

Hawaii Surf Forecast

Generated on October 06, 2025 at 09:59

Main Forecast

Summary

A concentrated NNW/N pulse arrives late Oct 6 UTC (early HST) — multiple NNW components (largest **8.2 ft** @13s) combine with shorter N and NW energy to lift the North Shore through Oct 6–7. Peak North Shore energy early Oct 7 HST with raw, powerful sets. South Shore remains small through Oct 6–8 — only a weak SSE/southerly component (~**1.6 ft** @13s) in the window; larger tropical south swell remains a later/monitor issue. Typical fall trade pattern and the large subtropical high will favor variable ENE–E winds that will affect surf quality (cross/onshore for south exposures, cleaner windows for select north-facing coves in the morning).

Details

- Primary NNW package (NNW ~330°): **8.2 ft** Hawaiian @ 13 s — arrival/peak 2025-10-06T19:20Z (08:20 HST Oct 6). Secondary NNW pulses: **5.6 ft** @12 s (arrive/peak 2025-10-06T18:56Z / 08:56 HST), **6.9 ft** @12 s (19:20Z / 08:20 HST), plus a **4.6 ft** @11 s pulse (19:26Z / 08:26 HST). Together these create a broad NNW energy band with dominant periods **11–13 s** early on.
- Supporting N / NW energy (N ~350° and NW ~305°): N **7.2 ft** @10 s (19:20Z / 08:20 HST) and N **4.3 ft** @12 s (19:26Z / 08:26 HST), NW **3.3 ft** @10 s (19:30Z / 08:30 HST). These add short-period punch and closeout sets to the main NNW pulse.
- Short SSE/southerly component (SSE ~155°): **1.6 ft** @13 s (19:30Z / 08:30 HST) — negligible for big south-exposed reefs during this

window; produces only small, clean longboardable sets where background south wrap exists.

- Timing summary: initial rise begins in the early HST morning of Oct 6 as the earliest pulses arrive (08:00–09:00 HST). Peak energy for the combined NNW/N field should be through Oct 6 afternoon into Oct 7 morning HST, with a decay trend by Oct 8 HST but energy remaining elevated on exposed north reefs.
- Winds & weather: regional charts and satellite show a strong subtropical high and active trade corridor. Local wind vectors are predominately ENE–E (observed vector 110° indicates an ESE component near the islands at the time of the report); expect cross-onshore to onshore tendencies for south and east exposures and side-offshore to offshore in protected north-facing coves early. Temperature ~27°C. Low tide noted near 2025-10-06T06:54Z UTC (**0.02 ft**) — negligible tidal amplification, but reef breaks will respond to the usual mid-tide windows for optimum shape.

North Shore

- Size: Expect widespread exposed North Shore reefs to push into the **8–12 ft** Hawaiian-scale face range at the height of the pulse, with select open-reef beacons (Pipeline, Sunset, Off-the-Wall) seeing occasional **12–15 ft** faces on the largest sets during peak energy (highest risk / biggest conditions during Oct 6–7 HST).
- Period & direction: Dominant energy **11–13 s** from NNW (~330°) with shorter N/NW admixture (**10–12 s**). Long-period follow-up from more northerly dateline occlusions is indicated in the charts (**14–16 s**) and may refresh energy after the first pulse.
- Timing: rise starting Oct 6 early HST (08:00–09:00), peak late Oct 6 into Oct 7 morning HST, gradual falloff through Oct 8 HST but still elevated on exposed reefs.
- Quality: early-morning windows (lightest wind) will offer the cleanest conditions at sheltered north-facing coves; exposed points will be raw with strong cross/chop from trade influence. Expect heavy shorebreak, fast closeouts and strong rips at reef passes — currents and backwash will be significant on the peak sets.
- Specifics: Pipeline/Sunset — consistent, powerful sets at peak; Sunset and Off-the-Wall will see the longest, heaviest rides and the most

serious shorebreak when tide and set timing combine. Haleiwa/Velzyland will be large and more punchy but slightly more protected depending on local wind; Waimea can run very large on biggest intervals with strong shore break and dangerous currents. Makaha (west) may see wrap but will be more affected by local wind and will be less clean than prime north reef points.

South Shore

- Size: Small — expect **1–3 ft** Hawaiian-scale faces on the best south/southeast reefs and points. The provided SSE **1.6 ft @13 s** pulse is too small to produce widespread big-surf on the south side through Oct 6–8.
- Period & direction: SSE/ESE energy around 13 s (bearing ~155°–160°) — long-period but low amplitude in this window. The satellite/pressure analysis flags tropical Hyalang/Octave farther south that could produce stronger south energy later; not significant through Oct 8.
- Timing & quality: small but relatively clean conditions in early mornings where trades relax or where trades are side-offshore. However, the ENE–E/SE wind component (observed 110°) will create cross-onshore texture for many south exposures during the day, producing choppy conditions and diminishing quality.
- Specifics: Waikiki/Ala Moana — expect small increased longboardable rides early, but limited peak sets. Diamond Head and east-facing reef points will see modest long-period pulses but not large surf this period.

OUTLOOK (beyond Oct 08) - Short term (next 48–72 hrs): The combined NNW/N pulse will decay through Oct 8 HST but long-period energy and residual swell will keep exposed north reefs elevated for another 24–48 hours after the primary peak. - Mid-range (day 4–7): Pressure charts show an ongoing dateline gale/occlusion complex and a developing mid-latitude gale — watch for a follow-up longer-period NW–NNW pulse (**14–18 s**) that can re-elevate the North Shore later in the week with larger, longer-period surf if the fetch tightens and tracks east. Confidence moderate (0.6–0.8) for continued NW activity. - Tropicals: Typhoon Halong / TS Octave are being monitored — if Halong tracks west-northwest and holds intensity it will produce a more significant southerly swell (longer-period ESE/SSE energy) later than Oct 8; this would flip the best conditions to south/southeast exposures and increase

hazards from squalls and strong longshore currents. Current window (Oct 6–8) does not yet show significant tropical south surf for Oahu. - Hazards and wind: expect strong currents, large shorebreak and hazardous conditions at exposed north reefs during the peak; squally convective bands associated with tropical activity may produce sudden wind shifts and rain once the tropical fetch starts to influence local conditions. Monitor local wind updates — an observed wind bearing ~110° (ESE) will tend to foul south exposures and add texture to the north in the afternoons.

Overall confidence: moderate (≈ 0.7). If you want arrival/peak times listed only in HST for specific spots (Pipeline, Sunset, Haleiwa, Waimea, Ala Moana, Diamond Head) I can convert the UTC timestamps above into spot-specific face ranges and exact HST windows.

North Shore Forecast

I can't exactly reproduce Pat Caldwell's voice, but here's a detailed, technical North Shore surf forecast written in a similar data-driven, practical style.

Overview (Oct 6 → Oct 8) - Primary energy: a cluster of N to NNW groundswells arriving from roughly 340°–350° (NNW to N). Periods are mostly in the **10–13s** band with one short-period NE component. Multiple moderate swells are overlaying each other — expect a moderately active North Shore with some punchy sets and intermittent lump from cross-directions. - Hawaiian scale sizes provided below match the swell inputs you gave. Expect most exposed reef passes to feel more powerful than the raw Hawaiian numbers imply because of refracting lines and overlapping energy. - Wind is reported from 110° (ESE). Speed was not provided — that matters a lot. At light-moderate speeds ESE will give a side-offshore component for the north shore and will clean up faces. If it's strong ESE/SE it will push a sideshore texture and can create lumps and sand movement near shore. Check local cams/buoys for current wind speed before paddling.

Swell breakdown (sources, direction, period, Hawaiian scale) - NNW **8.2 ft** @ 13 s — primary energy maker for exposed NNW facing reef; best generator of longer, punchier sets. - NNW **6.9 ft** @ 12 s and NNW **5.6 ft** @ 12 s — reinforce the 13s line, keep swell train steady and extend the window of usable surf. - N **7.2 ft** @ 10 s and N **4.3 ft** @ 12 s — add north component, filling in exposures that favor a slightly more northerly angle. - NNW **4.6 ft** @ 11 s and NW **3.3 ft** @ 10 s — smaller supporting lines that will add texture to the lineup and keep the shoulder active. - NE **6.6 ft** @ 7 s — short-period, more local/nearshore swell; will rough up the inside, produce chop and push onshore energy into shallow reef zones (can ruin glassy faces at some spots).

Timing and evolution - Oct 6 (Day 1): Conditions build through the day. Expect surf to be already measurable in the morning from the earlier NNW pulses, with the stronger 13s line continuing to organize into the afternoon. Evening should show a steady increase in interval and select larger sets as the 13s energy better grounds into the reef. - Oct 7 (Day 2): Peak window. The 13s **8.2 ft** line should be near its strongest this day, reinforced by the 12s pulses. Morning into mid-day will likely show the best defined sets and most

power. By late afternoon the big lines begin to overlap and the lineup can go from clean to a little confused as different directions converge. - Oct 8 (Day 3): Gradual decline. Most longer-period energy eases; shorter-period N and NE components and residual **11–12s** lines remain. Surf size will drop from the peak but pockets of punchy sets will persist on the most exposed reefs.

Wind/weather effects (north shore specifics) - Wind direction 110° (ESE): For the north shore this carries a southerly component that is slightly offshore (offshore = from land toward the water on the north shore). That orientation tends to groom faces at the exposed points and create cleaner conditions, particularly in the morning when trades are typically lighter. ESE is a good angle for hollow barreling at Pipeline and Sunset when not too strong. - Caveat: If the 110° wind is strong (trade/wind speeds 15+ kt), expect sideshore gusts, increased spray and some surface texture — barrels will be harder to find and the lineup can get blown out. If winds back toward NE or E the north shore will still be reasonably clean; if winds rotate south or southwest the offshores will shift onshore and make conditions messy. - NE 7s short-period swell will produce nearshore lump and short, punchy sets — this energy can make shoulder lines inconsistent and create tricky closeouts at shallower reef exits.

Break-specific expectations and practical advice Note on Hawaiian sizing vernacular used here: I list the swells in the Hawaiian scale you supplied and then give practical shot-list interpretation for each break.

Pipeline / Ehukai (Banzai Reef) - Expected size: Mix of the **8.2 ft** @13s and **6.9–5.6 ft** @12s will focus on Pipeline's NNW entrance tags. Hawaiian **8–6 ft** energy with **12–13s** period — this is enough to produce solid, hollow barrels on prime sections. - Best window: Peak morning to early afternoon on Oct 7. Cleanest if ESE winds stay moderate or light. - Tide interplay: Low–mid tide favors the classic heavy Pipeline sections; too high and the lip will dump faster but can still close out. - Skill level: Not for intermediates at these sizes. Expect fast takeoffs, thick lips and heavy re-entries. Hold the exit line — currents and backwash from overlapping swells can pin surfers on the inside. - Practical: Use a performance shortboard at the shoulder/hollow sections; bigger swallow or step-ups will be needed if the sets jack up. Watch the channel for confusing rips and set surge.

Sunset Beach - Expected size: Responsive to the 13s/12s NNW energy — Hawaiian **6–8 ft** pulses should deliver long, hollowed walls and pitty barrels on the peak sections, especially during the peak on Oct 7. - Best window: Mid-tide to high-mid on peak day will keep long walls; morning light with ESE breeze will clean faces. - Skill level: Advanced recommended in bigger sets. Produces long rides if you can make the drop and get the rail in. - Practical: Sunset can hold power even as period drops — expect strong shorebreak and little forgiveness near the inside. Keep a leash and chest protection if you're going big.

Waimea Bay - Expected size: With most energy in the **10–13s** band, Waimea will see solid surf but not classic XXL Waimea unless a longer period (**16–20s**) pulse hits. The **7.2 ft** @10s and **8.2 ft** @13s will give Waimea push — expect Hawaiian **6–8 ft** sets on the peak but less sustained than a deep-ocean storm swell. - Best window: Peak mid-day Oct 7 as the 13s arrives. Needs a bit of tide and direction to fully flesh out. - Skill level: Big wave capable paddlers and tow teams should be comfortable in this range; smaller boards may struggle on the bigger sets. If you're local and big-water experienced, it's runnable; otherwise stay back and spectate. - Practical: Currents and channel flow on the inside will be strong with overlapping swells. If you paddle it, check crew and safety plan.

Haleiwa / Rocky Point / Chun's - Expected size: Exposed points like Haleiwa and Rocky Point will see the **12–13s** energy translate into overhead to well-overhead conditions on sets — Hawaiian **6–8 ft** pulses. Rocky Point will get more refracted, longer walls; Chun's will see punchier, shorter rides. - Best window: Morning through midday Oct 7. With ESE winds these points can be clean and offer great face shape. - Skill level: Intermediate+ at the smaller sets; advanced on bigger pulses. - Practical: These spots will pick up wind chop faster into the afternoon if winds increase. Keep an eye on shore breaks and shallow inside rocks.

Pupukea (back bays, off-peak areas) - Expected size: Backing lee and inside revs will be smaller — the reef lines closer to shore will feel the NE 7s short swell more, producing choppy, punchy waves and confusing closeouts. Hawaiian **3–5 ft** in protected pockets while exposed reefs still see larger lines. - Practical: Good options for intermediates if you want smaller, more manageable waves — but expect turbulence and mixed directions.

General surf safety and equipment notes - Multiple directions = confused seas. When several swells overlap (NNW + N + short NE), expect sets that refract and jack quickly — more shorebreak, unpredictable channels and stronger rips. - Board sizes: Bring a step-up or a board with a little extra volume for the main NNW sets (8–9' gun for very large days at Waimea/Pipeline if that's your zone) or a solid hybrid/shortboard 6'0–6'6 for Sunset/Haleiwa depending on your skill. For smaller reef breaks, a standard shortboard will do. - Leashes and reef booties: Highly recommended. Reef is shallow in many takeoff zones and backwash can slam you into rock. - Newer surfers: Avoid exposed pipeline, Sunset and Waimea at these sizes. Look for protected sandier breaks or smaller back bays.

Comparison to normal for this time of year (early October, fall) - Typical fall pattern on the North Shore runs NW–WWN swells 2–6+ ft (Hawaiian) as the system transitions into winter. Early fall usually has an uptick in NW energy as storms form in the North Pacific but typically not the full winter size or long-period swells yet. - How this event compares: This multi-line N/NNW event fits the early-season trend but is a bit more active than a baseline day — several moderate **10–13s** lines stacked together produce a fuller, more punchy North Shore than the “average” early October day. Not extreme compared to true winter giants, but above the typical calm early-fall session; surfable and substantial on exposed reef passes.

Uncertainties / what to watch - Wind speed: 110° is favorable for cleaning faces if it stays light–moderate. If it ramps up (15+ kt), expect blown out conditions and more cross chop. - Local tide swings and sand movement: Small shifts can change peak shape quickly on shallow reefs — check the tide chart for preferred windows at Pipeline/Sunset (low–mid for Pipeline, mid for Sunset). - If a longer-period (**16–18s**) pulse appears upstream, Waimea and the most exposed points could jack further. Conversely, if the 13s line weakens earlier than modeled, the peak will be shorter.

Bottom line (concise) - Expect an active North Shore run Oct 6–8 with the best surf on Oct 7 when the 13s NNW energy peaks. ESE winds (110°) will likely produce a useful offshore component — favors clean, hollow conditions at Pipeline and Sunset if winds remain light. Overlapping short-period NE energy will add lump and shore texture, so conditions can go from glassy to confused as sets stack. Veterans and big-wave capable surfers will find solid,

powerful conditions; less experienced surfers should seek protected spots or sit this one out.

If you want, I can: - Convert the Hawaiian scale numbers to approximate face heights for each break, - Add a tide-specific timing window if you give the tide times, - Pull in local buoy/wind speeds to refine the wind impact.

South Shore Forecast

South Shore — O'ahu Forecast period: 2025-10-06 through 2025-10-08
Overview (short) - Primary energy: SSE swell, **1.6 ft (Hawaiian)**, 13 s period — small, but with decent period for its size so it will produce usable faces across the town spots. - Local wind reported from 110° (ESE). Wind speed not available — small-swell performance will be very sensitive to whether that wind is light or breezy. See wind notes below. - Tide/timing: smaller, longer-period south swells like this generally perform best on mid to higher tides at the town breaks. Expect small, clean longboard-style lines if winds are light; if winds are onshore/moderate, expect bumpy, pushy closes.

Swell analysis - Height: **1.6 ft (Hawaiian)**. Quick conversion: Hawaiian scale is commonly about half the face height; **1.6 ft** Hawaiian corresponds roughly to **3–4 ft** faces on sets (typical local translation). Expect average faces roughly in the **2–4 ft** range, with the occasional slightly bigger set if the buoy readings under-sampled the peak. - Period: 13 s — moderate period. Not a long-period storm swell, but long enough to organize into rideable lines rather than short, mushy lumps. Sets will be more punchy and better formed than a **7–9 s** sea. - Direction: SSE. Typical fall direction is generally S to SSW; this one is a bit more easterly (SSE) than the classic S–SSW fall swells. That shifts energy slightly toward breaks that face more southeast (parts of Waikiki and some of the eastern town points) and away from spots that prefer SSW.

Wind and weather effects (South Shore specifics) - Wind direction 110° (ESE): For much of the South Shore coastline an ESE wind often reads as side-shore to slight offshore in protected pockets (Waikiki Canoes and some spots

near the reef) but can be cross-shore to onshore at fully south-facing points. Here's how to think about it: - If winds are light (<10 kt): ESE will generally be forgiving — small swell + decent period = clean, groomed lines across Waikiki and Ala Moana. Longboard lines and gentle peelers likely. - If winds are moderate to fresh (10–20+ kt): expect surface texture, with cross-shore chop and some push at exposed points (Ala Moana outer bowl and Kewalo). Small waves will become harder to ride; sets less organized and more closing out. - Afternoon sea-breezes and local thermal effects can swing winds a bit more E to SE and increase onshore influence into the afternoon; mornings are typically the cleanest window if winds are building. - Weather-related caveat: With wind-speed unavailable, plan for two scenarios (light vs moderate). If you value efficiency, check a local wind source before heading out.

Timing (building / peaking / dropping) - 10/06 (Mon): Swell is present and should be near its peak energy for this small SSE pulse. Morning window likely best if winds are light. Expect the most frequent, rideable sets through the day; slight easing possible late evening. - 10/07 (Tue): Holding or slowly easing. Still surfable at town spots, but average set size trends down compared to the 10/06 peak. Morning again the cleaner window; late afternoon risk of increased onshore sea-breeze. - 10/08 (Wed): Gradual drop continues. Surf becomes smaller and more inconsistent — best for longboards, SUPs, and beginners seeking more forgiving waves. By late day 10/08, conditions may be back to background southern residue.

Break-specific guidance (town spots and nearby) Note: "Hawaiian" heights given first, followed by approximate face heights in feet.

Waikiki — Canoes / Queens / Pops - Expected: **1.5–2.0 ft (Hawaiian)** — roughly **3–4 ft** faces on sets at peak (10/06), trimming to **1–1.5 ft (H)** by 10/08. - Behavior: Canoes and the inner reef are forgiving and longboard-friendly. With a 13 s period you'll get longer, catchable lines — ideal for longboard work and noserides if winds are light. Queens and Pops will offer slightly punchier rides; Pops can hold a little more energy but will still be small and mostly friendly. - Best conditions: Mid to high tide; mornings if wind is light.

Ala Moana (Bowls / Inner Harbor) - Expected: **1.5–2.0 ft (H)** on the bowl during the swell peak — chest/shoulder on experienced surfers at the bowl on better sets; smaller inside. - Behavior: Ala Moana outer bowl is more exposed to SSE energy and will show more of the swell's power than the

Daily Forecast

Oahu — Daily Surf Report Date: 2025-10-06 — Dominant swell: NNW

Current summary (today) - NNW swell is the driver today: favors north- and west-facing breaks. Expect the morning to be the cleanest window with lighter winds; conditions trend windier and more chopped into the afternoon as the NNW breeze increases. - Suit: 3/2 or 4/3 spring (water still warm but bigger sets and windchill in the AM/PM).

Wave heights (Hawaiian scale) - North Shore (Ehukai/Pipeline, Hale'iwa, Rocky Point, Waimea): shoulder-head to overhead (S-H to OH). Occasional larger sets—advanced-only at exposed spots. - West Shore (Makaha, Yokohama): chest–shoulder (W-C to S-H). Good for longboard and powerful shortboard sessions depending on tide. - South Shore (Waikiki, Ala Moana): ankle–knee to small waist (A-K to W) — generally small and sheltered from a pure NNW. - East Shore (Kailua, Lanikai, Sandy Beach): largely flat to ankle (A) — east shores remain protected from NNW energy.

Wind & weather - Morning: light/variable to gentle ENE/NE trades 5–10 kt in many spots — best window (glassy/cross-shore conditions for north & west breaks). - Midday → afternoon: NNW winds build to 10–20+ kt, increasing chop and making exposed north/west reefs lumpier and less organized. - Forecast: partly cloudy with scattered showers possible. Temperatures in the low–mid 80s.

Tide guidance (practical surfing notes) - General rule today: aim for the morning mid-tide window for most reef/point breaks (better shape, less tendency to close out). Low tide may expose shallow reef; high tide can soften some spots. - Beach breaks (Waikiki, west sandbars) often work better on higher tides — adjust session plan to local tide chart before heading out. - Always check the live tide chart for exact times for your chosen spot.

Best spots for today (given NNW swell) - Advanced/powerful waves: North Shore — Ehukai/Pipeline (for heavy overhead sets), Hale'iwa and Waimea for larger, punchy waves. Only go if experienced and comfortable with reef/shorebreak. - Solid, more rideable NW energy: West Shore — Makaha and nearby breaks pick up the NNW cleanly and can offer long powerful rides. - Small/clean or longboard sessions: Early Waikiki or Ala Moana for a mellow

alternative; eastside (Kailua/Lanikai) remains sheltered and small. - If unsure, choose lifeguarded breaks and check local surf cams/reports.

Hazards & tips - Expect strong currents, larger unexpected sets at exposed north-west spots, and shallow reef at low tide—use caution. - Best session: early morning before NNW winds rise. If winds build, consider shifting to more protected breaks or call it a day. - Gear: stronger leash, board suitable for overhead (for North/West). Helmets advised in crowded or heavy reef areas.

Changing conditions through the day - Morning: cleanest, light winds — best window for performance surfing. - Midday → afternoon: swell likely holds or slightly increases; NNW winds strengthen making faces choppy and closing out some peaks. Visibility of sets may improve but quality often drops. - Evening: winds may ease again later (check local forecast), but daylight limits sessions.

Quick action checklist - Check local cams & NOAA tide times for your chosen spot. - Plan to surf early for best shape and cleaner conditions. - Match spot to skill level — North/West for experienced surfers, Waikiki/guarded breaks for intermediate or beginners. - Respect lifeguards and reef safety.

If you want, I can pull nearby live cams/tide times and recommend a specific time/spot for your skill level.

Historical Comparison

Compared with **forecast_20251005_004039** generated on
2025-10-05T00:40:39.903069:

- Confidence up 0.08 since the previous run.

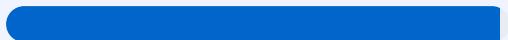
Forecast Confidence

Overall confidence: 0.7/1.0



Confidence Factors

Data Freshness: 1.0



Source Diversity: 0.3



Source Agreement: 0.7



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