship dashboards plus a fleet-wide comparison. These dashboards use data from 6 experiment types with N=30 iterations each (180 measurements per ship).

## 1. Fleet Dimensional Comparison

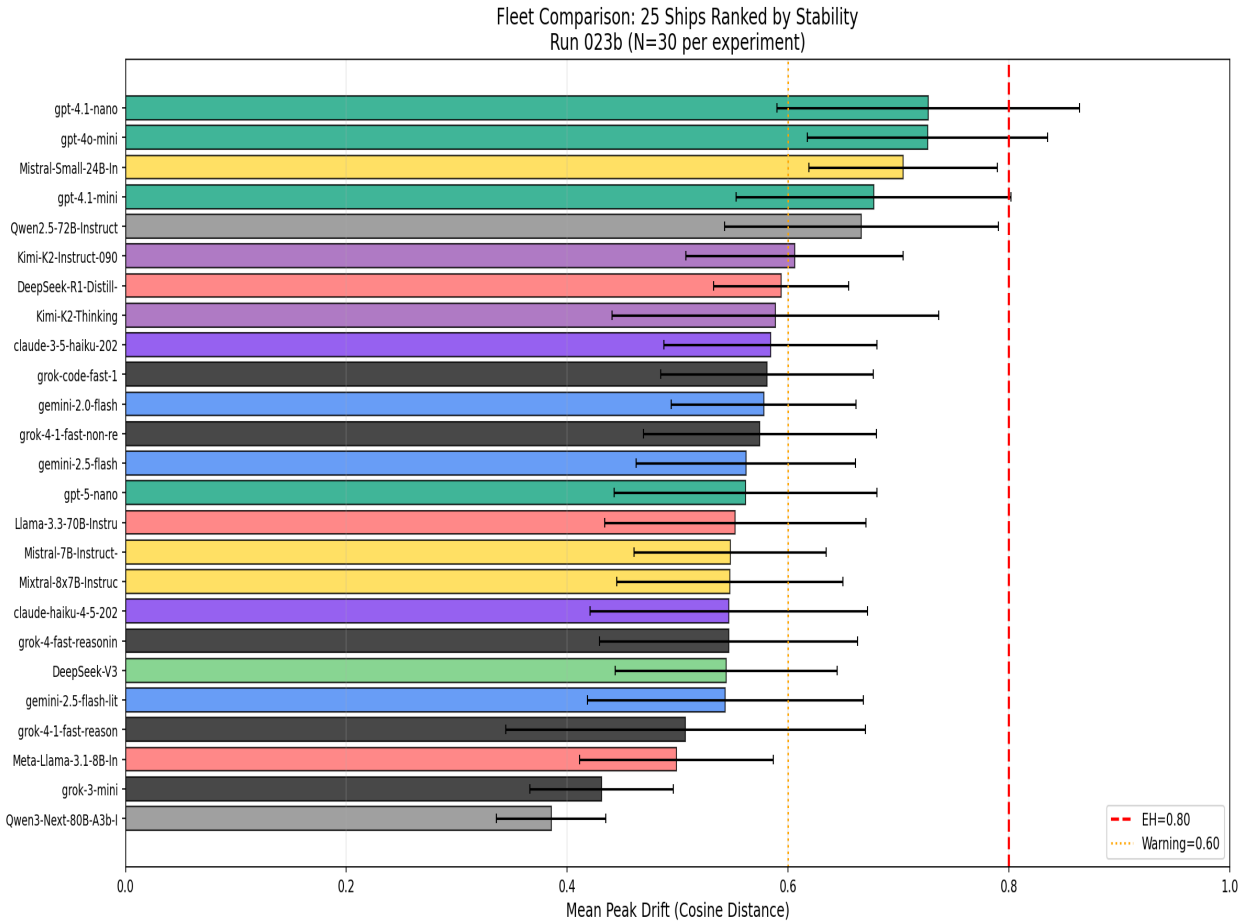


Figure 1: All 25 ships compared side-by-side

**What it shows:** A compact summary comparing key metrics across all ships in the fleet. This enables quick identification of outliers, provider-level patterns, and relative performance rankings.

**Use case:** 'Which ship is most stable? Which shows unusual patterns?' The fleet comparison answers these questions at a glance before drilling into individual ship dashboards.

## 2. Dashboard Anatomy: Reading a Ship Dashboard

Each per-ship dashboard contains four coordinated panels:

**Panel A - Drift Trajectories (Top Left):**
Time-series plot showing drift values across iterations for each experiment type. Multiple lines = multiple experiments. Look for:
- Convergence (lines coming together) vs divergence
- Peaks crossing Event Horizon (red dashed line at 0.80)
- Recovery patterns after perturbation

**Panel B - Stacked Contributions (Top Right):**
Shows how different experiments contribute to total drift over time. This reveals which experiment types cause the most identity stress for this particular ship. Taller stacks = higher cumulative drift at that iteration.

**Panel C - Radar by Phase (Bottom Left):**
Spider/radar chart showing drift across experiment dimensions at different phases (baseline, peak, recovery). The radar shape reveals the ship's 'identity profile' - which experiment types it handles well vs poorly. Larger area = more drift.

**Panel D - Pillar Scores (Bottom Right):**
Bar chart showing the ship's performance on key stability metrics (the 'Nyquist Pillars'): baseline stability, peak resilience, recovery capacity, settling speed. Higher bars = better performance on that dimension.

## 3. Example: Claude Haiku 3.5 Dashboard

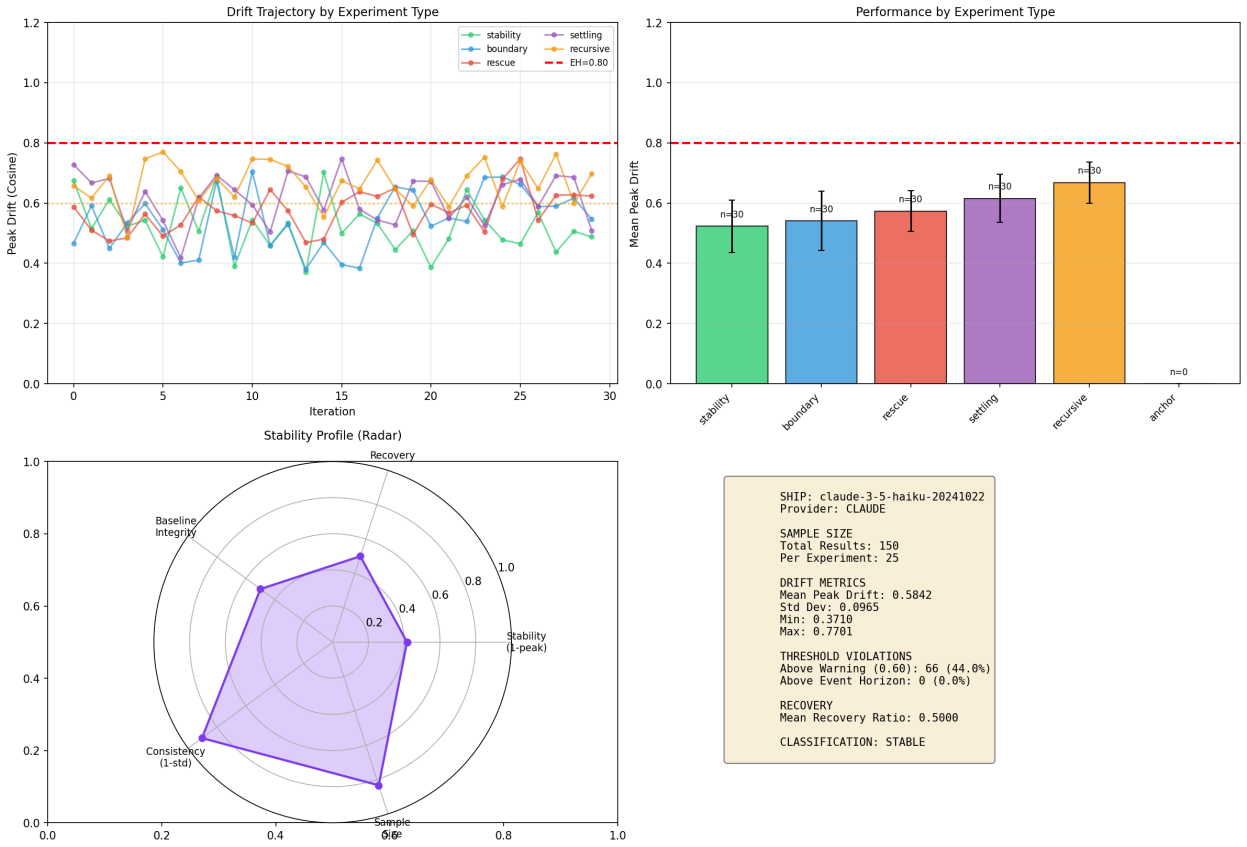


Figure 2: Claude Haiku 3.5 unified dashboard

**Interpretation:** This dashboard shows Claude Haiku 3.5's identity dynamics. Examine the four panels to understand:

- Which experiments caused peak drift (Panel A)
- How drift accumulates across experiment types (Panel B)
- The model's characteristic vulnerability profile (Panel C)
- Overall stability scores (Panel D)

## 4. Complete Ship Dashboard Index

The following ships have individual dashboards in this folder:

**Claude (Anthropic):**
- claude-3-5-haiku-20241022
- claude-haiku-4-5-20251001

**GPT (OpenAI):**
- gpt-4.1-mini, gpt-4.1-nano, gpt-4o-mini, gpt-5-nano

**Gemini (Google):**
- gemini-2.0-flash, gemini-2.5-flash, gemini-2.5-flash-lite

**Grok (xAI):**
- grok-3-mini, grok-4-1-fast-non-reasoning, grok-4-1-fast-reasoning
- grok-4-fast-reasoning, grok-code-fast-1

**Together.ai (Open Source):**
- DeepSeek-R1-Distill-Llama-70B, DeepSeek-V3
- Kimi-K2-Instruct-0905, Kimi-K2-Thinking
- Llama-3.3-70B-Instruct-Turbo, Meta-Llama-3.1-8B-Instruct-Turbo
- Mistral-7B-Instruct-v0.3, Mistral-Small-24B-Instruct-2501
- Mixtral-8x7B-Instruct-v0.1
- Qwen2.5-72B-Instruct-Turbo, Qwen3-Next-80B-A3b-Instruct

## 5. Dashboard Use Cases

**Task Routing:** Before deploying a model for identity-sensitive tasks, review its dashboard. Check if its vulnerability profile (Panel C) aligns with your use case.

**Model Comparison:** Open dashboards for candidate models side-by-side. Compare pillar scores (Panel D) to select the most stable option for your needs.

**Debugging Identity Issues:** If a model misbehaves in production, review its trajectory plot (Panel A) to understand its typical drift patterns and recovery behavior.

**Architecture Research:** Compare dashboards across provider families to identify architectural patterns in identity dynamics.