### WITS\_WITSML Record 25 Weather & Sea State

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| **WITS Record ID:** 25 | **Logical Record Type:** 175 | **Auto/Manual:** Manual |
| **Trigger:** [TIME] Transmit at a specified time interval (secs) | | |
| **Data Source:** Acquired sensor data (possibly via WITS Level 0 transfer), or manually entered data. The record is transmitted and any automatic computations are reset at the end of the triggering interval. | | |
| **Data Typology:** Reference (Ref), Date\_Time\_Stamp(Dts), Real-time-Measure (Rtm), Real-time-Signal (Rts), Limit (Lim), Set-Point (Spt), Calculation (Cal), Distribution (Dis), Command (Com), Parameter (Par), Synthetic Value (Syn), Alarm (Alm), Interpreted (Int), Modeled (Mod), Observed (Obs), Code (Cod), Count (Cnt), Cumulative (Cml), Status (Sta), Expected (Exp), Estimated (Est) | | |
| **Data Field Types:** A = Alphanumeric String, L = 32 bit 2's complement signed integer, S = 16 bit 2's complement signed integer, F = 32 bit IEEE single precision floating point, E = Engineering, B = Boolean (1 if True and 0 if False), D = Date, T = Time, V = Variant, IL = Integer List, FL = Float List, EL = Engineering List, TL = Text List | | |
| **Reserved Characters:** Comma (,) - Separates Fields, Semi Colon (;) - Separates Items in a Standard Record, Colon (:) - Separates items in Date and Time Fields, Ampersand (&) - Separates items in a List | | |
| **Data Mnemonic Abbreviations:** Raw (Raw), Average (Avg), Max (Max), Min (Min), Mean (Men), Root-Mean-Square (Rms), Percent (Pct), Error (Err), Correlation (Cor), Probability (Prob), Variance (Var), Spread (Spd), Mean-Absolute-Deviation (Mad), Ratio (Rat), Standard Deviation (Std), Mode (Mod), Weighted Mean (Wtm), Dispersion (Dis), Product (Pro), Sum (Sum), Cumulative Sum (Csm), Corrected (Cor), Adjusted (Adj), Instantaneous (Ins), State (Sta), Observed (Obs), Expected (Exp), Observed-Cumulative (ObC), Expected-Cumulative (ExC), Total (Tot), Reported (Rep), Interpolated (Itp), Period (Per), Currency (Cur) | | |

| WITS  Record / Item | Description | STD WITS Long Mnemonic | Operator Mnemonic for WITSML & OSIsoft PI & ODA | Field Type | Length | Typology | Transmit Units (FPS) | Transmit Units (Metric) | Data System Type |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2501 | Well Identifier | WELLID | WID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 2502 | Sidetrack/Hole Sect No. | STKNUM | SKNO | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 2503 | Record Identifier | RECID | RID | S | 2 | Ref | ---- | ---- | Identification |
| 2504 | Sequence Identifier | SEQID | SQID | L | 4 | Ref | ---- | ---- | Identification |
| 2505 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 2506 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 2507 | Activity Code | ACTCOD | ACTC | S | 2 | Cod | ---- | ---- | Activity |
| 2508 | Water Depth (mean) | WATDEPT | WDPM | F | 4 | Est | F | M | Depth |
| 2509 | Air Temperature | AIRTEMP | AIRT | F | 4 | Rtm | DEGF | DEGC | Temperature |
| 2510 | Barometric Pressure | BARPRES | BARP | F | 4 | Rtm | IHG | KPA | Pressure |
| 2511 | Waves, Significant Height | WVSHGHT | WVSH | F | 4 | Rtm | F | M | Height |
| 2512 | Waves, Maximum Height | WVMHGHT | WVMH | F | 4 | Rtm | F | M | Height |
| 2513 | Waves, Mean Period | WVMPER | WVMP | S | 2 | Dis | SEC | SEC | Period |
| 2514 | Waves, Direction | WVDIR | WVDI | F | 4 | Est | DEG | DEG | Azimuth |
| 2515 | Swell, Significant Height | SWSHGHT | SWSH | F | 4 | Est | F | M | Azimuth |
| 2516 | Swell, Maximum Height | SWMHGHT | SWMH | F | 4 | Est | F | M | Height |
| 2517 | Swell, Mean Period | SWMPER | SWMP | S | 2 | Est | SEC | SEC | Period |
| 2518 | Swell, Direction | SWDIR | SWDI | F | 4 | Est | DEG | DEG | Azimuth |
| 2519 | Wind Speed ( 1 min ) | WINDSPD | WSPD | F | 4 | Rtm | MPH | KPH | Speed |
| 2520 | Wind Gusts ( 5 sec ) | WINDGUST | WGST | F | 4 | Rtm | MPH | KPH | Speed |
| 2521 | Wind Direction | WINDDIR | WDIR | F | 4 | Rtm | DEG | DEG | Azimuth |
| 2522 | Anemometer Height | ANEMHGHT | ANEM | F | 4 | Rtm | F | M | Height |
| 2523 | Current Speed | CURRSPD | CSPD | S | 2 | Rtm | MPH | KPH | Speed |
| 2524 | Current Direction | CURRDIR | CDIR | F | 4 | Rtm | DEG | DEG | Azimuth |
| 2525 | Depth current measured | DEPTCURR | DCUR | F | 4 | Rtm | F | M | Depth |
| 2526 | Vessel Mean Draft | VESMDRFT | VMD | F | 4 | Rtm | F | M | Draft |
| 2527 | Heave, Peak-to-Peak (sig) | HEAVSIG | HVSG | F | 4 | Rtm | F | M | Height |
| 2528 | Heave, Peak-to-Peak (max) | HEAVMAX | HVMX | F | 4 | Rtm | F | M | Height |
| 2529 | Heave, Mean Period | HEAVMPER | HVMP | S | 2 | Rtm | SEC | SEC | Period |
| 2530 | Roll, Peak-to-Peak (sig) | ROLLSIG | RLSG | F | 4 | Rtm | DEG | DEG | Height |
| 2531 | Roll, Peak-to-Peak (max) | ROLLMAX | RLMX | F | 4 | Rtm | DEG | DEG | Height |
| 2532 | Roll, Mean Period | ROLLMPER | RLMP | S | 2 | Rtm | SEC | SEC | Period |
| 2533 | Pitch, Peak-to-Peak (sig) | PTCHSIG | PTSG | F | 4 | Rtm | DEG | DEG | Height |
| 2534 | Pitch, Peak-to-Peak (max) | PTCHMAX | PTMX | F | 4 | Rtm | DEG | DEG | Height |
| 2535 | Pitch, Mean Period | PTCHMPER | PTMP | S | 2 | Rtm | SEC | SEC | Height |
| 2536 | Yaw, Peak-to Peak (sig) | YAWSIG | YWSG | F | 4 | Rtm | DEG | DEG | Height |
| 2537 | Yaw, Peak-to-Peak (max) | YAWMAX | YWMX | F | 4 | Rtm | DEG | DEG | Height |
| 2538 | Yaw, Mean Period | YAWMPER | YWMP | S | 2 | Rtm | SEC | SEC | Period |
| 2539 | Surge, Peak-to-Peak (sig) | SURGSIG | SUSG | F | 4 | Rtm | F | M | Height |
| 2540 | Surge, Peak-to-Peak (max) | SURGMAX | SUMX | F | 4 | Rtm | F | M | Height |
| 2541 | Surge, Mean Period | SURGMPER | SUMP | S | 2 | Rtm | SEC | SEC | Period |
| 2542 | Sway, Peak-to-Peak (sig) | SWAYSIG | SYSG | F | 4 | Rtm | F | M | Height |
| 2543 | Sway, Peak-to-Peak (max) | SWAYMAX | SYMX | F | 4 | Rtm | F | M | Height |
| 2544 | Sway, Mean Period | SWAYMPER | SYMP | S | 2 | Rtm | SEC | SEC | Period |
| 2545 | Trim | TRIM | TRIM | F | 4 | Rtm | DEG | DEG | Heading |
| 2546 | Heel | HEEL | HEEL | F | 4 | Rtm | DEG | DEG | Heading |
| 2547 | Weather Comments | WSSCOMM | WSCM | A | 128 | Obs | ---- | ---- | Comments |
| 2548 | < SPARE 1 > | SPARE1 | SPR1 | F | 4 |  | ---- | ---- | Spare |
| 2549 | < SPARE 2 > | SPARE2 | SPR2 | F | 4 |  | ---- | ---- | Spare |
| 2550 | < SPARE 3 > | SPARE3 | SPR3 | F | 4 |  | ---- | ---- | Spare |
| 2551 | < SPARE 4 > | SPARE4 | SPR4 | F | 4 |  | ---- | ---- | Spare |
| 2552 | < SPARE 5 > | SPARE5 | SPR5 | F | 4 |  | ---- | --- | Spare |