C3S-CDS marine in-situ data

Release r092019-000000

Annex to User Manual

US Navy Hourlies

OSV Supplement

1951 to 1963 summary

009-117

Data source summary
Optimal data quality subset

Temporal extent of reports

Shaded area: number of reports with passed report_quality flag. Series: number observed parameter reports with passed quality_flag flag.

Spatial distibution of reports

Spatial distibution of reports. Reports included are those with passed report_quality flag.

Air Temperature

TOP. Series, left axis: latitudinal band aggregations of air temperature: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Sea Surface Temperature

TOP. Series, left axis: latitudinal band aggregations of sea surface temperature: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Dew Point Temperature

TOP. Series, left axis: latitudinal band aggregations of dew point temperature: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Sea Level Pressure

TOP. Series, left axis: latitudinal band aggregations of sea level pressure: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Wind Direction

TOP. Series, left axis: latitudinal band aggregations of wind direction: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Wind Speed

TOP. Series, left axis: latitudinal band aggregations of wind speed: minimum and maximum value (min/max) and mean (mean). The asterisks indicate where values fall outside of the plotting area; Shaded area, right axis: number of reports. BOTTOM. Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from the best data quality data subset only (report_quality and parameter quality_flag passed).

Data source summary
All available data

IO flow from ICOADS to C3S

Series, left axis: input/output main flow of reports from source data (ICOADS) to dataset included in release. Shaded areas, right axis: percent of invalid data with respect to the initially selected reports (PT selection). Invalid status are: invalid data model (md-invalid), invalid datetime (dt-invalid) and invalid station ID (id-invalid)

Duplicate status of reports

Duplicate status of reports included in release. Series, left axis: number of reports; shaded areas, right axis: stacked percent. Duplicate status are: best duplicate (best), unique report (unique), duplicate (dup), worst duplicate (worst), duplicate status not checked (unchecked)

Report quality status

Report quality status for reports included in release. Series, left axis: number of reports; shaded areas, right axis: stacked percent. Quality status are: passed (pass), location check failed (loc-fail), quality control of all measured parameters failed while location check passed (param-failed), quality not checked (unchecked)

Temporal extent of reports

Shaded area: total number of reports included in release (all report_quality flags). Series: number reports from the observed parameter (all quality_flag flags).

Spatial distibution of reports

Spatial distibution of reports. Reports of all qualities are included.

Air Temperature

TOP: Series, left axis: latitudinal band aggregations of air temperature: minimum and maximum value (min/max) and mean (mean); Shaded areas, right axis: stacked number of reports with different parameter quality status. Quality status are: report and parameter passed (qc passed), parameter qc failed (qc failed), location check failed (qcr failed), quality not checked (qcr unchecked) . BOTTOM: Spatial distribution on a 1x1 grid of number of reports (left), minimum value (center) and maximum value (right). Data values and counts extracted from all the available data from the source. Axis represent the full extent of the data available.

Sea Surface Temperature

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Wind Direction

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Wind Speed

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