Proudman Oceanographic Laboratory

Analysis of STABLE Data From Deployment 2, Holderness, UK January-February, 1995

J.J. Williams, J.D. Humphery, S.P. Moores & D. Wilson

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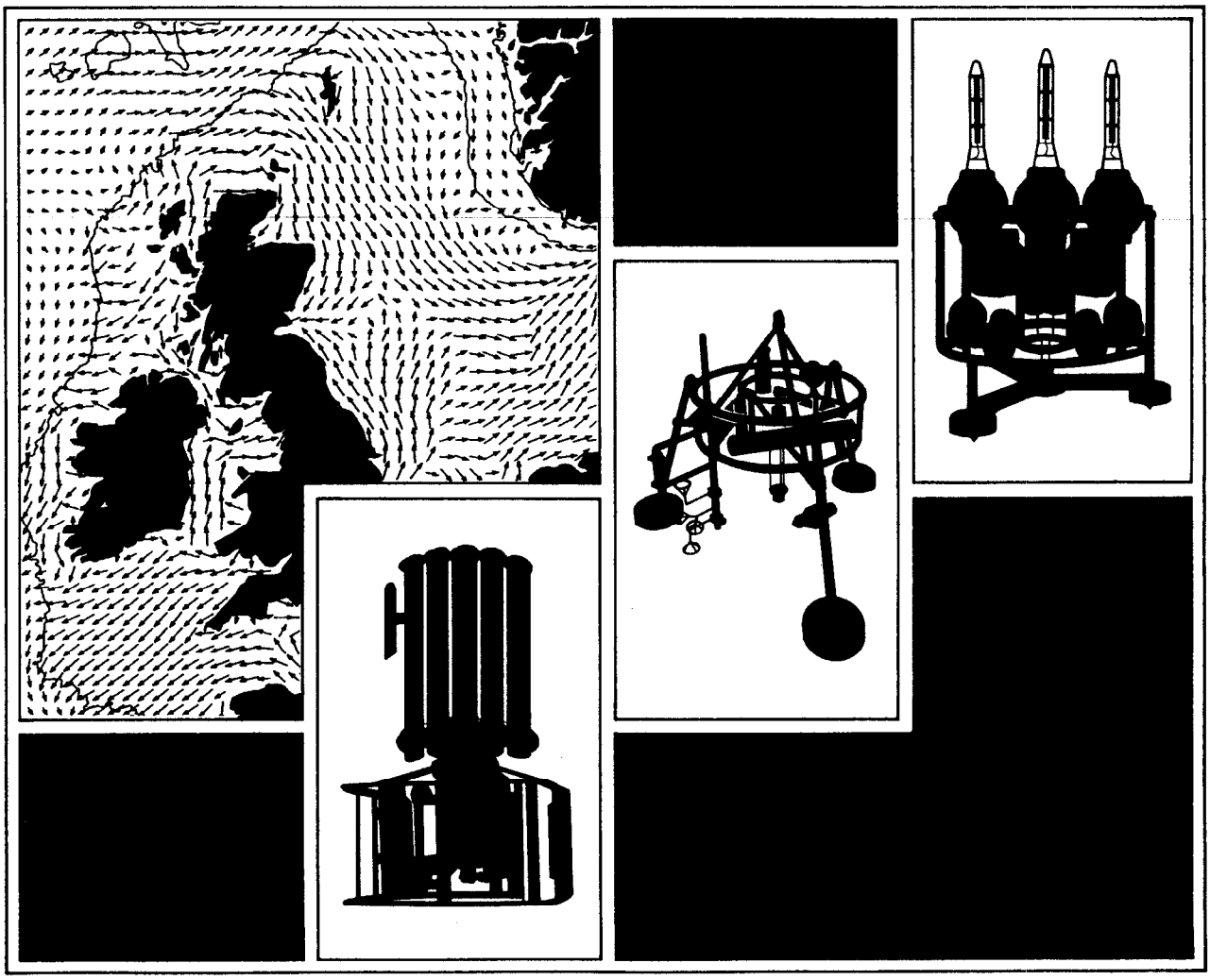

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ABSTRACT

This report follows on from POL Report 42 and describes preliminary analysis of further data obtained during the ***second deployment*** of STABLE off the Holderness coast during January-February, 1995. Data from a single pair of electromagnetic current meters and a sensitive pressure sensor are utilised to derive a range of informative near-bed hydrodynamic parameters. Data from optical and acoustic backscatter sensors are utilised to provide information on temporal variability in the concentration of suspended particulate matter (SPM). An electronic data base containing selected hydrodynamic parameters and suspended sediment information derived from STABLE data accompanies this report.

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1.0 Introduction

As part of the LOIS RACS(C) experiment off the Holderness coast, UK, (*Prandle, 1994*), the POL autonomous benthic rig STABLE (Sediment Transport And Boundary Layer Equipment, *Figure 1a, Humphery, 1987; Humphery & Moores, 1994*) has been deployed on **two** occasions in order to measure in detail physical processes close to the sea bed. *Williams et al., (1996)* describe the analysis of STABLE data obtained during the ***first deployment*** in October 1994 and present selected results illustrating the range of physical parameters obtained. This follow-up report examines data from the ***second deployment*** of STABLE in January-February, 1995 and focuses attention upon results from the data analysis. Analytical methods used to derive the physical parameters discussed in the following sections are described by *Williams et al., (1996)* and are only referred to briefly here.

2.0 Scope of report

This report presents and discusses results from the preliminary analysis of STABLE data. Methodologies utilised to analyse STABLE data have been developed at POL (*Williams et al., 1996*) and follow methods described by *Soulsby et al. (1991)* and *Hannay et al. (1994).* Various hydrodynamic parameters have been calculated and have been used to describe the average conditions pertaining at the STABLE deployment site during a given *burst* measurement period. Where possible these data have been calibrated and are presented in standard metric units. However, data relating to average suspended sediment concentrations obtained using optical and acoustic devices are uncalibrated at present. Physical parameters derived from STABLE data are considered under the following categories:

- Tides;
- Waves;
- Turbulence;
- Bed shear velocity;
- Drag coefficient and apparent bed roughness;
- Wave-current-bed interactions; and

- Sediment dynamics.

Many of the parameters described below are utilised in numerical models of shelf sea motion and in numerical models predicting the magnitude and direction of sediment transport. In some cases, the same physical parameter (e.g. bed shear velocity) has been estimated using more than one method. Data relating to bed shear stress and hydraulic roughness have been compared with a numerical model of the near-bed boundary layer in random waves which is known to perform well between certain prescribed conditions (*O'Connor et al., 1994*).

3.0 Field site and measurements

STABLE (*Figure 1a*) was deployed off Holderness from the *RV Cyrolana* on 25 January 1995 in approximately 27 m of water at 53° 49.587'N, 00° 06.718'E (*Figure 1b*). STABLE remained in the water until 16 February, 1995. In common with the first deployment, bottom sediments in the vicinity of the second deployment site comprised a mixture of gravel and fine sand and are thought to be a lag deposit owing to the strong tidal currents in the area.

Measurements of turbulence were obtained using a single pair of electromagnetic current meters (ECM's) located at 44 cm above the sea bed (z). Waves and tides were measured using pressure sensors at z = 175 cm. A vertical stack of four savonous rotors recorded tidal current speeds at z = 40 cm, 58 cm, 76 cm and 94 cm and a mechanical vane recorded tidal current direction at z = 108 cm. Vertical suspended sediment concentration profiles were measured at 1 cm intervals up to z = 127 cm using acoustic backscatter sensors (ABS) operating at 700 KHz, 2.0 MHz and 4.0 MHz. In addition, suspended sediment concentration was measured using optical backscatter sensors at z = 44 cm and 80 cm and sediment traps were mounted on the STABLE frame at z = 98 cm and 183.5 cm. Rig attitude and orientation was measured using a compass and pitch and roll sensors. Data from the pressure sensors, ECM's and OBS sensors were logged in burst mode at 8 Hz (4 Hz for the ABS) for approximately 20 minutes every hour. Other sensors, including a second

pressure recorder for tides at z = 175 cm, were logged in mean mode every minute of the deployment. In total 516 burst data sets were obtained covering the period 13h00 on 25 January, 1995 to 00h00 on 16 February, 1995.

Time constraints before rig deployment and damage to the sensors during rig recovery operations on 16 February, 1995 prevented calibration of the ECM sensors. This problem was overcome by applying a previously determined calibration appropriate for the present sensors to the measurements (i.e. 0.5 Volts $\approx$ 100 cm/s) and by estimating the sensor zero offset errors through intercomparison between ECM data and current speed data from the lowest rotor. In all cases, offsets were estimated to be less than 10 cm/s. A further check on ECM data was made using tidal current speed predictions from the POL 2-D tidal/surge numerical model. This confirmed the magnitude and phase of the ECM data. However, conclusive validation of ECM calibration and therefore absolute determination of tidal current speeds remains uncertain owing to unknown errors in the rotor data and to the difference in height between the lowest rotor (r = 40 cm) and the ECM sensors (z = 44 cm). In addition, errors in determination of zero offsets may also contribute to errors in the derived ECM data. Nevertheless, derivation of the majority of physical parameters relies principally on knowledge of turbulent velocity fluctuations about the mean and this can be determined with an estimated accuracy of $\pm$ 0.3 cm/s.

During the deployment winds were predominately westerly, and the offshore wave buoys and PMP pressure sensors at various instrumented sites (*Figure 1*) recorded waves with a significant wave height (H_s) and period (T_z) of approximately 3.0 m and 9 s, respectively, around 26 January, 1995. However, H_s values in the range 0.5 - 1.0 m were more typical of the wave conditions during the deployment. During the measurement period, tidal range varied between 1.8 m to 5.0 m and near-bed tidal current speeds exceeded 60 cm/s.

4.0 Disclaimer and data ownership

All data and information contained in the data base accompanying this report have been compiled by the originating scientists. Whilst great care has been taken to ensure data validity, no promise, warranty or undertaking has been made or has been given by POL, for the use or interpretation of the data or by any accompanying information, software or materials. The recipient must rely on his/her own skill and judgement in further utilisation of this data base. All data remain the property of POL and users must acknowledge appropriate POL staff in any subsequent publications arising from use of the data contained in this report and accompanying data base.

5.0 Data Base Description

A data base containing all hydrodynamic parameters and suspended sediment concentration information derived from the present STABLE data set is include on the floppy disk which accompanies this report. Both *burst* average and *mean* data sets are included. *Appendix 1* describing the data base lists column numbers, column headers and includes a description and definition of the various terms derived from the raw *burst* ECM, pressure, and ABS data and from the mean data. The data base is held on the accompanying disk as a *Microsoft Excel* file (**STABLE.xls**). A hard copy of the data base is given in *Appendix 2*.

6.0 Data description

In this section selected *burst* average STABLE data are used to illustrate the hydrodynamic conditions pertaining at the present field site during the experimental period 25 January - 16 February, 1995. All data plots have been produced utilising the data in **STABLE.xls** using the graphics facilities in the *Minitab V10.0* package.

6.1 Tides

Tidal variations in water depth approximately in the range 20 m to 27 m are illustrated in *Figure 2*. These data show a neap-spring-neap-spring tidal cycle with little additional surge component consistent with the relatively calm weather during most of the experiment.

Variations in tidal current speed at z = 44 cm approximately in the range 5 - 65 cm/s are shown in *Figure 3*. The plot of *burst* average U and V flow components in *Figure 4* show the tidal ellipse to be relatively narrow and indicative of approximately rectilinear tidal motion orientated along a NW-SE axis approximately parallel to the adjacent coastline of Holderness. Tidal current direction values obtained from the ECM and from the vane are illustrated in *Figure 5*. The observed current speed and direction values agree well with numerical model predictions of depth average values (see **STABLE.xls**).

Time series of *burst* average current speed derived from the rotor data are shown in *Figure 6*. Offsets are applied artificially to these data to permit inter-comparison between the different measurement heights. The relationships between tidal current speed measured by the rotors and by the ECM sensors at z = 44 cm shown in *Figure 7* demonstrates good agreement between *burst* average tidal current speed measured by these different instruments. A selection of vertical velocity profiles obtained when tidal current speed exceeded 10 cm/s at z = 40 cm and tidal directions were in the range 280° - 310 ° and 130 ° - 170 ° are shown in *Figure 8a*. Here negative current speed are used simply to discriminate between opposing tidal flow directions. In all cases, the correlation coefficient for these profiles exceeds 0.95 (R^2). These and other vertical velocity profile data are utilised in the sections below describing estimates of bed shear velocity and apparent bed roughness obtained using the profile method. In contrast, vertical velocity profiles shown in *Figure 8b* are distorted from the expected linear form by tidal acceleration/deceleration effects and cannot be used to estimate boundary layer parameters. In general, such profiles were observed when tidal current speeds were less than 20 cm/s.

6.2 Waves

Time series of *Burst* average RMS wave orbital speed (σ_w) obtained from ECM data obtained at z = 44 cm using the spectral splitting technique (*Soulsby & Humphery, 1989*) is shown in *Figure 9*. σ_w values are shown to exceed 10 cm/s for more than 24 hours on three separate occasions during the deployment and attain a maximum value on 26 January, 1995. *Figure 9* show also the modulation in σ_w resulting from changes in water depth during the

tidal cycle. The direction of waves relative to STABLE is shown in *Figure 10.* For most of the deployment waves propagating towards the coastline are approximately shore normal (i.e. $\approx 80^{o}$). Changes in wave direction from this value were always coincident with small waves (< 0.5 m). It is considered that the present combination of a range of wave heights, wave periods and tidal current speeds presents an interesting test case for numerical model validation and verification.

6.3 Turbulence

Following removal of variance attributable to surface waves using the spectral splitting method (*Soulsby & Humphery, 1989),* RMS turbulence intensity values were calculated for the zero-mean turbulent flow components u′, v′ and w′ at z = 44 cm. Here RMS values are defined as $(\overline{u_t'^2})^{0.5}$, $(\overline{v_t'^2})^{0.5}$ and $(\overline{w_t'^2})^{0.5}$ where the subscript t denotes turbulent fluctuations in the absence of waves. RMS normalised turbulence intensity values for u′, v′ and w′ time series were then obtained utilising bed shear stress (U_*) values from the TKE method (see below). Average values for the whole deployment are shown in *Table 1.*

	Normalised RMS turbulence intensity		
z	$(\overline{u'})^{0.5}/U_*$	$(\overline{v'})^{0.5}/U_*$	$(\overline{w'})^{0.5}/U_*$
44 cm	1.91	2.25	1.31

Table 1 Normalised RMS turbulence intensity values

Whilst values shown in *Table 1* are smaller than values obtained from the first deployment they remain within the range of values typifying turbulence structure in other geophysical boundary layers (*c.f. Soulsby, 1983*). *Figure 11* shows that irrespective of the flow component considered, RMS normalised turbulence intensity demonstrates a weak relationship with tidal current speed and the scatter of data values increases as the tidal current speed decreases. The slight increase in RMS normalised turbulence intensity for w′ may be attributable to slight misalignment of the ECM current meters relative to the

principal flow direction. Attempt to remove this slight error have proved unsuccessful thus far.

Power spectra (E) over a frequency range f = 0.01 Hz - 4.0 Hz were obtained from u', v' and w' time series obtained at z = 44 cm using a fast Fourier transform (FFT). An approximately $f^{-5/3}$ power law behaviour consistent with theory was observed for frequencies greater than 1.0 Hz for all *bursts*, and an approximately f^{-5} power law decay was evident for wave frequencies in the range 0.1 - 0.3 Hz during *bursts* when waves were present. This result indicates that turbulence generated at the sea bed by wave action, with frequencies greater than approximately 0.5 Hz, cannot be detected by the present ECM sensors at $z \geq 44$ cm. All spectra derived from the flow components u', v' and w' at z = 44 are illustrated as 2D contour plots in *Figure 12(a)*, *Figure 12(b)* and *Figure 12(c)*, respectively. These *figures* show clearly modulation of spectral energy due to tidal forcing across all frequencies. In addition, *Figure 12(a)* and *12(b)* show evolution and decline of a characteristic peak in spectral energy at approximately 0.12 Hz attributable to surface waves (period ≈ 8 seconds).

Figure 12(c) shows little evidence of wave activity during the experiment. However, there is perhaps a small peak in energy at approximately the wave frequency occurring around *bursts* 100 and 400, indicating possible 'leakage' of wave orbital motion into the vertical channel. It is considered that this occurs due to momentary misalignment of the ECM sensor relative to the principal streamline described above, (*c.f. Williams et al., 1996*). Such sensor misalignment may have implications when utilising Reynolds stress estimates to determine bed shear stress and is given consideration by *Williams et al., (1996).*

Co-spectra for u' and v' components (not illustrated) showed significant scatter in spectral estimates across all frequencies. In terms of the spectral wavelength λ_s at height z above the sea bed (*Soulsby, 1983*), where $\lambda_s = \hat{S}_z / f$, approximately 74% of the covariance is associated with λ_s values in the range $1.0 < \lambda_s < 350$ m for *bursts* 61-360. This range of λ_s values is observed to decrease progressively in response to increasing wave height.

Temporal variation in the Reynolds stresses $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$ measured at z = 44 cm is shown in *Figure 13*. Statistical description of all *burst* average Reynolds stress time series at z = 44 cm is given in *Table 2*.

Reynolds stress	N	Mean (cm^2/s^2)	Median (cm^2/s^2)	St.Dev. (cm^2/s^2)	Min. (cm^2/s^2)	Max. (cm^2/s^2)	Q1 (cm^2/s^2)	Q3 (cm^2/s^2)
$\overline{u'w'}$	516	0.122	-0.08	2.14	-6.45	7.70	-1.14	1.17
$\overline{v'w'}$	516	0.642	0.783	5.43	-24.24	22.13	-2.11	3.70
$\overline{u'v'}$	516	11.44	8.42	15.55	-54.01	86.38	-3.53	16.38

Table 2 Reynolds stress descriptive statistics, z = 44 cm. Here **St.Dev.** is the standard deviation, **Min.** and **Max.** are the minimum and maximum values in a given time series and **Q1** and **Q3** are the 25 and 75 percentiles, respectively.

As expected, *Figure 14*, shows the relationship between burst average Reynolds stress values and RMS wave orbital speed. This figure shown that Reynolds stress values are essentially independent of wave activity.

6.4 Bed shear velocity

In the present study four methods have been used to estimate *burst* average bed shear velocity ($\overline{U}_*$) using STABLE data: logarithmic profile (LP); Reynolds stresses (RS); turbulent kinetic energy (TKE) and; the inertial dissipation methods (ID). Assumption of a logarithmic distribution of average velocity with height is found to be valid in studies of wave plus current condition reported by *Kemp & Simons (1983)*. In the LP method reported here, estimates of $\overline{U}_*$ are obtained using a least squares regression fit to selected rotor data, *(Bergeron & Abrahams, 1992). Burst* average rotor data obtained during periods of rapid flow acceleration/deceleration or when $\hat{S}_{40} < 25$ cm/s were rejected. In such circumstances, turbulence level and stress is likely to be enhanced and constant stress layer assumptions are invalidated. A time series record of selected U_* estimates from the LP method is illustrated in *Figure 15* and shows bed shear velocity values in the range 1 to 3 cm/s.

Assuming a constant stress layer up to 0.1d, where d is the water depth (i.e. ≈ 3 m), shear velocity has also been estimated using *burst* ECM data at z = 44 cm using the Reynolds stress (RS, *Equation 4*) and turbulent kinetic energy (TKE, *Equation 5*) methods.

$$\overline{U}^2_{*RS} = (\tau/\rho) = \{(\overline{-u'_t w'_t})^2 + (\overline{-v'_t w'_t})^2\}^{1/2} \quad (4)$$

$$\overline{U}^2_{*TKE} = (\tau/\rho) = 0.19\,(E_T) \quad (5)$$

where $\overline{-u'_t w'_t}$ and $\overline{-v'_t w'_t}$ are *burst* average Reynolds stress values ***excluding waves***, $E_T = 0.5(\overline{u'^2_t} + \overline{v'^2_t} + \overline{w'^2_t})$ and the constant of proportionality (0.19) is given by *Soulsby (1983)*. Time series of U_* estimates derived using the RS and TKE methods are shown in *Figure 16* and *Figure 17*, respectively. Intercomparison between LP, TKE and RS estimates of U_* is shown in *Figure 18*. Relatively close similarity between U_* estimates from the LP and TKE methods suggests that RS estimates may be too high. Irrespective of the method utilised, U_* was observed to be related approximately to the square of the tidal current speed ($R^2 > 0.7$).

As an additional check of $\overline{U}_*$ estimates described above, use was made of the inertial dissipation (ID) method (*Xu et al., 1994*) to determine sea bed stress. Here

$$\overline{U}_* = \left[\phi_{ii}(k)k^{*5/3}/\alpha_i\right]^{0.5}(kz)^{1/3} \quad (6)$$

where $\phi_{ii}(k)$ is the i^{th} turbulent velocity component of the wavenumber (k) spectrum, α_i is the appropriate Kolmogorov constant (0.54, *Williams & Paulson, 1977*) and k^* is von Kármáns constant (0.4). Estimates of $\overline{U}_*$ at low Reynolds numbers (Re < 3000, where Re = $\overline{U}_* kz_{cr} / \upsilon$ and z_{cr} is the critical height above the bed and ν is kinematic viscosity) were adjusted using the method described by *Huntley (1988)*. As expected $\overline{U}_*$ values obtained using the ID method were found to be very similar to the $\overline{U}_*$ values from the TKE method (not illustrated here, see *Appendix 2*).

6.5 Drag coefficient and apparent bed roughness

The drag coefficient (Cd_z) is related to U_*^2 estimates at z = 44 cm by $Cd_z = \overline{U}_*^2 / \hat{S}_z^2$ and apparent bed roughness (z_a) is related to drag coefficient values at height z (Cd_z) by

$$z_a = ze^{\left(-k/Cd_z^{0.5}\right)}.$$

Here $\overline{U}_*$ values obtained using the RS and TKE methods are utilised to estimated the *burst* average drag coefficient and the apparent bed roughness. Estimated values of the drag coefficient (Cd_z) at z = 44 cm derived using RS and TKE estimates of $\overline{U}_*$ are shown in *Figure 19*. In common with estimated $\overline{U}_*$ values presented above, Cd_z values are apparently subject to modulation at the tidal frequency. *Table 3* gives a statistical description of the Cd_z (TKE) time series obtained at z = 44 cm.

Variable	z (cm)	N	Mean	Median	St.Dev.	Min.	Max.	Q1	Q3
Cd_z (RS)	44	515	0.0059	0.0039	0.0061	0.00015	0.042	0.0026	0.0065
Cd_z (TKE)	44	515	0.0025	0.0021	0.0017	0.00061	0.014	0.0012	0.0035

Table 3 Statistical description of Cd_z (RS & TKE) *burst* average data values. Here **St.Dev.** is the standard deviation, **Min.** and **Max.** are the minimum and maximum values in a given time series and **Q1** and **Q3** are the 25 and 75 percentiles, respectively.

Whilst the mean Cd_z value of 0.0025 from the TKE method is similar to the value normally chosen to characterise bottom drag in existing numerical models, the mean Cd_z value from the RS method is significantly larger and probable results from the overestimation of U_* described above.

A time series plot of apparent bed roughness (z_a) estimates obtained using the LP method is shown in *Figure 20*. *Burst* average z_a values obtained during periods of rapid flow acceleration/deceleration or when $\hat{S}_{40} < 25$ cm/s are omitted from this *figure*. Modulation of

z_a values in the range 10^{-6} cm to approximately 0.2 cm, is approximately in phase with changes in the tidal current speed. A comparison between z_a estimates from the LP and TKE methods is shown in *Table 4*. Mean values of the order 0.03 cm are typical for sand/gravel mixtures in marine conditions (*Soulsby, 1983*).

Variable	z (cm)	N	Mean (cm)	Median (cm)	St.Dev. (cm)	Min. (cm)	Max. (cm)	Q1 (cm)	Q3 (cm)
z_a (LP)	44	515	0.0316	0.0046	0.0757	$<10^{-6}$	0.972	0.00031	0.0335
z_a (TKE)	44	258	0.0264	0.0119	0.0362	$<10^{-6}$	0.181	0.00043	0.0371

Table 4 Statistical description of z_a (Profile & TKE) *burst* average data values. Here **St.Dev.** is the standard deviation, **Min.** and **Max.** are the minimum and maximum values in a given time series and **Q1** and **Q3** are the 25 and 75 percentiles, respectively.

The relationship between Cd_z (TKE) and *burst* average tidal current speed shown in *Figure 21* demonstrates the scatter of data values and apparent enhancement of Cd_z values at current speeds less than approximately 20 cm/s. In common with findings presented above, changes to the boundary layer resulting in distortion of the log-law region is identified as the principal source of data scatter. Without further investigation of this phenomenon it is not possible to use these data in related studies.

It is considered that the present time series of estimated drag coefficient values is of high quality and reflects genuine physical changes in local hydrodynamic conditions during the experimental period. As such, this data is very useful in assessing the validity of certain data analysis procedures and will be the subject of further work by the authors.

6.6 Wave-current-bed interactions

Figure 22, showing the relationship between RMS wave orbital speed/current speed (σ_w/S) and TKE/current speed^2 (TKE/S^2) indicates a progressive increase in the production of turbulent kinetic energy in response to an increase in the wave:current ratio. Since the value of TKE/S^2 should be approximately constant for a given bed roughness

(*Soulsby & Humphery, 1989*), *Figure 22* suggests that either the physical roughness of the sea bed changes during the experiment or that the additional turbulence generated at the sea bed through the action of wave motion can be detected by the ECM sensors. Similar interpretations are applicable also to data presented in *Figure 23* which shows the relationship between σ_w/S and Cd. However, the large Cd values in *Figure 21* are generally occur close to slack water when tidal acceleration effects are likely to invalidate assumptions made regarding the vertical structure of the near-bed boundary layer. It is recommended that these results should be examined closely in future investigations.

6.7 Sediment dynamics

In addition to the preliminary investigation of hydrodynamic parameters derived from the STABLE *burst* data set, the present investigation also examined data from the optical backscatter sensors at z = 44 cm (OBS1) and z = 80 cm (OBS2) and from a triple frequency acoustic backscatter device (ABS) operating at 4.0 MHz, 2.0 MHz and 700 KHz. In common with POL Report 42, calibration of these instruments has not been completed and thus comments here are restricted to a description of observed relationships between uncalibrated SPM data and various hydrodynamic variables considered to be important in sediment entrainment, resuspension, transport and accretion processes.

6.7.1 OBS data

Time series plots in *Figure 24* show *burst* average uncalibrated OBS data from sensors at z = 44 cm (1) and 80 cm (2). The strong visual correlation between the time series shown in *Figure 24* is confirmed in *Figure 25* which shows the highly statistically significant relationship between OBS1 and OBS2 (R^2 >0.8). Scatter on this plot is considered to be attributable to the difference in height between the two sensors (36 cm).

The temporal relationship between the OBS records, tidal current speed and RMS wave orbital speed is shown in *Figure 26*. Whilst modulation at the tidal frequency is apparent in both OBS records, periods of significantly enhanced sediment resuspension appear to correlate visually with increases in RMS wave orbital speed rather than with the tidal current alone. This is especially noticeable at the start of the deployment when OBS

signals are a factor of approximately two higher than at other times. This is thought to result from a storm period around 13 January when significant wave height exceeded 5 m close to the STABLE deployment site (*Wolf, 1996*).

6.7.2 ABS data

Owing to an error in programming the data logger, ABS *burst* data are not synchronised with the *burst* ECM data and thus the relationships between instantaneous hydrodynamic conditions and the suspended sediment concentration field cannot be examined. However, these data will allow investigation of hourly modulation in average suspended sediment concentration profiles throughout the deployment and will provide therefore, the parameterisation necessary for sediment modelling work.

Time series of *burst* average ABS data from selected measurements cell are shown in *Figure 27* (a)-(c) for the 700 kHz 2.0 MHz and 4.0 MHz devices, respectively. Here cell numbers 20 ($z \approx$ 20 cm), 36 ($z \approx$ 42 cm), 49 ($z \approx$ 78 cm) and 62 ($z \approx$ 104 cm) have been selected to illustrate ABS data characteristics. At the present stage of the investigation it is not possible to ascribe an absolute concentration of SPM to any of these measurements. Irrespective of the device measurement frequency, *Figure 27* shows that SPM concentrations are modulated strongly by variation in tidal current speed and decline with distance above the sea bed. Further, maximum observed SPM concentrations are approximately coincident with the period of maximum RMS wave orbital speed (*Figure 10*). These results indicate strongly the important role of waves in local sediment resuspension dynamics. Selected typical *burst* average SPM concentration profiles are shown in *Figure 28*. Each curve exhibits the classic exponential *Rouse* form observed at many other locations in numerous studies of suspended sediment dynamics dominated by tidal flows. It is not possible to comment further upon data quality or to speculate upon the likely sediment dynamics at the present study site without there being further work on the ABS data. This will be undertaken at POL during 1996/97.

A comparison between relative SPM concentration time series recorded by the OBS and ABS devices is shown in *Figure 29*. The general trend in these data showing a maximum around burst 120 is similar in both cases and peaks in SPM concentration at approximately the tidal frequency are observed to be approximately coincident. A second SPM peak is detected by both instruments at approximately burst 380.

7.0 Summary and acknowledgements

- Selected data from the second STABLE deployment in the Holderness experiment during January-February 1995 are presented and described. These data are considered to have significant value in a number of POL projects. In addition, these data may be useful in studies examining near-bed hydrodynamics and sediment resuspension processes.
- *Burst* average STABLE data are examined under the following headings:
    - ◊ tides;
    - ◊ waves;
    - ◊ turbulence;
    - ◊ bed shear velocity;
    - ◊ drag coefficient and apparent bed roughness;
    - ◊ wave-current-bed interactions; and
    - ◊ sediment dynamics.
- Selected data are presented as time series plots, scatter plots and power spectra. Initial comments are made regarding data quality and integrity. Data worthy of further investigation are identified and suggestions for further research are stated.
- Attention is drawn to links between observed hydrodynamic parameters and observed SPM. Use of these data in future studies and numerical modelling of local sediment mobilisation and transport is strongly advocated.
- A data base in *Microsoft Excel* format is included with this report on a 3.5" floppy diskette. All figures included in this report were prepared from these data.

Thanks are extended to Peter Hardcastle, Peter Thorne and John Humphery at POL. This study forms part of the Holderness Experiment (LOIS RACS(C)) and results also contribute to the ***CAMELOT*** *Project funded by the Flood and Coastal Defence Division of MAFF.*

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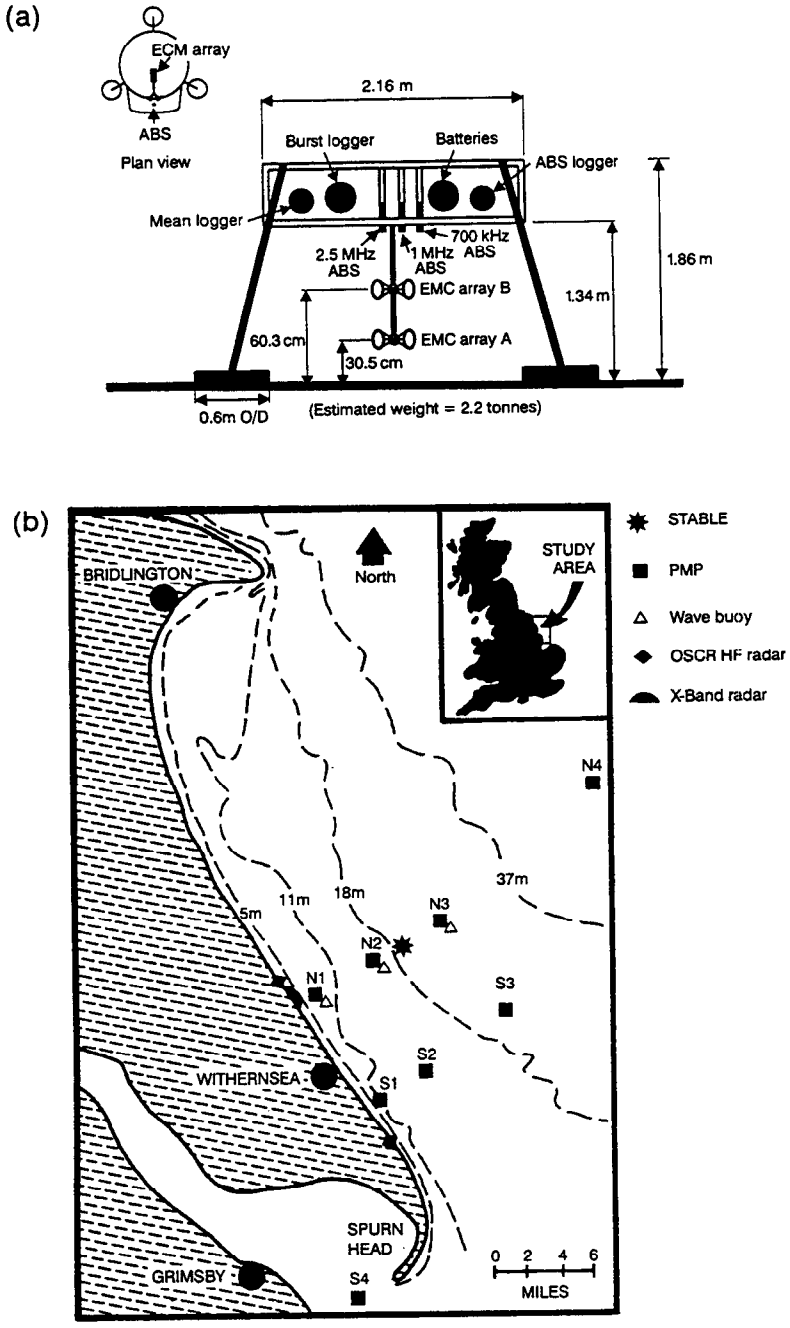


Figure 1 **Location of the Holderness field site showing: (a) STABLE; and (b) the STABLE deployment site, Holderness, UK.**

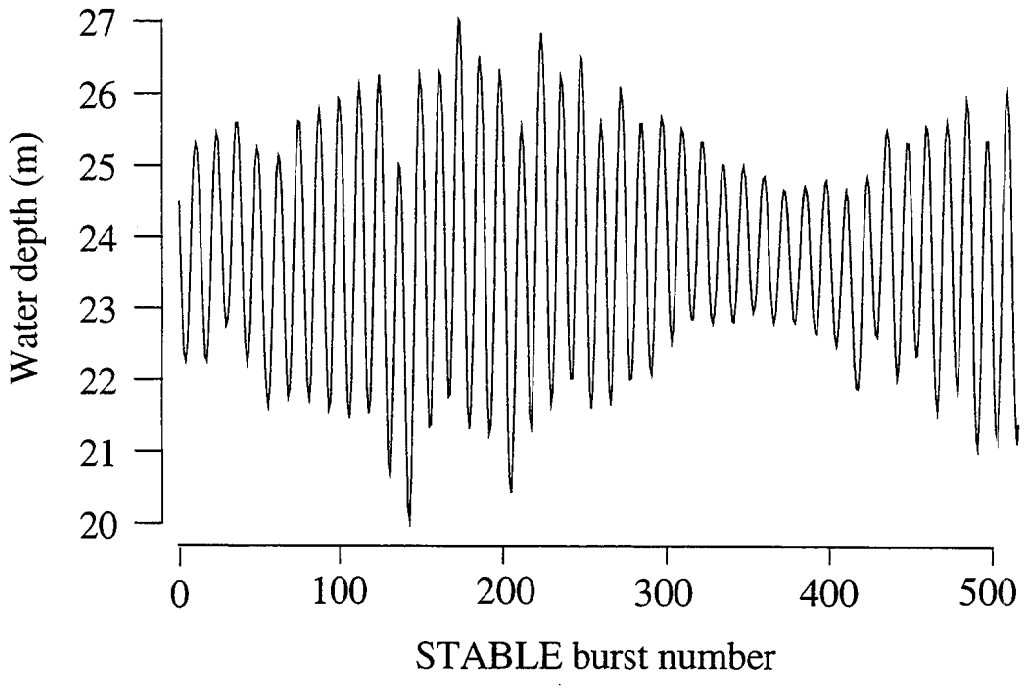


Figure 2 ***Burst*** **average water depth.**

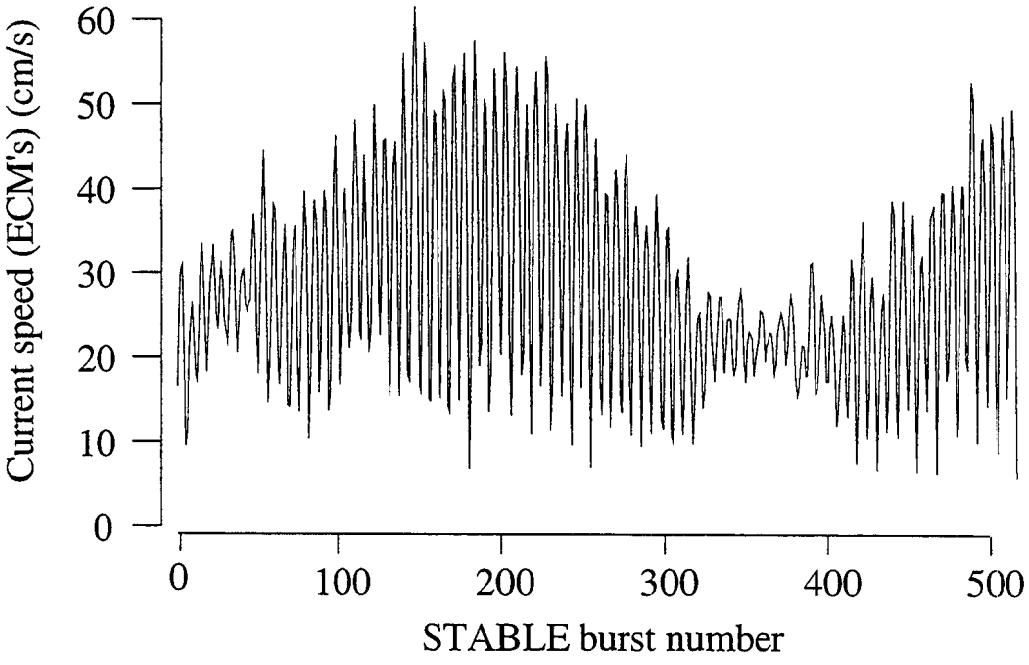


Figure 3 ***Burst*** **average tidal current speed at z = 44 cm.**

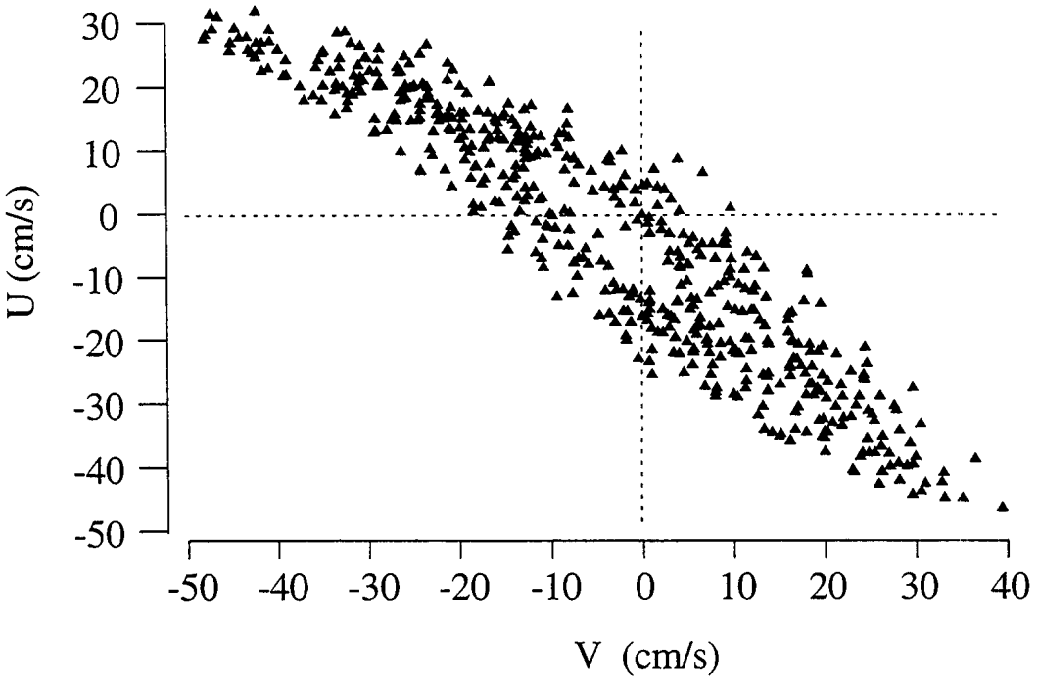


Figure 4 **Scatter plot of *burst* average flow components U and V at z = 44 cm.**

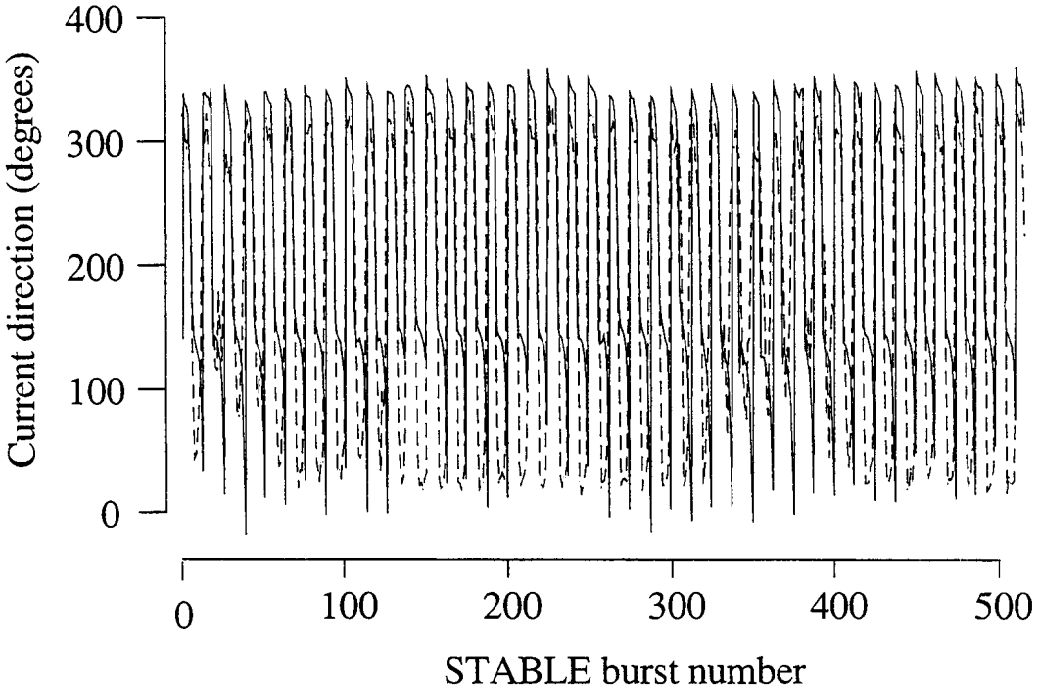


Figure 5 ***Burst* average tidal current direction from ECM and vane data.**

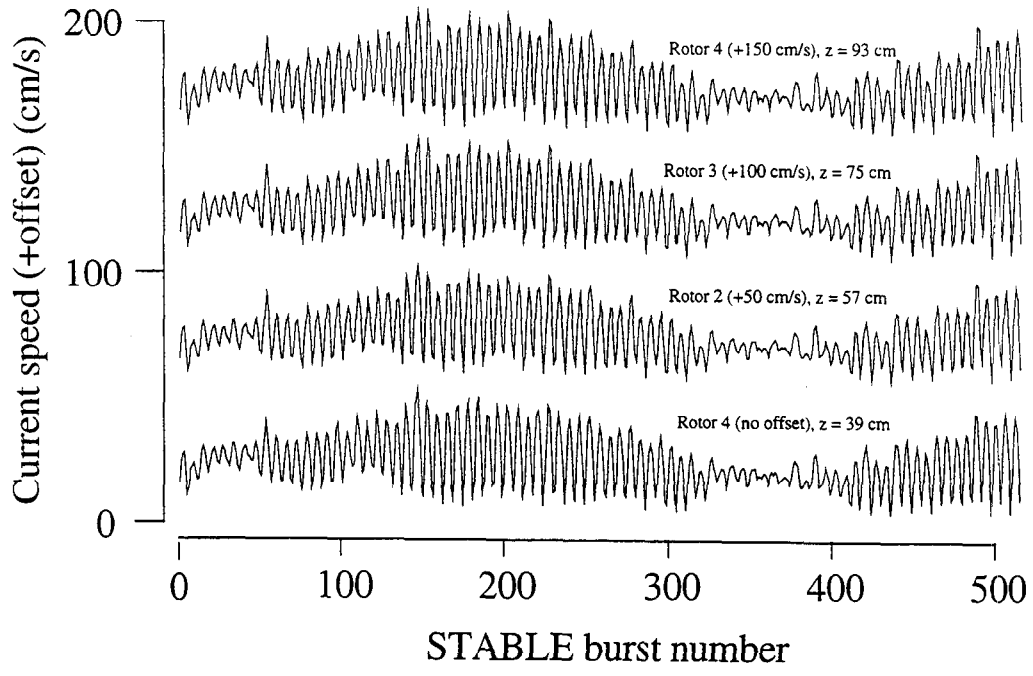


Figure 6 ***Burst* average tidal current speed from rotor data.**

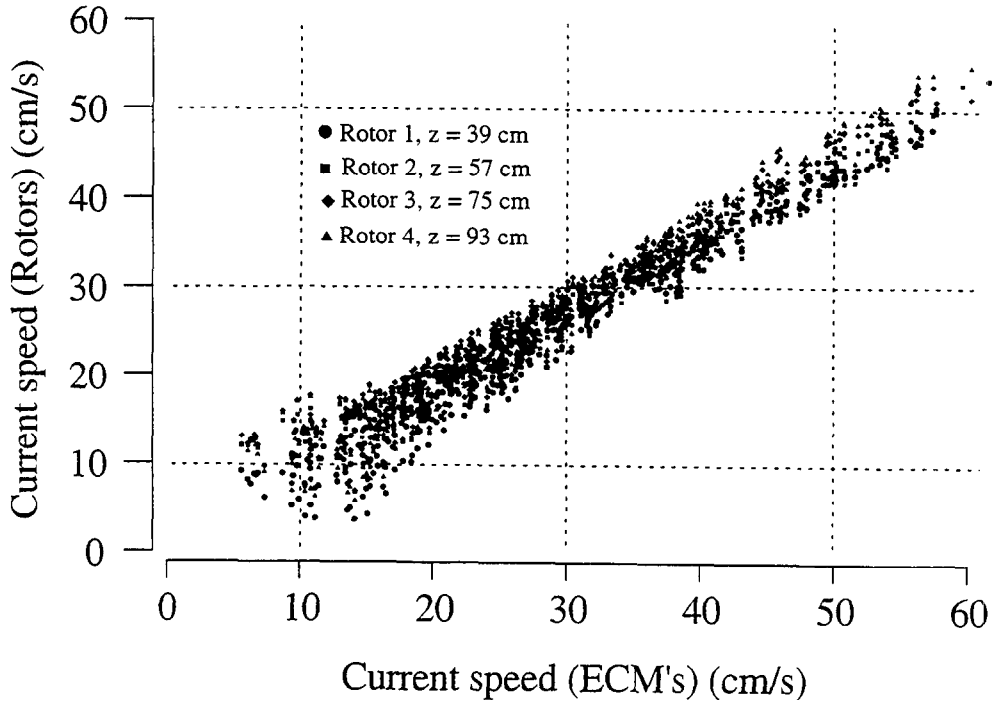
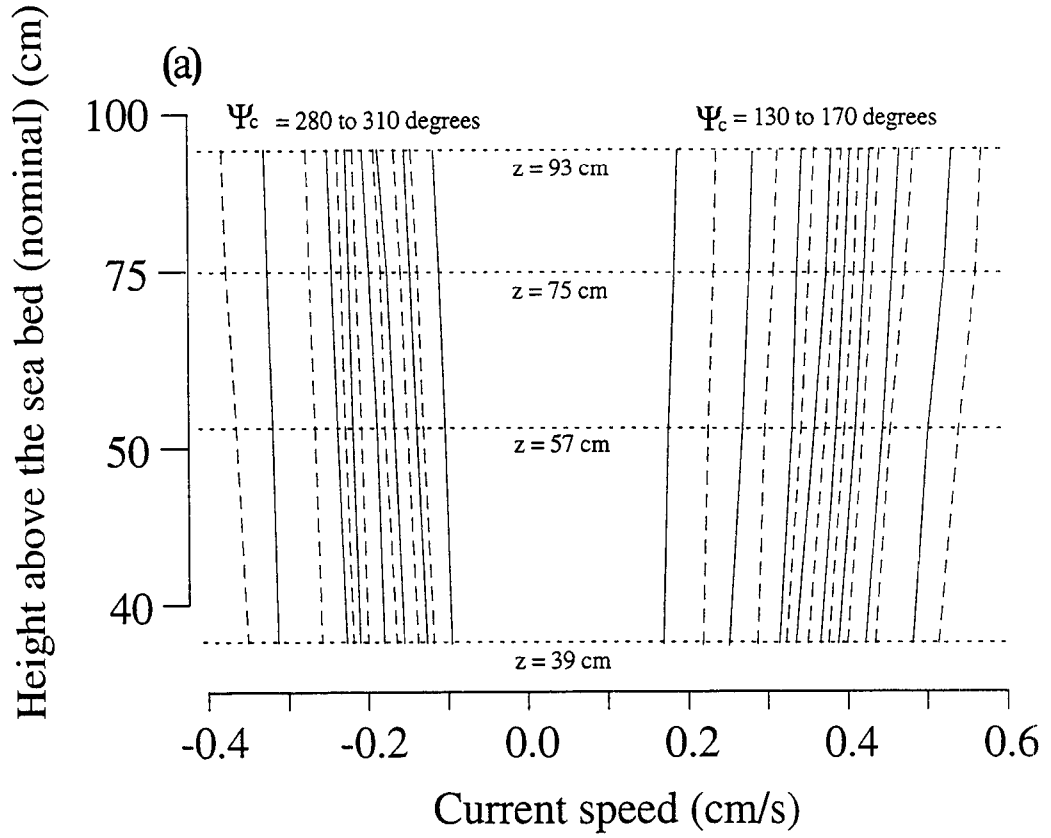


Figure 7 **Scatter plot of *burst* average rotor data versus *burst* average ECM data at z = 44 cm.**



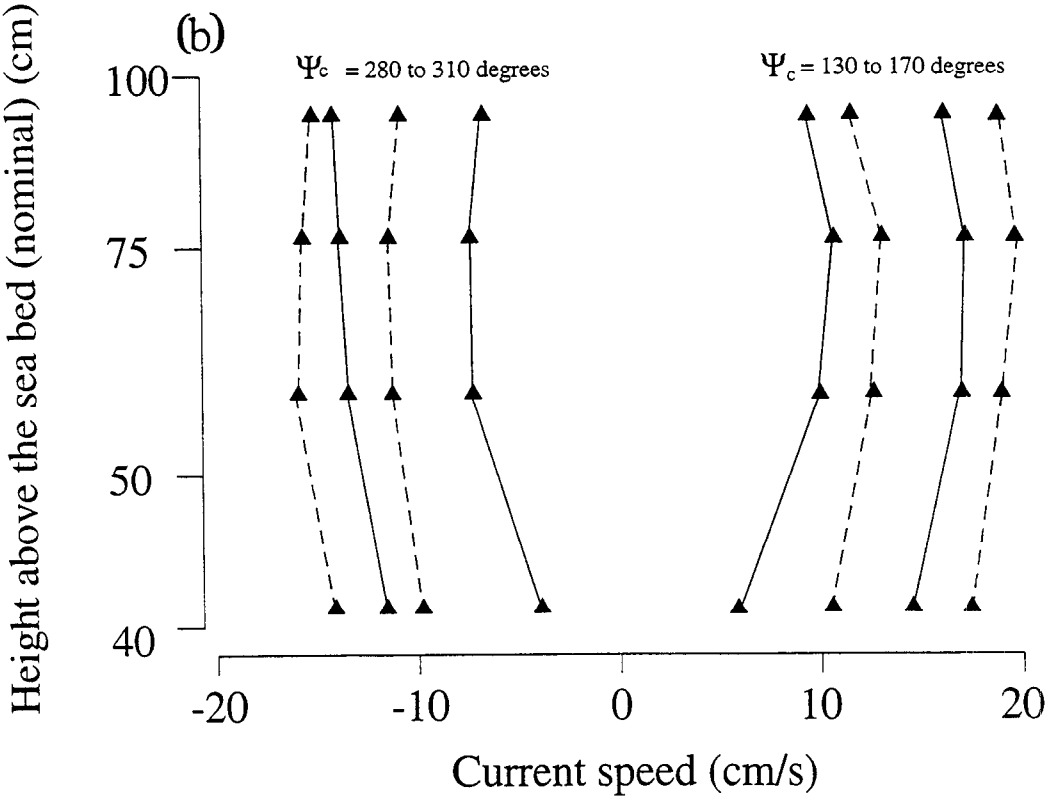


Figure 8 **(*a*) Velocity profiles from rotor data ($R^2 > 0.95$); and (*b*) Velocity profiles from rotor data ($R^2 < 0.5$).**

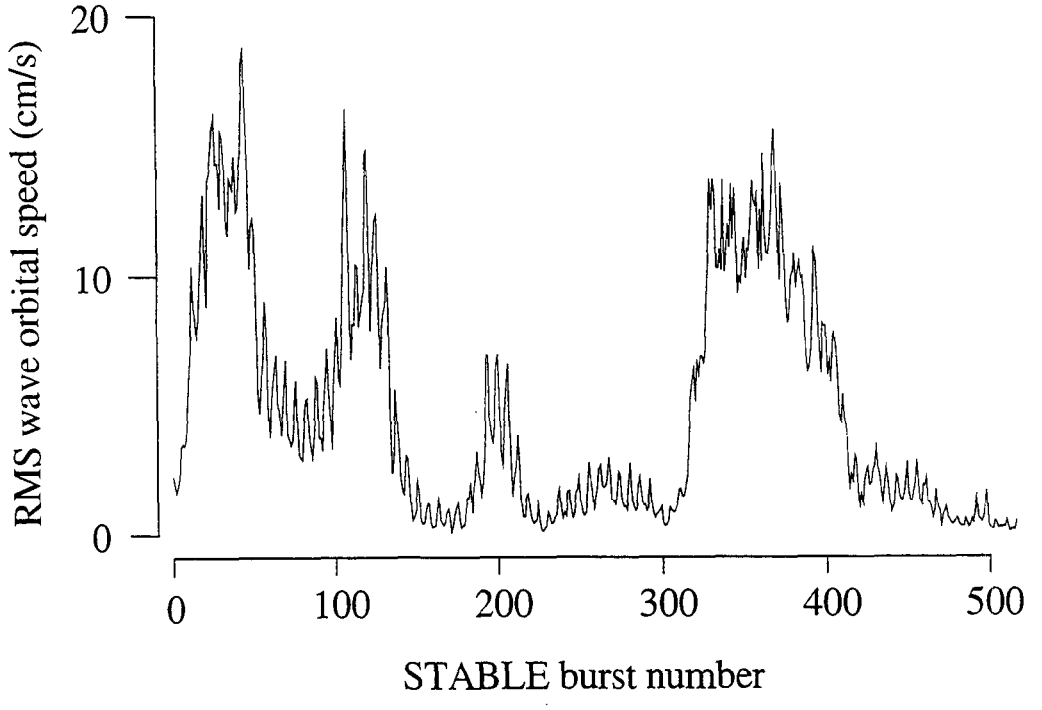


Figure 9 ***Burst* average RMS wave orbital speed at z = 44 cm.**

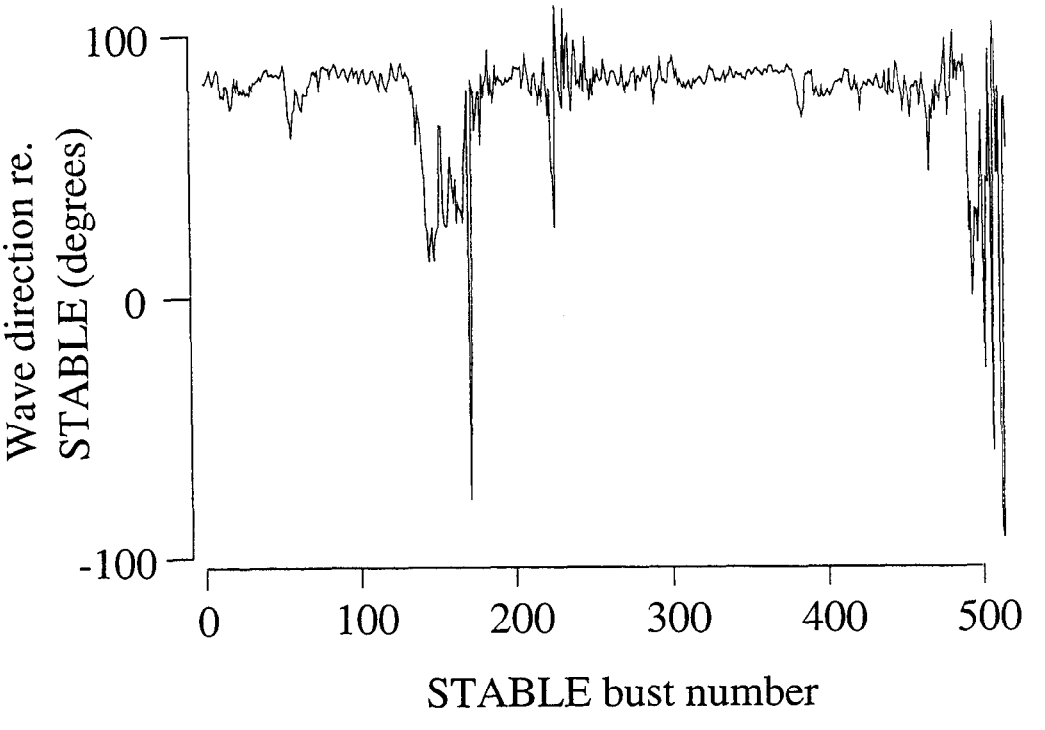


Figure 10 ***Burst* average wave direction relative to STABLE.**

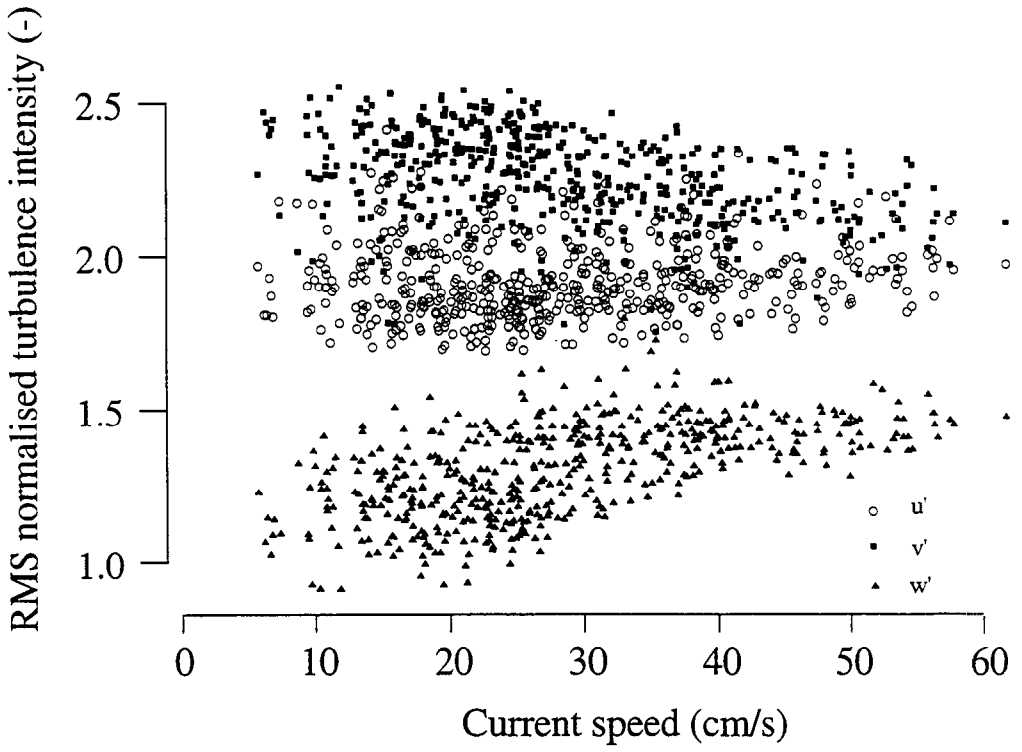


Figure 11 **RMS normalised *burst* average turbulence intensity obtained at a range of tidal current speeds for flow components u′, v′ and w′ at z = 44 cm.**

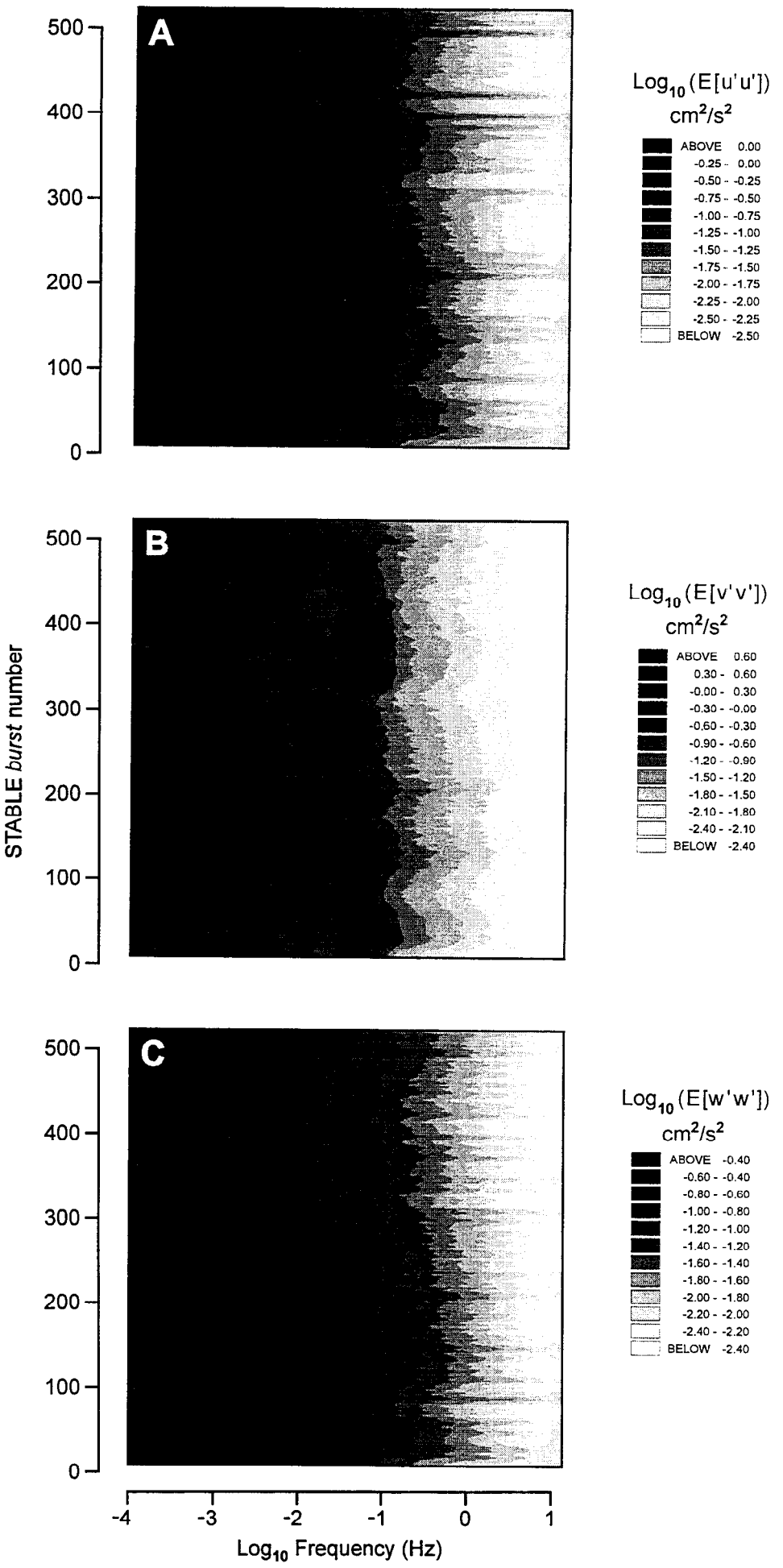


Figure 12 Contoured power spectra for the: *(a)* u' flow component; *(b)* v' flow component; and *(c)* w' flow component, z = 44 cm.

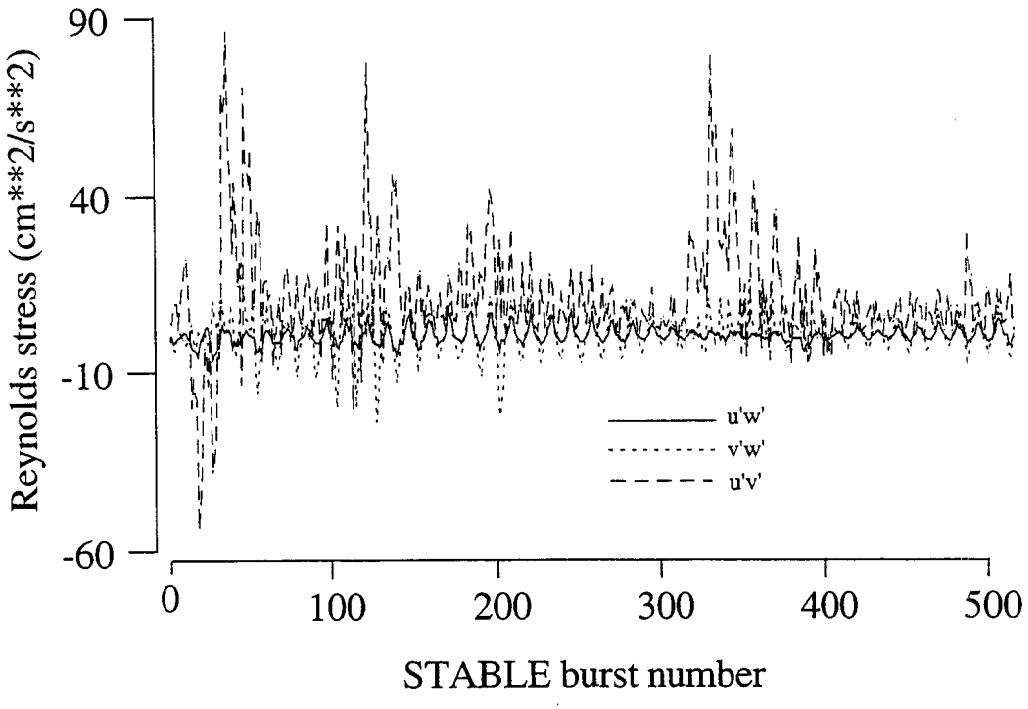


Figure 13 **Time series plots of *burst* average Reynolds stresses $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$.**

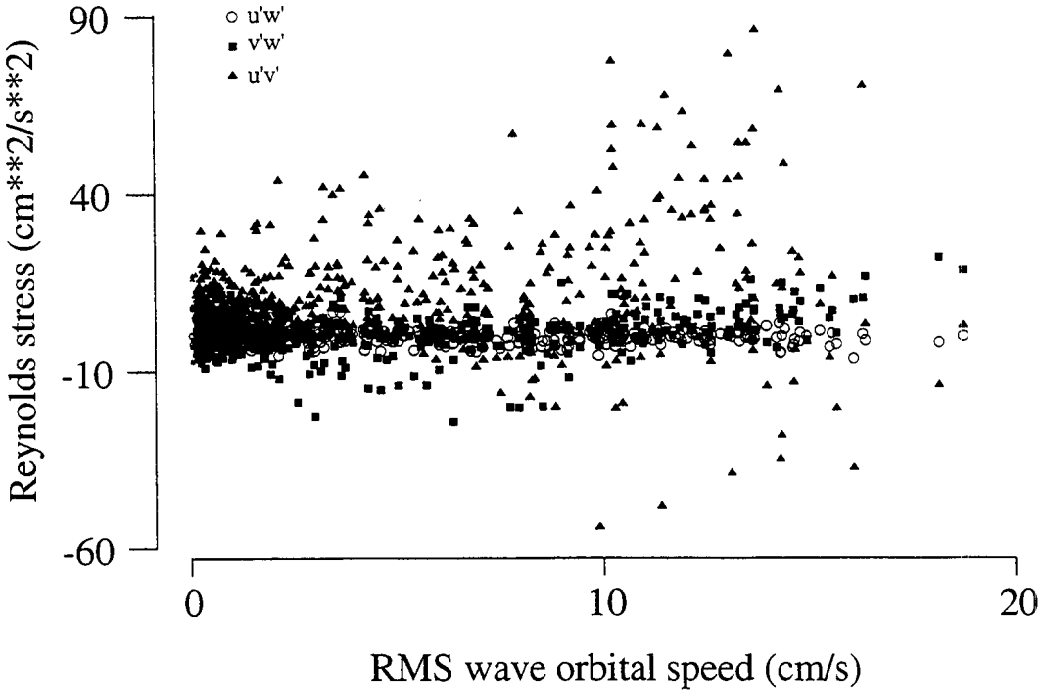


Figure 14 **Scatter plot of *burst* average RMS wave orbital speed versus *burst* average Reynolds stresses $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$.**

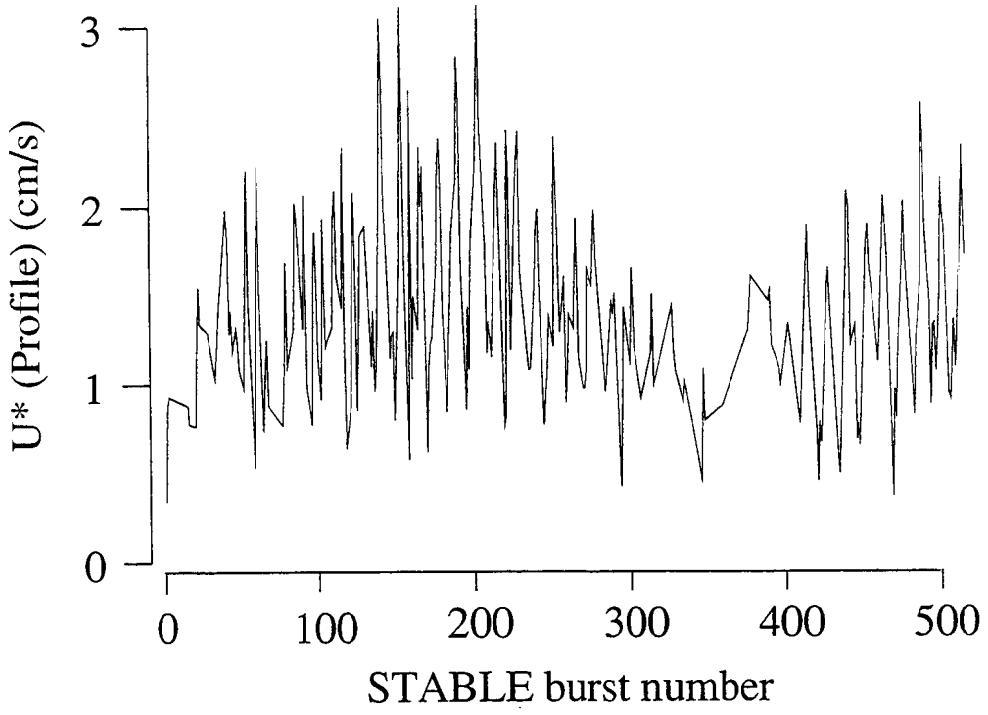


Figure 15 **Estimated *burst* average shear velocity ($\overline{U}*$) from the log profile (LP) method.**

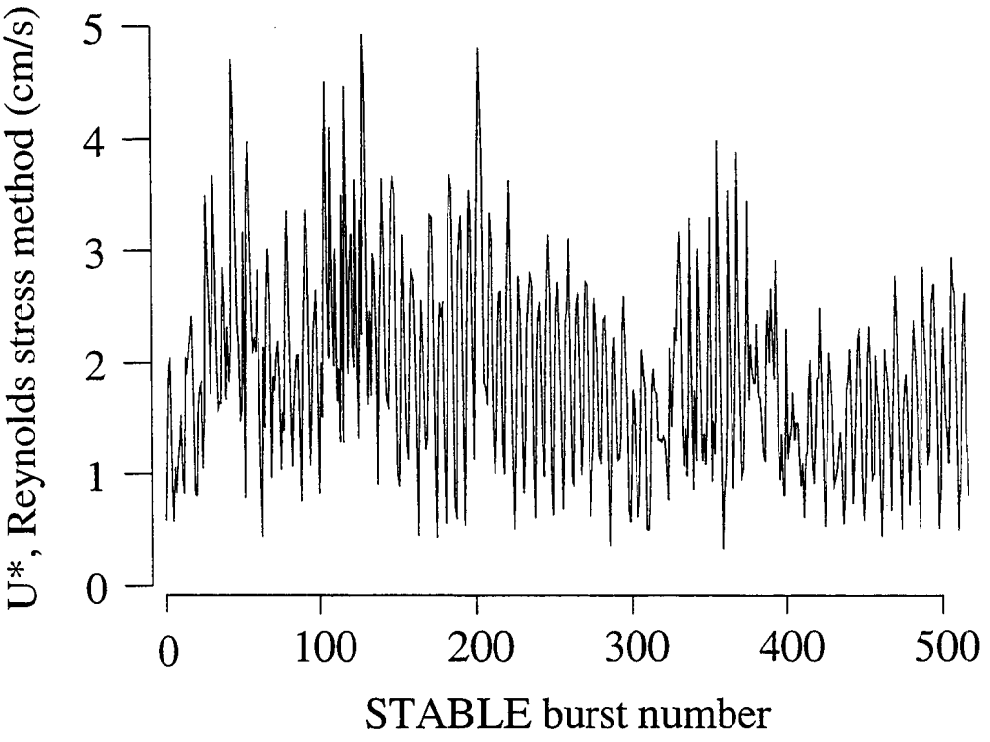


Figure 16 **Estimated *burst* average shear velocity ($\overline{U}*$) from the Reynolds stress (RS) method at z = 44 cm.**

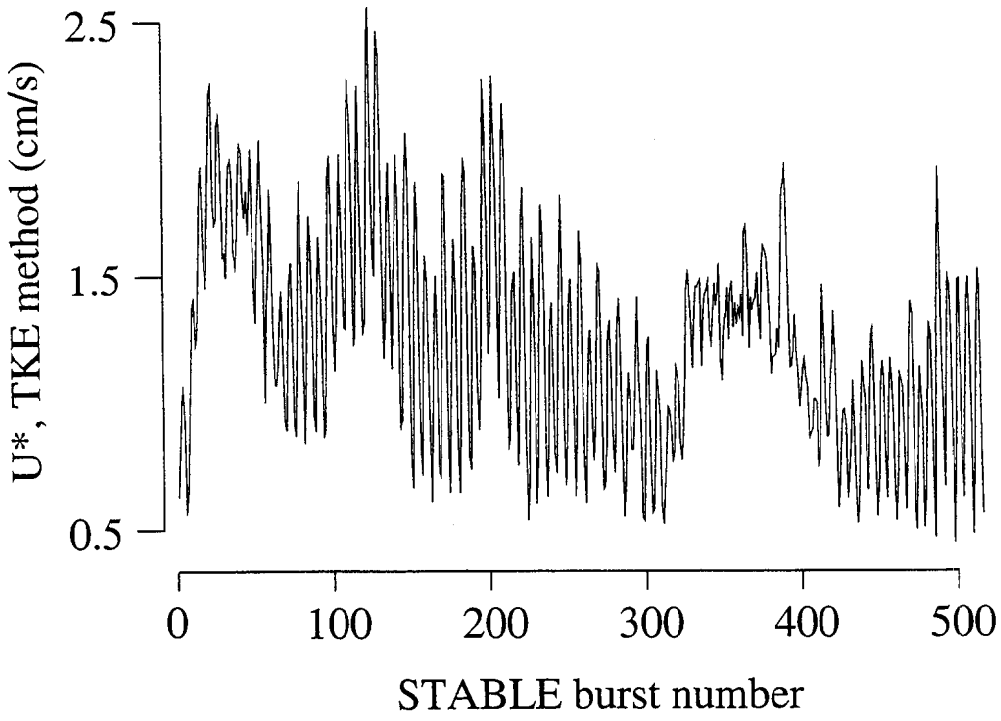


Figure 17 **Estimated *burst* average shear velocity ($\overline{U}*$) from the turbulent kinetic energy (TKE) method at z = 44 cm.**

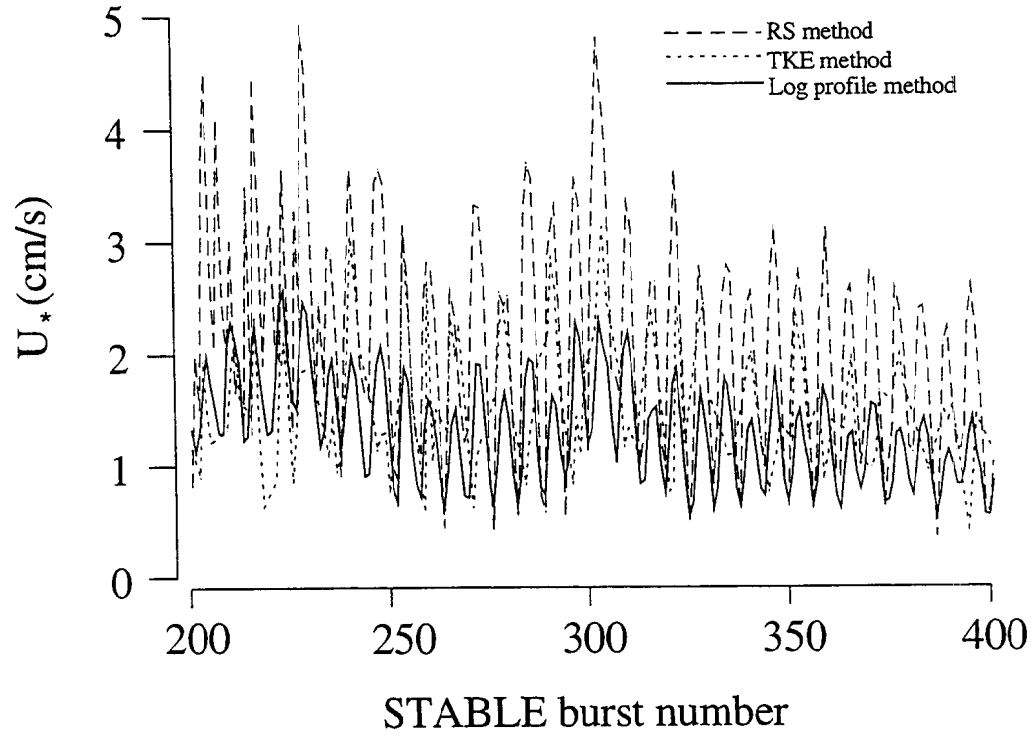


Figure 18 **Comparison between $\overline{U}*$ estimates obtained using the LP, RS and TKE methods.**

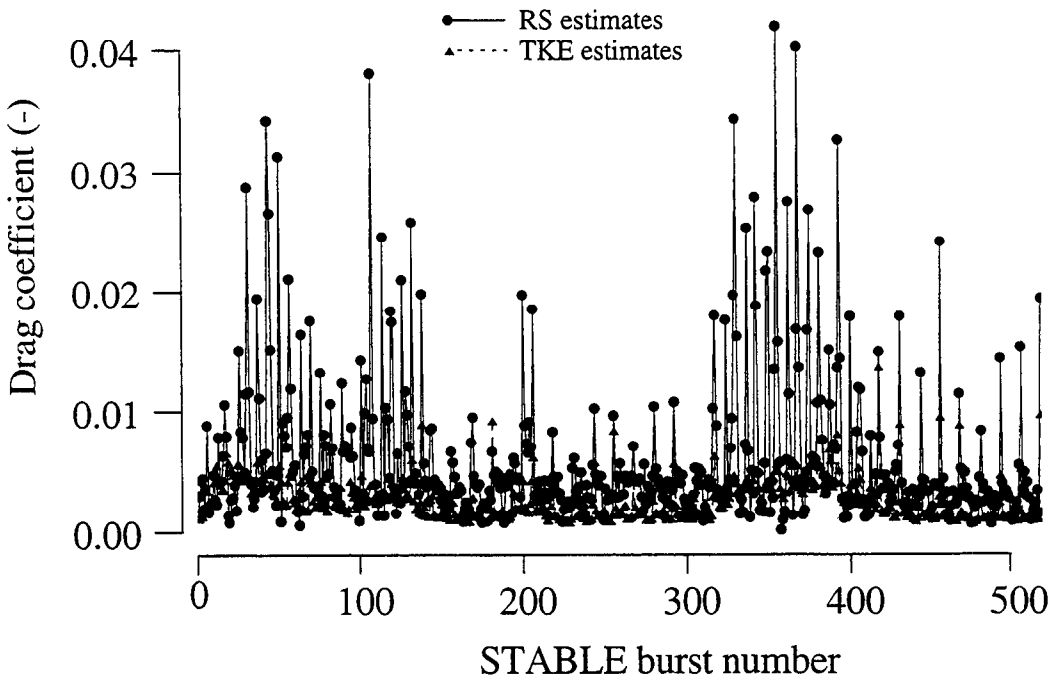


Figure 19 **Time series plots of drag coefficient values obtained from $\overline{U}*$ estimates (RS and TKE methods) at z = 44 cm.**

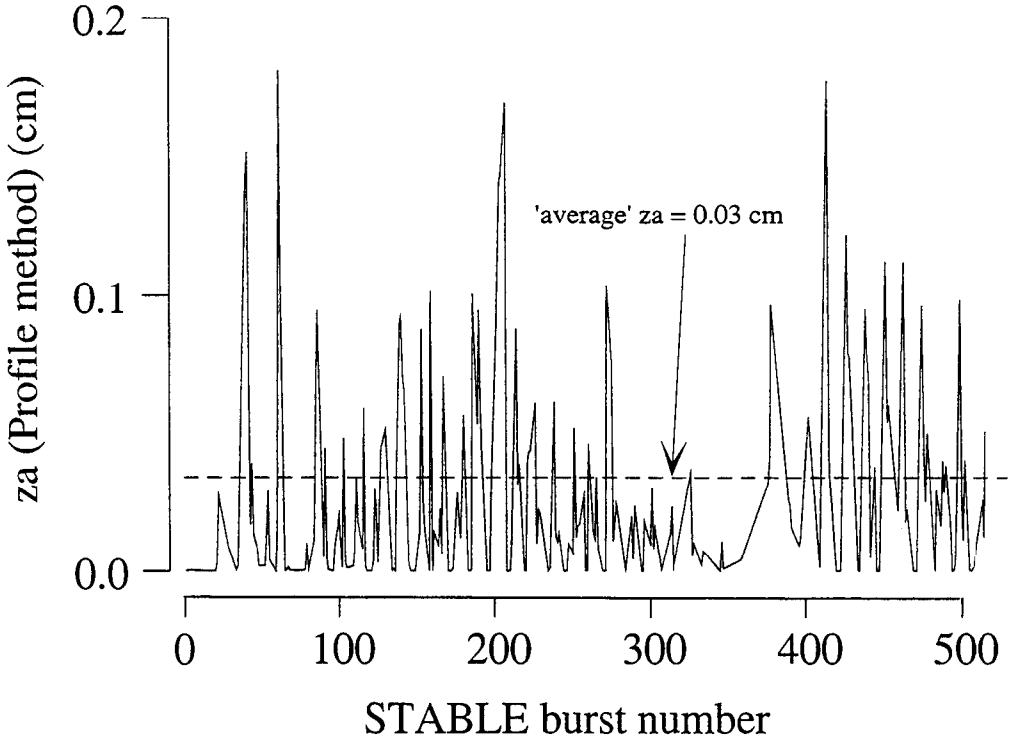


Figure 20 **Time series plot of z_a values obtained using the LP method.**

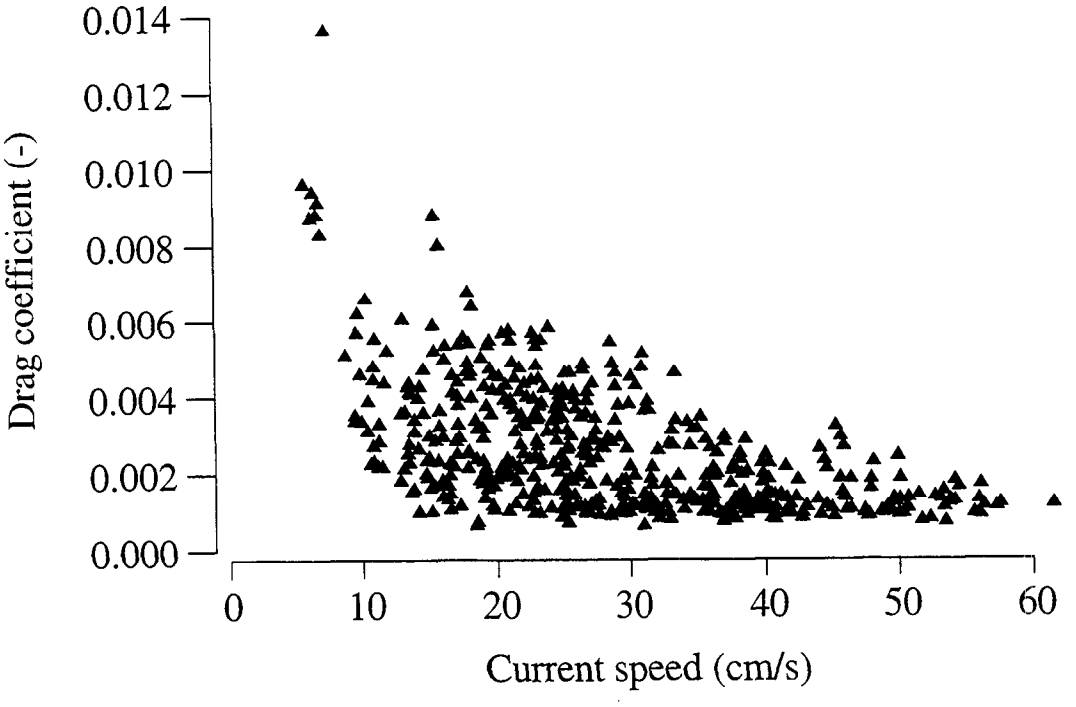


Figure 21 **Scatter plot of *burst* average drag coefficient (derived from TKE estimates of $\overline{U}_*$) versus *burst* average current speed at z = 44 cm.**

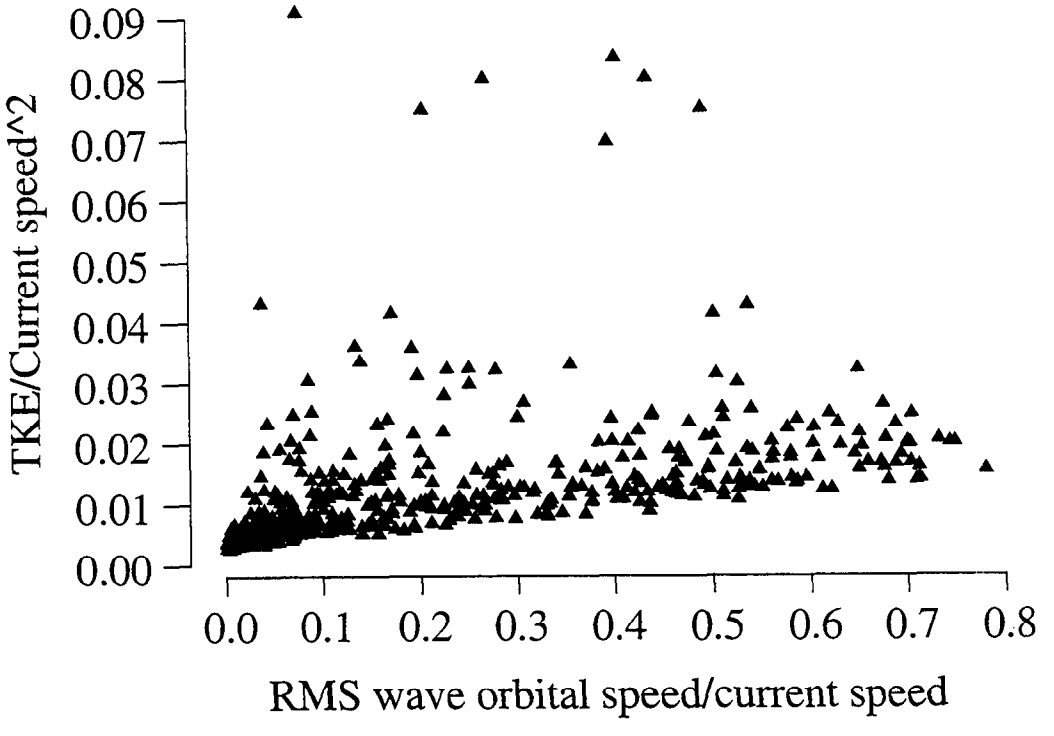


Figure 22 **Scatter plot of *burst* average (TKE/current speed^2) versus the wave:current ratio at z = 44 cm.**

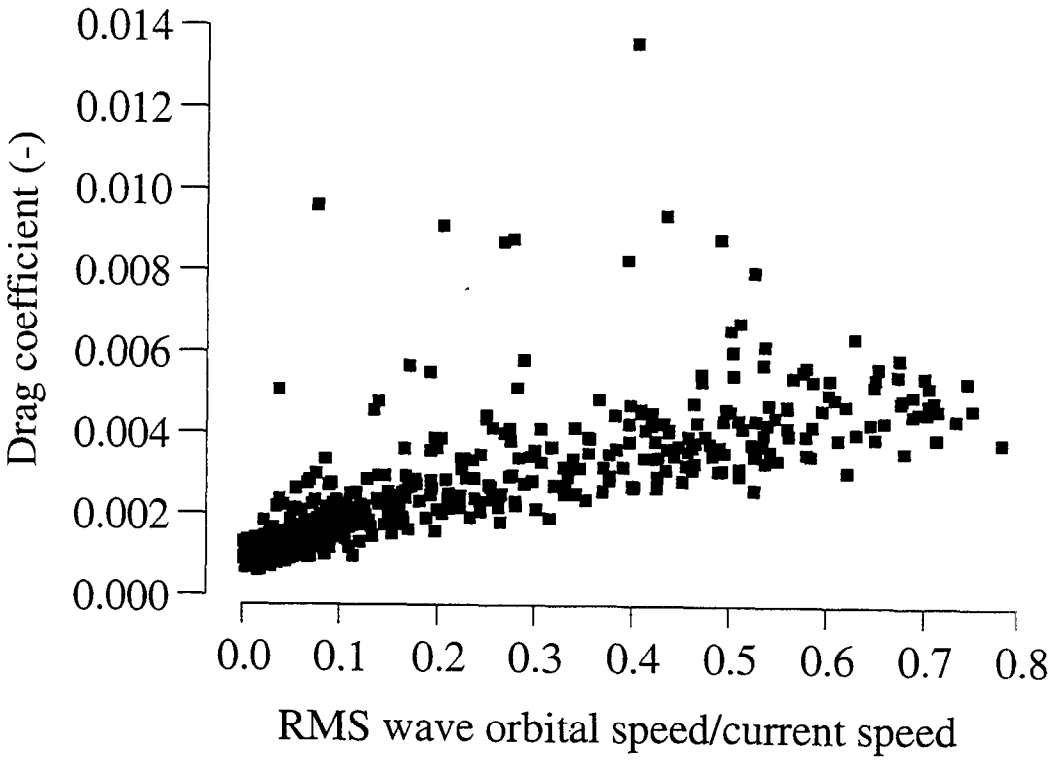


Figure 23 **Scatter plot of *burst* average drag coefficient (derived from TKE estimates of $\overline{U}*$) versus the wave:current ratio at z = 44 cm.**

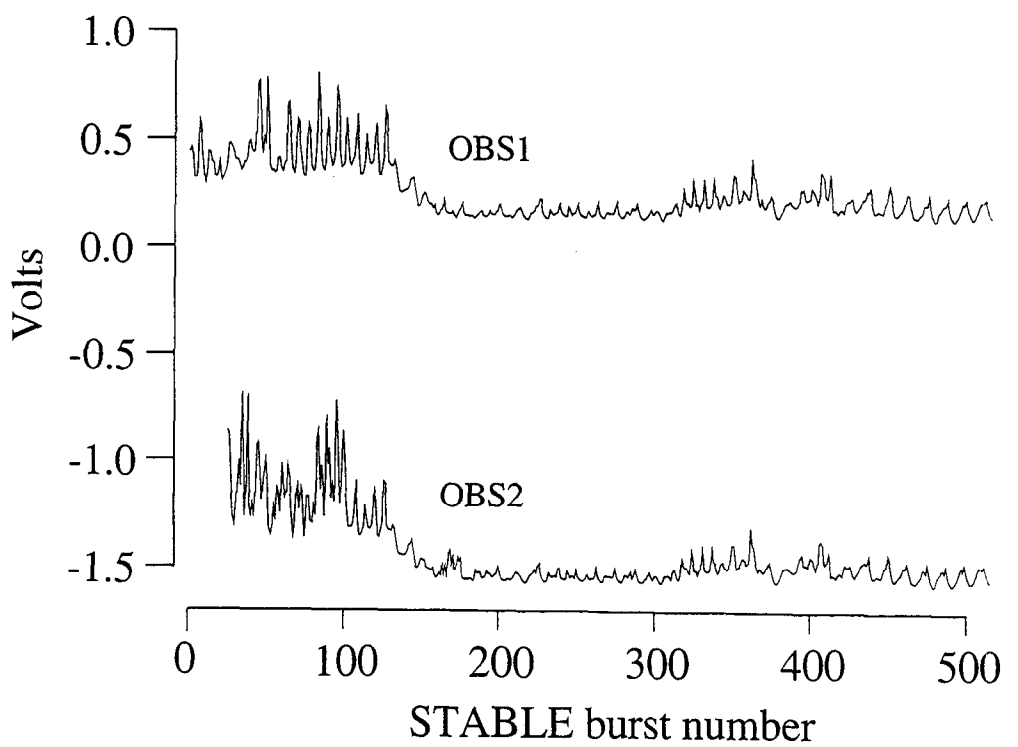


Figure 24 **Time series plot of raw output from OBS1 (z = 44 cm) and OBS2 (z = 80 cm).**

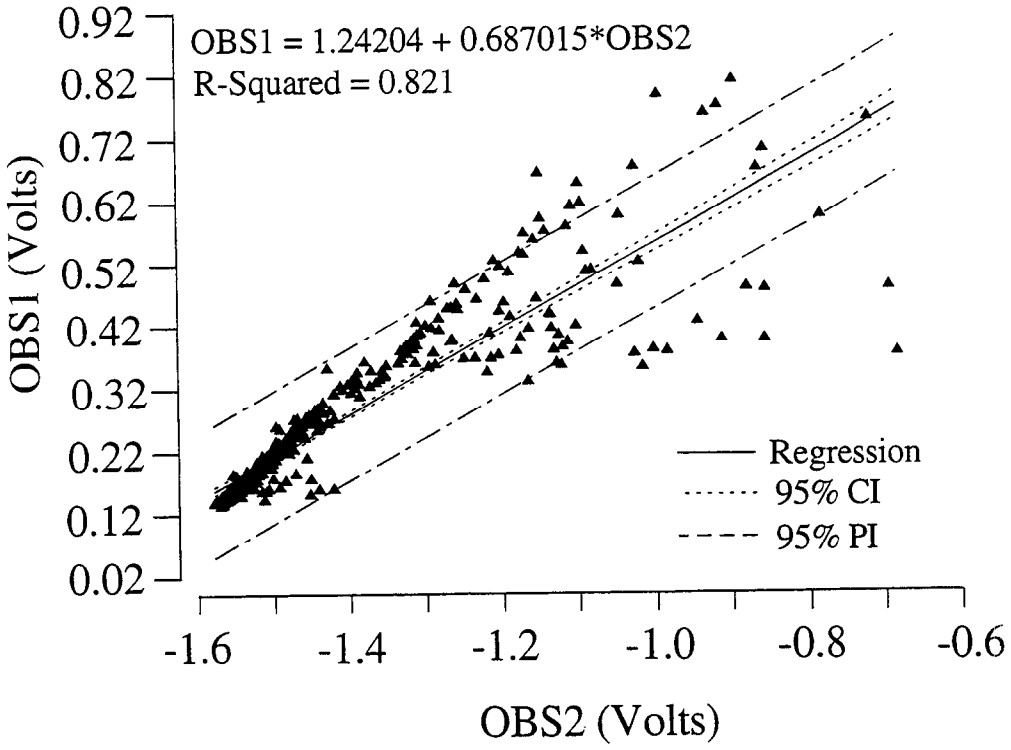


Figure 25 **Regression analysis of OBS data.**

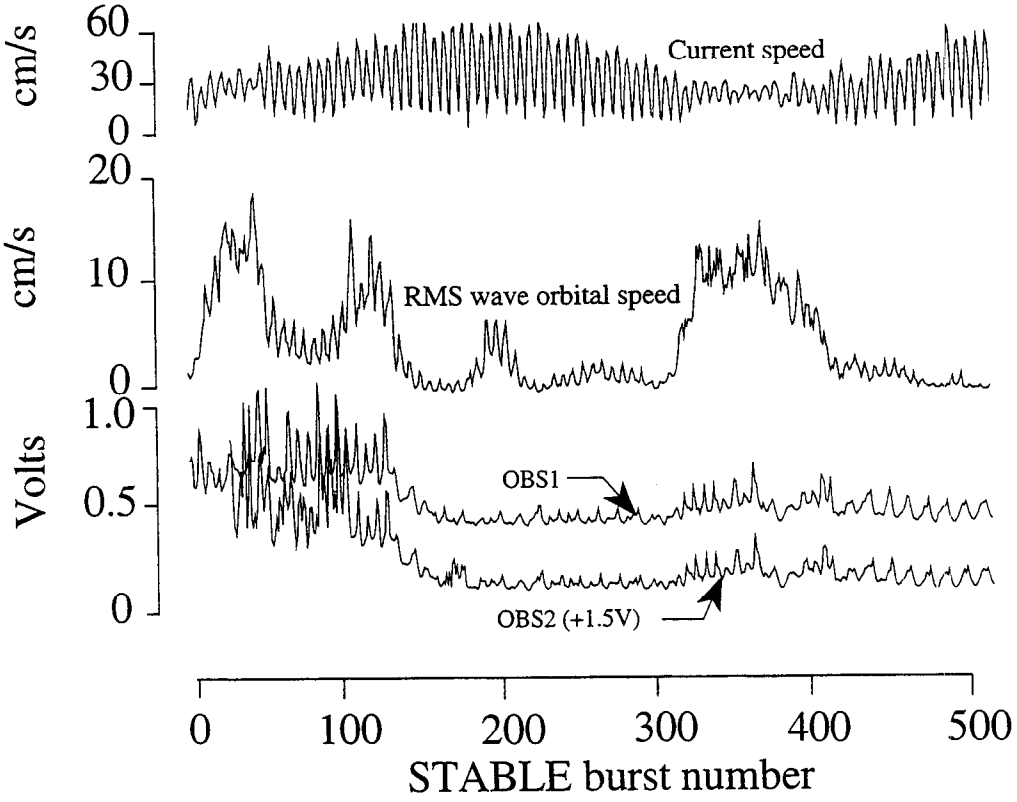


Figure 26 **Time series plots of *burst* average tidal current speed (z = 44 cm), RMS wave orbital speed (z = 44 cm) and OBS time series at z = 44 cm and 80 cm.**

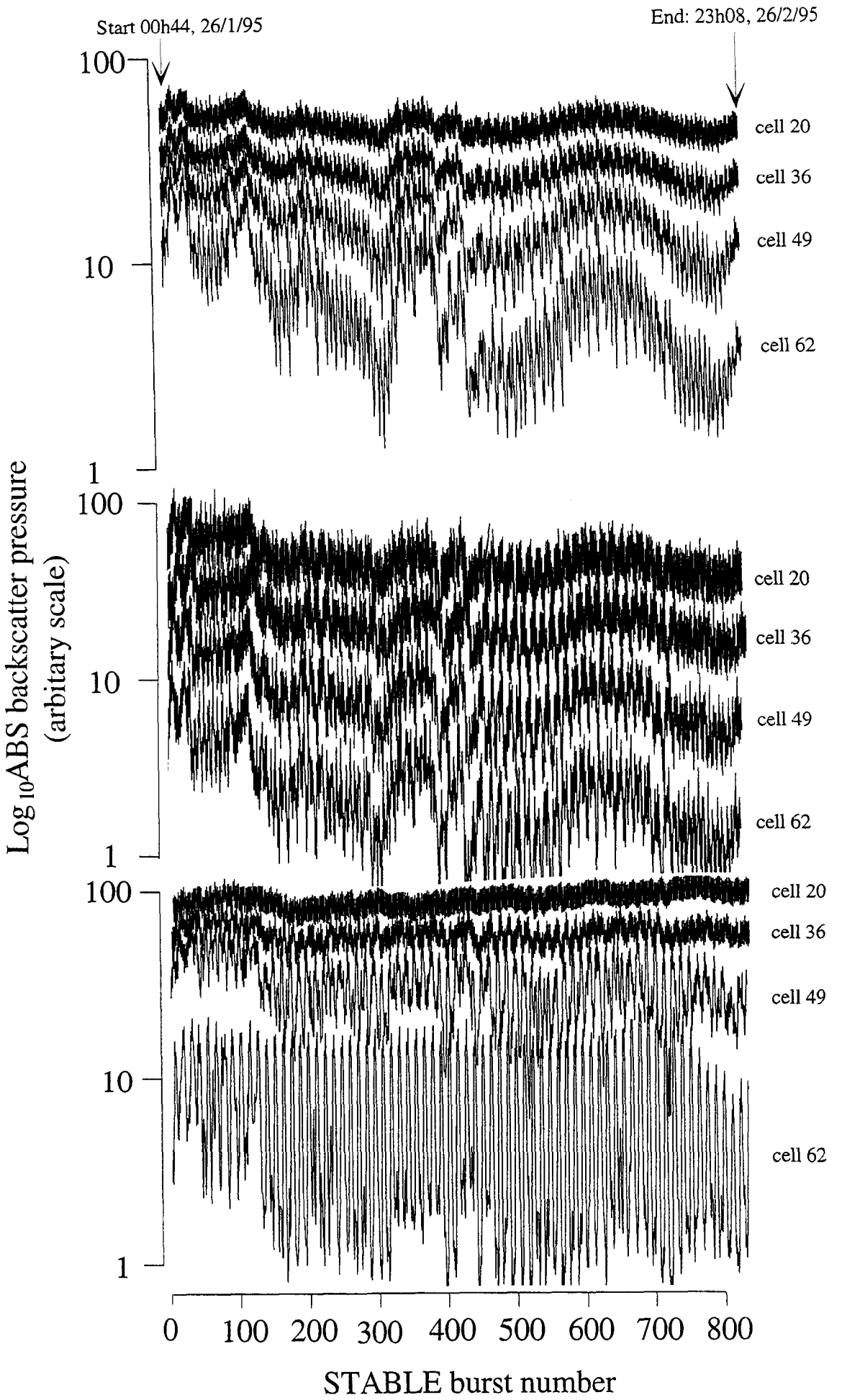


Figure 27 ***Burst* average ABS observations of suspended sediments from the: (a) 700 kHz (cells 20, 36, 49 & 62); (b) 2.0 MHz (cells 20, 36, 49 & 62); and (c) 4.0 MHz (cells 20, 36, 49 & 62).**

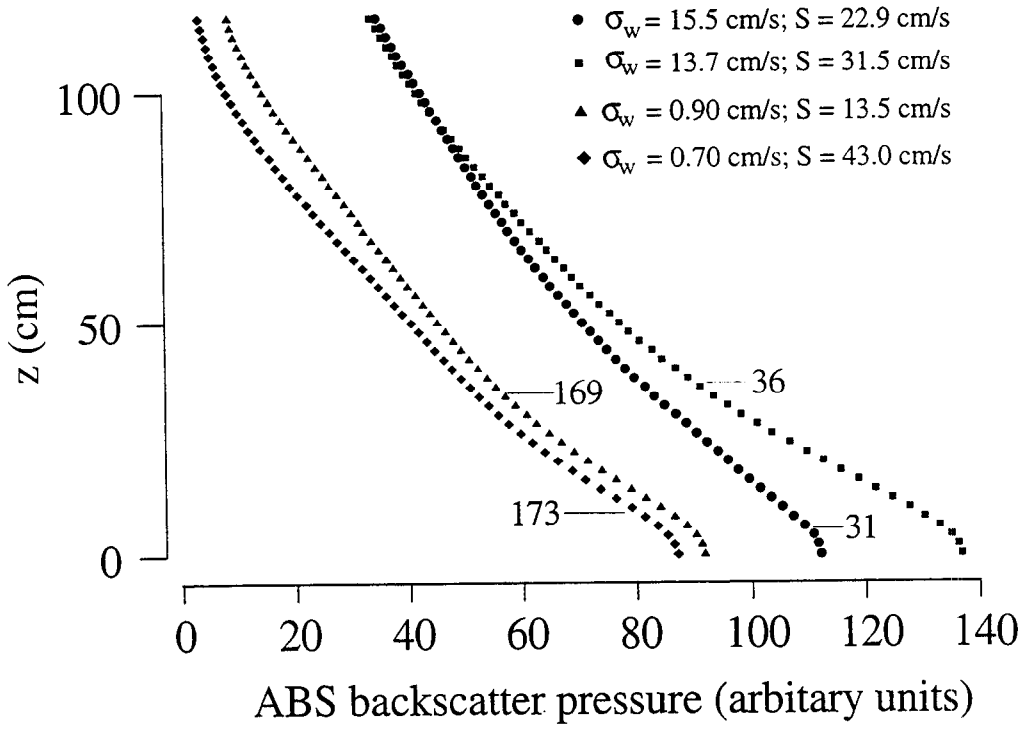


Figure 28 **Burst average ABS suspended sediment concentration profiles, *bursts* 36, 36, 169 and 173.**

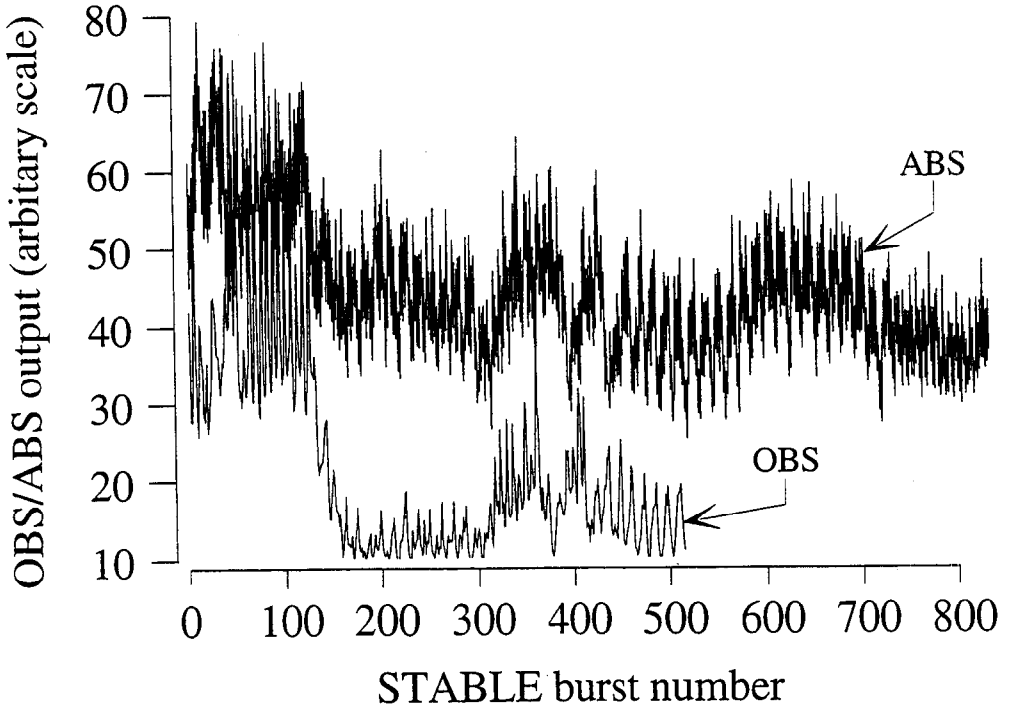


Figure 29 **Time series plots of *burst* average current speed, OBS (z = 44 cm) and ABS 2.0 MHz, measurement cell 20).**

11.0 Appendix 1 Definition of terms in the *Microsoft Excel* data base STABLE.xls

Header	Description	z	Units
Bst. No.	STABLE *burst* number	-	-
Date	Date of STABLE *burst*	-	-
Time	Time of STABLE *burst*	-	-
u	*Burst* average horizontal 'fore-aft' flow component	60.3 cm	(cm/s)
v	*Burst* average horizontal 'port-starboard' flow component	60.3 cm	(cm/s)
speed	*Burst* average current speed	60.3 cm	(cm/s)
dir	*Burst* average current direction re. STABLE	60.3 cm	(deg.)
uw	*Burst* average Reynolds stress $\overline{u'w'}$	30.5 cm	(cm^2/s^2)
vw	*Burst* average Reynolds stress $\overline{v'w'}$	30.5 cm	(cm^2/s^2)
uv	*Burst* average Reynolds stress $\overline{u'v'}$	30.5 cm	(cm^2/s^2)
Rstress	*Burst* average stress magnitude utilising the Reynolds stress method i.e. $(\overline{u'w'}^2 + \overline{v'w'}^2)^{0.5} = \tau/\rho$	30.5 cm	(cm^2/s^2)
dir-S	*Burst* average stress direction i.e. $\tan^{-1}(\overline{v'w'} / \overline{u'w'})$	30.5 cm	(deg.)
U*(R)	*Burst* average shear velocity utilising the Reynolds stress method i.e. $(\tau/\rho)^{0.5}$	30.5 cm	(cm/s)
U*TKE	*Burst* average shear velocity utilising the Reynolds stress method i.e. $0.19*(1/2(\overline{u'}_{t+w} + \overline{v'}_{t+w} + \overline{w'}_{t+w})$, waves included	30.5 cm	(cm/s)
Ustar-P	*Burst* average shear velocity, ECM log-profile method	-	(cm/s)
Z0-P	*Burst* average apparent bed roughness, ECM log-profile method	-	(cm)
u-wave	*Burst* average variance in u' time series attributable to waves	30.5 cm	(cm^2/s^2)
u-turb	*Burst* average variance in u' time series attributable to turbulence	30.5 cm	(cm^2/s^2)
v-wave	*Burst* average variance in v' time series attributable to waves	30.5 cm	(cm^2/s^2)
v-turb	*Burst* average variance in v' time series attributable to turbulence	30.5 cm	(cm^2/s^2)
w-wave	*Burst* average variance in w' time series attributable to waves	30.5 cm	(cm^2/s^2)
w-turb	*Burst* average variance in w' time seies attributable to turbulence	30.5 cm	(cm^2/s^2)
RMS-w	RMS wave orbital speed i.e. $(\overline{u'}_w^2 + \overline{v'}_w^2)^{0.5}$	60.3 cm	(cm/s)
DIR-w	*Burst* average wave direction i.e. $\tan^{-1}(\overline{v'}_w / \overline{u'}_w)$	60.3 cm	(deg.)
u/U*	*Burst* average normalised RMS turbulence intensity (u')	30.5 cm	(cm/s)
v/U*	*Burst* average normalised RMS turbulence intensity (v')	30.5 cm	(cm/s)
w/U*	*Burst* average normalised RMS turbulence intensity (w')	30.5 cm	(cm/s)
Cd-RS	*Burst* average drag coefficient from Reynolds stress shear velocity estimates i.e. U_*^2 / S_{30}^2	30.5 cm	(-)
Cd-TKE	*Burst* average drag coefficient from TKE shear velocity estimates i.e. U_*^2 / S_{30}^2	30.5 cm	(-)
Za-RS	*Burst* average apparent bed roughness from RS shear velocity estimates i.e. $z \exp\left(-k/C_z^{0.5}\right)$	30.5 cm	(cm)

11.0 Appendix 1 Definition of terms in the *Microsoft Excel* data base STABLE.xls

Header	Description	z	Units
Za-TKE	*Burst* average apparent bed roughness from TKE shear velocity estimates i.e. $z \exp\left(-k/C_z^{0.5}\right)$	30.5 cm	(cm)
RMSw/S	Ratio of RMS wave orbital speed: current speed	30.5 cm	(-)
E/S**2	Ratio of turbulent kinetic energy: current speed^2	30.5 cm	(-)
Depth	*Burst* average water depth	174.5 cm	(m)
R1	*Burst* average current speed rotor 1	39 cm	(cm/s)
R2	*Burst* average current speed rotor 2	57 cm	(cm/s)
R3	*Burst* average current speed rotor 3	75 cm	(cm/s)
R4	*Burst* average current speed rotor 4	93 cm	(cm/s)
vane	*Burst* average current direction recorded by STABLE vane	107.5 cm	(degrees)
compass	*Burst* average rig heading from onboard STABLE compass	-	
OBS-1	*Burst* average SPM concentration	30.5 cm	-
OBS-1	*Burst* average SPM concentration	60.3 cm	-

STABLE, Deployment 2, Holderness, UK

Bst. No	Date	Time	u	v	speed	dir	uw	vw	uv	Rstress	dir-S	U* (R)	U*TKE	Ustar-P	Z0-P	U* (ID)	u-wave	u-turb	v-wave	v-turb	w-wave	w-turb
5	250195	1300	6.1	-15.1	16.5	-6.6	0.14	-0.30	4.21	0.3	-65.0	0.6	0.8	*	*	0.4	0.29	1.9	2.18	3.4	0.02	1.3
6	250195	1400	15.7	-21.1	26.6	338.8	0.18	-2.11	3.66	2.1	-85.0	1.5	1.0	0.33	0.00000	0.7	0.25	2.8	1.83	4.2	0.02	1.8
7	250195	1500	21.1	-21.2	30.2	330.7	-2.05	-3.25	8.38	3.8	57.7	2.0	1.2	0.87	0.00017	1.0	0.18	3.8	1.54	4.5	0.00	2.3
8	250195	1600	22.7	-20.6	31.0	327.7	-1.37	-3.95	9.58	4.2	70.9	2.0	1.2	0.93	0.00027	1.0	0.16	4.2	1.81	4.6	0.01	2.5
9	250195	1700	17.1	-12.1	21.5	320.8	-0.64	-0.58	9.40	0.9	42.0	0.9	1.1	*	*	0.9	0.11	3.8	2.17	3.9	-0.01	1.9
10	250195	1800	7.0	1.3	9.4	275.0	-0.32	0.01	3.38	0.3	-1.9	0.6	0.9	*	*	0.5	0.34	2.0	3.33	3.2	0.01	0.6
11	250195	1900	-4.9	8.7	11.2	166.4	0.01	1.11	7.78	1.1	89.6	1.1	1.0	*	*	0.5	0.50	2.3	3.42	3.6	0.01	0.9
12	250195	2000	-15.3	12.0	20.5	143.6	0.51	0.45	13.13	0.7	41.4	0.8	1.2	*	*	0.7	0.39	3.0	3.36	4.9	0.01	1.5
13	250195	2100	-19.8	11.3	24.2	135.2	1.19	-0.59	16.38	1.3	-26.6	1.2	1.5	*	*	1.0	0.23	3.9	3.60	5.9	-0.01	2.2
14	250195	2200	-22.2	10.3	26.5	130.3	1.36	-0.88	20.96	1.6	-32.7	1.3	1.8	*	*	1.2	0.22	4.7	4.73	6.8	0.00	3.0
15	250195	2300	-18.1	5.9	22.3	123.5	0.94	-2.14	21.94	2.3	-66.4	1.5	2.0	*	*	1.4	0.49	5.4	5.99	6.5	0.02	2.8
16	260195	0	-12.7	-1.0	17.9	100.7	-0.53	-0.66	14.44	0.8	51.1	0.9	1.9	*	*	1.2	1.60	4.9	6.92	6.1	0.02	1.9
17	260195	100	-2.5	-8.0	17.2	33.1	-0.10	0.66	3.19	0.7	-81.6	0.8	2.2	*	*	1.3	2.22	5.1	10.11	6.6	0.03	1.6
18	260195	200	7.9	-16.6	23.1	339.0	-2.88	3.05	-20.13	4.2	-46.6	2.0	2.4	*	*	1.5	2.04	5.8	8.61	8.1	0.02	2.3
19	260195	300	15.0	-21.5	29.9	339.5	-3.69	-0.54	-12.62	3.7	8.4	1.9	2.6	*	*	1.8	1.23	7.1	8.18	9.1	0.04	3.3
20	260195	400	19.0	-23.4	33.5	336.4	-3.61	-2.90	-16.16	4.6	38.7	2.2	2.6	0.88	0.00005	1.9	1.14	7.5	7.41	9.6	0.03	3.2
21	260195	500	15.9	-19.4	28.9	336.1	-4.32	-2.90	-17.36	5.2	33.8	2.3	2.4	0.77	0.00004	1.7	1.97	7.0	7.97	8.0	0.00	2.6
22	260195	600	12.3	-11.8	23.6	329.5	-5.67	1.46	-54.01	5.9	-14.4	2.4	2.4	*	*	1.6	3.00	6.6	9.45	7.5	0.06	2.1
23	260195	700	1.5	-2.4	18.2	343.0	-2.46	0.90	-48.07	2.6	-20.2	1.6	2.5	*	*	1.5	3.19	6.0	10.97	7.7	0.12	1.6
24	260195	800	-8.1	5.0	22.7	137.2	-0.35	0.56	-38.80	0.7	-58.1	0.8	2.9	*	*	1.9	2.46	7.9	12.89	8.2	0.02	1.9
25	260195	900	-17.8	13.4	28.6	142.5	0.16	-0.63	-19.09	0.6	-76.1	0.8	3.0	0.76	0.00005	2.1	1.11	9.1	10.40	8.4	0.00	3.5
26	260195	1000	-20.2	13.7	31.0	139.6	1.68	1.94	-3.54	2.6	49.0	1.6	3.0	1.16	0.00319	2.2	1.53	9.0	8.62	11.4	0.00	2.9
27	260195	1100	-21.8	10.3	33.4	130.7	2.80	-1.41	-4.14	3.1	-26.8	1.8	3.6	1.55	0.02723	2.3	1.58	9.3	13.55	11.3	0.03	3.2
28	260195	1200	-18.5	5.6	29.1	122.5	2.72	-1.86	-14.06	3.3	-34.4	1.8	3.1	1.34	0.02416	1.8	2.76	7.3	13.70	9.0	0.02	2.4
29	260195	1300	-12.1	-1.0	25.1	100.6	-0.06	-1.09	-1.59	1.1	86.7	1.0	3.1	*	*	1.7	2.62	7.1	14.72	8.8	0.05	2.0
30	260195	1400	0.2	-7.9	23.3	14.3	-2.24	0.79	-20.32	2.4	-19.5	1.5	3.2	*	*	1.9	3.10	7.9	15.39	8.2	0.06	2.1
31	260195	1500	7.3	-13.0	28.5	346.3	-6.45	10.40	-37.27	12.2	-58.2	3.5	3.6	*	*	2.0	2.70	7.5	15.88	11.8	0.07	2.7
32	260195	1600	13.1	-15.7	30.9	335.6	-4.92	6.14	-34.76	7.9	-51.3	2.8	3.5	*	*	2.0	3.00	7.3	13.98	12.1	0.05	3.1
33	260195	1700	13.7	-12.2	28.9	327.2	-4.54	4.67	-28.07	6.5	-45.8	2.6	3.3	1.29	0.00884	1.9	2.69	7.6	14.08	10.4	0.05	2.6
34	260195	1800	12.6	-9.0	24.5	320.9	-2.89	0.50	-0.27	2.9	-9.8	1.7	2.7	*	*	1.5	2.73	5.7	12.30	8.6	0.01	2.3
35	260195	1900	8.2	-3.4	22.9	308.2	-3.15	5.16	-6.05	6.0	-58.6	2.5	3.1	*	*	1.6	2.29	6.5	15.35	8.3	0.05	2.0
36	260195	2000	-3.3	4.5	21.7	158.8	1.47	13.44	8.98	13.5	83.8	3.7	2.9	*	*	1.5	2.66	5.7	15.05	8.1	0.05	1.9
37	260195	2100	-12.3	12.2	27.1	150.1	3.45	7.82	69.35	8.5	66.2	2.9	3.1	*	*	1.7	1.83	6.6	14.17	9.7	0.02	2.5
38	260195	2200	-23.2	17.0	34.7	141.6	1.41	4.50	63.05	4.7	72.6	2.2	3.1	1.03	0.00030	1.8	1.63	7.0	11.86	10.6	0.04	2.8

STABLE, Deployment 2, Holderness, UK

39	260195	2300	-24.5	16.1	35.0	138.8	2.06	1.40	67.86	2.5	34.2	1.6	3.1	1.21	0.00179	1.8	1.35	6.7	11.45	10.8	0.06	3.1
40	270195	0	-20.6	8.6	31.5	128.0	2.15	1.63	86.38	2.7	37.2	1.6	3.2	1.39	0.02398	1.8	1.57	6.6	13.63	10.8	0.08	2.5
41	270195	100	-13.9	3.8	25.2	120.8	1.53	2.18	54.46	2.7	55.0	1.6	2.9	*	*	1.5	1.18	5.5	13.45	9.3	0.02	1.9
42	270195	200	-3.3	-4.8	20.4	49.9	1.12	8.02	44.77	8.1	82.0	2.8	2.8	*	*	1.3	1.53	5.0	13.24	9.3	0.05	1.9
43	270195	300	8.7	-12.8	25.0	-18.9	-3.24	6.07	23.69	6.9	-61.9	2.6	3.0	*	*	1.5	1.30	5.5	14.56	9.0	0.02	2.5
44	270195	400	15.1	-16.0	28.9	332.1	-1.25	-2.48	44.03	2.8	63.2	1.7	3.1	1.86	0.14407	1.7	0.70	6.5	12.47	10.2	0.03	3.1
45	270195	500	15.8	-15.0	30.1	328.9	-2.32	-4.84	32.87	5.4	64.4	2.3	3.2	1.99	0.15206	1.8	0.54	6.5	12.62	11.7	0.01	3.0
46	270195	600	16.5	-12.9	30.4	323.5	-0.46	-3.28	14.53	3.3	82.1	1.8	3.3	1.81	0.07539	1.8	0.56	6.6	14.20	11.4	0.05	3.0
47	270195	700	12.0	-8.0	26.4	319.0	-1.67	4.19	21.92	4.5	-68.2	2.1	3.2	1.28	0.01676	1.7	1.23	6.2	14.71	10.3	-0.02	2.5
48	270195	800	4.5	0.1	25.5	284.5	-1.90	22.13	-13.70	22.2	-85.1	4.7	3.5	1.41	0.03920	1.5	1.41	5.6	18.11	10.4	0.12	2.2
49	270195	900	-4.8	5.1	26.5	152.5	0.11	18.59	3.04	18.6	89.7	4.3	3.6	1.19	0.01297	1.6	1.34	5.7	18.72	11.2	0.03	2.4
50	270195	1000	-11.5	8.2	26.7	141.0	0.59	10.81	70.64	10.8	86.9	3.3	3.2	*	*	1.5	1.47	5.8	16.28	9.5	0.08	2.2
51	270195	1100	-21.7	12.0	33.2	134.3	2.04	5.16	48.56	5.6	68.4	2.4	3.2	1.31	0.00808	1.7	1.15	6.3	14.37	10.2	0.00	3.0
52	270195	1200	-28.1	13.7	37.0	131.5	1.23	4.50	47.38	4.7	74.7	2.2	3.0	1.24	0.00187	1.8	0.73	6.3	10.24	11.8	0.09	3.0
53	270195	1300	-24.0	7.6	32.1	123.1	0.32	2.24	44.27	2.3	81.8	1.5	2.8	1.08	0.00175	1.4	1.06	4.9	11.82	9.9	0.06	2.3
54	270195	1400	-13.2	-1.5	23.2	99.1	0.53	2.47	53.52	2.5	77.9	1.6	2.6	*	*	1.2	1.13	4.6	12.15	8.8	0.10	1.6
55	270195	1500	0.6	-8.5	17.9	11.4	-0.19	10.05	8.28	10.0	-88.9	3.2	2.4	*	*	1.2	0.85	4.5	11.62	7.3	0.03	2.0
56	270195	1600	13.3	-18.7	26.8	340.1	0.11	0.60	8.81	0.6	79.9	0.8	2.5	0.97	0.00202	1.5	0.13	5.6	8.21	9.4	0.02	3.0
57	270195	1700	20.2	-28.4	36.4	340.1	-4.05	-11.28	23.78	12.0	70.3	3.5	2.4	1.58	0.01137	1.7	0.32	6.1	5.42	9.9	0.11	3.2
58	270195	1800	28.6	-32.4	44.6	334.0	-4.35	-15.23	35.82	15.8	74.1	4.0	2.5	2.20	0.02886	2.0	1.05	7.7	4.52	10.0	0.02	3.7
59	270195	1900	24.8	-26.0	37.6	331.8	-2.66	-9.55	29.77	9.9	74.4	3.1	2.3	1.46	0.00384	1.8	2.13	7.5	5.64	8.1	0.05	2.9
60	270195	2000	15.2	-15.2	24.7	330.3	-4.30	-3.87	33.03	5.8	42.0	2.4	2.2	*	*	1.8	2.69	7.5	6.23	7.0	0.00	2.0
61	270195	2100	4.7	0.6	14.5	278.4	-4.15	1.64	-8.24	4.5	-21.6	2.1	1.8	*	*	1.0	4.33	4.1	7.90	5.4	0.04	1.1
62	270195	2200	-8.8	11.2	20.2	157.1	-0.49	4.82	14.76	4.8	-84.2	2.2	2.1	*	*	1.2	2.69	4.6	7.78	7.8	0.04	1.8
63	270195	2300	-20.8	18.4	29.7	146.9	1.47	4.14	15.87	4.4	70.5	2.1	2.0	0.52	0.00000	1.3	1.54	5.1	4.81	8.2	-0.04	2.8
64	280195	0	-29.0	22.0	38.2	142.6	1.91	7.79	16.04	8.0	76.2	2.8	2.2	1.62	0.01479	1.7	0.65	6.2	3.67	10.1	-0.02	3.2
65	280195	100	-31.5	16.7	37.4	133.5	1.65	3.21	10.75	3.6	62.8	1.9	2.0	2.22	0.18148	1.4	0.90	5.4	4.49	8.4	0.05	2.6
66	280195	200	-22.8	8.5	26.9	125.9	0.72	0.96	11.81	1.2	53.1	1.1	1.8	1.54	0.11541	1.1	1.47	4.5	5.47	6.9	-0.01	2.1
67	280195	300	-14.1	0.7	18.4	108.2	-0.15	0.11	7.38	0.2	-35.1	0.4	1.6	*	*	0.9	1.87	3.7	5.95	6.4	0.04	1.2
68	280195	400	2.2	-12.9	16.7	6.0	-1.72	4.23	-8.81	4.6	-67.8	2.1	1.7	*	*	1.0	2.16	3.8	6.56	6.0	0.07	1.4
69	280195	500	13.4	-21.1	26.2	342.9	-1.60	-1.20	0.72	2.0	36.8	1.4	1.6	0.73	0.00010	1.0	0.98	3.9	4.85	6.1	0.00	2.0
70	280195	600	20.3	-23.8	32.7	335.0	-1.33	-6.77	0.98	6.9	78.9	2.6	1.8	1.07	0.00053	1.1	1.01	4.3	4.67	7.6	0.05	2.4
71	280195	700	23.6	-25.4	35.8	332.5	-1.66	-8.93	7.37	9.1	79.5	3.0	1.8	1.25	0.00156	1.3	0.82	4.8	3.70	7.7	0.05	2.6
72	280195	800	18.9	-19.0	28.2	330.6	-1.50	-6.26	10.23	6.4	76.6	2.5	1.6	0.88	0.00023	1.0	0.70	4.0	4.51	6.6	0.05	1.9
73	280195	900	9.1	-3.5	14.3	306.5	-0.81	-0.44	-5.12	0.9	28.2	1.0	1.5	*	*	0.6	0.86	2.7	5.60	5.8	0.04	1.3

74	280195	1000	-4.9	9.2	14.1	167.4	-0.01	3.50	5.82	3.5	-89.8	1.9	1.5	*	*	0.7	0.76	2.8	6.67	5.2	0.01	1.3
75	280195	1100	-16.9	16.0	24.8	148.8	1.37	2.72	14.47	3.0	63.3	1.7	1.6	*	*	0.9	0.23	3.6	3.79	7.1	-0.03	2.1
76	280195	1200	-25.6	19.7	33.6	143.0	1.46	3.88	19.65	4.1	69.3	2.0	1.8	*	*	1.3	0.19	4.9	3.62	8.0	-0.01	2.6
77	280195	1300	-28.2	19.5	35.6	140.2	2.52	4.08	19.30	4.8	58.3	2.2	1.9	*	*	1.4	0.27	5.3	3.38	8.2	0.03	2.8
78	280195	1400	-25.6	13.2	30.4	132.7	2.03	2.83	12.69	3.5	54.3	1.9	1.7	*	*	1.2	0.19	4.6	3.60	7.3	0.01	2.2
79	280195	1500	-16.3	3.1	19.0	116.3	0.86	-0.63	8.05	1.1	-36.4	1.0	1.3	*	*	0.9	0.77	3.5	4.56	5.0	0.02	1.1
80	280195	1600	-1.9	-10.5	13.5	25.6	0.10	2.41	0.72	2.4	87.6	1.6	1.4	*	*	0.7	0.67	2.9	5.87	5.0	0.05	1.2
81	280195	1700	13.2	-20.8	25.5	343.1	0.53	-1.85	3.10	1.9	-74.1	1.4	1.5	0.76	0.00025	0.8	0.11	3.2	3.98	5.9	0.00	2.6
82	280195	1800	20.0	-25.0	33.0	336.9	-3.24	-8.11	9.06	8.7	68.2	3.0	2.0	1.06	0.00062	1.4	0.07	5.1	3.02	7.5	0.00	5.6
83	280195	1900	24.5	-30.1	39.7	336.3	-3.78	-10.65	17.55	11.3	70.4	3.4	2.2	1.69	0.01011	1.8	0.09	6.7	2.90	8.3	-0.01	4.7
84	280195	2000	22.3	-26.7	35.5	335.6	-0.83	-5.63	8.43	5.7	81.6	2.4	1.7	1.10	0.00048	1.3	0.11	4.8	2.82	6.7	0.00	3.6
85	280195	2100	17.4	-14.5	24.5	325.4	-0.65	-2.81	5.03	2.9	76.9	1.7	1.7	*	*	1.1	0.15	4.2	4.34	6.8	-0.01	2.7
86	280195	2200	3.8	2.4	10.3	253.0	-0.08	1.13	2.95	1.1	-86.0	1.1	1.3	*	*	0.7	0.50	3.0	5.15	5.1	0.00	0.7
87	280195	2300	-11.5	12.4	19.0	152.5	-0.01	2.50	9.06	2.5	-89.8	1.6	1.5	*	*	0.8	0.23	3.4	5.22	5.6	0.00	1.8
88	290195	0	-21.9	18.4	30.0	145.5	1.47	2.99	14.11	3.3	63.9	1.8	1.8	1.31	0.01153	1.2	0.14	4.4	3.77	7.6	0.02	2.8
89	290195	100	-30.6	21.2	38.7	140.2	3.11	2.91	16.44	4.3	43.1	2.1	2.1	2.02	0.06985	1.6	0.02	5.9	3.37	9.0	-0.01	3.5
90	290195	200	-30.6	17.1	36.4	134.6	2.53	3.45	17.81	4.3	53.8	2.1	1.9	1.95	0.09478	1.4	0.06	5.4	2.94	8.4	0.01	3.2
91	290195	300	-27.7	11.3	31.6	127.7	1.95	-0.31	15.08	2.0	-9.2	1.4	1.7	*	*	1.2	0.27	4.7	3.94	7.3	0.03	2.3
92	290195	400	-11.1	-3.1	15.7	89.7	0.27	0.50	6.44	0.6	61.5	0.8	1.5	*	*	0.8	0.58	3.2	6.01	5.6	0.00	1.1
93	290195	500	5.5	-17.1	19.2	-2.4	-0.51	4.49	0.76	4.5	-83.5	2.1	1.4	*	*	0.6	0.49	2.7	5.78	5.0	0.04	1.6
94	290195	600	17.9	-26.4	32.8	341.4	-1.07	-7.05	3.22	7.1	81.3	2.7	1.7	1.31	0.00488	1.2	0.20	4.4	3.71	7.2	0.01	2.6
95	290195	700	23.4	-31.0	39.8	338.5	-1.76	-11.21	12.12	11.3	81.1	3.4	2.0	2.07	0.04480	1.5	0.14	5.7	3.68	8.5	0.03	3.2
96	290195	800	24.2	-28.9	38.4	335.5	-1.74	-9.90	13.65	10.1	80.0	3.2	1.8	1.52	0.00463	1.4	0.14	5.3	3.18	7.5	0.03	2.8
97	290195	900	20.1	-19.8	29.7	330.0	-1.87	-5.73	5.04	6.0	71.9	2.5	1.7	0.97	0.00057	1.1	0.44	4.3	4.90	6.8	0.04	2.2
98	290195	1000	8.5	-3.7	13.6	309.3	-0.55	-1.00	-6.72	1.1	61.0	1.1	1.4	*	*	0.7	0.71	2.9	5.91	5.1	0.03	1.1
99	290195	1100	-7.2	9.8	15.7	159.0	-0.02	2.13	7.33	2.1	-89.5	1.5	1.6	*	*	0.6	0.59	2.7	7.13	5.2	0.01	1.4
100	290195	1200	-20.2	16.4	28.6	144.6	1.60	4.91	9.52	5.2	72.0	2.3	2.0	0.77	0.00007	1.2	0.31	4.5	5.52	8.8	0.02	2.6
101	290195	1300	-32.2	22.9	41.5	140.9	3.30	5.04	19.15	6.0	56.8	2.5	2.3	1.65	0.00784	1.7	0.15	6.2	4.54	10.6	0.04	3.4
102	290195	1400	-38.0	24.2	46.3	138.0	4.80	5.10	32.74	7.0	46.8	2.6	2.3	1.86	0.01188	1.9	0.30	7.2	3.25	10.2	0.04	3.5
103	290195	1500	-30.6	13.1	36.1	128.7	1.79	2.50	3.74	3.1	54.3	1.8	2.2	1.53	0.01559	1.4	0.35	5.2	5.82	9.5	0.04	2.8
104	290195	1600	-22.3	4.0	26.7	115.6	0.66	-0.11	6.33	0.7	-9.8	0.8	2.0	1.15	0.02017	1.1	0.36	4.1	7.12	7.8	-0.01	2.1
105	290195	1700	-4.0	-10.9	16.6	35.6	0.61	3.92	-12.13	4.0	81.2	2.0	1.9	*	*	1.0	1.07	4.0	8.26	6.4	0.00	1.5
106	290195	1800	10.3	-23.2	26.7	351.6	-0.43	2.22	6.38	2.3	-78.9	1.5	1.9	0.91	0.00128	1.1	0.58	4.0	5.94	7.1	0.03	2.7
107	290195	1900	19.3	-30.7	37.5	343.3	-0.16	-13.87	10.12	13.9	89.3	3.7	2.3	1.93	0.04839	1.4	0.30	5.1	5.72	8.9	0.07	3.9
108	290195	2000	21.8	-31.5	40.0	340.8	-2.89	-20.14	25.01	20.4	81.8	4.5	2.7	1.51	0.00348	1.7	0.32	6.0	7.72	9.8	-0.01	5.0

STABLE, Deployment 2, Holderness, UK

109	290195	2100	18.1	-23.6	33.3	338.0	-3.05	-7.07	31.69	7.7	66.6	2.8	2.7	1.21	0.00122	1.6	1.12	5.8	10.59	9.2	0.06	3.3
110	290195	2200	11.7	-12.5	24.9	332.3	-1.50	3.86	13.26	4.1	-68.7	2.0	2.8	*	*	1.3	1.85	5.0	13.20	8.7	0.07	2.2
111	290195	2300	-0.6	0.7	21.0	154.5	-1.30	16.79	3.33	16.8	-85.6	4.1	2.8	*	*	1.2	2.16	4.6	16.26	7.1	0.08	1.9
112	300195	0	-14.8	9.4	25.2	137.8	0.84	5.96	14.65	6.0	82.0	2.5	2.5	*	*	1.2	1.45	4.6	13.17	7.1	0.01	1.9
113	300195	100	-28.8	18.7	38.6	138.5	3.50	1.64	28.33	3.9	25.1	2.0	2.9	1.32	0.00184	1.9	0.52	6.8	8.83	11.4	-0.01	3.5
114	300195	200	-36.9	26.2	48.1	140.9	4.13	8.06	25.78	9.1	62.9	3.0	2.9	1.91	0.00828	2.1	0.34	7.6	6.72	12.4	-0.05	3.9
115	300195	300	-35.5	20.0	44.4	134.9	2.19	1.63	10.19	2.7	36.8	1.7	2.9	2.09	0.03416	2.0	0.67	7.3	8.05	11.4	0.05	3.8
116	300195	400	-31.9	12.6	38.1	127.1	3.04	2.26	6.40	3.8	36.6	1.9	2.7	1.60	0.01844	1.8	0.81	7.1	8.01	9.8	0.04	3.1
117	300195	500	-15.9	-3.6	23.0	92.6	0.39	1.59	-2.41	1.6	76.2	1.3	2.2	*	*	1.1	1.46	4.2	10.29	7.0	0.08	1.6
118	300195	600	4.8	-17.4	22.3	0.2	-3.07	11.84	-20.51	12.2	-75.4	3.5	2.2	*	*	1.1	1.83	4.2	10.14	7.0	0.10	2.1
119	300195	700	15.7	-27.1	34.3	345.4	-1.28	-1.02	5.07	1.6	38.5	1.3	2.7	1.43	0.00810	1.7	0.55	6.0	8.10	11.0	0.06	3.8
120	300195	800	24.5	-33.1	44.0	338.9	-1.67	-19.91	25.84	20.0	85.2	4.5	3.1	2.33	0.05934	2.1	0.62	7.4	8.51	12.1	0.09	4.2
121	300195	900	20.2	-25.9	35.9	337.5	-3.00	-11.65	15.45	12.0	75.6	3.5	2.7	1.30	0.00144	1.7	1.23	6.3	9.09	9.8	0.07	3.3
122	300195	1000	16.2	-17.8	28.3	333.1	-1.49	-3.26	0.65	3.6	65.4	1.9	2.4	0.63	0.00000	1.4	1.56	5.3	9.31	8.5	0.09	2.3
123	300195	1100	6.1	-1.9	20.5	302.6	-2.67	7.27	-13.01	7.7	-69.9	2.8	2.7	*	*	1.2	2.70	4.8	14.38	7.0	0.06	1.7
124	300195	1200	-10.1	9.7	23.8	149.3	1.05	9.87	17.64	9.9	83.9	3.2	2.7	*	*	1.1	1.90	4.3	14.68	7.7	0.04	1.9
125	300195	1300	-24.1	16.2	34.5	139.3	0.93	4.19	39.37	4.3	77.5	2.1	2.9	0.87	0.00004	1.6	1.15	5.9	11.35	10.1	0.06	2.8
126	300195	1400	-38.0	27.1	49.9	141.0	3.62	1.23	56.90	3.8	18.7	2.0	3.2	1.81	0.00378	2.3	0.05	8.3	7.82	13.4	0.13	4.0
127	300195	1500	-34.6	20.4	45.3	135.9	5.99	11.81	77.57	13.2	63.1	3.6	3.5	2.08	0.02970	2.4	0.43	8.5	10.21	14.2	0.06	4.2
128	300195	1600	-29.1	10.4	37.0	125.2	1.91	4.50	32.78	4.9	67.0	2.2	3.0	1.62	0.02450	1.7	1.00	6.2	10.97	11.3	0.00	3.1
129	300195	1700	-17.2	-1.3	26.6	101.1	0.69	1.58	34.09	1.7	66.3	1.3	2.7	0.85	0.00297	1.4	1.38	5.1	12.10	9.9	0.11	1.7
130	300195	1800	4.3	-14.8	22.6	-0.8	-1.58	10.62	-0.60	10.7	-81.6	3.3	2.7	*	*	1.3	1.41	5.1	12.28	8.6	0.08	2.1
131	300195	1900	18.2	-26.0	35.3	340.5	-1.23	-4.90	17.70	5.1	76.0	2.2	2.9	1.83	0.04469	1.8	0.21	6.4	8.64	11.5	0.04	3.8
132	300195	2000	25.3	-35.1	45.7	339.7	-2.21	-24.23	20.35	24.3	84.8	4.9	3.1	*	*	2.2	0.03	7.7	6.37	13.7	0.00	4.6
133	300195	2100	25.6	-34.9	45.8	339.2	-2.18	-20.31	34.96	20.4	83.9	4.5	3.1	*	*	2.2	0.59	7.7	7.92	12.9	0.09	4.4
134	300195	2200	19.8	-25.7	35.6	337.9	-3.06	-8.44	23.52	9.0	70.1	3.0	2.7	1.89	0.05141	1.7	0.83	6.5	8.44	10.5	0.04	3.1
135	300195	2300	14.0	-13.8	24.8	329.9	-1.40	-2.20	-5.70	2.6	57.5	1.6	2.4	*	*	1.4	0.58	5.3	8.79	8.5	-0.01	2.4
136	310195	0	0.5	4.0	15.3	201.9	-0.59	6.02	-7.11	6.0	-84.4	2.5	2.2	*	*	1.1	0.94	4.3	10.28	6.4	0.03	1.6
137	310195	100	-16.0	16.0	26.4	150.5	0.90	2.76	19.05	2.9	71.8	1.7	2.1	*	*	1.1	0.92	4.1	8.67	7.7	0.04	2.0
138	310195	200	-30.5	27.7	42.4	147.6	3.38	8.01	20.35	8.7	67.1	2.9	2.1	1.10	0.00004	1.6	0.72	5.9	3.52	9.6	0.02	3.4
139	310195	300	-34.4	28.2	45.6	144.8	4.07	7.32	22.06	8.4	60.9	2.9	2.2	1.41	0.00072	1.8	0.38	6.8	2.28	10.1	-0.01	3.6
140	310195	400	-33.1	20.9	40.2	137.7	1.21	4.83	19.63	5.0	76.0	2.2	1.8	0.96	0.00003	1.5	1.01	5.8	2.90	7.7	0.04	2.9
141	310195	500	-19.9	7.1	23.3	125.0	0.05	-0.81	32.85	0.8	-86.6	0.9	1.6	1.08	0.03682	1.2	2.89	4.7	4.76	5.5	0.02	1.7
142	310195	600	-2.1	-10.3	15.4	341.1	-3.98	-2.45	45.23	4.7	31.7	2.2	1.8	*	*	1.9	1.32	8.4	4.06	4.6	0.02	2.2
143	310195	700	19.0	-32.2	38.2	345.0	-3.27	-7.62	41.97	8.3	66.8	2.9	2.0	2.11	0.08989	1.9	1.25	8.2	3.02	6.2	0.03	3.4

144	310195	800	28.1	-47.9	56.0	345.0	-5.54	-12.09	43.84	13.3	65.4	3.6	2.2	3.05	0.09263	2.0	0.98	8.1	1.91	8.4	0.04	4.4
145	310195	900	25.7	-41.9	49.6	343.9	-3.51	-8.42	31.67	9.1	67.4	3.0	1.9	2.65	0.06979	1.8	0.98	7.4	1.30	7.6	0.03	3.8
146	310195	1000	22.5	-29.8	37.8	338.3	-0.92	-3.48	12.73	3.6	75.2	1.9	1.4	2.05	0.06602	1.4	1.08	5.9	1.05	5.0	0.04	2.8
147	310195	1100	11.0	-12.6	17.9	334.4	-2.30	-1.43	6.21	2.7	31.9	1.6	1.0	*	*	1.2	2.63	4.7	1.42	3.3	0.02	1.5
148	310195	1200	-8.7	13.3	17.2	162.2	-2.03	1.56	3.57	2.6	-37.5	1.6	1.0	*	*	1.1	2.62	4.6	1.21	3.8	0.03	1.4
149	310195	1300	-27.6	29.6	41.2	152.5	1.46	6.61	6.83	6.8	77.6	2.6	1.6	1.46	0.00270	1.6	2.03	6.7	0.49	6.3	0.08	2.8
150	310195	1400	-38.8	36.5	53.9	148.7	3.62	11.86	14.29	12.4	73.0	3.5	1.9	1.14	0.00000	1.9	0.91	7.6	0.36	8.3	0.02	4.1
151	310195	1500	-46.5	39.4	61.6	145.8	5.42	12.10	14.35	13.3	65.9	3.6	2.1	1.27	0.00000	2.0	0.43	8.1	0.21	9.2	-0.02	4.5
152	310195	1600	-45.0	33.1	56.4	141.8	6.30	10.59	13.54	12.3	59.3	3.5	1.9	1.29	0.00003	1.9	0.59	7.4	0.15	8.5	0.02	3.7
153	310195	1700	-32.8	19.4	38.5	136.0	1.95	3.46	6.56	4.0	60.7	2.0	1.3	0.79	0.00001	1.4	0.83	5.5	0.35	5.5	0.00	2.5
154	310195	1800	-15.2	5.2	16.6	124.4	-0.41	0.89	2.86	1.0	-65.1	1.0	0.9	*	*	0.9	1.83	3.4	0.86	3.5	0.03	1.3
155	310195	1900	5.6	-14.1	15.9	353.8	-0.71	-0.31	0.55	0.8	23.8	0.9	0.7	*	*	0.9	1.43	3.4	0.75	2.1	-0.01	1.5
156	310195	2000	22.4	-34.1	41.6	342.1	-0.67	-2.90	9.24	3.0	77.0	1.7	1.5	1.73	0.01463	1.8	0.21	8.2	0.47	4.8	0.00	2.8
157	310195	2100	31.4	-47.3	57.3	341.9	-3.97	-9.04	17.69	9.9	66.3	3.1	1.9	3.11	0.08799	2.0	0.14	8.4	0.31	7.3	-0.01	4.0
158	310195	2200	31.8	-42.4	53.4	338.6	-3.51	-6.27	18.40	7.2	60.7	2.7	1.8	2.44	0.02568	1.9	0.32	7.8	0.22	6.7	0.03	3.8
159	310195	2300	22.2	-29.0	36.8	338.0	-1.11	-2.27	5.87	2.5	64.0	1.6	1.1	1.60	0.01468	1.2	0.71	4.6	0.38	4.2	0.01	2.8
160	10295	0	11.3	-9.4	15.0	325.1	-1.24	-0.84	10.55	1.5	34.1	1.2	0.9	*	*	1.0	1.02	3.8	0.52	3.5	0.01	1.4
161	10295	100	-6.8	12.5	14.8	166.9	-0.24	1.23	2.86	1.3	-79.2	1.1	0.8	*	*	0.9	0.99	3.3	0.52	2.9	0.04	1.3
162	10295	200	-26.1	24.3	36.1	148.4	1.98	5.51	10.56	5.9	70.2	2.4	1.4	0.57	0.00000	1.3	0.29	5.0	0.29	6.1	0.04	2.8
163	10295	300	-38.5	29.9	49.1	143.4	4.81	6.28	14.04	7.9	52.6	2.8	1.6	2.65	0.10151	1.6	0.13	6.4	0.17	7.1	-0.06	3.2
164	10295	400	-39.5	28.1	48.8	140.9	4.07	6.32	11.48	7.5	57.2	2.7	1.5	1.02	0.00001	1.4	0.19	5.5	0.18	6.8	0.02	3.2
165	10295	500	-34.2	16.7	38.4	131.4	3.09	4.53	6.15	5.5	55.7	2.3	1.2	1.49	0.01425	1.2	0.22	4.9	0.17	5.4	-0.01	2.6
166	10295	600	-22.1	3.3	22.8	114.1	1.49	0.98	7.05	1.8	33.2	1.3	0.9	*	*	1.0	0.63	3.8	0.64	3.9	-0.01	1.5
167	10295	700	-2.0	-14.3	15.1	23.5	-0.15	-0.10	2.18	0.2	33.9	0.4	0.7	*	*	0.8	1.16	3.0	0.63	2.3	0.02	1.0
168	10295	800	15.0	-29.3	33.1	348.4	-0.14	-2.09	3.53	2.1	86.1	1.4	0.9	1.30	0.00945	0.9	0.39	3.6	0.28	3.6	0.01	2.4
169	10295	900	27.8	-43.3	51.7	342.8	-2.10	-6.18	10.11	6.5	71.2	2.6	1.4	2.33	0.02259	1.3	0.31	5.2	0.21	5.8	0.02	3.4
170	10295	1000	28.9	-40.8	50.4	340.2	-1.54	-5.22	11.92	5.4	73.5	2.3	1.5	2.00	0.00643	1.5	0.24	5.8	0.16	6.8	0.01	3.2
171	10295	1100	26.4	-30.8	40.8	334.9	-1.17	-2.40	5.57	2.7	64.0	1.6	1.1	2.22	0.07086	1.1	0.34	4.6	0.20	4.7	-0.02	2.4
172	10295	1200	10.5	-9.1	14.2	326.4	-1.24	-0.81	6.00	1.5	33.1	1.2	0.8	*	*	0.8	0.50	3.0	0.61	3.3	0.01	1.3
173	10295	1300	-6.2	11.6	13.5	167.3	-0.01	1.73	2.60	1.7	-89.5	1.3	0.8	*	*	0.6	0.39	2.7	0.82	3.3	0.04	1.4
174	10295	1400	-26.3	24.4	36.2	148.3	2.04	5.65	7.64	6.0	70.1	2.5	1.3	0.61	0.00000	1.1	0.11	4.2	0.60	6.0	0.02	2.8
175	10295	1500	-41.0	33.0	53.2	144.3	7.70	7.91	17.03	11.0	45.8	3.3	1.9	1.08	0.00000	1.9	0.01	7.6	-0.05	8.7	0.02	3.8
176	10295	1600	-42.5	32.8	54.2	143.2	6.04	9.06	16.09	10.9	56.3	3.3	1.9	1.23	0.00002	1.8	0.23	6.7	-0.11	9.5	0.04	3.8
177	10295	1700	-37.6	20.1	43.1	133.5	4.59	5.69	13.96	7.3	51.1	2.7	1.5	1.25	0.00106	1.5	0.10	5.9	0.70	6.3	0.07	2.8
178	10295	1800	-24.1	5.4	25.2	118.2	1.18	0.24	3.93	1.2	11.5	1.1	1.0	*	*	0.8	0.19	3.2	1.00	4.3	-0.01	1.7

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179	10295	1900	-2.8	-14.0	14.8	26.9	0.16	-0.07	5.13	0.2	-24.9	0.4	0.7	*	*	0.9	0.51	3.2	1.04	2.7	0.01	0.9
180	10295	2000	17.7	-32.2	36.9	346.6	-0.50	-3.21	4.26	3.2	81.1	1.8	1.0	1.67	0.02820	0.9	0.17	3.6	0.45	4.2	0.01	2.6
181	10295	2100	27.7	-44.2	52.4	343.4	-0.89	-6.36	9.49	6.4	82.1	2.5	1.5	2.27	0.01783	1.4	0.04	5.5	0.19	6.2	0.03	3.5
182	10295	2200	31.0	-46.5	56.1	341.8	-0.93	-5.81	20.18	5.9	80.9	2.4	1.7	2.38	0.01198	1.6	0.05	6.3	0.27	7.3	0.01	3.6
183	10295	2300	24.2	-35.4	43.1	341.1	-2.05	-5.94	18.64	6.3	70.9	2.5	1.4	2.08	0.03372	1.3	0.16	5.2	0.27	6.7	0.00	2.9
184	20295	0	16.8	-20.9	27.0	336.7	-0.76	-1.79	7.00	1.9	67.0	1.4	1.0	1.42	0.05683	0.9	0.07	3.6	0.92	4.1	0.03	1.7
185	20295	100	4.2	1.7	6.7	263.4	-0.24	0.18	6.97	0.3	-37.6	0.5	0.8	*	*	0.5	0.29	2.2	1.34	3.7	0.01	0.8
186	20295	200	-15.8	16.4	23.1	151.6	0.85	2.32	9.41	2.5	69.8	1.6	1.1	*	*	0.9	0.17	3.5	1.30	4.4	-0.02	1.9
187	20295	300	-33.3	30.5	45.8	147.9	5.22	9.12	31.27	10.5	60.2	3.2	1.9	0.84	0.00000	1.7	0.23	6.5	1.94	8.5	0.04	3.6
188	20295	400	-45.0	35.1	57.6	143.4	6.52	11.91	28.90	13.6	61.3	3.7	2.0	1.26	0.00001	1.9	-0.06	7.5	0.75	9.0	-0.03	4.1
189	20295	500	-42.2	28.2	51.5	139.2	7.03	10.61	29.65	12.7	56.5	3.6	2.1	1.47	0.00050	1.8	0.35	7.1	1.56	9.4	0.00	3.6
190	20295	600	-34.2	13.3	37.4	126.7	2.58	4.43	20.33	5.1	59.8	2.3	1.5	1.85	0.10057	1.2	0.26	4.6	2.23	6.1	0.05	2.4
191	20295	700	-17.3	-3.0	18.9	95.6	0.43	-0.27	10.57	0.5	-32.3	0.7	1.1	*	*	0.8	0.80	3.2	3.04	4.0	0.01	1.1
192	20295	800	4.3	-20.8	21.4	3.8	0.07	0.34	6.39	0.3	78.3	0.6	1.0	*	*	0.6	0.42	2.6	2.31	3.7	0.01	1.4
193	20295	900	20.1	-37.5	42.8	347.3	-1.40	-7.88	11.46	8.0	79.9	2.8	1.5	2.15	0.05319	1.2	0.04	4.8	1.99	5.8	0.03	3.0
194	20295	1000	25.8	-43.2	50.7	344.6	-3.98	-8.76	17.75	9.6	65.6	3.1	1.8	2.83	0.09476	1.6	0.20	6.3	1.44	7.2	0.06	3.5
195	20295	1100	27.1	-40.8	49.4	341.8	-1.92	-10.80	16.77	11.0	79.9	3.3	1.7	2.56	0.05577	1.4	0.19	5.6	1.93	7.2	-0.01	3.4
196	20295	1200	19.8	-25.4	32.7	337.5	-1.39	-4.91	11.55	5.1	74.2	2.3	1.4	1.64	0.04025	1.0	0.37	4.0	2.92	5.5	0.03	2.2
197	20295	1300	6.8	-5.5	13.5	324.6	-0.19	-0.21	16.38	0.3	48.0	0.5	1.5	*	*	0.7	0.83	2.9	6.82	5.2	0.02	1.3
198	20295	1400	-11.3	10.6	18.6	148.7	0.70	1.99	31.57	2.1	70.7	1.5	1.7	*	*	1.0	1.04	3.8	6.79	5.7	0.08	1.5
199	20295	1500	-27.2	21.8	36.2	144.2	2.83	6.89	31.67	7.4	67.7	2.7	2.0	0.85	0.00001	1.4	0.64	5.2	4.32	8.4	-0.06	3.0
200	20295	1600	-42.7	31.0	54.2	141.4	6.52	10.73	41.41	12.6	58.7	3.5	2.6	1.43	0.00011	2.1	0.40	7.5	3.66	12.2	0.07	4.2
201	20295	1700	-40.9	26.4	50.1	138.3	6.63	9.01	39.76	11.2	53.6	3.3	2.5	1.08	0.00001	2.0	0.47	7.3	3.46	11.2	-0.04	3.9
202	20295	1800	-35.3	15.0	40.2	128.4	2.79	3.70	34.03	4.6	53.0	2.2	2.1	1.77	0.03510	1.5	0.53	5.5	4.35	9.5	0.09	3.0
203	20295	1900	-23.0	-0.5	26.2	104.2	1.04	-0.71	18.63	1.3	-34.1	1.1	1.8	*	*	1.0	0.64	4.1	6.39	6.6	0.00	1.8
204	20295	2000	1.1	-17.5	20.3	12.0	-0.86	8.06	0.16	8.1	-83.9	2.8	2.0	*	*	1.1	0.80	4.0	6.86	7.9	0.04	1.8
205	20295	2100	19.5	-33.6	39.8	345.4	-1.65	-13.96	19.48	14.1	83.3	3.7	2.2	2.20	0.08581	1.5	0.15	5.5	5.05	9.6	0.00	3.5
206	20295	2200	27.4	-48.1	56.2	345.8	-4.38	-22.71	27.47	23.1	79.1	4.8	2.6	*	*	2.2	0.13	8.0	3.05	11.3	0.03	4.8
207	20295	2300	26.9	-45.1	53.4	344.7	-0.90	-18.72	4.60	18.7	87.2	4.3	2.3	3.12	0.14070	2.0	0.10	7.5	2.61	10.1	0.02	4.2
208	30295	0	20.5	-33.5	40.3	343.9	-1.25	-14.78	21.25	14.8	85.2	3.9	2.3	2.47	0.14373	1.8	0.21	6.8	4.34	9.9	0.11	3.2
209	30295	100	11.7	-15.1	21.7	337.8	-1.31	-3.04	2.85	3.3	66.8	1.8	1.9	*	*	1.3	0.20	5.1	5.59	7.3	0.01	2.3
210	30295	200	-3.8	5.6	13.0	160.9	0.05	3.15	1.37	3.2	89.1	1.8	1.6	*	*	0.8	1.05	3.4	6.49	6.0	0.02	1.2
211	30295	300	-20.8	17.1	29.2	144.9	1.73	1.95	10.45	2.6	48.4	1.6	2.0	1.79	0.16974	1.3	0.45	4.6	4.23	9.3	0.04	2.7
212	30295	400	-36.3	29.4	47.9	144.4	2.94	5.10	19.68	5.9	60.0	2.4	2.3	1.17	0.00004	1.8	-0.10	6.5	2.41	11.1	0.12	3.8
213	30295	500	-43.9	30.6	54.5	140.3	5.66	9.60	30.74	11.1	59.5	3.3	2.3	1.33	0.00005	2.0	0.07	7.3	1.56	11.5	-0.05	4.1

214	30295	600	-40.6	23.1	47.9	135.1	5.28	7.95	16.83	9.5	56.4	3.1	2.1	1.25	0.00018	1.7	0.23	6.5	2.15	9.9	0.07	3.5
215	30295	700	-28.7	10.0	31.7	124.7	2.26	1.22	10.01	2.6	28.3	1.6	1.5	1.15	0.00889	1.1	0.52	4.4	2.60	7.0	0.01	2.2
216	30295	800	-15.5	-1.6	17.8	99.4	0.45	-0.87	3.82	1.0	-62.8	1.0	1.2	*	*	0.6	0.82	2.5	3.69	5.0	0.01	1.2
217	30295	900	5.7	-18.6	20.0	358.4	-0.66	-1.57	3.60	1.7	67.2	1.3	1.1	*	*	0.9	0.24	3.6	2.59	3.9	0.03	1.5
218	30295	1000	17.9	-35.1	39.9	348.4	-0.97	-5.04	8.46	5.1	79.1	2.3	1.5	2.11	0.08812	1.5	0.09	6.2	1.22	5.8	0.03	2.8
219	30295	1100	26.8	-41.7	50.0	342.7	-1.45	-6.73	7.31	6.9	77.9	2.6	1.5	2.36	0.03134	1.5	0.10	6.0	0.62	6.3	0.00	3.2
220	30295	1200	23.1	-33.1	40.7	340.6	-2.80	-6.34	21.11	6.9	66.2	2.6	1.6	2.03	0.03893	1.6	0.17	6.4	0.59	6.7	-0.02	2.9
221	30295	1300	14.4	-15.8	21.8	333.0	-1.03	-1.06	10.30	1.5	45.8	1.2	1.1	*	*	1.0	0.24	4.1	1.34	4.8	0.02	1.6
222	30295	1400	-4.0	9.2	10.8	171.6	-0.21	0.95	4.69	1.0	-77.4	1.0	0.9	*	*	0.7	0.37	2.9	1.46	3.8	0.02	1.2
223	30295	1500	-25.1	23.0	34.4	147.9	1.19	4.53	7.82	4.7	75.3	2.2	1.3	0.76	0.00000	1.2	0.09	4.7	0.91	5.9	0.03	2.5
224	30295	1600	-39.9	29.0	49.8	141.5	3.03	7.88	14.02	8.4	69.0	2.9	1.8	0.81	0.00000	1.7	-0.02	6.8	0.53	7.7	-0.02	3.6
225	30295	1700	-44.5	29.6	53.9	139.1	7.44	10.86	24.47	13.2	55.6	3.6	1.9	2.43	0.04042	1.8	0.07	7.1	0.35	8.7	-0.04	3.7
226	30295	1800	-40.8	23.2	47.4	135.1	3.81	6.00	13.31	7.1	57.6	2.7	1.5	2.15	0.04325	1.4	0.15	5.3	0.40	6.9	0.05	3.0
227	30295	1900	-27.3	6.8	28.5	119.4	1.31	1.75	3.24	2.2	53.3	1.5	0.9	1.19	0.04365	0.8	0.09	3.3	0.50	4.2	-0.01	1.8
228	30295	2000	-13.2	-9.3	16.5	70.1	0.22	-0.10	2.42	0.2	-25.2	0.5	0.6	*	*	0.6	0.68	2.4	0.88	2.6	0.01	0.7
229	30295	2100	7.0	-24.2	25.4	359.4	-0.06	-1.17	1.49	1.2	87.1	1.1	0.7	*	*	0.6	0.31	2.5	0.31	2.9	0.02	1.6
230	30295	2200	18.7	-35.9	40.8	348.0	-1.04	-3.95	6.36	4.1	75.3	2.0	1.2	2.07	0.06131	1.2	0.10	4.7	0.05	5.0	0.01	3.1
231	30295	2300	29.1	-47.2	55.7	343.8	-2.44	-7.28	16.06	7.7	71.5	2.8	1.7	2.27	0.00996	1.7	-0.02	6.6	0.05	6.8	-0.03	4.0
232	40295	0	29.1	-44.7	53.6	342.4	-1.64	-5.52	9.76	5.8	73.4	2.4	1.4	2.42	0.02230	1.3	0.00	5.2	0.19	6.2	0.02	3.2
233	40295	100	20.8	-28.7	35.6	339.6	-1.65	-2.20	9.13	2.8	53.2	1.7	1.1	1.63	0.02104	1.2	0.02	4.6	0.23	4.7	0.01	2.3
234	40295	200	7.0	-8.4	11.3	335.6	-0.51	-0.44	2.97	0.7	40.6	0.8	0.7	*	*	0.5	0.18	2.2	0.76	3.1	0.01	1.0
235	40295	300	-12.0	11.3	16.8	148.8	0.10	1.71	5.23	1.7	86.8	1.3	0.8	*	*	0.8	0.19	3.1	0.57	3.7	0.00	1.5
236	40295	400	-30.4	23.5	38.9	143.2	2.23	4.51	8.57	5.0	63.6	2.2	1.4	*	*	1.2	-0.13	4.8	0.34	6.7	0.01	2.7
237	40295	500	-39.6	29.7	50.1	142.3	3.39	5.68	17.03	6.6	59.1	2.6	1.8	*	*	1.6	0.07	6.2	0.39	9.1	0.03	3.5
238	40295	600	-38.5	24.0	45.9	137.4	5.75	5.17	15.51	7.7	41.9	2.8	1.8	1.08	0.00004	1.7	-0.08	6.8	0.58	7.8	0.06	3.3
239	40295	700	-34.9	15.1	38.6	128.9	4.91	5.47	13.00	7.3	48.1	2.7	1.5	1.09	0.00099	1.4	-0.12	5.7	0.67	6.2	-0.01	2.8
240	40295	800	-23.5	0.7	24.1	107.1	1.03	0.55	1.22	1.2	28.1	1.1	0.9	*	*	0.7	0.21	2.8	1.36	4.1	0.00	1.4
241	40295	900	-3.6	-14.6	15.4	29.3	0.21	-0.28	-0.23	0.3	-52.5	0.6	0.8	*	*	0.6	0.56	2.4	1.60	3.2	0.01	1.0
242	40295	1000	13.1	-29.2	32.2	351.4	-0.52	-3.97	3.03	4.0	82.6	2.0	1.0	1.61	0.06191	0.8	0.12	3.2	0.89	4.2	0.01	2.2
243	40295	1100	21.7	-39.2	45.1	346.5	-1.42	-5.64	7.11	5.8	75.9	2.4	1.4	1.88	0.01281	1.3	-0.08	5.2	0.55	5.7	0.04	2.9
244	40295	1200	25.8	-39.9	47.8	342.5	-1.85	-6.18	11.74	6.4	73.3	2.5	1.5	1.99	0.01053	1.3	-0.05	5.3	0.78	6.3	0.02	3.1
245	40295	1300	20.1	-28.9	35.5	340.7	-1.41	-3.17	7.15	3.5	66.1	1.9	1.2	1.57	0.01369	1.1	0.10	4.3	0.64	5.0	0.01	2.3
246	40295	1400	9.7	-12.8	16.5	338.2	-0.93	-1.16	5.84	1.5	51.3	1.2	0.9	*	*	0.7	0.20	2.8	1.58	4.1	0.01	1.3
247	40295	1500	-5.8	6.1	9.6	151.9	-0.22	0.91	4.10	0.9	-76.4	1.0	0.9	*	*	0.7	0.27	2.7	1.61	3.7	0.03	1.1
248	40295	1600	-23.0	16.6	29.0	141.2	1.62	3.64	6.70	4.0	66.0	2.0	1.3	0.76	0.00008	1.0	0.01	3.9	0.94	6.1	0.04	2.3

STABLE, Deployment 2, Holderness, UK

249	40295	1700	-35.7	24.7	43.9	140.2	5.37	5.63	12.56	7.8	46.4	2.8	1.6	0.96	0.00001	1.5	0.12	5.9	0.58	7.5	0.00	3.1
250	40295	1800	-42.8	26.0	50.7	136.7	7.17	6.79	18.10	9.9	43.4	3.1	1.9	1.05	0.00001	1.9	-0.13	7.5	0.79	8.2	0.02	3.4
251	40295	1900	-34.7	14.1	38.2	127.6	4.18	5.21	15.13	6.7	51.3	2.6	1.5	1.38	0.00985	1.3	0.19	4.9	1.55	6.8	0.04	2.7
252	40295	2000	-25.5	1.0	26.2	107.7	0.73	-0.17	4.11	0.7	-13.0	0.9	1.0	*	*	0.8	0.20	3.1	1.66	4.5	0.02	1.5
253	40295	2100	-5.8	-14.7	16.4	36.9	0.08	0.37	2.13	0.4	77.6	0.6	0.9	*	*	0.7	0.56	2.9	2.09	3.2	0.02	1.0
254	40295	2200	12.7	-29.4	32.2	352.0	-0.27	-3.66	3.68	3.7	85.8	1.9	1.0	1.21	0.00657	0.8	0.13	3.3	1.18	4.3	0.03	2.0
255	40295	2300	22.5	-41.7	47.7	347.1	-1.69	-5.85	11.71	6.1	73.9	2.5	1.4	2.39	0.05189	1.3	0.17	5.2	0.76	6.1	0.00	3.1
256	50295	0	25.3	-42.8	50.0	344.9	-1.49	-7.24	18.22	7.4	78.4	2.7	1.6	2.10	0.01230	1.5	0.04	6.0	0.65	6.5	0.03	3.2
257	50295	100	23.1	-35.7	42.7	342.5	-1.60	-4.92	8.60	5.2	72.0	2.3	1.3	1.87	0.01638	1.1	0.10	4.3	0.76	5.6	0.03	2.8
258	50295	200	15.7	-22.4	27.7	340.5	-0.92	-2.16	9.32	2.3	66.8	1.5	1.1	1.29	0.01687	0.9	0.09	3.7	1.54	4.8	0.01	2.0
259	50295	300	2.6	-3.0	6.9	334.2	-0.29	0.36	3.27	0.5	-51.4	0.7	0.9	*	*	0.4	0.28	2.0	2.70	3.7	-0.01	0.8
260	50295	400	-15.3	10.2	19.1	139.1	0.37	0.98	7.92	1.0	69.3	1.0	1.0	*	*	0.7	0.27	2.8	2.05	4.4	0.01	1.5
261	50295	500	-28.7	18.0	34.5	137.5	2.49	4.91	15.72	5.5	63.1	2.3	1.5	1.61	0.02729	1.2	0.19	4.8	1.62	6.3	0.08	2.5
262	50295	600	-37.9	24.9	46.0	138.8	3.97	4.70	15.80	6.2	49.8	2.5	1.8	0.89	0.00000	1.6	0.00	6.1	0.94	8.2	0.00	3.4
263	50295	700	-31.8	25.3	41.2	143.9	6.02	7.55	18.91	9.7	51.5	3.1	1.7	1.08	0.00013	1.5	0.07	5.9	1.32	7.3	0.00	3.1
264	50295	800	-25.4	13.7	29.6	133.9	2.44	3.04	8.35	3.9	51.3	2.0	1.3	1.39	0.04613	0.9	0.20	3.6	1.71	5.7	0.01	2.2
265	50295	900	-15.2	2.2	16.5	113.8	0.84	0.15	6.79	0.9	10.3	0.9	1.0	*	*	0.7	0.38	2.7	2.44	3.9	0.03	1.1
266	50295	1000	4.3	-11.9	13.1	-4.3	-0.12	0.78	2.37	0.8	-81.1	0.9	0.8	*	*	0.4	0.32	1.9	2.60	3.4	0.03	1.0
267	50295	1100	18.1	-23.1	29.7	337.3	-0.50	-3.54	3.60	3.6	82.0	1.9	1.1	1.31	0.01433	0.8	0.12	3.3	1.82	4.5	-0.01	2.0
268	50295	1200	24.6	-30.3	39.4	336.4	-1.38	-6.14	7.61	6.3	77.3	2.5	1.4	1.70	0.01184	1.1	0.11	4.5	1.75	5.9	0.04	2.6
269	50295	1300	26.0	-28.8	39.1	333.3	-2.07	-6.38	16.38	6.7	72.1	2.6	1.5	1.93	0.03415	1.2	0.12	4.7	1.81	6.1	0.01	2.7
270	50295	1400	20.6	-16.6	27.1	324.3	-1.12	-3.17	4.12	3.4	70.5	1.8	1.1	1.15	0.00831	0.8	0.22	3.3	2.04	4.6	0.02	1.8
271	50295	1500	8.6	3.9	11.6	261.2	-0.53	0.80	8.51	1.0	-56.6	1.0	1.0	*	*	0.8	0.41	3.2	2.89	4.0	0.01	0.9
272	50295	1600	-9.6	18.2	21.0	167.6	0.19	1.87	6.52	1.9	84.3	1.4	1.1	*	*	0.8	0.35	3.4	2.19	4.6	0.05	1.7
273	50295	1700	-23.9	24.7	34.8	151.4	1.58	4.98	10.22	5.2	72.4	2.3	1.4	0.97	0.00011	1.1	0.16	4.3	1.24	6.4	0.00	2.5
274	50295	1800	-31.2	27.8	42.3	147.2	4.29	6.02	12.75	7.4	54.5	2.7	1.7	0.97	0.00001	1.4	0.02	5.6	1.25	7.4	0.03	3.2
275	50295	1900	-31.3	24.8	40.5	143.8	4.22	5.86	14.02	7.2	54.2	2.7	1.6	1.07	0.00014	1.5	0.16	5.9	1.07	7.0	0.00	3.0
276	50295	2000	-27.1	15.0	31.6	134.5	2.24	1.80	8.93	2.9	38.7	1.7	1.3	1.65	0.10342	1.1	0.26	4.4	1.32	5.6	0.02	2.1
277	50295	2100	-13.6	-0.3	14.7	104.3	0.35	0.14	1.35	0.4	22.0	0.6	0.9	*	*	0.5	0.32	2.3	2.32	3.6	-0.02	1.1
278	50295	2200	3.0	-12.5	13.4	2.2	0.30	0.95	3.54	1.0	72.4	1.0	0.9	*	*	0.6	0.35	2.6	2.16	3.3	0.02	1.2
279	50295	2300	16.0	-22.2	27.7	339.6	0.02	-1.72	1.29	1.7	-89.4	1.3	1.0	1.55	0.07611	0.7	0.19	3.0	1.35	3.8	0.01	1.9
280	60295	0	26.9	-31.8	42.0	335.3	-1.47	-6.46	7.99	6.6	77.2	2.6	1.4	1.79	0.01086	1.1	0.07	4.4	1.00	6.0	0.03	2.9
281	60295	100	28.5	-33.3	44.1	334.9	-1.06	-5.61	8.42	5.7	79.3	2.4	1.4	1.98	0.01629	1.3	0.07	4.9	1.02	5.9	0.02	2.9
282	60295	200	26.6	-23.5	35.8	326.9	-2.02	-3.66	6.75	4.2	61.1	2.0	1.2	1.69	0.02413	1.1	0.04	4.3	0.86	5.1	-0.02	2.5
283	60295	300	14.1	-8.1	17.0	315.4	-0.73	-1.12	9.37	1.3	56.9	1.2	1.0	*	*	0.9	0.37	3.5	1.85	4.3	0.03	1.2

STABLE, Deployment 2, Holderness, UK

284	60295	400	0.9	9.7	10.8	200.8	-0.34	1.17	2.95	1.2	-73.6	1.1	1.0	*	*	0.6	0.24	2.5	2.70	4.1	0.02	1.0
285	60295	500	-14.4	19.6	24.7	159.3	1.07	2.99	5.99	3.2	70.2	1.8	1.1	*	*	0.8	0.16	3.3	1.68	5.0	-0.02	1.9
286	60295	600	-25.7	24.3	35.8	148.9	2.75	4.95	9.91	5.7	60.9	2.4	1.4	*	*	1.2	0.13	4.7	1.02	6.3	0.03	2.7
287	60295	700	-29.0	23.9	38.0	144.9	3.86	4.32	8.70	5.8	48.2	2.4	1.5	*	*	1.3	0.08	5.2	0.83	6.7	-0.03	2.9
288	60295	800	-27.1	18.3	33.2	139.5	2.70	2.94	9.83	4.0	47.4	2.0	1.3	0.95	0.00045	1.2	0.04	4.6	0.93	6.1	0.03	2.3
289	60295	900	-17.8	6.4	19.8	125.1	0.54	1.01	6.37	1.1	61.8	1.1	1.0	*	*	0.6	0.17	2.6	1.84	4.5	0.01	1.3
290	60295	1000	-5.6	-6.2	9.4	57.6	0.00	-0.12	-0.45	0.1	-89.9	0.3	0.7	*	*	0.4	0.23	1.8	2.14	3.3	0.00	0.6
291	60295	1100	12.2	-19.5	23.2	-16.7	-0.11	-1.44	0.55	1.4	85.5	1.2	0.9	*	*	0.5	0.07	2.2	1.58	3.8	0.01	1.5
292	60295	1200	20.2	-24.9	32.3	336.4	-0.70	-4.27	3.37	4.3	80.6	2.1	1.1	1.47	0.01993	0.9	0.03	3.6	1.05	4.7	0.01	2.2
293	60295	1300	23.1	-26.8	35.7	334.7	-0.82	-4.86	7.11	4.9	80.5	2.2	1.2	1.39	0.00435	1.0	0.09	3.9	1.08	5.5	0.02	2.3
294	60295	1400	23.7	-21.2	32.1	327.2	-0.96	-2.17	5.74	2.4	66.3	1.5	1.1	1.51	0.02375	0.9	0.24	3.7	0.79	4.8	-0.03	2.0
295	60295	1500	16.6	-8.1	18.8	311.4	-0.94	-0.81	5.42	1.2	40.5	1.1	0.9	*	*	0.9	0.17	3.4	0.94	3.7	-0.02	1.5
296	60295	1600	6.5	6.6	10.9	239.8	-0.08	1.28	4.22	1.3	-86.6	1.1	1.0	*	*	0.9	0.29	3.5	2.07	3.8	0.00	1.2
297	60295	1700	-9.0	18.1	20.6	168.9	0.34	1.71	3.53	1.7	78.8	1.3	1.0	*	*	0.9	0.13	3.8	1.08	4.0	0.01	2.1
298	60295	1800	-21.3	24.5	32.8	154.5	2.25	4.83	8.62	5.3	65.0	2.3	1.3	0.42	0.00000	1.2	-0.01	4.6	0.75	5.9	0.02	2.6
299	60295	1900	-29.0	26.1	39.4	147.5	3.34	5.83	13.87	6.7	60.2	2.6	1.5	0.90	0.00001	1.3	0.04	5.1	0.57	6.9	0.03	2.9
300	60295	2000	-27.7	19.2	34.1	140.1	2.42	3.98	5.59	4.7	58.7	2.2	1.2	1.43	0.01819	1.0	0.09	4.0	0.70	5.0	0.00	2.5
301	60295	2100	-19.9	11.7	23.6	135.9	1.97	1.67	3.18	2.6	40.3	1.6	1.0	*	*	0.9	0.09	3.4	0.78	4.4	0.03	1.9
302	60295	2200	-12.3	0.8	12.8	109.1	0.39	0.23	2.35	0.5	30.0	0.7	0.6	*	*	0.5	0.12	2.0	0.84	2.7	0.01	1.0
303	60295	2300	2.6	-11.0	11.5	2.2	-0.29	0.10	2.46	0.3	-19.0	0.6	0.6	*	*	0.4	0.14	1.9	0.99	2.7	0.02	1.0
304	70295	0	14.7	-22.2	26.8	342.0	0.06	-1.02	1.79	1.0	-86.5	1.0	0.9	1.10	0.01013	0.9	0.01	3.4	0.39	3.2	0.00	2.2
305	70295	100	22.4	-26.4	35.0	335.2	-0.87	-2.93	4.69	3.1	73.5	1.7	1.2	1.65	0.03013	1.3	0.00	5.3	0.27	4.1	0.00	3.5
306	70295	200	25.2	-24.3	35.4	329.4	-0.84	-2.53	5.28	2.7	71.6	1.6	1.3	1.44	0.00798	1.4	-0.01	5.6	0.30	3.9	0.00	3.8
307	70295	300	20.8	-16.6	26.9	324.1	-1.11	-0.74	2.82	1.3	33.7	1.2	0.9	1.20	0.01562	0.9	0.00	3.7	0.42	3.3	0.00	1.9
308	70295	400	9.9	-2.2	10.8	297.9	-0.36	0.04	2.61	0.4	-6.4	0.6	0.7	*	*	0.5	0.10	2.0	0.96	3.0	0.01	0.9
309	70295	500	-3.1	9.2	10.0	176.7	-0.09	0.52	3.79	0.5	-80.1	0.7	0.7	*	*	0.5	0.05	2.1	0.86	2.9	0.00	1.0
310	70295	600	-13.9	17.7	22.7	157.4	0.50	2.13	4.93	2.2	76.8	1.5	0.9	*	*	0.7	0.11	2.9	0.77	3.9	0.03	1.7
311	70295	700	-21.1	19.8	29.3	148.7	2.42	3.75	10.34	4.5	57.2	2.1	1.2	0.91	0.00053	1.0	0.09	4.0	0.79	5.5	-0.01	2.3
312	70295	800	-24.2	17.4	30.2	141.2	1.83	3.02	6.39	3.5	58.8	1.9	1.1	*	*	1.0	0.14	3.9	0.96	4.8	0.00	2.2
313	70295	900	-22.3	10.6	25.2	131.0	1.86	2.49	11.26	3.1	53.3	1.8	1.1	*	*	0.8	0.21	3.4	1.18	4.8	0.00	1.8
314	70295	1000	-15.2	0.8	15.9	108.3	0.22	0.10	2.57	0.2	24.3	0.5	0.7	*	*	0.4	0.24	1.9	1.67	3.3	0.01	1.0
315	70295	1100	-5.1	-9.1	10.8	44.6	0.18	-0.16	-2.05	0.2	-40.9	0.5	0.7	*	*	0.5	0.31	2.0	1.67	2.8	0.00	0.7
316	70295	1200	7.5	-18.0	19.7	-7.0	-0.27	-0.56	2.55	0.6	64.1	0.8	0.8	*	*	0.4	0.21	1.9	1.38	3.6	0.01	1.4
317	70295	1300	15.0	-21.7	26.7	340.9	-0.43	-3.05	1.51	3.1	82.0	1.8	0.9	1.18	0.01401	0.6	0.18	2.7	1.40	4.0	0.03	1.8
318	70295	1400	20.5	-23.9	31.9	334.9	-1.04	-3.61	4.25	3.8	73.9	1.9	1.1	1.51	0.02352	0.8	0.28	3.3	1.67	4.9	0.02	2.2

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319	70295	1500	19.0	-19.0	27.4	330.5	-1.38	-2.69	4.89	3.0	62.9	1.7	1.2	0.99	0.00164	0.9	0.40	3.6	2.18	4.8	0.04	1.8
320	70295	1600	12.6	-8.4	16.9	319.3	-0.51	-2.89	3.50	2.9	79.9	1.7	1.2	*	*	0.7	0.42	2.9	3.50	5.2	0.06	1.4
321	70295	1700	2.4	3.2	9.7	232.2	-0.12	1.68	4.74	1.7	-86.0	1.3	1.3	*	*	0.6	0.75	2.5	5.14	4.8	0.01	0.7
322	70295	1800	-7.1	8.0	13.9	153.9	0.06	1.70	16.80	1.7	87.9	1.3	1.4	*	*	0.6	0.72	2.5	5.86	5.1	0.01	0.9
323	70295	1900	-15.6	11.0	21.8	140.7	1.33	0.96	30.12	1.6	35.9	1.3	1.7	*	*	1.0	0.71	4.0	6.27	6.3	-0.01	1.7
324	70295	2000	-20.4	9.6	24.6	130.7	0.75	1.61	26.83	1.8	65.0	1.3	1.6	*	*	1.0	0.51	3.8	5.02	6.2	0.02	1.6
325	70295	2100	-21.5	5.6	25.2	120.0	1.52	-0.71	26.84	1.7	-25.0	1.3	1.7	*	*	0.9	0.82	3.5	6.65	6.0	0.03	1.7
326	70295	2200	-16.3	0.0	19.4	105.4	0.87	0.78	22.64	1.2	41.9	1.1	1.4	*	*	0.7	0.90	3.0	6.05	4.8	0.02	1.1
327	70295	2300	-7.0	-6.5	13.9	62.6	0.46	0.32	18.27	0.6	34.4	0.8	1.4	*	*	0.6	1.03	2.6	6.76	4.7	0.01	0.8
328	80295	0	2.7	-13.6	16.0	4.2	-0.44	4.49	12.17	4.5	-84.5	2.1	1.5	*	*	0.6	0.88	2.7	6.75	4.9	0.07	1.6
329	80295	100	10.4	-19.3	23.3	347.1	0.38	1.98	13.25	2.0	79.3	1.4	1.7	*	*	0.9	0.42	3.7	6.56	6.0	0.03	1.8
330	80295	200	15.1	-20.7	27.8	339.3	-0.93	-3.16	19.67	3.3	73.6	1.8	2.1	1.44	0.03572	1.3	0.22	5.2	7.02	7.5	0.03	2.5
331	80295	300	15.9	-16.8	27.4	332.1	-1.11	-5.09	22.60	5.2	77.7	2.3	2.4	1.18	0.00537	1.3	0.54	4.9	9.14	8.7	0.02	2.4
332	80295	400	12.2	-11.1	22.8	327.9	-0.95	-4.82	12.92	4.9	78.8	2.2	2.4	1.07	0.01002	1.4	0.55	5.3	10.43	7.9	0.06	1.9
333	80295	500	4.6	-2.4	19.7	312.6	-0.76	7.65	10.40	7.7	-84.4	2.8	2.6	*	*	1.1	1.22	4.2	13.63	8.2	0.06	1.6
334	80295	600	-3.2	3.0	17.1	148.0	1.35	9.95	35.18	10.0	82.3	3.2	2.3	*	*	1.0	1.62	3.8	12.40	6.5	0.04	1.6
335	80295	700	-8.3	4.0	21.0	131.1	1.23	7.07	58.21	7.2	80.1	2.7	2.6	*	*	1.2	1.53	4.6	13.59	7.8	0.02	1.5
336	80295	800	-14.6	5.5	24.9	126.2	0.96	1.65	79.58	1.9	59.8	1.4	2.7	*	*	1.3	1.50	5.0	12.99	8.6	0.04	1.7
337	80295	900	-20.1	7.0	27.3	124.6	0.68	0.88	52.46	1.1	52.5	1.1	2.4	0.90	0.00221	1.3	1.32	4.8	10.15	8.6	0.02	1.9
338	80295	1000	-20.3	4.8	27.2	118.8	0.05	-1.97	59.38	2.0	-88.5	1.4	2.4	1.01	0.00746	1.3	1.04	5.1	10.19	8.6	0.03	1.7
339	80295	1100	-15.9	0.5	24.4	107.4	0.54	0.77	59.59	0.9	55.0	1.0	2.5	*	*	1.4	0.81	5.2	10.92	9.0	0.00	1.5
340	80295	1200	-7.1	-6.9	18.1	61.3	0.73	2.25	28.18	2.4	72.1	1.5	2.1	*	*	1.0	1.37	3.8	10.05	7.0	0.03	1.1
341	80295	1300	2.3	-11.2	20.7	4.0	-1.23	10.77	25.79	10.8	-83.5	3.3	2.6	*	*	1.2	1.30	4.7	13.57	7.6	0.01	2.0
342	80295	1400	10.4	-17.3	24.4	344.3	0.05	4.00	24.60	4.0	89.3	2.0	2.4	*	*	1.2	0.97	4.5	10.03	8.4	-0.03	2.1
343	80295	1500	11.9	-15.7	24.6	338.3	-0.71	-0.14	26.08	0.7	11.3	0.8	2.5	*	*	1.3	0.45	5.1	10.90	7.8	0.01	2.3
344	80295	1600	11.3	-13.3	24.4	335.2	-1.87	-2.38	33.24	3.0	51.8	1.7	2.6	*	*	1.3	0.70	4.8	11.93	8.7	0.00	2.0
345	80295	1700	8.6	-7.5	19.7	326.3	-0.74	-0.97	23.28	1.2	52.9	1.1	2.3	*	*	1.0	1.22	4.0	10.94	7.7	-0.02	1.7
346	80295	1800	-0.1	0.0	18.0	112.9	-0.41	9.07	18.23	9.1	-87.4	3.0	2.5	*	*	1.1	1.50	4.1	13.41	7.3	0.07	1.5
347	80295	1900	-6.9	4.1	18.8	136.4	1.44	6.52	38.51	6.7	77.6	2.6	2.4	*	*	1.2	0.83	4.8	11.31	7.8	0.00	1.4
348	80295	2000	-13.7	6.0	24.6	129.0	0.67	2.86	54.39	2.9	76.7	1.7	2.7	*	*	1.3	1.17	4.9	13.28	8.9	0.06	1.6
349	80295	2100	-19.2	5.9	26.7	122.6	0.08	-1.22	58.57	1.2	-86.1	1.1	2.5	0.46	0.00000	1.2	1.08	4.7	11.30	8.0	0.07	1.7
350	80295	2200	-21.9	5.5	28.0	119.6	1.21	-1.38	36.63	1.8	-48.8	1.4	2.3	1.09	0.01077	1.3	0.77	4.8	9.20	8.5	0.06	1.9
351	80295	2300	-18.9	2.2	26.3	112.0	0.67	0.94	40.71	1.2	54.5	1.1	2.5	0.79	0.00088	1.3	1.13	4.9	9.83	9.6	0.04	1.8
352	90295	0	-12.1	-2.2	19.6	95.2	0.95	1.97	24.78	2.2	64.3	1.5	2.1	*	*	1.0	1.07	3.9	9.63	7.0	0.03	1.3
353	90295	100	-2.3	-9.5	17.0	28.9	0.68	6.29	20.16	6.3	83.8	2.5	2.1	*	*	1.0	1.32	3.8	10.67	6.1	0.08	1.5

354	90295	200	6.2	-13.8	21.6	-8.6	-0.65	10.86	-5.26	10.9	-86.6	3.3	2.4	*	*	1.0	0.90	3.7	11.36	7.9	0.07	1.8
355	90295	300	10.3	-14.3	23.0	339.6	-0.48	-0.70	3.79	0.8	55.7	0.9	2.3	*	*	1.1	0.56	4.2	9.81	8.2	0.00	1.8
356	90295	400	10.2	-12.8	22.7	336.9	-0.58	-2.07	14.59	2.2	74.3	1.5	2.4	*	*	1.1	0.72	4.0	10.94	8.2	0.01	1.9
357	90295	500	9.5	-10.5	22.1	333.4	-1.37	0.04	-6.07	1.4	-1.8	1.2	2.5	*	*	1.2	1.02	4.3	10.86	9.0	0.02	2.0
358	90295	600	4.2	-4.1	17.8	329.4	-0.88	4.20	3.02	4.3	-78.1	2.1	2.4	*	*	1.1	0.98	4.1	12.02	7.5	0.01	1.5
359	90295	700	-1.6	0.6	19.4	126.1	-0.64	15.84	4.42	15.9	-87.7	4.0	2.7	*	*	1.1	0.69	4.1	13.59	9.0	0.07	1.9
360	90295	800	-7.5	2.8	21.2	125.9	0.53	7.04	24.53	7.1	85.7	2.7	2.7	*	*	1.2	0.58	4.6	12.86	9.6	0.08	1.4
361	90295	900	-11.4	4.2	21.8	125.8	0.33	2.73	36.83	2.8	83.2	1.7	2.5	*	*	1.1	0.84	4.3	12.63	7.8	0.02	1.5
362	90295	1000	-16.1	2.8	25.6	115.2	-0.09	0.04	43.93	0.1	-26.5	0.3	2.6	0.87	0.00389	1.1	0.87	4.2	13.02	8.7	0.05	1.7
363	90295	1100	-18.8	1.7	25.4	110.5	0.52	-0.37	29.31	0.6	-35.5	0.8	2.3	0.89	0.00497	1.1	0.86	4.2	10.16	7.9	0.07	1.6
364	90295	1200	-15.5	-2.1	24.5	97.8	-0.26	0.96	35.74	1.0	-74.5	1.0	2.6	*	*	1.2	1.17	4.6	12.45	8.1	0.04	1.7
365	90295	1300	-7.7	-7.5	19.5	61.5	0.20	2.25	8.82	2.3	85.0	1.5	2.3	*	*	1.2	0.62	4.4	10.49	8.5	0.04	1.1
366	90295	1400	-0.4	-9.8	21.3	17.6	-1.05	12.44	-3.84	12.5	-85.2	3.5	2.8	*	*	1.3	0.80	4.8	14.65	8.4	0.11	1.8
367	90295	1500	7.6	-13.7	21.9	346.5	-0.58	5.47	15.87	5.5	-84.0	2.3	2.4	*	*	1.0	0.92	3.9	11.74	7.5	0.07	1.8
368	90295	1600	9.1	-12.3	22.9	339.1	-1.14	2.81	6.99	3.0	-67.8	1.7	2.7	*	*	1.5	0.37	5.5	10.81	9.7	-0.01	2.4
369	90295	1700	9.7	-11.4	22.9	335.2	-0.55	-0.49	10.37	0.7	41.4	0.9	2.7	*	*	1.5	0.34	5.6	10.76	9.5	-0.01	2.7
370	90295	1800	8.9	-7.4	20.9	325.4	-1.24	1.21	2.33	1.7	-44.2	1.3	2.6	*	*	1.4	0.34	5.4	11.20	8.8	0.01	2.6
371	90295	1900	3.8	-3.1	18.0	324.6	-1.32	5.28	-7.19	5.4	-75.9	2.3	2.4	*	*	1.1	0.97	4.2	12.59	7.2	0.07	1.4
372	90295	2000	-3.1	0.8	19.3	120.0	0.02	15.03	13.48	15.0	89.9	3.9	2.8	*	*	1.2	1.03	4.5	14.32	8.2	0.02	2.1
373	90295	2100	-8.5	4.2	22.9	131.7	0.86	7.16	16.70	7.2	83.2	2.7	2.8	*	*	1.2	0.98	4.4	15.56	8.4	0.00	1.6
374	90295	2200	-13.5	5.3	24.2	127.0	0.76	2.42	34.37	2.5	72.6	1.6	2.7	*	*	1.2	0.96	4.6	13.26	8.3	0.02	1.8
375	90295	2300	-16.8	3.5	25.3	117.1	0.90	0.20	35.43	0.9	12.5	1.0	2.5	*	*	1.2	1.00	4.4	11.65	8.6	0.03	1.8
376	100295	0	-16.9	0.5	24.5	107.2	-0.19	1.06	19.59	1.1	-80.1	1.0	2.4	*	*	1.2	0.73	4.4	9.72	9.7	0.07	1.7
377	100295	100	-12.1	-2.8	23.2	92.3	0.22	2.64	16.29	2.6	85.3	1.6	2.6	*	*	1.2	0.89	4.5	13.49	8.3	0.06	1.5
378	100295	200	-5.1	-8.1	19.1	47.9	0.87	6.05	17.89	6.1	81.8	2.5	2.4	*	*	1.1	0.96	4.5	12.28	7.1	0.04	1.5
379	100295	300	4.1	-12.8	21.0	-2.3	-1.06	11.80	6.28	11.8	-84.8	3.4	2.6	*	*	1.4	0.67	5.1	10.55	9.3	0.07	2.0
380	100295	400	10.7	-18.5	25.9	345.5	-1.48	2.30	1.95	2.7	-57.3	1.7	2.5	1.30	0.03156	1.5	0.23	5.9	9.16	8.9	0.12	2.2
381	100295	500	13.5	-19.9	27.4	341.2	-2.05	-4.18	7.98	4.7	63.9	2.2	2.4	1.47	0.04102	1.5	0.30	5.9	8.11	8.8	0.06	2.2
382	100295	600	13.3	-17.2	25.9	337.8	-1.83	-3.21	6.20	3.7	60.3	1.9	2.3	1.61	0.09680	1.4	0.49	5.4	8.21	9.0	-0.02	2.1
383	100295	700	11.6	-13.7	23.4	335.3	-1.64	-2.81	2.04	3.3	59.8	1.8	2.4	*	*	1.4	0.55	5.3	9.91	8.0	0.00	1.9
384	100295	800	4.9	-7.4	17.5	341.8	-2.51	2.11	-8.54	3.3	-40.1	1.8	2.3	*	*	1.3	1.08	5.2	10.03	7.0	0.02	1.5
385	100295	900	-2.1	-1.9	15.3	342.6	-0.91	5.39	2.26	5.5	-80.4	2.3	2.1	*	*	1.1	1.36	4.3	10.71	6.0	0.06	1.2
386	100295	1000	-6.1	3.0	16.1	131.8	-0.67	2.77	11.55	2.8	-76.3	1.7	2.1	*	*	1.2	1.87	4.9	9.26	6.2	0.02	1.3
387	100295	1100	-10.8	4.9	19.2	129.8	-0.86	2.68	16.37	2.8	-72.2	1.7	2.1	*	*	1.2	2.94	4.8	9.63	6.4	0.03	1.3
388	100295	1200	-14.0	3.7	21.4	120.4	-0.90	1.91	16.08	2.1	-64.8	1.5	2.1	*	*	1.2	3.35	4.7	9.91	6.6	0.05	1.2

STABLE, Deployment 2, Holderness, UK

389	100295	1300	-13.7	0.8	21.3	108.9	-0.87	1.13	28.35	1.4	-52.5	1.2	2.2	*	*	1.3	3.57	5.3	9.16	7.1	0.03	1.1
390	100295	1400	-7.5	-4.5	17.7	74.5	-0.64	1.02	3.17	1.2	-58.0	1.1	2.1	*	*	1.3	3.05	5.5	9.45	6.2	0.03	1.1
391	100295	1500	0.0	-10.1	17.9	15.3	-3.83	2.96	9.71	4.8	-37.7	2.2	2.3	*	*	1.7	1.33	7.3	9.03	6.6	0.06	1.5
392	100295	1600	7.4	-18.2	23.9	353.2	-4.66	3.88	-1.03	6.1	-39.8	2.5	2.5	*	*	2.0	0.60	9.0	6.90	8.0	0.03	2.2
393	100295	1700	14.8	-24.6	31.1	344.5	-3.05	-2.52	15.07	4.0	39.6	2.0	2.5	1.47	0.02557	2.0	0.58	8.9	6.17	8.2	-0.01	2.6
394	100295	1800	17.2	-22.3	31.3	337.9	-2.14	-6.73	4.28	7.1	72.4	2.7	2.6	1.52	0.02383	2.0	0.45	8.4	6.37	9.4	0.02	2.7
395	100295	1900	14.7	-16.0	25.7	332.9	-3.32	-3.08	-6.82	4.5	42.9	2.1	2.3	1.21	0.01583	1.7	0.64	7.1	7.05	8.1	0.01	2.1
396	100295	2000	3.6	-5.3	15.7	341.3	-2.06	2.67	-4.80	3.4	-52.3	1.8	2.2	*	*	1.5	0.57	6.1	8.22	7.2	0.02	1.5
397	100295	2100	-2.6	2.1	16.1	144.6	-1.01	8.38	10.63	8.4	-83.1	2.9	2.2	*	*	1.0	2.50	3.8	10.77	6.6	0.09	1.5
398	100295	2200	-8.1	4.9	18.1	136.6	-0.05	4.75	10.93	4.7	-89.5	2.2	2.1	*	*	1.0	2.12	3.9	10.27	6.8	0.01	1.3
399	100295	2300	-16.6	6.3	23.0	126.3	0.28	1.41	24.61	1.4	78.8	1.2	2.1	*	*	1.1	1.62	4.3	9.07	6.8	0.04	1.5
400	110295	0	-21.7	9.9	27.5	129.9	0.76	-0.41	13.34	0.9	-28.4	0.9	2.0	1.09	0.00913	1.1	1.75	4.4	6.98	7.9	0.04	1.9
401	110295	100	-20.7	7.1	25.1	124.4	0.84	1.62	17.78	1.8	62.8	1.4	1.8	0.99	0.01243	1.0	1.50	4.0	5.94	7.0	0.06	1.7
402	110295	200	-18.2	1.0	22.9	108.6	0.16	-0.61	11.00	0.6	-75.2	0.8	1.9	*	*	0.9	1.39	3.6	7.95	6.8	0.04	1.3
403	110295	300	-9.9	-7.1	17.1	69.9	-0.16	-0.62	4.31	0.6	75.2	0.8	1.7	*	*	0.9	1.95	3.6	7.71	5.6	0.01	1.1
404	110295	400	0.4	-13.4	17.1	13.8	-2.00	4.87	-5.95	5.3	-67.6	2.3	1.8	*	*	0.9	1.80	3.6	7.76	6.0	0.06	1.5
405	110295	500	8.5	-19.3	22.9	351.6	-1.01	0.75	4.72	1.3	-36.5	1.1	1.7	*	*	0.9	1.22	3.5	5.92	6.6	0.01	1.7
406	110295	600	11.8	-19.9	25.1	344.8	-1.22	-1.09	-3.92	1.6	42.0	1.3	1.8	1.34	0.05624	1.0	1.24	3.8	6.50	6.7	0.02	1.8
407	110295	700	11.6	-16.8	22.4	340.8	-0.94	-1.72	-0.83	2.0	61.2	1.4	1.6	*	*	0.9	1.32	3.4	5.62	6.5	0.02	1.6
408	110295	800	8.9	-12.3	18.9	339.5	-1.19	-2.73	-6.21	3.0	66.4	1.7	1.8	*	*	0.9	1.55	3.5	7.23	6.1	0.02	1.6
409	110295	900	1.7	-0.8	11.8	309.9	-0.55	1.59	-5.95	1.7	-70.9	1.3	1.6	*	*	0.6	1.47	2.7	7.54	5.6	0.03	0.7
410	110295	1000	-6.1	3.9	13.4	137.6	-0.37	2.08	5.89	2.1	-80.0	1.5	1.5	*	*	0.7	1.14	2.8	7.11	5.4	0.01	1.0
411	110295	1100	-12.6	7.4	17.8	136.0	-0.12	2.09	9.63	2.1	-86.7	1.4	1.5	*	*	0.7	0.83	2.8	6.01	5.3	0.02	1.3
412	110295	1200	-17.5	8.4	21.7	131.0	0.49	1.14	7.91	1.2	66.6	1.1	1.4	*	*	0.7	0.64	3.0	4.52	6.0	0.02	1.6
413	110295	1300	-22.1	7.3	25.1	123.8	0.36	0.68	12.19	0.8	61.9	0.9	1.4	0.77	0.00137	0.8	0.56	3.2	4.24	5.8	0.04	1.6
414	110295	1400	-19.7	3.6	22.8	115.7	1.17	0.04	13.06	1.2	1.9	1.1	1.5	*	*	0.7	0.64	2.9	5.28	6.2	0.05	1.4
415	110295	1500	-12.3	-4.1	15.6	87.1	0.17	0.31	9.74	0.4	60.5	0.6	1.2	*	*	0.5	0.64	2.2	4.35	4.8	0.03	0.9
416	110295	1600	-1.3	-11.7	12.9	21.8	-0.16	1.32	-0.35	1.3	-83.0	1.2	1.1	*	*	0.7	0.39	2.9	3.86	4.1	0.02	1.2
417	110295	1700	9.7	-18.8	21.9	348.1	-0.76	-1.16	4.04	1.4	56.7	1.2	1.3	*	*	1.2	0.14	4.8	2.57	4.6	0.00	2.1
418	110295	1800	14.7	-26.9	31.7	346.8	-0.59	-3.06	12.83	3.1	79.1	1.8	1.6	1.89	0.17789	1.7	0.13	7.3	1.76	5.7	0.01	2.3
419	110295	1900	15.1	-24.3	29.4	343.6	-1.14	-3.91	8.78	4.1	73.7	2.0	1.5	1.44	0.03589	1.4	0.14	5.8	2.22	5.0	0.01	2.2
420	110295	2000	14.8	-14.2	21.1	329.1	-0.85	-1.11	8.52	1.4	52.4	1.2	1.2	*	*	1.1	0.31	4.4	1.97	4.5	0.01	1.6
421	110295	2100	-1.0	-0.6	7.4	336.4	-0.69	0.43	2.81	0.8	-31.9	0.9	1.1	*	*	1.0	0.59	4.1	2.91	3.9	0.00	1.0
422	110295	2200	-8.8	9.6	14.5	153.0	0.01	1.66	3.20	1.7	89.6	1.3	1.1	*	*	0.7	0.51	2.8	2.75	4.9	0.04	1.5
423	110295	2300	-20.4	16.5	26.9	144.6	0.72	3.32	9.01	3.4	77.8	1.8	1.3	0.73	0.00008	0.9	0.19	3.4	1.69	6.1	0.02	2.2

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424	120295	0	-24.3	18.6	31.1	142.9	0.79	3.35	5.83	3.4	76.8	1.9	1.3	0.44	0.00000	1.0	0.19	3.9	1.00	6.0	-0.02	2.4
425	120295	100	-29.3	20.2	36.2	140.1	3.09	5.35	12.40	6.2	60.0	2.5	1.5	0.78	0.00001	1.3	0.23	5.0	1.45	6.7	0.05	2.6
426	120295	200	-25.9	13.6	29.9	133.2	1.25	2.99	6.50	3.2	67.2	1.8	1.3	0.66	0.00001	1.1	0.37	4.5	1.04	5.7	0.00	2.3
427	120295	300	-18.0	7.4	20.4	127.8	1.22	1.14	1.56	1.7	43.1	1.3	1.1	*	*	0.8	0.39	3.4	1.95	4.7	0.01	1.6
428	120295	400	-8.4	-3.7	10.4	81.7	0.20	-0.17	1.11	0.3	-39.3	0.5	0.8	*	*	0.6	0.42	2.3	2.31	2.9	0.00	0.9
429	120295	500	1.8	-15.5	15.9	8.8	-0.30	0.65	1.97	0.7	-64.8	0.8	0.9	*	*	0.5	0.35	2.3	2.49	3.7	0.02	1.2
430	120295	600	13.0	-22.8	26.6	345.9	-0.58	-2.39	2.61	2.5	76.4	1.6	1.1	1.56	0.12190	0.8	0.28	3.2	1.81	4.4	0.00	1.7
431	120295	700	16.3	-24.3	29.6	341.5	-1.48	-4.09	5.32	4.4	70.1	2.1	1.1	1.65	0.07962	0.8	0.32	3.3	1.87	5.0	0.04	1.9
432	120295	800	15.8	-19.8	25.8	336.9	-1.41	-3.39	6.61	3.7	67.4	1.9	1.2	1.46	0.07742	0.8	0.31	3.3	2.36	5.0	0.02	1.9
433	120295	900	12.3	-12.8	18.5	331.6	-1.19	-2.12	8.02	2.4	60.7	1.6	1.1	*	*	0.7	0.34	3.1	2.54	4.7	0.01	1.6
434	120295	1000	1.3	1.7	6.6	233.3	-0.22	0.75	2.74	0.8	-73.4	0.9	0.9	*	*	0.5	0.49	2.3	3.19	3.6	0.00	0.7
435	120295	1100	-10.9	8.9	15.0	144.9	0.12	0.90	7.72	0.9	82.6	1.0	1.0	*	*	0.6	0.41	2.5	2.47	4.0	0.01	1.2
436	120295	1200	-17.0	12.8	21.9	142.6	0.27	1.03	3.94	1.1	75.2	1.0	1.0	*	*	0.6	0.28	2.6	2.19	4.4	0.04	1.7
437	120295	1300	-20.7	13.8	25.7	139.1	0.81	1.28	8.55	1.5	57.6	1.2	1.2	0.59	0.00000	0.9	0.16	3.6	1.67	5.7	0.02	2.0
438	120295	1400	-24.7	11.4	27.6	130.2	1.37	1.27	4.20	1.9	42.8	1.4	1.0	0.49	0.00000	0.8	0.15	3.4	1.15	4.5	-0.02	1.9
439	120295	1500	-18.1	2.9	19.1	114.6	0.48	1.08	5.60	1.2	66.0	1.1	0.9	*	*	0.5	0.31	2.2	1.70	3.9	0.01	1.2
440	120295	1600	-8.0	-5.8	11.2	69.4	0.12	0.26	3.09	0.3	65.1	0.5	0.8	*	*	0.2	0.46	1.5	2.46	3.3	0.01	0.6
441	120295	1700	2.0	-16.0	16.3	8.3	-0.21	0.52	0.78	0.6	-67.5	0.7	0.8	*	*	0.4	0.36	1.9	1.94	3.3	0.01	1.0
442	120295	1800	14.7	-25.2	29.4	345.3	-0.58	-2.98	5.40	3.0	78.9	1.7	1.1	1.65	0.09519	0.8	0.10	3.3	1.45	4.4	0.00	2.0
443	120295	1900	20.0	-32.8	38.7	344.1	-0.24	-3.32	5.48	3.3	85.8	1.8	1.2	2.09	0.07912	1.1	0.16	4.4	0.76	5.3	0.02	2.6
444	120295	2000	21.0	-30.5	37.2	340.9	-1.49	-4.21	6.70	4.5	70.5	2.1	1.1	2.01	0.06938	1.0	0.22	3.8	0.92	4.9	-0.01	2.4
445	120295	2100	20.0	-23.5	31.2	335.0	-0.57	-1.94	3.92	2.0	73.5	1.4	1.1	1.22	0.00473	1.0	0.06	4.0	1.13	4.7	0.02	1.9
446	120295	2200	9.0	-8.2	13.2	327.7	-0.27	-0.44	5.27	0.5	58.3	0.7	1.0	*	*	0.8	0.44	3.3	2.14	3.8	0.03	1.2
447	120295	2300	-6.7	6.4	10.5	148.9	0.00	1.45	4.05	1.4	90.0	1.2	0.8	*	*	0.4	0.45	2.0	2.01	3.8	0.00	1.0
448	130295	0	-18.8	16.0	25.2	145.8	0.95	2.58	6.43	2.7	69.7	1.7	1.1	1.33	0.03784	0.7	0.29	2.9	1.47	5.1	0.06	1.9
449	130295	100	-27.1	18.6	33.4	139.9	1.87	4.39	8.93	4.8	66.9	2.2	1.4	0.68	0.00000	1.1	0.02	4.4	1.29	6.0	-0.01	2.7
450	130295	200	-32.6	19.8	38.7	136.8	2.69	4.36	8.14	5.1	58.4	2.3	1.4	0.75	0.00000	1.2	0.05	4.6	1.20	6.3	0.01	2.7
451	130295	300	-26.5	11.4	29.5	128.7	1.49	2.50	9.96	2.9	59.1	1.7	1.2	0.65	0.00001	1.0	0.20	4.0	1.41	5.5	-0.01	2.1
452	130295	400	-21.6	1.0	22.4	108.0	0.62	-0.18	2.64	0.6	-16.4	0.8	0.9	*	*	0.6	0.36	2.7	1.86	4.0	0.03	1.2
453	130295	500	-7.0	-11.1	13.8	47.9	0.11	0.30	-0.37	0.3	69.9	0.6	0.8	*	*	0.5	0.87	2.0	2.58	3.0	0.02	0.7
454	130295	600	7.0	-21.5	22.8	357.5	0.01	-1.07	1.14	1.1	-89.3	1.0	0.9	*	*	0.6	0.36	2.6	1.58	3.5	0.03	1.3
455	130295	700	14.8	-27.4	31.5	347.0	-0.81	-3.77	3.25	3.9	77.9	2.0	1.2	1.77	0.11223	1.0	0.15	4.1	1.21	4.7	0.00	2.3
456	130295	800	18.8	-31.6	37.1	344.8	-1.68	-5.10	6.07	5.4	71.7	2.3	1.3	1.89	0.05410	1.1	0.21	4.6	1.18	5.2	0.00	2.4
457	130295	900	18.2	-25.8	31.9	340.2	-2.02	-3.28	11.73	3.9	58.5	2.0	1.2	1.69	0.05929	1.1	0.45	4.6	1.49	4.9	0.02	2.1
458	130295	1000	9.2	-11.7	15.4	337.3	-0.66	-0.58	9.95	0.9	41.3	0.9	1.0	*	*	0.8	0.75	3.4	1.83	4.1	0.01	1.2

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459	130295	1100	-1.4	2.1	6.4	162.0	-0.15	0.97	1.08	1.0	-81.3	1.0	0.9	*	*	0.4	0.51	2.0	2.72	3.7	0.01	0.8
460	130295	1200	-15.4	12.3	20.3	144.1	0.38	0.89	9.02	1.0	67.0	1.0	1.1	*	*	0.8	0.31	3.3	1.78	5.0	0.03	1.6
461	130295	1300	-25.8	16.2	31.0	137.6	2.40	3.47	10.31	4.2	55.4	2.1	1.3	*	*	1.1	0.22	4.2	1.21	5.8	0.00	2.3
462	130295	1400	-28.1	13.7	31.8	131.5	1.89	2.48	8.04	3.1	52.7	1.8	1.2	*	*	1.0	0.15	3.9	1.06	5.6	0.09	2.1
463	130295	1500	-25.5	7.4	27.3	121.7	1.80	1.65	8.12	2.4	42.5	1.6	1.1	1.12	0.02182	0.9	0.26	3.5	1.82	4.8	-0.02	1.6
464	130295	1600	-20.1	-1.8	20.9	100.3	0.65	0.11	1.96	0.7	9.8	0.8	0.8	*	*	0.5	0.54	2.3	1.70	3.6	-0.02	1.1
465	130295	1700	-6.2	-11.7	13.7	43.3	0.05	0.17	-0.19	0.2	72.2	0.4	0.7	*	*	0.5	0.41	2.0	2.06	2.8	0.01	0.7
466	130295	1800	9.3	-22.9	24.9	353.4	-0.42	-1.24	1.00	1.3	71.1	1.1	0.8	*	*	0.7	0.12	2.7	1.13	3.3	0.03	1.5
467	130295	1900	16.7	-32.3	36.6	348.2	-1.07	-4.33	8.42	4.5	76.1	2.1	1.2	2.06	0.11207	1.1	0.21	4.2	1.12	5.0	0.03	2.4
468	130295	2000	*	*	*	*	*	*	*	*	*	*	*	1.86	0.01899	*	*	*	*	*	*	*
469	130295	2100	21.5	-30.8	37.8	340.5	-1.24	-2.99	5.88	3.2	67.5	1.8	1.1	1.74	0.02151	1.1	0.21	4.2	0.51	4.5	-0.01	2.4
470	130295	2200	15.0	-19.6	24.9	338.1	-1.20	-1.26	5.37	1.7	46.4	1.3	0.9	*	*	0.9	0.62	3.5	0.67	3.4	0.01	1.6
471	130295	2300	3.8	-0.8	6.1	297.1	-0.25	0.35	3.01	0.4	-53.9	0.7	0.7	*	*	0.4	0.53	1.9	1.56	3.5	0.00	0.7
472	140295	0	-13.3	13.5	19.3	151.0	0.11	1.95	4.25	2.0	86.8	1.4	0.8	*	*	0.6	0.35	2.7	0.88	3.8	0.01	1.5
473	140295	100	-26.6	20.4	33.9	142.9	1.59	3.78	8.38	4.1	67.3	2.0	1.3	0.36	0.00000	1.1	0.15	4.1	0.76	6.0	-0.06	2.6
474	140295	200	-32.4	22.1	39.6	139.7	3.80	6.67	12.55	7.7	60.3	2.8	1.4	0.96	0.00003	1.3	0.09	5.0	0.24	6.9	0.04	2.8
475	140295	300	-34.7	17.9	39.5	132.8	3.39	4.30	11.95	5.5	51.7	2.3	1.4	0.80	0.00001	1.4	0.09	5.8	0.67	6.0	0.03	2.4
476	140295	400	-27.7	8.1	29.3	121.8	1.90	1.52	6.45	2.4	38.7	1.6	1.0	1.15	0.02374	0.8	0.18	3.4	0.76	4.6	0.00	1.9
477	140295	500	-16.2	-4.7	17.3	89.3	0.78	0.37	2.96	0.9	25.3	0.9	0.7	*	*	0.6	0.26	2.4	0.93	2.7	0.01	1.0
478	140295	600	1.5	-18.4	18.6	10.9	-0.01	-0.24	1.48	0.2	88.2	0.5	0.5	*	*	0.4	0.09	1.8	0.55	2.4	0.01	1.0
479	140295	700	13.2	-28.0	31.1	350.2	-0.44	-2.22	2.70	2.3	78.8	1.5	0.8	1.69	0.09654	0.7	0.07	2.8	0.49	3.3	0.04	2.0
480	140295	800	20.3	-34.9	40.5	345.3	-1.13	-2.97	10.01	3.2	69.1	1.8	1.2	2.02	0.04408	1.1	0.00	4.5	0.36	5.0	0.02	2.5
481	140295	900	19.9	-30.9	37.0	342.7	-1.59	-3.18	6.96	3.6	63.4	1.9	1.1	1.73	0.02520	1.1	-0.05	4.4	0.30	4.3	0.02	2.3
482	140295	1000	17.3	-24.3	30.0	340.0	-1.60	-1.52	7.95	2.2	43.5	1.5	1.0	1.57	0.04994	1.0	0.14	3.8	0.34	4.0	-0.01	2.0
483	140295	1100	7.8	-6.9	10.6	326.9	-0.46	-0.19	1.45	0.5	22.3	0.7	0.5	*	*	0.5	0.12	2.0	0.45	2.3	0.01	1.0
484	140295	1200	-9.2	9.4	13.5	151.1	-0.03	1.52	2.32	1.5	-89.0	1.2	0.7	*	*	0.6	0.13	2.5	0.51	2.9	0.03	1.3
485	140295	1300	-25.4	17.8	31.3	140.6	1.54	3.57	5.23	3.9	66.7	2.0	1.0	*	*	0.9	-0.01	3.6	0.31	4.8	0.02	2.2
486	140295	1400	-33.5	21.9	40.4	138.7	3.60	4.32	7.86	5.6	50.2	2.4	1.3	*	*	1.3	-0.04	5.2	0.21	5.8	-0.01	2.8
487	140295	1500	-34.6	20.0	40.3	135.5	1.77	3.82	4.83	4.2	65.1	2.1	1.3	0.82	0.00000	1.2	0.03	4.9	0.22	5.8	-0.02	2.7
488	140295	1600	-28.9	7.9	30.4	120.8	1.74	2.56	6.16	3.1	55.8	1.8	1.1	1.22	0.02922	1.0	0.00	4.1	0.20	4.8	0.03	2.0
489	140295	1700	-19.4	-1.9	19.8	100.0	0.63	0.77	3.87	1.0	51.0	1.0	0.7	*	*	0.6	0.06	2.5	0.50	3.0	0.00	1.1
490	140295	1800	0.3	-18.4	18.5	14.4	0.00	-0.24	0.44	0.2	-89.1	0.5	0.5	*	*	0.4	0.01	1.7	0.35	2.0	0.00	1.1
491	140295	1900	15.7	-33.6	37.7	350.4	0.39	-3.07	10.49	3.1	-82.8	1.8	1.4	1.56	0.01633	1.6	0.00	6.9	0.17	4.9	0.02	2.5
492	140295	2000	25.6	-45.3	52.7	346.0	-3.03	-7.54	29.66	8.1	68.1	2.9	2.0	2.57	0.04015	2.1	0.02	9.3	0.26	7.4	0.01	3.6
493	140295	2100	26.9	-42.3	50.7	343.0	-1.40	-4.98	19.03	5.2	74.3	2.3	1.7	2.42	0.02849	1.8	-0.01	7.8	0.51	6.2	-0.02	3.3

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494	140295	2200	19.1	-31.7	37.3	344.3	-1.65	-3.27	13.67	3.7	63.2	1.9	1.2	1.87	0.03834	1.4	0.03	5.6	0.37	4.6	-0.01	2.4
495	140295	2300	12.1	-16.6	20.8	339.4	-1.10	-0.54	16.47	1.2	26.2	1.1	1.1	*	*	1.1	0.34	4.4	0.74	4.6	0.00	1.5
496	150295	0	-4.8	7.7	9.8	163.2	-0.51	1.30	4.95	1.4	-68.6	1.2	0.7	*	*	0.8	1.21	3.1	0.55	2.6	0.01	1.2
497	150295	100	-22.3	21.3	31.2	149.2	0.14	3.88	8.26	3.9	87.9	2.0	1.2	1.46	0.01545	1.0	0.44	4.2	0.32	5.4	0.00	2.3
498	150295	200	-35.4	26.4	44.5	142.2	2.71	5.95	8.27	6.5	65.5	2.6	1.5	0.88	0.00000	1.4	0.46	5.6	-0.01	6.9	-0.03	3.2
499	150295	300	-37.8	25.6	46.0	139.5	3.40	6.42	8.88	7.3	62.1	2.7	1.5	1.32	0.00021	1.4	0.36	5.5	0.08	6.7	0.05	3.1
500	150295	400	-36.0	16.1	39.8	129.6	2.38	4.18	6.71	4.8	60.4	2.2	1.3	1.34	0.00283	1.3	0.48	5.1	0.31	5.6	0.00	2.6
501	150295	500	-25.2	4.5	25.9	115.6	1.40	1.27	2.34	1.9	42.0	1.4	0.9	1.07	0.03292	0.9	0.82	3.7	0.52	3.8	0.00	1.7
502	150295	600	-8.5	-10.9	14.2	53.5	-0.08	0.23	-0.67	0.2	-71.2	0.5	0.5	*	*	0.7	1.52	2.3	0.55	1.7	0.00	0.6
503	150295	700	9.9	-26.4	28.5	355.0	0.07	-0.73	2.54	0.7	-84.6	0.9	0.9	1.51	0.09837	1.0	0.22	4.1	0.26	2.6	0.01	2.1
504	150295	800	22.8	-41.0	47.5	346.3	-1.55	-3.59	13.16	3.9	66.7	2.0	1.5	2.15	0.02389	1.7	0.06	7.4	0.17	5.1	-0.01	3.0
505	150295	900	24.2	-39.0	46.4	343.6	-1.91	-4.94	12.54	5.3	68.9	2.3	1.5	1.96	0.01110	1.6	0.10	6.8	0.07	5.9	0.02	3.0
506	150295	1000	20.8	-31.0	37.6	341.6	-1.22	-2.01	8.42	2.4	58.8	1.5	1.1	1.87	0.04040	1.2	0.12	4.9	-0.06	4.3	0.02	2.2
507	150295	1100	12.7	-13.5	18.7	332.1	-1.20	-1.52	6.75	1.9	51.8	1.4	0.8	*	*	0.8	0.30	3.2	0.29	3.6	0.00	1.6
508	150295	1200	-4.8	6.5	8.7	159.0	-0.10	1.16	1.80	1.2	-84.9	1.1	0.6	*	*	0.8	0.24	2.9	0.23	2.5	0.01	1.1
509	150295	1300	-21.8	19.3	29.4	146.9	1.01	2.84	6.01	3.0	70.4	1.7	1.0	0.94	0.00026	1.0	-0.01	3.9	0.14	4.4	0.02	2.0
510	150295	1400	-32.8	25.5	41.9	143.3	4.12	7.54	11.88	8.6	61.4	2.9	1.4	0.91	0.00000	1.4	0.17	5.3	0.10	6.5	-0.02	3.1
511	150295	1500	-40.0	27.2	48.7	139.7	4.54	5.62	7.98	7.2	51.1	2.7	1.5	*	*	1.4	0.08	5.3	-0.14	7.1	0.01	3.4
512	150295	1600	-35.3	19.7	40.8	134.6	3.43	5.86	11.00	6.8	59.7	2.6	1.4	1.36	0.00185	1.2	-0.06	4.9	0.21	6.3	-0.03	2.9
513	150295	1700	-28.3	8.0	29.6	121.3	1.85	1.58	3.72	2.4	40.5	1.6	0.9	1.09	0.00960	0.9	-0.02	3.7	0.18	3.9	0.01	1.9
514	150295	1800	-12.7	-7.6	15.1	74.6	0.11	0.20	3.43	0.2	61.7	0.5	0.5	*	*	0.6	0.31	2.0	0.33	2.3	0.01	0.7
515	150295	1900	6.7	-24.2	25.4	359.9	-0.11	-0.82	4.10	0.8	82.6	0.9	0.8	*	*	0.8	0.04	3.3	0.20	3.0	0.00	2.1
516	150295	2000	17.9	-37.0	41.5	349.7	0.01	-3.06	8.48	3.1	-89.7	1.7	1.3	1.83	0.02080	1.4	0.00	5.7	-0.04	5.0	0.02	2.6
517	150295	2100	24.7	-42.4	49.5	345.3	-2.70	-5.35	11.46	6.0	63.2	2.4	1.5	2.33	0.02583	1.6	-0.01	6.5	-0.09	6.4	-0.04	3.2
518	150295	2200	21.9	-39.0	45.0	346.2	-2.91	-6.16	17.39	6.8	64.7	2.6	1.5	1.93	0.01246	1.4	0.03	5.7	0.12	6.5	-0.02	3.1
519	150295	2300	19.1	-26.5	32.9	339.7	-1.18	-1.20	5.48	1.7	45.6	1.3	1.0	1.72	0.05070	1.1	0.02	4.4	0.08	4.2	0.00	2.0
520	160295	0	4.3	-2.2	5.7	312.5	-0.43	0.45	1.34	0.6	-46.5	0.8	0.6	*	*	0.5	0.24	2.2	0.36	2.9	0.00	0.8

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RMS-w	dir-w	u/U*	v/U*	w/U*	Cd-RS	Cd-TKE	Za-RS	Za-TKE	RMS-w/S	E/S**2	Depth	R1	R2	R3	R4	Vane	Compass	OBS-1	OBS-2
2.2	82.3	1.7	2.3	1.4	0.0012	0.0014	0.000	0.001	0.133	0.012	24.50	15.5	15.2	16.0	14.7	320	2.9	0.444	
1.8	81.9	1.8	2.2	1.5	0.0030	0.0010	0.020	0.000	0.069	0.006	23.70	24.1	24.2	24.7	24.6	325	2.9	0.465	
1.5	83.3	1.9	2.1	1.5	0.0042	0.0011	0.063	0.000	0.051	0.006	22.88	26.9	27.7	28.4	28.8	304	2.9	0.426	
1.8	84.7	2.0	2.1	1.5	0.0044	0.0012	0.070	0.000	0.059	0.006	22.37	27.7	28.3	29.2	29.6	295	2.9	0.323	
2.2	86.9	2.0	2.1	1.4	0.0019	0.0018	0.003	0.002	0.101	0.010	22.25	20.2	20.1	20.7	20.3	303	2.9	0.322	
3.3	84.0	1.9	2.4	1.1	0.0035	0.0035	0.036	0.035	0.355	0.033	22.52	10.9	10.4	10.7	9.9	267	2.8	0.363	
3.5	81.4	1.9	2.4	1.2	0.0088	0.0033	0.423	0.027	0.307	0.027	23.06	13.4	13.0	14.0	13.7	127	2.8	0.589	
3.4	83.2	1.8	2.4	1.3	0.0016	0.0019	0.001	0.003	0.165	0.011	23.77	21.1	20.0	20.4	19.9	43	3.0	0.560	
3.6	86.1	1.8	2.3	1.4	0.0023	0.0022	0.007	0.006	0.149	0.010	24.52	22.1	21.2	21.8	22.3	47	2.5	0.414	
4.7	87.2	1.8	2.2	1.5	0.0023	0.0027	0.007	0.014	0.179	0.010	25.12	23.7	22.7	23.4	24.8	67	3.3	0.340	
6.0	85.1	2.0	2.2	1.4	0.0047	0.0040	0.088	0.053	0.270	0.015	25.33	20.2	19.7	20.2	21.2	94	3.2	0.302	
7.1	76.8	2.0	2.2	1.2	0.0026	0.0047	0.012	0.088	0.398	0.020	25.24	16.8	15.9	16.3	16.3	119	3.2	0.351	
10.3	77.4	2.0	2.3	1.1	0.0023	0.0054	0.007	0.128	0.603	0.022	24.86	17.3	15.9	16.2	15.9	262	3.3	0.446	
8.9	76.5	1.9	2.3	1.2	0.0078	0.0045	0.326	0.075	0.382	0.015	24.20	21.8	21.2	21.7	20.5	290	2.9	0.441	
8.3	81.2	2.0	2.2	1.3	0.0042	0.0038	0.061	0.045	0.276	0.011	23.43	28.1	27.8	28.8	27.7	301	3.2	0.401	
7.5	81.0	2.0	2.2	1.3	0.0041	0.0033	0.060	0.030	0.224	0.009	22.76	30.4	30.4	31.7	31.4	323	3.2	0.392	
8.2	75.9	2.0	2.2	1.2	0.0062	0.0034	0.190	0.030	0.285	0.011	22.32	27.5	27.2	28.3	28.0	295	3.3	0.329	
9.9	72.2	2.1	2.2	1.2	0.0105	0.0042	0.606	0.063	0.420	0.014	22.25	23.2	22.6	23.2	22.4	270	3.3	0.325	
11.4	73.6	2.0	2.3	1.1	0.0079	0.0064	0.336	0.200	0.628	0.023	22.59	19.6	18.4	18.9	18.5	270	3.2	0.351	
13.1	79.0	2.1	2.2	1.1	0.0013	0.0057	0.000	0.148	0.579	0.017	23.19	22.5	21.8	22.0	22.3	157	3.7	0.398	
10.5	83.7	2.1	2.1	1.3	0.0008	0.0048	0.000	0.096	0.365	0.013	23.93	26.5	26.0	26.8	27.2	118	3.7	0.308	
8.8	79.7	2.0	2.3	1.2	0.0027	0.0051	0.013	0.112	0.283	0.012	24.75	28.4	27.8	28.9	29.7	116	3.8	0.320	
13.6	83.1	2.0	2.2	1.2	0.0028	0.0046	0.016	0.082	0.409	0.011	25.27	29.3	28.8	30.3	31.4	180	3.7	0.342	
14.0	78.4	2.0	2.2	1.2	0.0039	0.0038	0.049	0.044	0.480	0.011	25.46	26.1	25.3	26.4	27.3	149	3.6	0.358	
14.9	79.7	2.0	2.3	1.1	0.0017	0.0046	0.002	0.083	0.595	0.014	25.35	23.6	22.1	22.9	23.0	123	3.5	0.387	
15.7	78.4	2.1	2.2	1.1	0.0044	0.0055	0.071	0.135	0.673	0.017	24.87	23.0	20.5	22.2	21.9	195	2.6	0.479	-0.856
16.1	80.1	1.9	2.4	1.1	0.0151	0.0054	1.153	0.131	0.565	0.014	24.26	27.9	25.2	27.5	26.5	266	3.4	0.482	-0.880
14.3	77.7	1.9	2.4	1.2	0.0083	0.0048	0.368	0.092	0.463	0.012	23.57	30.0	27.8	30.6	29.8	290	3.3	0.465	-1.155
14.3	79.0	2.0	2.3	1.2	0.0078	0.0046	0.326	0.083	0.496	0.012	23.04	28.5	27.9	29.3	28.8	275	3.4	0.450	-1.266
12.6	77.3	1.9	2.3	1.2	0.0049	0.0041	0.097	0.059	0.514	0.014	22.75	25.1	24.8	25.9	25.4	279	3.3	0.409	-1.306
15.5	81.3	2.0	2.3	1.1	0.0115	0.0048	0.718	0.093	0.676	0.016	22.82	23.8	23.1	23.8	23.2	250	3.3	0.408	-1.216
15.3	79.8	2.0	2.3	1.1	0.0287	0.0047	2.831	0.090	0.704	0.017	23.11	22.2	21.5	22.1	21.8	219	2.9	0.406	-1.125
14.3	82.4	1.9	2.3	1.2	0.0116	0.0043	0.733	0.068	0.527	0.013	23.76	26.0	25.5	26.2	25.7	138	3.2	0.383	-1.003
12.0	82.0	1.9	2.3	1.2	0.0039	0.0031	0.050	0.023	0.345	0.008	24.56	31.2	30.8	31.8	32.5	83	3.3	0.357	-1.122

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11.5	83.1	1.9	2.3	1.3	0.0020	0.0031	0.004	0.024	0.329	0.008	25.27	31.1	30.8	31.9	32.9	79	3.6	0.375	-0.683
13.7	83.2	1.9	2.4	1.1	0.0027	0.0036	0.014	0.039	0.436	0.010	25.59	27.3	26.4	27.5	28.2	114	3.7	0.398	-0.913
13.5	84.8	1.9	2.4	1.1	0.0042	0.0040	0.062	0.053	0.535	0.013	25.60	22.4	21.5	22.1	22.5	137	3.3	0.395	-1.267
13.3	83.2	1.8	2.5	1.1	0.0194	0.0056	1.699	0.147	0.653	0.019	25.26	20.3	19.2	19.7	19.6	198	2.2	0.420	-1.103
14.6	84.7	1.8	2.4	1.2	0.0111	0.0042	0.668	0.062	0.586	0.014	24.66	25.0	23.6	25.1	24.3	299	2.9	0.481	-0.693
12.5	86.6	1.9	2.3	1.3	0.0033	0.0042	0.029	0.065	0.433	0.012	23.84	28.2	27.3	29.1	28.6	309	3.4	0.496	-1.223
12.6	87.3	1.8	2.4	1.2	0.0059	0.0045	0.167	0.078	0.420	0.012	23.07	29.8	28.8	30.8	30.3	316	3.5	0.455	-1.259
14.2	87.5	1.8	2.4	1.2	0.0036	0.0043	0.037	0.066	0.467	0.011	22.48	30.3	29.4	31.3	30.7	300	3.6	0.443	-1.203
14.8	85.0	1.8	2.4	1.2	0.0065	0.0047	0.207	0.087	0.559	0.014	22.22	26.3	25.7	27.1	26.5	304	3.6	0.447	-1.258
18.2	85.3	1.8	2.5	1.1	0.0342	0.0046	3.451	0.083	0.713	0.014	22.37	26.1	25.4	26.6	26.3	278	3.6	0.538	-1.177
18.8	85.7	1.8	2.5	1.2	0.0266	0.0048	2.577	0.094	0.709	0.014	22.83	24.6	24.2	25.9	25.9	235	3.3	0.761	-0.935
16.3	84.6	1.9	2.4	1.1	0.0152	0.0039	1.164	0.048	0.612	0.012	23.54	24.4	23.5	24.6	24.5	101	3.9	0.772	-0.917
14.4	85.2	1.8	2.3	1.3	0.0050	0.0031	0.108	0.022	0.435	0.009	24.37	28.9	28.4	29.6	30.7	85	3.9	0.541	-1.093
10.3	85.7	1.8	2.4	1.2	0.0034	0.0029	0.032	0.019	0:278	0.008	25.02	31.8	31.4	32.5	33.6	118	3.8	0.435	-1.189
11.9	84.6	1.7	2.5	1.2	0.0022	0.0026	0.006	0.011	0.369	0.008	25.25	28.1	27.5	28.4	29.1	113	3.8	0.508	-1.089
12.2	84.5	1.8	2.5	1.0	0.0047	0.0037	0.087	0.044	0.526	0.014	25.15	20.2	19.1	19.2	19.2	74	3.8	0.487	-1.048
11.6	85.6	1.8	2.4	1.2	0.0313	0.0054	3.130	0.129	0.650	0.022	24.73	18.5	17.5	17.8	17.1	208	3.1	0.789	-0.996
8.2	88.9	1.8	2.3	1.3	0.0009	0.0041	0.000	0.058	0.307	0.013	23.99	24.9	24.6	25.9	25.4	315	3.1	0.560	-1.158
5.4	86.4	1.8	2.3	1.3	0.0090	0.0025	0.447	0.010	0.149	0.007	23.05	32.5	33.1	35.1	35.3	318	3.2	0.377	-1.328
4.6	76.8	1.9	2.2	1.4	0.0080	0.0021	0.340	0.005	0.104	0.005	22.26	40.0	41.2	43.6	44.4	303	3.3	0.356	-1.352
6.0	69.1	2.1	2.1	1.3	0.0070	0.0022	0.252	0.006	0.160	0.007	21.79	33.8	35.2	36.4	36.8	309	3.2	0.361	-1.313
6.8	66.4	2.2	2.1	1.1	0.0095	0.0040	0.492	0.055	0.274	0.013	21.63	24.7	24.8	25.2	24.9	295	3.2	0.346	-1.220
9.0	61.1	2.0	2.3	1.0	0.0211	0.0047	1.911	0.088	0.619	0.025	21.91	15.9	15.7	15.9	15.2	273	3.1	0.358	-1.287
8.2	70.8	1.8	2.4	1.1	0.0119	0.0045	0.770	0.077	0.408	0.018	22.52	19.9	19.9	20.9	20.3	101	3.0	0.416	-1.135
5.0	72.0	1.8	2.3	1.3	0.0050	0.0026	0.103	0.012	0.170	0.009	23.34	27.9	27.7	28.5	28.4	66	3.7	0.415	-1.164
3.7	79.8	1.8	2.3	1.3	0.0055	0.0023	0.136	0.008	0.097	0.007	24.26	33.9	33.0	33.8	34.6	37	3.6	0.368	-1.250
4.6	78.4	1.9	2.3	1.3	0.0026	0.0017	0.011	0.002	0.122	0.006	24.87	32.4	31.3	32.3	34.2	40	3.7	0.354	-1.017
5.7	74.8	1.9	2.3	1.3	0.0016	0.0023	0.002	0.007	0.210	0.009	25.15	24.2	23.4	24.2	25.5	66	3.7	0.387	-1.120
6.2	72.4	1.9	2.4	1.0	0.0005	0.0034	0.000	0.030	0.339	0.017	25.07	16.3	15.6	16.1	15.9	103	3.7	0.400	-1.175
6.9	71.6	1.9	2.4	1.2	0.0164	0.0041	1.319	0.057	0.414	0.020	24.60	16.1	15.3	15.4	14.1	280	3.7	0.666	-1.152
4.9	78.3	1.9	2.3	1.3	0.0029	0.0019	0.018	0.003	0.189	0.009	23.77	23.8	24.1	25.1	25.0	316	3.3	0.676	-1.027
4.8	77.6	1.8	2.4	1.3	0.0064	0.0017	0.205	0.002	0.146	0.007	22.81	30.1	30.7	31.9	32.2	303	3.4	0.510	-1.082
3.8	77.4	1.8	2.3	1.3	0.0071	0.0016	0.259	0.001	0.106	0.006	22.10	31.8	32.7	33.7	34.4	316	3.5	0.369	-1.235
4.6	81.0	1.8	2.4	1.3	0.0081	0.0018	0.352	0.002	0.162	0.008	21.75	26.5	27.1	27.9	28.3	321	3.4	0.347	-1.358
5.7	81.1	1.7	2.5	1.2	0.0045	0.0042	0.079	0.065	0.397	0.024	21.87	16.5	16.2	16.6	15.5	254	3.3	0.389	-1.311

STABLE, Deployment 2, Holderness, UK

6.7	83.3	1.8	2.4	1.2	0.0175	0.0039	1.462	0.051	0.475	0.023	22.49	15.3	15.9	17.0	16.3	152	3.0	0.594	-1.149
3.8	86.3	1.7	2.4	1.3	0.0050	0.0024	0.102	0.009	0.153	0.010	23.41	23.8	23.6	24.3	23.9	35	3.5	0.581	-1.115
3.6	86.7	1.8	2.3	1.3	0.0037	0.0019	0.040	0.003	0.108	0.007	24.35	30.9	29.8	30.5	30.6	20	3.4	0.463	-1.233
3.4	85.2	1.8	2.3	1.3	0.0038	0.0019	0.045	0.003	0.095	0.006	25.17	32.2	30.9	31.6	32.2	35	3.7	0.381	-1.132
3.6	86.7	1.9	2.3	1.3	0.0038	0.0019	0.045	0.003	0.119	0.008	25.62	26.8	25.8	26.7	27.5	34	3.8	0.331	-1.166
4.6	80.2	2.0	2.3	1.1	0.0030	0.0023	0.020	0.007	0.244	0.013	25.61	16.0	15.4	15.8	16.1	92	4.1	0.329	-1.365
5.9	83.3	1.8	2.4	1.2	0.0132	0.0041	0.925	0.058	0.438	0.025	25.18	12.9	12.1	12.1	11.1	267	3.9	0.460	-1.293
4.0	88.2	1.7	2.3	1.5	0.0030	0.0019	0.019	0.003	0.156	0.009	24.42	22.9	23.3	24.2	24.3	317	3.5	0.570	-1.170
3.0	88.5	1.7	2.1	1.8	0.0080	0.0027	0.347	0.014	0.092	0.008	23.48	29.5	30.2	31.2	31.7	306	3.1	0.536	-1.171
2.9	88.0	1.9	2.1	1.6	0.0072	0.0022	0.265	0.006	0.073	0.006	22.58	34.9	36.4	37.7	38.5	306	3.1	0.378	-1.289
2.8	87.6	1.8	2.2	1.6	0.0045	0.0016	0.079	0.002	0.080	0.006	21.93	31.3	32.1	33.0	33.6	314	3.1	0.355	-1.295
4.3	87.8	1.8	2.3	1.4	0.0048	0.0028	0.093	0.016	0.177	0.011	21.74	23.8	24.0	24.6	24.5	312	3.2	0.369	-1.214
5.2	84.2	1.9	2.5	0.9	0.0106	0.0066	0.618	0.215	0.501	0.041	22.07	13.7	13.9	14.0	13.2	280	3.2	0.488	-1.261
5.2	87.3	1.8	2.3	1.3	0.0069	0.0029	0.245	0.018	0.275	0.015	22.81	18.8	18.6	19.6	19.4	41	3.2	0.812	-0.897
3.8	87.7	1.8	2.3	1.4	0.0037	0.0022	0.042	0.006	0.126	0.008	23.82	28.3	27.7	28.4	28.4	35	3.4	0.703	-0.858
3.4	89.4	1.8	2.3	1.4	0.0028	0.0020	0.017	0.004	0.087	0.006	24.89	34.6	33.6	34.3	35.2	26	3.6	0.440	-1.137
2.9	88.5	1.8	2.3	1.4	0.0032	0.0020	0.026	0.004	0.081	0.006	25.58	31.7	30.6	31.6	33.1	40	3.8	0.375	-1.027
4.0	85.9	1.9	2.3	1.3	0.0020	0.0018	0.004	0.003	0.125	0.007	25.77	26.7	25.7	26.3	28.1	41	3.8	0.360	-1.129
6.0	84.3	1.8	2.4	1.1	0.0023	0.0036	0.007	0.039	0.384	0.020	25.55	13.9	13.1	13.2	12.7	160	3.8	0.398	-1.265
5.8	84.9	1.8	2.4	1.3	0.0123	0.0021	0.816	0.005	0.302	0.013	24.91	17.6	17.5	17.9	16.6	305	3.6	0.598	-0.785
3.7	86.7	1.8	2.3	1.4	0.0066	0.0017	0.221	0.002	0.113	0.007	23.89	29.5	30.5	31.7	32.3	307	3.5	0.524	-1.021
3.7	87.6	1.9	2.3	1.4	0.0072	0.0017	0.266	0.002	0.093	0.006	22.82	35.2	36.6	38.4	39.6	315	3.5	0.427	-0.945
3.2	87.3	1.9	2.3	1.4	0.0068	0.0015	0.236	0.001	0.083	0.005	22.00	34.4	35.5	36.8	37.6	312	3.6	0.380	-1.180
4.9	84.6	1.8	2.3	1.3	0.0068	0.0018	0.239	0.002	0.166	0.008	21.58	27.2	27.9	28.8	29.3	309	3.5	0.395	-1.113
6.0	82.9	1.8	2.4	1.1	0.0062	0.0040	0.183	0.056	0.437	0.025	21.69	15.9	15.7	15.9	15.1	288	3.6	0.458	-1.197
7.1	85.1	1.7	2.4	1.3	0.0086	0.0032	0.407	0.025	0.455	0.019	22.32	16.0	16.6	18.0	17.5	171	3.5	0.752	-0.721
5.5	86.6	1.7	2.4	1.3	0.0063	0.0028	0.194	0.016	0.193	0.010	23.36	26.0	25.8	26.8	27.1	34	3.3	0.673	-0.867
4.5	87.9	1.8	2.4	1.3	0.0035	0.0021	0.035	0.005	0.109	0.006	24.53	36.9	36.0	37.3	38.4	34	2.9	0.439	-1.136
3.3	84.5	1.9	2.3	1.3	0.0033	0.0018	0.027	0.003	0.070	0.005	25.51	39.5	38.5	40.0	41.3	28	3.2	0.374	-1.205
5.8	86.4	1.8	2.4	1.3	0.0024	0.0021	0.008	0.005	0.161	0.007	25.94	31.2	30.6	31.7	33.1	45	3.1	0.379	-0.985
7.1	86.9	1.7	2.4	1.3	0.0009	0.0025	0.000	0.010	0.267	0.010	25.90	23.1	22.4	23.3	24.0	57	3.1	0.398	-0.857
8.3	82.4	1.9	2.4	1.1	0.0143	0.0046	1.061	0.080	0.501	0.021	25.46	15.1	14.6	14.3	13.6	168	2.9	0.599	-1.046
6.0	84.2	1.7	2.3	1.4	0.0032	0.0024	0.025	0.009	0.224	0.010	24.62	24.2	24.3	25.2	24.4	321	2.7	0.516	-1.203
5.7	86.7	1.7	2.3	1.5	0.0099	0.0021	0.533	0.004	0.153	0.006	23.44	32.7	33.6	35.9	36.4	312	2.9	0.398	-1.314
7.7	87.4	1.7	2.2	1.6	0.0127	0.0025	0.862	0.009	0.193	0.007	22.39	35.5	36.1	37.9	38.3	319	2.9	0.383	-1.315

STABLE, Deployment 2, Holderness, UK

10.6	83.8	1.8	2.3	1.4	0.0070	0.0027	0.249	0.014	0.320	0.008	21.67	31.5	32.3	33.7	33.8	311	3.1	0.400	-1.315
13.3	81.8	1.8	2.4	1.2	0.0067	0.0037	0.223	0.042	0.534	0.013	21.46	25.9	25.2	26.3	25.8	295	3.0	0.421	-1.299
16.4	82.2	1.9	2.3	1.2	0.0381	0.0038	3.870	0.045	0.780	0.015	21.84	22.1	22.1	22.6	22.3	275	3.0	0.479	-1.248
13.3	83.5	1.9	2.4	1.2	0.0095	0.0026	0.490	0.012	0.525	0.011	22.66	23.1	22.8	23.4	23.0	120	3.6	0.619	-1.096
8.8	86.4	1.8	2.4	1.3	0.0026	0.0029	0.012	0.017	0.229	0.007	23.83	33.8	33.5	34.8	35.8	47	3.5	0.413	-1.282
6.7	86.9	1.8	2.3	1.3	0.0039	0.0022	0.050	0.006	0.140	0.005	25.07	42.4	41.3	42.9	44.3	44	3.5	0.338	-1.354
8.1	85.0	1.8	2.3	1.3	0.0014	0.0023	0.001	0.007	0.182	0.006	25.92	38.3	37.8	39.6	41.5	53	3.3	0.341	-1.353
8.1	84.0	1.9	2.3	1.3	0.0026	0.0025	0.012	0.010	0.211	0.007	26.11	31.7	31.6	32.8	34.4	77	3.9	0.361	-1.336
10.4	81.7	1.9	2.4	1.1	0.0031	0.0028	0.023	0.016	0.451	0.012	25.85	19.4	18.4	19.0	18.9	104	3.6	0.405	-1.311
10.3	79.6	1.8	2.3	1.3	0.0246	0.0032	2.339	0.026	0.462	0.013	25.20	20.9	20.5	20.7	19.1	288	3.4	0.526	-1.211
8.1	85.9	1.7	2.4	1.4	0.0014	0.0033	0.001	0.029	0.237	0.009	24.11	31.0	31.1	33.2	32.8	311	3.4	0.432	-1.282
8.5	85.6	1.8	2.3	1.4	0.0103	0.0026	0.583	0.012	0.194	0.006	22.89	38.8	38.9	42.0	42.5	311	3.4	0.394	-1.319
9.2	82.1	1.9	2.3	1.3	0.0093	0.0026	0.475	0.013	0.255	0.008	21.94	33.3	33.9	35.4	35.8	310	3.4	0.387	-1.325
9.4	80.3	1.9	2.4	1.2	0.0045	0.0029	0.076	0.018	0.333	0.010	21.52	27.0	27.1	28.0	27.9	290	3.4	0.398	-1.314
14.6	79.1	1.9	2.3	1.2	0.0183	0.0039	1.566	0.049	0.712	0.016	21.71	22.3	22.2	22.5	21.9	264	3.3	0.449	-1.271
14.8	82.4	1.8	2.4	1.2	0.0175	0.0031	1.458	0.022	0.621	0.012	22.47	21.8	21.9	23.0	22.8	130	3.2	0.573	-1.143
11.4	84.0	1.8	2.4	1.3	0.0036	0.0027	0.039	0.013	0.331	0.008	23.61	30.2	30.4	31.5	31.7	65	3.6	0.507	-1.191
7.8	89.4	1.8	2.3	1.3	0.0015	0.0024	0.001	0.008	0.157	0.005	24.89	43.3	42.6	44.4	45.6	33	3.8	0.339	-1.358
10.2	87.4	1.8	2.4	1.3	0.0065	0.0032	0.208	0.025	0.226	0.007	25.90	38.8	38.2	40.4	41.8	98	3.6	0.334	-1.361
11.0	84.6	1.8	2.4	1.3	0.0036	0.0028	0.037	0.016	0.297	0.008	26.26	30.9	30.7	32.1	33.6	88	3.8	0.367	-1.330
12.2	83.3	1.8	2.5	1.0	0.0024	0.0035	0.009	0.036	0.457	0.012	26.05	20.1	21.0	21.6	21.8	106	3.8	0.417	-1.292
12.4	83.2	1.8	2.4	1.2	0.0210	0.0044	1.900	0.073	0.547	0.015	25.37	19.0	21.2	21.8	20.7	267	3.5	0.650	-1.099
8.6	88.4	1.8	2.4	1.4	0.0041	0.0034	0.057	0.033	0.245	0.009	24.32	31.1	32.7	34.6	34.6	316	3.1	0.614	-1.108
6.4	89.5	1.8	2.4	1.4	0.0117	0.0029	0.741	0.018	0.140	0.006	22.90	40.0	40.9	44.6	45.6	318	3.2	0.405	-1.310
7.9	85.5	1.8	2.3	1.4	0.0097	0.0027	0.519	0.013	0.173	0.006	21.66	38.9	41.4	45.1	45.9	315	3.1	0.387	-1.325
8.5	84.2	1.8	2.3	1.3	0.0071	0.0029	0.259	0.017	0.238	0.008	20.85	31.3	33.1	34.9	34.9	295	3.3	0.384	-1.328
8.8	86.0	1.9	2.4	1.2	0.0043	0.0039	0.065	0.048	0.356	0.013	20.62	23.3	25.2	25.7	25.2	292	3.3	0.380	-1.333
10.3	84.5	1.9	2.3	1.2	0.0258	0.0059	2.491	0.163	0.675	0.026	21.06	14.9	18.8	18.9	18.2	262	3.4	0.407	-1.307
8.7	83.7	1.8	2.4	1.2	0.0042	0.0025	0.061	0.010	0.330	0.010	21.92	21.4	24.0	25.0	24.3	64	3.2	0.375	-1.323
3.6	78.3	1.8	2.3	1.4	0.0048	0.0018	0.095	0.002	0.085	0.005	23.15	37.7	38.5	39.6	39.8	31	2.8	0.308	-1.387
2.3	80.4	1.9	2.3	1.4	0.0040	0.0018	0.055	0.003	0.051	0.005	24.34	39.0	39.2	40.8	41.6	24	2.8	0.266	-1.429
3.1	70.7	1.9	2.2	1.4	0.0031	0.0015	0.022	0.001	0.076	0.005	25.03	34.1	34.0	35.2	35.6	28	2.8	0.254	-1.442
5.6	58.5	2.0	2.2	1.2	0.0015	0.0024	0.001	0.008	0.239	0.011	24.97	18.8	20.1	20.8	21.0	64	2.8	0.261	-1.438
4.3	71.8	2.4	1.8	1.2	0.0198	0.0088	1.744	0.421	0.278	0.032	24.48	10.4	12.9	12.9	12.2	200	3.0	0.265	-1.446
3.3	67.4	2.2	1.9	1.4	0.0057	0.0020	0.148	0.004	0.085	0.006	23.60	31.9	34.5	35.8	36.1	310	3.1	0.268	-1.443

STABLE, Deployment 2, Holderness, UK

2.1	62.7	2.0	2.1	1.5	0.0042	0.0012	0.064	0.000	0.038	0.003	22.34	46.4	48.6	51.6	52.6	329	3.3	0.270	-1.440
1.6	52.8	2.0	2.1	1.5	0.0037	0.0013	0.042	0.000	0.033	0.004	21.03	41.9	44.5	46.6	47.4	317	3.3	0.285	-1.425
1.5	44.0	2.1	2.0	1.5	0.0025	0.0012	0.010	0.000	0.040	0.005	20.18	32.5	34.9	36.1	36.9	309	3.3	0.314	-1.398
3.0	28.2	2.3	1.9	1.3	0.0085	0.0025	0.387	0.011	0.167	0.015	20.04	15.1	17.8	18.5	18.2	319	3.3	0.321	-1.392
2.9	24.7	2.2	2.0	1.2	0.0086	0.0029	0.404	0.018	0.168	0.016	20.64	13.1	17.1	19.1	19.1	121	3.4	0.324	-1.374
2.1	13.4	2.1	2.0	1.4	0.0040	0.0013	0.053	0.001	0.051	0.005	21.91	35.1	36.5	37.7	38.1	35	3.7	0.272	-1.420
1.0	21.5	2.0	2.1	1.5	0.0043	0.0013	0.066	0.000	0.018	0.003	23.50	47.6	47.4	48.9	49.3	22	4.0	0.224	-1.473
0.5	25.6	2.0	2.1	1.5	0.0035	0.0011	0.035	0.000	0.008	0.003	24.96	53.6	52.9	54.4	54.8	24	4.1	0.195	-1.503
0.6	13.7	2.0	2.1	1.4	0.0039	0.0011	0.048	0.000	0.011	0.003	25.88	47.2	46.5	48.0	47.8	19	3.7	0.194	-1.503
0.9	22.9	2.1	2.1	1.4	0.0027	0.0011	0.013	0.000	0.023	0.005	26.25	32.2	31.8	32.8	33.1	27	3.7	0.218	-1.480
2.0	25.1	2.1	2.1	1.3	0.0035	0.0022	0.036	0.006	0.122	0.015	26.06	12.7	14.9	15.3	14.9	31	4.0	0.242	-1.458
1.6	27.6	2.3	1.8	1.5	0.0031	0.0017	0.023	0.002	0.102	0.014	25.49	10.8	14.0	14.3	13.8	282	3.6	0.255	-1.467
0.5	65.7	2.3	1.8	1.4	0.0017	0.0013	0.002	0.000	0.012	0.005	24.44	34.0	36.0	37.0	37.7	322	3.3	0.247	-1.466
0.3	65.4	2.1	2.0	1.5	0.0030	0.0011	0.020	0.000	0.006	0.003	23.12	47.9	49.7	52.9	54.2	323	3.4	0.215	-1.494
0.4	34.4	2.1	2.0	1.5	0.0025	0.0011	0.010	0.000	0.007	0.003	21.97	44.9	46.7	48.8	50.0	322	3.3	0.206	-1.503
0.8	28.2	2.0	2.0	1.6	0.0019	0.0009	0.003	0.000	0.022	0.004	21.34	31.5	33.5	34.3	34.9	311	3.3	0.205	-1.504
1.1	27.2	2.1	2.1	1.3	0.0067	0.0030	0.223	0.019	0.076	0.019	21.37	14.0	16.4	16.9	16.8	301	3.3	0.200	-1.511
1.1	27.7	2.2	2.0	1.4	0.0057	0.0023	0.153	0.007	0.076	0.017	22.15	10.8	15.5	17.7	17.3	285	3.3	0.185	-1.515
0.4	44.8	1.9	2.2	1.4	0.0045	0.0013	0.077	0.001	0.011	0.005	23.29	32.7	32.7	33.5	33.5	28	3.0	0.201	-1.502
0.2	54.0	2.0	2.1	1.4	0.0033	0.0010	0.028	0.000	0.004	0.003	24.64	42.7	41.8	43.0	42.7	19	2.9	0.167	-1.535
0.3	42.0	1.9	2.2	1.5	0.0032	0.0009	0.024	0.000	0.005	0.003	25.79	40.8	40.1	41.3	41.3	21	2.9	0.151	-1.551
0.3	37.5	2.0	2.1	1.5	0.0037	0.0010	0.042	0.000	0.007	0.004	26.32	30.9	30.3	31.4	32.8	28	2.8	0.159	-1.543
0.9	45.2	2.1	2.1	1.3	0.0034	0.0015	0.032	0.001	0.039	0.009	26.26	16.5	17.1	17.7	19.2	53	2.8	0.178	-1.526
1.3	28.5	2.2	2.0	1.3	0.0008	0.0016	0.000	0.001	0.087	0.014	25.74	7.1	10.0	10.6	8.8	288	2.9	0.182	-1.538
0.5	35.9	2.0	2.0	1.6	0.0019	0.0008	0.003	0.000	0.014	0.004	24.84	27.1	28.6	29.6	29.6	327	3.0	0.224	-1.490
0.4	33.9	2.0	2.1	1.6	0.0024	0.0007	0.009	0.000	0.007	0.003	23.53	43.5	45.5	47.4	48.5	322	3.0	0.176	-1.534
0.3	33.3	2.0	2.1	1.5	0.0021	0.0009	0.005	0.000	0.006	0.003	22.36	43.5	45.5	47.0	47.7	303	3.1	0.163	-1.492
0.4	30.1	2.0	2.1	1.5	0.0016	0.0008	0.001	0.000	0.010	0.004	21.75	35.0	37.3	38.8	39.8	303	3.0	0.163	-1.539
0.8	50.9	2.0	2.1	1.4	0.0074	0.0026	0.285	0.012	0.056	0.019	21.79	13.7	15.8	16.4	15.9	301	3.0	0.159	-1.440
0.9	64.6	1.9	2.2	1.4	0.0095	0.0027	0.498	0.014	0.068	0.020	22.57	9.4	14.7	17.3	17.2	307	2.8	0.160	-1.421
0.6	79.1	1.8	2.2	1.5	0.0046	0.0012	0.081	0.000	0.017	0.005	23.77	32.9	33.0	33.7	34.0	25	2.8	0.173	-1.485
0.0	-78.3	2.0	2.1	1.4	0.0039	0.0013	0.050	0.000	0.001	0.004	25.17	45.5	44.9	46.3	46.1	23	2.6	0.151	-1.452
0.3	-25.1	1.9	2.2	1.4	0.0037	0.0012	0.042	0.000	0.005	0.003	26.39	46.5	45.7	47.2	47.4	18	2.6	0.143	-1.513
0.7	82.0	2.0	2.1	1.4	0.0039	0.0011	0.051	0.000	0.016	0.004	27.05	34.2	33.5	34.7	35.5	24	2.7	0.160	-1.507
1.0	79.0	1.9	2.2	1.4	0.0019	0.0012	0.003	0.000	0.040	0.007	27.01	18.0	18.5	19.0	20.7	38	2.7	0.176	-1.451

STABLE, Deployment 2, Holderness, UK

1.2	63.7	2.2	2.1	1.2	0.0008	0.0019	0.000	0.003	0.078	0.015	26.45	6.2	9.5	9.9	8.4	305	2.7	0.184	-1.471
0.5	69.4	1.9	2.1	1.6	0.0024	0.0007	0.008	0.000	0.013	0.004	25.44	30.1	32.0	33.2	33.6	326	2.9	0.210	-1.456
0.2	78.8	2.0	2.1	1.6	0.0023	0.0008	0.008	0.000	0.004	0.003	23.94	43.7	45.8	47.6	48.6	334	3.0	0.167	-1.542
0.3	78.8	2.0	2.1	1.5	0.0019	0.0009	0.003	0.000	0.005	0.003	22.58	48.2	50.2	52.2	53.2	318	3.0	0.155	-1.554
0.3	58.3	1.9	2.2	1.4	0.0034	0.0011	0.031	0.000	0.007	0.004	21.63	36.8	38.7	40.2	41.3	303	3.0	0.154	-1.555
0.9	85.7	2.0	2.1	1.4	0.0027	0.0011	0.013	0.000	0.034	0.007	21.31	23.0	25.0	25.6	25.9	300	3.0	0.157	-1.552
1.4	77.6	1.9	2.4	1.1	0.0066	0.0091	0.220	0.455	0.204	0.075	21.63	8.6	12.7	13.0	12.0	200	2.9	0.148	-1.556
1.3	82.2	1.9	2.2	1.4	0.0047	0.0016	0.085	0.001	0.057	0.009	22.48	19.4	22.3	23.4	23.2	74	3.1	0.153	-1.552
2.0	83.1	1.9	2.2	1.4	0.0050	0.0015	0.106	0.001	0.043	0.004	23.78	41.4	41.0	42.1	42.3	19	2.9	0.152	-1.552
0.8	94.6	2.0	2.1	1.5	0.0041	0.0012	0.058	0.000	0.013	0.003	25.22	50.3	49.8	51.2	50.6	23	2.9	0.140	-1.563
1.6	77.2	1.9	2.2	1.4	0.0048	0.0014	0.093	0.001	0.031	0.004	26.26	42.8	42.0	43.5	44.2	24	2.9	0.145	-1.557
2.2	83.0	1.9	2.2	1.4	0.0037	0.0011	0.040	0.000	0.060	0.005	26.53	29.5	28.7	29.6	31.4	51	2.9	0.156	-1.511
3.1	75.0	2.0	2.2	1.2	0.0014	0.0017	0.001	0.002	0.166	0.012	26.25	11.6	13.5	13.9	14.2	105	2.9	0.162	-1.527
2.3	79.6	1.9	2.3	1.4	0.0008	0.0012	0.000	0.000	0.110	0.008	25.58	15.6	18.2	18.8	18.1	328	2.9	0.171	-1.524
2.0	88.7	1.9	2.1	1.5	0.0044	0.0009	0.071	0.000	0.046	0.004	24.44	35.3	37.7	39.3	39.7	326	3.0	0.174	-1.522
1.4	81.8	2.0	2.1	1.5	0.0037	0.0010	0.044	0.000	0.029	0.003	22.96	42.7	45.1	47.7	48.5	331	3.0	0.151	-1.549
1.9	84.3	1.9	2.2	1.5	0.0045	0.0010	0.077	0.000	0.039	0.003	21.77	41.9	44.4	46.4	47.3	316	3.0	0.148	-1.547
2.9	82.6	1.9	2.2	1.4	0.0048	0.0012	0.093	0.000	0.090	0.005	21.24	28.1	30.3	31.1	31.4	310	3.0	0.149	-1.544
6.9	82.9	1.8	2.4	1.2	0.0015	0.0043	0.001	0.069	0.510	0.026	21.36	14.6	17.1	17.3	16.2	282	3.0	0.155	-1.516
6.9	81.0	1.9	2.3	1.2	0.0061	0.0031	0.180	0.024	0.370	0.016	22.12	15.8	18.6	19.8	18.9	61	3.1	0.175	-1.530
4.4	81.3	1.8	2.3	1.4	0.0057	0.0019	0.149	0.003	0.121	0.006	23.28	32.5	33.4	34.1	34.1	25	2.7	0.161	-1.528
3.7	83.6	1.8	2.3	1.4	0.0043	0.0018	0.066	0.002	0.068	0.004	24.69	46.6	46.3	48.0	48.8	29	2.8	0.156	-1.544
3.5	82.1	1.8	2.3	1.4	0.0045	0.0018	0.075	0.003	0.070	0.004	25.84	42.4	42.5	43.8	44.3	32	2.8	0.156	-1.546
4.4	82.9	1.8	2.4	1.3	0.0029	0.0018	0.017	0.002	0.109	0.006	26.35	32.1	32.1	33.5	35.2	28	2.6	0.168	-1.533
6.4	84.1	1.9	2.4	1.2	0.0018	0.0021	0.003	0.004	0.245	0.009	26.12	10.8	19.6	20.5	20.9	87	2.6	0.173	-1.529
6.9	83.1	1.7	2.5	1.2	0.0197	0.0041	1.738	0.060	0.341	0.017	25.46	14.7	17.8	17.8	16.1	293	2.7	0.207	-1.498
5.1	88.1	1.8	2.3	1.4	0.0089	0.0020	0.427	0.003	0.127	0.006	24.40	33.5	35.9	37.5	38.1	318	3.0	0.188	-1.523
3.1	87.4	1.9	2.2	1.5	0.0073	0.0017	0.280	0.002	0.054	0.004	22.92	46.7	48.3	52.9	54.1	324	3.0	0.160	-1.551
2.6	87.5	1.9	2.2	1.4	0.0066	0.0015	0.216	0.001	0.049	0.004	21.48	44.3	46.2	49.6	50.5	319	3.3	0.150	-1.559
4.3	87.0	1.9	2.3	1.3	0.0091	0.0022	0.456	0.006	0.108	0.006	20.60	34.6	36.8	38.9	39.7	313	3.3	0.148	-1.562
5.6	87.7	1.9	2.3	1.3	0.0070	0.0041	0.252	0.059	0.258	0.016	20.41	20.6	22.8	23.3	22.8	291	3.3	0.149	-1.561
6.6	80.6	1.8	2.4	1.1	0.0185	0.0060	1.584	0.174	0.503	0.031	20.91	12.4	16.8	17.4	16.6	310	3.3	0.153	-1.552
4.3	83.7	1.7	2.4	1.3	0.0031	0.0029	0.022	0.018	0.146	0.010	21.92	24.2	26.4	27.6	27.6	40	3.2	0.149	-1.554
2.4	92.0	1.8	2.3	1.4	0.0026	0.0018	0.011	0.002	0.050	0.005	23.24	40.9	41.2	42.5	43.1	23	2.9	0.142	-1.560
1.6	87.2	1.8	2.3	1.4	0.0038	0.0016	0.044	0.001	0.029	0.004	24.47	46.0	45.3	46.8	47.3	27	2.9	0.150	-1.552

STABLE, Deployment 2, Holderness, UK

2.2	83.7	1.9	2.3	1.4	0.0042	0.0016	0.061	0.001	0.045	0.004	25.35	39.3	39.1	40.3	41.3	31	2.8	0.159	-1.542
2.7	78.6	1.8	2.3	1.3	0.0026	0.0017	0.011	0.002	0.084	0.007	25.54	25.1	24.7	25.5	26.6	45	2.8	0.174	-1.528
3.8	77.3	1.8	2.5	1.2	0.0031	0.0021	0.023	0.005	0.212	0.014	25.24	10.3	12.5	12.7	12.5	102	2.6	0.183	-1.521
2.6	84.4	2.1	2.1	1.3	0.0043	0.0018	0.066	0.003	0.130	0.011	24.61	15.0	17.0	17.8	17.5	310	3.1	0.192	-1.528
1.2	85.5	2.1	2.0	1.4	0.0032	0.0012	0.026	0.000	0.031	0.005	23.54	32.1	34.3	35.9	36.6	316	3.3	0.173	-1.539
0.6	80.5	2.0	2.1	1.5	0.0028	0.0009	0.015	0.000	0.013	0.003	22.28	41.9	44.4	46.1	46.8	302	3.4	0.155	-1.555
0.6	74.3	2.0	2.1	1.4	0.0042	0.0014	0.062	0.001	0.015	0.005	21.47	35.0	37.3	38.5	39.4	303	3.3	0.145	-1.565
1.4	79.8	2.0	2.2	1.3	0.0031	0.0021	0.023	0.005	0.062	0.011	21.34	20.7	22.2	23.0	22.9	295	3.4	0.139	-1.570
1.5	75.7	2.0	2.3	1.2	0.0083	0.0048	0.372	0.092	0.139	0.034	21.93	10.7	16.2	17.7	17.5	307	3.3	0.135	-1.567
0.9	84.3	1.9	2.2	1.4	0.0039	0.0013	0.051	0.000	0.027	0.005	23.19	31.4	32.0	32.6	33.0	32	3.2	0.156	-1.549
0.5	91.5	2.0	2.1	1.5	0.0034	0.0012	0.032	0.000	0.011	0.004	24.54	42.9	42.5	43.5	43.5	23	3.1	0.167	-1.537
0.4	78.7	2.0	2.2	1.4	0.0045	0.0012	0.079	0.000	0.007	0.003	25.82	44.7	43.8	45.1	44.7	20	3.3	0.167	-1.532
0.4	69.3	1.9	2.2	1.5	0.0032	0.0009	0.025	0.000	0.009	0.003	26.62	39.3	38.6	39.8	39.2	22	3.2	0.177	-1.525
0.5	79.8	1.9	2.2	1.4	0.0027	0.0010	0.013	0.000	0.018	0.006	26.85	21.0	20.9	21.7	22.9	36	3.0	0.198	-1.507
1.1	52.4	2.1	2.2	1.1	0.0009	0.0010	0.000	0.000	0.067	0.010	26.47	6.6	9.5	9.9	9.6	188	3.1	0.196	-1.525
0.4	44.8	1.9	2.1	1.6	0.0018	0.0007	0.003	0.000	0.017	0.005	25.75	18.8	20.7	21.9	22.0	218	2.9	0.229	-1.494
0.1	26.2	2.0	2.0	1.6	0.0025	0.0009	0.009	0.000	0.003	0.004	24.54	33.3	35.6	37.1	37.6	330	3.4	0.230	-1.479
0.1	111.5	2.0	2.0	1.5	0.0025	0.0009	0.010	0.000	0.001	0.003	23.24	46.9	49.0	51.1	51.4	317	3.4	0.173	-1.532
0.2	91.1	1.9	2.1	1.5	0.0020	0.0007	0.004	0.000	0.003	0.003	22.19	45.0	47.6	49.4	50.1	324	3.5	0.155	-1.552
0.2	85.9	2.0	2.1	1.4	0.0022	0.0010	0.006	0.000	0.006	0.005	21.65	30.6	32.5	33.5	34.1	300	3.5	0.147	-1.562
0.8	76.6	1.9	2.3	1.3	0.0053	0.0028	0.123	0.016	0.070	0.025	21.79	11.8	13.6	13.9	12.9	310	3.3	0.141	-1.565
0.6	71.8	2.0	2.2	1.4	0.0061	0.0022	0.179	0.006	0.036	0.015	22.45	12.4	15.4	17.3	16.8	271	3.4	0.146	-1.557
0.4	110.3	1.9	2.2	1.4	0.0033	0.0012	0.029	0.000	0.009	0.005	23.52	35.3	34.7	35.2	34.0	29	2.9	0.180	-1.525
0.4	79.4	1.9	2.3	1.4	0.0026	0.0013	0.012	0.000	0.008	0.004	24.80	43.4	42.8	44.0	42.7	21	2.8	0.166	-1.537
0.6	97.9	2.0	2.1	1.4	0.0037	0.0014	0.041	0.001	0.013	0.004	25.77	38.4	37.7	38.9	39.1	28	2.9	0.157	-1.544
0.7	99.9	2.0	2.1	1.4	0.0049	0.0013	0.101	0.000	0.018	0.005	26.25	29.9	29.3	30.3	31.0	28	2.8	0.160	-1.541
1.4	81.2	1.9	2.3	1.3	0.0020	0.0011	0.004	0.000	0.057	0.007	26.13	16.1	16.7	17.6	18.7	38	2.8	0.166	-1.537
1.7	70.6	2.0	2.3	1.2	0.0015	0.0017	0.001	0.002	0.110	0.014	25.61	7.4	9.5	10.1	8.2	232	2.8	0.169	-1.545
0.9	82.3	1.9	2.1	1.5	0.0039	0.0008	0.048	0.000	0.028	0.005	24.80	25.8	27.6	28.7	29.2	334	2.7	0.208	-1.504
0.6	97.9	2.0	2.1	1.5	0.0029	0.0008	0.017	0.000	0.012	0.003	23.58	37.6	39.7	40.9	41.6	318	2.7	0.176	-1.501
0.8	93.4	1.9	2.1	1.5	0.0028	0.0009	0.016	0.000	0.016	0.003	22.54	40.7	42.9	44.2	45.0	311	2.8	0.161	-1.548
0.6	81.3	2.0	2.1	1.4	0.0028	0.0010	0.015	0.000	0.018	0.005	22.02	31.2	32.9	33.7	34.6	288	2.8	0.158	-1.551
1.6	82.7	1.9	2.3	1.3	0.0055	0.0022	0.136	0.006	0.096	0.015	22.02	15.5	17.0	17.8	17.3	282	2.8	0.150	-1.558
1.6	80.3	2.0	2.3	1.2	0.0103	0.0057	0.580	0.148	0.171	0.041	22.63	8.5	13.4	14.8	14.7	299	2.7	0.153	-1.553
0.9	89.1	1.8	2.3	1.4	0.0047	0.0016	0.090	0.002	0.032	0.007	23.63	25.2	25.9	26.7	26.4	25	2.7	0.194	-1.516

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0.6	78.4	1.9	2.2	1.4	0.0040	0.0013	0.055	0.000	0.013	0.004	24.80	38.0	37.4	38.1	38.3	15	2.5	0.175	-1.530
0.8	99.2	2.0	2.1	1.4	0.0038	0.0013	0.047	0.000	0.016	0.004	25.93	42.6	41.9	43.0	43.2	21	2.6	0.155	-1.549
1.6	82.8	1.9	2.2	1.4	0.0046	0.0013	0.081	0.000	0.041	0.005	26.53	29.7	29.2	30.2	31.5	31	2.7	0.166	-1.538
1.7	82.8	1.9	2.3	1.3	0.0011	0.0011	0.000	0.000	0.064	0.007	26.49	18.4	18.7	19.6	21.1	41	2.6	0.164	-1.542
2.2	74.7	2.1	2.2	1.2	0.0014	0.0017	0.001	0.002	0.132	0.013	25.96	7.3	9.6	9.7	8.4	231	2.6	0.182	-1.550
1.2	83.4	1.9	2.2	1.5	0.0035	0.0008	0.036	0.000	0.037	0.005	25.13	26.2	27.6	28.5	28.7	327	2.7	0.208	-1.508
0.8	76.9	1.9	2.1	1.5	0.0027	0.0008	0.013	0.000	0.016	0.003	23.92	39.5	42.0	43.6	44.6	321	2.8	0.170	-1.541
0.7	86.3	2.0	2.1	1.5	0.0030	0.0009	0.019	0.000	0.013	0.003	22.71	42.2	44.5	45.8	46.8	321	2.8	0.156	-1.553
0.8	82.4	1.9	2.2	1.5	0.0028	0.0008	0.016	0.000	0.018	0.003	21.86	36.2	38.5	39.4	40.3	320	2.8	0.150	-1.560
1.5	86.5	1.9	2.2	1.4	0.0031	0.0013	0.022	0.000	0.056	0.007	21.59	24.9	26.5	27.2	27.6	302	2.7	0.149	-1.561
2.7	83.9	1.8	2.4	1.1	0.0097	0.0083	0.512	0.370	0.395	0.070	21.83	8.8	11.6	12.0	10.9	267	2.7	0.144	-1.559
2.1	82.3	1.9	2.3	1.3	0.0028	0.0019	0.017	0.003	0.108	0.012	22.52	16.1	18.5	19.3	19.1	264	2.7	0.160	-1.548
1.6	83.2	1.9	2.2	1.4	0.0046	0.0014	0.085	0.001	0.047	0.006	23.48	31.2	30.7	31.5	31.1	21	2.7	0.175	-1.531
0.9	89.8	1.9	2.2	1.4	0.0029	0.0013	0.018	0.001	0.020	0.004	24.54	38.7	38.2	39.3	39.3	25	2.7	0.156	-1.548
1.3	86.6	1.9	2.2	1.4	0.0057	0.0014	0.150	0.001	0.032	0.005	25.35	35.0	34.4	35.5	36.0	26	2.7	0.151	-1.553
1.7	83.0	1.8	2.3	1.4	0.0045	0.0014	0.075	0.001	0.058	0.007	25.58	24.5	24.1	25.1	26.5	36	2.7	0.159	-1.547
2.5	81.0	1.9	2.3	1.2	0.0031	0.0019	0.024	0.003	0.150	0.014	25.35	12.7	13.9	14.7	15.4	70	2.8	0.158	-1.550
2.6	82.8	1.8	2.4	1.3	0.0046	0.0021	0.084	0.005	0.200	0.018	24.83	10.7	12.7	13.1	11.6	267	2.8	0.183	-1.536
1.8	86.1	1.9	2.2	1.5	0.0041	0.0010	0.056	0.000	0.061	0.006	23.97	25.9	27.5	28.2	28.6	316	2.8	0.217	-1.499
1.7	86.3	1.9	2.2	1.5	0.0041	0.0010	0.056	0.000	0.044	0.004	22.83	34.4	36.3	37.4	38.1	309	2.8	0.164	-1.548
1.8	85.9	1.9	2.2	1.5	0.0044	0.0011	0.071	0.000	0.046	0.004	21.96	33.9	36.1	37.2	38.1	315	2.8	0.154	-1.556
2.1	83.6	1.9	2.2	1.4	0.0046	0.0012	0.082	0.000	0.076	0.007	21.64	24.2	25.5	26.4	26.5	302	2.9	0.147	-1.563
2.9	81.6	2.0	2.3	1.1	0.0071	0.0043	0.259	0.070	0.251	0.030	21.91	10.4	13.4	13.5	12.6	250	2.9	0.144	-1.564
2.2	80.7	1.9	2.2	1.4	0.0043	0.0019	0.066	0.003	0.106	0.011	22.79	16.7	19.4	20.9	20.5	118	2.8	0.166	-1.542
1.3	82.4	1.8	2.3	1.4	0.0043	0.0013	0.068	0.000	0.036	0.005	23.83	32.2	31.8	32.5	32.2	23	2.8	0.171	-1.535
1.2	88.7	1.9	2.2	1.5	0.0041	0.0013	0.059	0.001	0.029	0.005	24.90	37.5	36.8	37.6	38.0	27	2.6	0.165	-1.539
1.1	81.3	2.0	2.2	1.4	0.0044	0.0014	0.073	0.001	0.027	0.005	25.72	34.7	34.0	35.0	35.4	27	2.7	0.167	-1.537
1.3	78.4	2.0	2.2	1.4	0.0029	0.0013	0.017	0.001	0.043	0.006	26.10	26.2	25.4	26.3	27.8	25	2.7	0.165	-1.540
2.3	82.1	1.9	2.3	1.3	0.0017	0.0020	0.002	0.004	0.159	0.016	25.90	11.5	12.9	13.6	13.9	84	2.6	0.166	-1.543
2.2	80.6	2.0	2.2	1.3	0.0056	0.0025	0.144	0.010	0.164	0.020	25.35	10.3	12.3	12.8	11.3	254	2.6	0.186	-1.538
1.4	81.9	1.9	2.2	1.5	0.0023	0.0009	0.007	0.000	0.049	0.006	24.55	24.2	25.9	27.0	27.4	325	2.8	0.218	-1.501
1.0	85.6	1.9	2.2	1.5	0.0038	0.0009	0.044	0.000	0.024	0.004	23.47	36.6	38.6	39.7	40.5	319	2.7	0.173	-1.539
1.0	85.9	1.9	2.1	1.5	0.0029	0.0009	0.019	0.000	0.023	0.004	22.54	38.4	40.8	41.7	42.7	303	2.7	0.155	-1.555
0.9	87.3	1.9	2.1	1.5	0.0033	0.0010	0.027	0.000	0.024	0.005	22.00	31.1	32.9	33.9	34.8	299	2.8	0.147	-1.563
1.9	78.6	2.0	2.2	1.2	0.0046	0.0025	0.082	0.010	0.111	0.015	22.02	16.1	17.7	18.1	17.9	301	2.7	0.144	-1.567

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2.7	84.6	1.8	2.4	1.2	0.0104	0.0044	0.592	0.074	0.251	0.032	22.46	10.0	14.7	15.5	15.0	262	2.7	0.155	-1.553
1.7	84.2	1.8	2.3	1.4	0.0052	0.0015	0.117	0.001	0.068	0.008	23.28	21.3	23.3	23.8	23.9	93	2.7	0.174	-1.534
1.0	82.2	1.9	2.2	1.4	0.0044	0.0013	0.073	0.000	0.029	0.005	24.22	32.4	31.7	32.4	32.0	21	2.7	0.173	-1.533
0.8	84.1	1.9	2.2	1.4	0.0040	0.0014	0.054	0.001	0.022	0.005	25.08	33.2	32.5	33.2	32.9	28	2.8	0.161	-1.544
0.9	87.5	1.9	2.2	1.4	0.0036	0.0014	0.039	0.001	0.028	0.006	25.60	28.0	27.4	28.2	28.8	31	3.1	0.171	-1.534
1.8	84.5	1.8	2.4	1.3	0.0029	0.0016	0.018	0.002	0.093	0.011	25.60	15.7	16.0	16.8	17.8	43	2.9	0.191	-1.517
2.2	83.8	1.8	2.5	1.1	0.0013	0.0034	0.000	0.030	0.228	0.032	25.20	5.1	7.6	7.7	6.9	210	2.9	0.180	-1.549
1.6	87.3	1.8	2.3	1.4	0.0027	0.0009	0.013	0.000	0.068	0.007	24.58	19.0	20.4	21.1	20.9	330	2.4	0.186	-1.532
1.1	88.0	1.9	2.2	1.5	0.0041	0.0009	0.060	0.000	0.032	0.005	23.67	27.8	29.5	30.3	30.9	324	3.0	0.212	-1.505
1.1	85.1	1.9	2.2	1.4	0.0039	0.0010	0.048	0.000	0.030	0.005	22.76	31.5	33.1	33.8	34.5	302	3.0	0.181	-1.532
0.8	72.9	1.9	2.2	1.4	0.0023	0.0010	0.007	0.000	0.026	0.005	22.18	28.0	29.6	30.3	31.3	301	3.2	0.155	-1.556
1.0	79.5	2.0	2.1	1.3	0.0035	0.0019	0.034	0.003	0.050	0.012	22.07	18.1	19.4	20.1	20.0	297	3.4	0.145	-1.567
2.1	82.0	2.1	2.2	1.2	0.0108	0.0055	0.637	0.137	0.192	0.036	22.39	11.5	14.3	14.6	13.9	255	2.9	0.139	-1.567
1.1	82.7	2.0	2.1	1.5	0.0041	0.0021	0.059	0.005	0.053	0.012	23.12	15.3	18.1	20.0	19.7	128	3.2	0.138	-1.566
0.7	90.5	1.9	2.2	1.4	0.0050	0.0014	0.102	0.001	0.023	0.006	23.97	29.8	29.9	30.5	30.5	22	3.5	0.149	-1.555
0.6	86.2	1.9	2.2	1.4	0.0043	0.0013	0.068	0.000	0.014	0.005	24.84	34.6	34.3	34.8	34.6	22	3.5	0.154	-1.550
0.7	82.3	1.9	2.1	1.5	0.0040	0.0010	0.054	0.000	0.021	0.005	25.48	29.2	28.4	29.5	29.4	22	3.4	0.168	-1.535
0.8	83.1	1.9	2.2	1.4	0.0047	0.0015	0.085	0.001	0.033	0.009	25.67	19.8	19.6	20.3	20.5	31	3.2	0.183	-1.521
0.9	81.5	1.9	2.2	1.3	0.0027	0.0018	0.014	0.002	0.066	0.017	25.56	8.6	10.5	10.9	11.5	59	3.0	0.164	-1.541
1.0	81.6	1.9	2.3	1.3	0.0024	0.0022	0.008	0.005	0.087	0.021	25.05	7.4	10.3	10.5	9.4	284	2.7	0.160	-1.557
0.4	89.1	2.0	1.9	1.6	0.0014	0.0010	0.001	0.000	0.015	0.006	24.29	22.7	24.1	24.7	24.9	328	2.9	0.174	-1.543
0.3	89.1	2.1	1.8	1.7	0.0025	0.0012	0.010	0.000	0.008	0.005	23.43	29.6	31.3	32.4	33.2	305	3.1	0.180	-1.533
0.3	91.7	2.1	1.8	1.7	0.0021	0.0013	0.005	0.000	0.008	0.005	22.80	30.6	32.2	32.8	33.8	292	3.2	0.173	-1.539
0.4	89.4	2.1	2.0	1.5	0.0018	0.0010	0.003	0.000	0.015	0.006	22.53	23.4	24.9	25.7	25.8	299	3.2	0.157	-1.554
1.0	83.7	1.9	2.3	1.3	0.0031	0.0027	0.022	0.013	0.089	0.025	22.68	9.4	12.1	12.5	11.5	246	3.2	0.141	-1.568
0.9	86.3	1.9	2.3	1.3	0.0053	0.0033	0.123	0.029	0.086	0.030	23.19	5.9	10.7	12.4	12.0	298	3.2	0.133	-1.570
0.8	81.3	1.9	2.2	1.5	0.0042	0.0013	0.064	0.000	0.034	0.008	23.86	20.4	22.0	22.7	22.6	220	3.1	0.156	-1.553
0.8	83.2	1.9	2.2	1.4	0.0052	0.0015	0.116	0.001	0.027	0.007	24.60	26.6	26.4	27.1	26.6	22	3.1	0.173	-1.534
1.0	81.4	1.9	2.2	1.4	0.0039	0.0012	0.049	0.000	0.032	0.006	25.22	26.8	26.1	26.7	26.2	25	2.9	0.167	-1.538
1.2	79.7	1.9	2.3	1.4	0.0049	0.0014	0.099	0.001	0.047	0.008	25.52	20.7	20.7	21.4	22.0	36	2.9	0.175	-1.532
1.7	81.5	1.8	2.4	1.3	0.0009	0.0014	0.000	0.001	0.106	0.012	25.45	11.8	13.1	13.7	14.6	73	2.9	0.171	-1.537
1.7	79.4	1.9	2.3	1.2	0.0020	0.0023	0.004	0.007	0.156	0.023	25.14	5.1	8.1	8.1	7.1	223	3.0	0.183	-1.554
1.4	81.1	1.7	2.3	1.5	0.0016	0.0011	0.001	0.000	0.071	0.009	24.57	16.3	17.7	18.5	18.1	326	3.0	0.200	-1.521
1.4	82.4	1.8	2.2	1.5	0.0043	0.0009	0.069	0.000	0.053	0.006	23.82	23.3	24.8	25.5	25.6	316	3.0	0.215	-1.504
1.7	80.2	1.8	2.2	1.5	0.0037	0.0009	0.042	0.000	0.053	0.005	23.17	27.8	29.6	30.5	31.0	315	3.3	0.198	-1.518

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2.2	79.3	1.9	2.2	1.4	0.0040	0.0012	0.054	0.000	0.081	0.007	22.85	24.9	26.1	26.7	27.0	285	3.3	0.166	-1.548
3.5	83.0	1.8	2.4	1.2	0.0102	0.0028	0.575	0.016	0.208	0.016	22.84	16.6	18.0	18.5	18.2	267	3.3	0.161	-1.555
5.2	81.5	1.8	2.5	0.9	0.0180	0.0062	1.517	0.185	0.536	0.043	23.15	10.8	13.6	13.7	12.7	241	3.1	0.189	-1.536
5.9	82.8	1.7	2.5	1.1	0.0088	0.0034	0.422	0.031	0.424	0.022	23.64	13.1	15.2	15.9	15.4	198	3.3	0.274	-1.457
6.3	83.3	1.9	2.4	1.2	0.0035	0.0027	0.034	0.014	0.290	0.013	24.32	20.4	21.1	21.3	20.7	23	3.0	0.230	-1.484
5.0	84.0	1.9	2.4	1.2	0.0029	0.0020	0.019	0.004	0.205	0.010	24.93	21.1	21.3	21.8	21.6	35	3.9	0.213	-1.497
6.7	82.7	1.8	2.4	1.3	0.0026	0.0018	0.012	0.002	0.266	0.009	25.33	19.2	20.1	21.0	21.9	68	3.6	0.216	-1.496
6.1	81.3	1.9	2.4	1.2	0.0031	0.0019	0.023	0.003	0.315	0.012	25.34	14.9	15.8	16.1	16.0	129	3.2	0.200	-1.515
6.8	81.1	1.8	2.5	1.0	0.0029	0.0031	0.018	0.022	0.492	0.021	25.09	9.8	11.3	11.4	10.9	167	3.3	0.203	-1.523
6.8	82.4	1.8	2.4	1.3	0.0177	0.0029	1.478	0.018	0.426	0.018	24.64	14.1	15.8	15.8	14.0	326	3.3	0.311	-1.420
6.6	86.1	1.8	2.3	1.3	0.0037	0.0022	0.042	0.006	0.282	0.011	23.97	20.1	21.8	22.7	22.1	301	2.8	0.253	-1.467
7.0	88.0	1.9	2.3	1.3	0.0043	0.0027	0.066	0.013	0.253	0.010	23.32	25.1	26.9	27.9	27.6	312	3.2	0.206	-1.511
9.2	86.4	1.8	2.4	1.3	0.0069	0.0031	0.245	0.022	0.334	0.011	22.89	26.3	27.7	28.6	28.2	314	3.1	0.212	-1.509
10.4	86.8	1.9	2.3	1.1	0.0095	0.0039	0.491	0.051	0.458	0.014	22.79	22.4	23.7	24.2	23.6	302	3.2	0.183	-1.533
13.7	84.7	1.8	2.5	1.1	0.0197	0.0045	1.740	0.079	0.694	0.018	22.95	19.9	21.5	21.5	21.0	290	3.3	0.211	-1.511
12.5	82.3	1.8	2.4	1.2	0.0344	0.0044	3.472	0.071	0.732	0.020	23.29	16.8	18.1	18.5	18.2	172	3.3	0.236	-1.497
13.7	83.4	1.9	2.4	1.1	0.0163	0.0039	1.301	0.049	0.650	0.016	23.75	18.9	19.8	20.3	20.1	114	3.4	0.324	-1.412
13.1	83.2	1.9	2.4	1.1	0.0031	0.0034	0.022	0.032	0.525	0.012	24.30	20.5	21.1	21.6	21.5	153	3.3	0.231	-1.484
10.2	82.4	1.8	2.4	1.2	0.0015	0.0028	0.001	0.016	0.376	0.010	24.79	21.9	22.9	23.4	23.8	113	3.2	0.198	-1.511
10.2	84.0	1.9	2.4	1.1	0.0027	0.0029	0.013	0.018	0.377	0.010	25.03	21.7	22.5	23.2	23.9	62	3.3	0.196	-1.514
10.9	85.6	1.9	2.5	1.0	0.0016	0.0037	0.001	0.041	0.448	0.013	25.01	19.2	19.9	20.5	20.7	142	3.4	0.200	-1.515
10.1	82.0	1.8	2.5	1.0	0.0073	0.0040	0.274	0.052	0.561	0.018	24.76	14.2	15.4	15.4	15.2	242	3.3	0.217	-1.505
13.6	84.3	1.9	2.4	1.2	0.0254	0.0043	2.433	0.067	0.659	0.017	24.28	19.4	20.0	20.4	19.3	268	3.2	0.319	-1.409
10.1	84.3	1.8	2.4	1.2	0.0067	0.0034	0.226	0.031	0.412	0.013	23.65	22.5	23.6	24.3	23.5	297	3.2	0.254	-1.467
10.9	87.4	1.9	2.3	1.3	0.0012	0.0034	0.000	0.032	0.443	0.013	23.14	23.1	24.4	25.4	24.7	296	3.5	0.245	-1.475
11.9	86.4	1.8	2.4	1.2	0.0051	0.0037	0.110	0.040	0.490	0.013	22.83	23.4	24.7	25.2	24.6	309	3.6	0.213	-1.506
11.0	83.4	1.8	2.5	1.2	0.0032	0.0042	0.024	0.061	0.560	0.017	22.81	20.2	21.6	21.9	21.1	290	3.5	0.191	-1.525
13.5	83.4	1.8	2.4	1.1	0.0279	0.0046	2.738	0.085	0.748	0.020	23.04	17.9	19.4	19.5	19.3	290	3.5	0.215	-1.509
11.3	85.6	1.9	2.4	1.0	0.0188	0.0050	1.624	0.105	0.602	0.020	23.45	17.1	18.7	19.0	18.5	174	3.4	0.252	-1.474
13.3	84.8	1.8	2.5	1.0	0.0048	0.0036	0.096	0.037	0.542	0.013	24.00	20.7	21.1	21.5	21.2	121	3.0	0.243	-1.473
11.4	84.3	1.9	2.4	1.1	0.0017	0.0027	0.002	0.013	0.425	0.010	24.53	21.9	22.1	22.5	22.8	87	3.7	0.224	-1.488
9.2	85.0	1.8	2.4	1.1	0.0023	0.0026	0.008	0.013	0.330	0.010	24.89	22.4	23.1	24.0	24.7	75	3.4	0.208	-1.502
9.9	83.2	1.8	2.5	1.1	0.0017	0.0035	0.002	0.034	0.376	0.012	25.00	21.1	21.9	22.4	22.8	137	3.3	0.210	-1.503
9.7	83.4	1.8	2.5	1.1	0.0057	0.0035	0.150	0.035	0.495	0.016	24.87	15.2	16.0	16.3	16.1	142	3.2	0.221	-1.497
10.7	82.8	1.9	2.4	1.2	0.0218	0.0040	1.995	0.054	0.631	0.020	24.52	15.1	16.2	16.3	15.7	224	3.1	0.284	-1.443

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11.4	85.2	1.7	2.5	1.2	0.0233	0.0034	2.185	0.033	0.527	0.014	24.00	19.7	21.0	21.2	20.3	254	3.0	0.345	-1.390
9.8	86.5	1.8	2.5	1.2	0.0016	0.0034	0.001	0.032	0.427	0.013	23.47	21.7	23.4	23.6	23.0	296	3.0	0.337	-1.391
11.0	86.0	1.7	2.5	1.2	0.0042	0.0034	0.061	0.033	0.483	0.014	23.11	21.9	23.4	24.0	23.5	287	2.9	0.270	-1.453
10.9	84.4	1.7	2.5	1.2	0.0028	0.0043	0.016	0.068	0.494	0.016	22.94	21.9	23.3	23.9	23.1	285	3.0	0.218	-1.502
12.1	85.1	1.8	2.5	1.1	0.0135	0.0049	0.965	0.098	0.678	0.021	23.01	17.8	19.5	19.6	18.9	300	3.0	0.228	-1.493
13.6	86.9	1.7	2.5	1.2	0.0420	0.0054	4.261	0.133	0.700	0.020	23.25	19.1	21.1	21.1	20.9	266	3.0	0.232	-1.493
12.9	87.2	1.8	2.5	1.0	0.0158	0.0049	1.242	0.098	0.608	0.017	23.67	18.8	20.5	20.6	20.7	188	3.0	0.276	-1.453
12.7	86.0	1.8	2.5	1.1	0.0058	0.0035	0.155	0.035	0.580	0.014	24.14	18.3	19.2	19.6	19.3	181	2.6	0.264	-1.452
13.0	85.9	1.7	2.5	1.1	0.0001	0.0030	0.000	0.019	0.510	0.011	24.59	20.0	20.9	21.5	21.9	94	3.3	0.252	-1.462
10.2	84.9	1.8	2.5	1.1	0.0010	0.0027	0.000	0.013	0.402	0.011	24.82	19.9	20.7	21.4	21.8	78	3.3	0.235	-1.479
12.5	84.4	1.8	2.4	1.1	0.0016	0.0031	0.002	0.023	0.510	0.012	24.86	19.0	19.8	20.5	20.4	146	3.3	0.237	-1.480
10.5	86.4	1.8	2.5	0.9	0.0060	0.0047	0.169	0.089	0.540	0.019	24.66	15.5	16.8	16.5	16.2	230	3.2	0.289	-1.441
14.7	86.6	1.8	2.4	1.1	0.0275	0.0045	2.692	0.076	0.689	0.017	24.26	19.7	20.6	21.0	20.3	240	3.3	0.425	-1.311
11.8	85.3	1.8	2.4	1.2	0.0114	0.0033	0.710	0.028	0.537	0.014	23.72	20.7	22.0	22.5	21.7	310	3.0	0.332	-1.397
10.8	87.8	1.8	2.4	1.2	0.0058	0.0053	0.155	0.125	0.472	0.017	23.24	19.4	23.0	23.7	23.1	307	3.2	0.326	-1.402
10.8	88.0	1.8	2.4	1.3	0.0014	0.0055	0.001	0.136	0.471	0.017	22.91	20.9	24.1	24.8	24.1	287	3.2	0.255	-1.467
11.2	88.0	1.8	2.4	1.3	0.0039	0.0057	0.052	0.152	0.535	0.019	22.80	19.9	22.8	23.1	22.4	243	3.2	0.224	-1.495
12.6	85.4	1.9	2.4	1.1	0.0169	0.0045	1.381	0.079	0.703	0.020	22.92	16.2	19.6	19.7	19.1	253	3.2	0.205	-1.515
14.4	85.7	1.8	2.4	1.2	0.0403	0.0053	4.087	0.125	0.743	0.020	23.22	17.0	20.4	20.8	20.4	224	3.2	0.234	-1.498
15.6	86.2	1.8	2.5	1.1	0.0137	0.0036	0.988	0.037	0.680	0.014	23.66	17.7	21.2	21.7	21.6	180	3.2	0.211	-1.505
13.3	85.6	1.8	2.4	1.1	0.0043	0.0033	0.069	0.030	0.550	0.013	24.11	18.3	20.6	21.1	21.2	90	3.1	0.192	-1.520
11.7	84.9	1.8	2.5	1.1	0.0014	0.0031	0.001	0.023	0.462	0.012	24.50	19.0	21.1	21.6	21.5	134	3.4	0.195	-1.516
9.7	85.5	1.7	2.5	1.1	0.0018	0.0038	0.002	0.045	0.397	0.013	24.67	18.1	19.9	20.5	20.7	111	3.4	0.221	-1.496
13.5	86.0	1.8	2.5	1.0	0.0049	0.0034	0.101	0.033	0.584	0.013	24.65	17.4	18.9	19.2	18.9	197	3.4	0.227	-1.490
12.3	85.3	1.9	2.4	1.1	0.0168	0.0043	1.367	0.065	0.646	0.018	24.41	15.4	17.6	17.6	17.1	262	3.2	0.252	-1.470
10.6	86.2	1.8	2.4	1.1	0.0269	0.0055	2.618	0.134	0.504	0.019	23.99	18.9	20.8	21.0	20.1	278	3.3	0.229	-1.492
9.2	88.3	1.9	2.3	1.2	0.0041	0.0039	0.057	0.050	0.354	0.013	23.52	23.4	25.0	25.7	24.9	314	3.4	0.198	-1.519
8.1	87.6	1.9	2.3	1.2	0.0062	0.0034	0.188	0.032	0.296	0.011	23.10	25.2	27.0	28.0	27.4	315	3.5	0.166	-1.550
8.2	86.4	1.9	2.4	1.2	0.0055	0.0037	0.136	0.040	0.317	0.012	22.83	24.1	26.1	27.2	26.8	294	3.5	0.151	-1.564
9.9	86.6	1.9	2.4	1.1	0.0059	0.0038	0.167	0.046	0.424	0.014	22.79	22.8	24.8	25.1	24.7	278	3.5	0.147	-1.568
10.1	83.6	2.0	2.3	1.1	0.0107	0.0055	0.629	0.140	0.576	0.022	22.97	16.4	18.5	18.6	18.1	309	3.4	0.155	-1.560
10.8	82.6	2.0	2.3	1.1	0.0233	0.0052	2.178	0.116	0.705	0.025	23.33	14.3	16.6	16.7	16.2	204	3.4	0.170	-1.544
9.4	78.4	2.0	2.3	1.0	0.0110	0.0053	0.656	0.125	0.586	0.024	23.78	14.7	16.8	17.1	16.5	193	3.2	0.187	-1.525
10.1	72.8	2.0	2.3	1.0	0.0076	0.0037	0.305	0.043	0.523	0.017	24.25	16.7	18.4	18.5	18.1	127	3.8	0.206	-1.506
10.5	71.2	2.0	2.4	1.0	0.0046	0.0031	0.083	0.022	0.489	0.014	24.59	17.9	19.0	19.3	19.1	161	3.8	0.215	-1.497

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9.8	68.6	2.0	2.4	0.9	0.0031	0.0037	0.024	0.040	0.462	0.015	24.71	16.7	17.9	18.4	18.3	103	3.8	0.214	-1.500
9.9	71.9	2.1	2.3	1.0	0.0038	0.0046	0.047	0.085	0.560	0.020	24.63	14.6	16.1	15.8	15.8	180	3.8	0.224	-1.494
9.1	81.4	2.2	2.1	1.0	0.0151	0.0067	1.163	0.230	0.510	0.024	24.34	15.3	16.8	16.8	16.1	201	3.4	0.217	-1.505
6.9	84.8	2.2	2.1	1.1	0.0106	0.0058	0.614	0.158	0.289	0.017	23.87	19.8	21.6	21.9	20.7	299	3.4	0.207	-1.509
6.2	84.4	2.2	2.1	1.2	0.0041	0.0036	0.058	0.039	0.199	0.010	23.33	26.9	28.8	29.6	29.1	319	3.4	0.199	-1.517
6.4	85.7	2.1	2.2	1.2	0.0072	0.0039	0.269	0.048	0.204	0.010	22.90	28.0	30.0	30.9	31.0	321	3.5	0.199	-1.518
7.1	84.6	2.1	2.2	1.1	0.0068	0.0041	0.239	0.058	0.275	0.013	22.67	23.8	25.3	26.0	25.4	294	3.5	0.206	-1.511
8.2	85.8	2.1	2.3	1.0	0.0137	0.0080	0.987	0.342	0.525	0.030	22.64	14.9	17.2	17.3	16.6	277	3.4	0.218	-1.504
11.1	76.7	1.8	2.4	1.1	0.0327	0.0050	3.284	0.103	0.688	0.023	22.89	15.4	17.9	18.2	17.7	215	3.5	0.278	-1.453
10.5	78.2	1.8	2.4	1.1	0.0145	0.0040	1.080	0.052	0.579	0.018	23.36	16.0	18.2	18.6	18.5	217	3.5	0.273	-1.445
9.2	79.7	1.9	2.4	1.1	0.0027	0.0027	0.014	0.014	0.400	0.012	23.93	18.9	20.3	20.5	20.7	77	3.3	0.282	-1.433
7.2	75.7	1.8	2.4	1.2	0.0011	0.0024	0.000	0.008	0.262	0.009	24.44	22.7	23.9	24.6	25.1	121	2.9	0.232	-1.480
6.1	75.6	1.8	2.4	1.2	0.0029	0.0023	0.018	0.007	0.244	0.010	24.76	19.9	21.3	21.7	22.0	44	2.9	0.228	-1.484
8.1	79.9	1.8	2.5	1.1	0.0012	0.0024	0.000	0.008	0.353	0.011	24.81	17.3	18.7	19.2	19.5	138	2.8	0.233	-1.481
8.0	75.6	1.9	2.4	1.1	0.0022	0.0033	0.006	0.027	0.464	0.018	24.59	11.8	13.7	13.9	13.4	169	2.9	0.234	-1.493
8.0	76.8	1.8	2.4	1.2	0.0179	0.0038	1.512	0.044	0.465	0.019	24.13	14.2	16.0	15.7	14.6	162	2.9	0.286	-1.445
6.0	78.1	1.8	2.4	1.2	0.0024	0.0024	0.009	0.009	0.264	0.011	23.56	18.9	20.7	21.5	20.9	300	2.9	0.276	-1.450
6.6	79.0	1.8	2.4	1.2	0.0026	0.0022	0.012	0.006	0.264	0.010	23.00	21.9	23.6	24.5	24.0	310	2.8	0.260	-1.462
5.8	76.6	1.8	2.4	1.2	0.0039	0.0024	0.049	0.008	0.257	0.011	22.62	20.4	22.2	22.9	22.8	306	2.8	0.237	-1.485
7.4	77.7	1.8	2.4	1.2	0.0083	0.0032	0.372	0.024	0.390	0.016	22.48	17.5	19.4	20.1	19.5	303	3.0	0.214	-1.506
7.7	78.8	1.8	2.6	0.9	0.0120	0.0052	0.776	0.117	0.649	0.032	22.65	11.8	14.7	14.8	14.3	278	2.9	0.256	-1.474
7.2	80.7	1.8	2.5	1.1	0.0118	0.0042	0.756	0.064	0.539	0.026	23.02	11.6	14.9	15.4	15.1	174	2.9	0.363	-1.381
6.1	81.9	1.8	2.4	1.2	0.0067	0.0025	0.222	0.010	0.342	0.015	23.53	15.3	17.6	17.9	17.1	109	3.0	0.348	-1.372
4.6	81.7	1.7	2.4	1.3	0.0026	0.0022	0.013	0.006	0.211	0.011	24.08	18.3	19.5	19.9	19.4	54	2.9	0.327	-1.388
4.3	82.3	1.8	2.4	1.3	0.0012	0.0016	0.000	0.001	0.170	0.008	24.49	19.7	20.4	21.1	21.3	36	2.9	0.246	-1.470
5.3	82.9	1.7	2.5	1.2	0.0023	0.0019	0.007	0.003	0.234	0.010	24.65	16.4	17.9	18.4	19.2	64	2.9	0.236	-1.480
4.4	81.4	1.7	2.5	1.1	0.0015	0.0023	0.001	0.007	0.281	0.016	24.52	8.8	11.3	11.7	11.3	86	3.0	0.268	-1.467
3.9	84.1	1.9	2.3	1.2	0.0080	0.0035	0.343	0.036	0.300	0.024	24.10	7.9	10.8	11.0	9.4	298	3.2	0.352	-1.428
2.6	86.6	2.1	2.1	1.4	0.0029	0.0025	0.018	0.010	0.117	0.012	23.50	17.8	19.9	20.7	20.4	310	3.4	0.255	-1.474
1.8	85.7	2.2	2.0	1.3	0.0031	0.0021	0.023	0.005	0.056	0.008	22.82	25.4	27.6	28.9	29.2	320	3.3	0.184	-1.534
2.2	86.1	2.2	2.0	1.3	0.0047	0.0018	0.089	0.002	0.076	0.008	22.23	25.1	27.2	27.7	27.8	304	3.5	0.187	-1.530
2.0	80.9	2.1	2.1	1.3	0.0031	0.0022	0.024	0.006	0.094	0.012	21.88	19.5	21.2	21.9	22.0	302	3.4	0.184	-1.533
3.0	78.3	2.2	2.1	1.1	0.0150	0.0136	1.142	0.973	0.403	0.083	21.87	6.0	9.7	9.6	9.0	259	2.9	0.169	-1.542
2.8	79.2	1.8	2.4	1.3	0.0079	0.0036	0.328	0.037	0.193	0.022	22.18	11.9	15.1	16.5	16.0	111	3.3	0.181	-1.528
1.7	83.2	1.8	2.3	1.4	0.0047	0.0017	0.088	0.002	0.063	0.008	22.83	24.1	24.9	25.4	24.9	23	3.1	0.190	-1.518

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1.0	79.1	1.8	2.3	1.4	0.0036	0.0014	0.037	0.001	0.033	0.006	23.59	28.6	28.8	29.4	29.2	23	3.6	0.184	-1.524
1.5	80.8	1.9	2.2	1.4	0.0047	0.0014	0.089	0.001	0.041	0.005	24.28	31.3	31.2	31.9	31.4	24	4.1	0.173	-1.535
1.1	70.3	1.9	2.2	1.4	0.0036	0.0016	0.040	0.001	0.037	0.007	24.71	25.6	25.7	26.4	26.8	37	4.1	0.210	-1.498
2.0	78.4	1.9	2.3	1.3	0.0040	0.0020	0.054	0.004	0.097	0.012	24.85	16.5	17.9	18.2	17.9	42	4.1	0.228	-1.479
2.3	79.4	2.0	2.3	1.2	0.0024	0.0031	0.009	0.022	0.225	0.028	24.69	4.0	7.3	7.4	6.8	88	2.7	0.226	-1.488
2.5	81.8	1.8	2.3	1.3	0.0028	0.0018	0.016	0.002	0.158	0.014	24.16	9.7	12.9	13.7	12.6	303	3.1	0.231	-1.495
1.8	81.0	1.9	2.2	1.4	0.0035	0.0011	0.034	0.000	0.069	0.007	23.55	22.3	24.4	25.2	25.4	317	3.8	0.241	-1.482
1.9	80.2	1.9	2.3	1.4	0.0050	0.0011	0.103	0.000	0.064	0.006	23.00	25.5	27.6	28.5	28.9	302	3.8	0.218	-1.501
2.4	82.4	1.9	2.3	1.4	0.0055	0.0014	0.137	0.001	0.092	0.008	22.64	22.6	24.7	25.2	25.3	308	3.7	0.192	-1.526
2.6	82.1	1.9	2.3	1.3	0.0071	0.0024	0.263	0.008	0.139	0.014	22.60	17.8	19.8	20.4	20.5	292	3.6	0.179	-1.539
3.2	81.0	1.9	2.4	1.0	0.0180	0.0088	1.516	0.423	0.490	0.075	22.96	8.7	12.9	13.2	12.4	282	3.6	0.191	-1.529
2.5	80.3	1.8	2.3	1.3	0.0040	0.0024	0.055	0.008	0.167	0.017	23.57	12.2	15.2	16.2	15.6	109	3.6	0.199	-1.514
2.2	82.4	1.8	2.3	1.4	0.0022	0.0014	0.006	0.001	0.101	0.009	24.20	20.3	21.9	22.4	22.0	24	3.7	0.211	-1.507
1.7	84.4	1.8	2.3	1.4	0.0023	0.0018	0.007	0.002	0.065	0.009	24.90	23.8	24.3	24.8	24.3	24	3.7	0.235	-1.479
1.2	82.3	1.9	2.2	1.4	0.0025	0.0011	0.009	0.000	0.042	0.006	25.43	23.4	23.6	24.2	23.9	30	3.7	0.233	-1.480
1.7	79.5	1.8	2.4	1.3	0.0032	0.0013	0.027	0.001	0.091	0.010	25.51	13.7	14.8	15.3	15.5	41	3.7	0.245	-1.468
2.5	79.3	1.7	2.5	1.1	0.0023	0.0022	0.007	0.005	0.224	0.022	25.34	3.7	7.1	7.1	6.3	178	3.8	0.272	-1.469
2.0	79.2	1.8	2.4	1.3	0.0021	0.0013	0.005	0.000	0.121	0.012	24.81	10.1	13.2	13.9	13.3	327	4.0	0.271	-1.473
1.5	85.9	1.9	2.2	1.5	0.0035	0.0010	0.035	0.000	0.049	0.006	24.01	24.7	26.7	27.8	27.9	314	3.4	0.288	-1.440
0.8	77.7	1.9	2.1	1.5	0.0022	0.0009	0.006	0.000	0.020	0.004	23.13	32.2	34.7	35.9	36.6	309	3.7	0.222	-1.497
0.9	76.5	1.9	2.2	1.5	0.0032	0.0008	0.026	0.000	0.025	0.004	22.42	31.7	34.0	35.1	36.0	306	3.6	0.180	-1.537
1.1	86.6	2.0	2.1	1.4	0.0021	0.0011	0.005	0.000	0.036	0.005	22.00	27.4	29.0	29.6	30.0	292	3.5	0.173	-1.544
2.2	78.3	2.0	2.2	1.2	0.0030	0.0036	0.019	0.038	0.166	0.024	22.09	12.6	15.0	15.3	15.0	290	3.7	0.176	-1.541
2.1	77.1	1.8	2.4	1.3	0.0132	0.0039	0.927	0.048	0.197	0.031	22.54	7.6	12.3	13.8	13.8	174	3.5	0.183	-1.530
1.5	78.6	1.8	2.3	1.4	0.0043	0.0014	0.069	0.001	0.059	0.008	23.27	22.9	24.5	25.4	25.6	19	3.3	0.178	-1.536
1.3	88.9	1.9	2.2	1.5	0.0043	0.0014	0.066	0.001	0.039	0.006	24.12	31.2	31.0	31.6	31.3	22	3.0	0.175	-1.538
1.2	87.6	1.9	2.2	1.5	0.0034	0.0011	0.032	0.000	0.031	0.005	24.92	33.6	33.2	34.0	33.9	34	3.2	0.171	-1.540
1.4	81.7	1.9	2.2	1.4	0.0033	0.0014	0.029	0.001	0.048	0.007	25.33	24.5	24.5	25.3	25.6	27	3.2	0.199	-1.512
1.9	78.7	1.9	2.3	1.2	0.0013	0.0011	0.000	0.000	0.085	0.008	25.32	15.5	16.7	17.5	18.7	48	3.2	0.223	-1.492
2.7	71.2	1.9	2.3	1.1	0.0017	0.0016	0.002	0.001	0.197	0.015	25.02	4.9	8.0	8.0	7.3	203	3.3	0.256	-1.492
1.6	76.8	1.9	2.2	1.4	0.0020	0.0009	0.004	0.000	0.071	0.007	24.38	16.9	19.1	19.8	19.9	315	3.5	0.297	-1.434
1.2	83.0	2.0	2.1	1.5	0.0039	0.0011	0.050	0.000	0.039	0.006	23.53	25.8	27.9	29.0	29.5	319	3.6	0.261	-1.463
1.2	79.9	2.0	2.1	1.5	0.0039	0.0010	0.050	0.000	0.032	0.004	22.77	31.0	33.4	34.5	34.9	325	3.7	0.193	-1.525
1.6	73.0	2.0	2.1	1.4	0.0038	0.0012	0.045	0.000	0.049	0.006	22.33	27.2	29.5	30.2	30.7	289	3.7	0.165	-1.552
2.0	67.6	2.0	2.2	1.2	0.0037	0.0028	0.042	0.016	0.128	0.018	22.35	14.0	16.4	16.9	16.5	299	3.7	0.161	-1.558

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2.8	79.1	1.8	2.4	1.1	0.0242	0.0094	2.292	0.484	0.435	0.080	22.77	7.6	12.5	12.7	12.4	297	3.5	0.161	-1.555
1.8	80.1	1.9	2.3	1.3	0.0023	0.0021	0.008	0.005	0.089	0.012	23.53	17.5	20.2	21.1	20.6	40	3.4	0.172	-1.543
1.2	79.5	1.9	2.2	1.4	0.0044	0.0014	0.072	0.001	0.040	0.006	24.39	28.6	28.4	29.0	28.2	28	3.7	0.180	-1.534
1.1	81.6	1.9	2.3	1.4	0.0031	0.0012	0.022	0.000	0.034	0.006	25.14	27.0	26.9	27.6	27.5	33	3.8	0.185	-1.527
1.8	81.5	1.9	2.3	1.3	0.0033	0.0012	0.028	0.000	0.067	0.007	25.56	21.3	21.7	22.7	23.6	40	3.7	0.207	-1.507
1.8	72.2	1.9	2.3	1.3	0.0015	0.0010	0.001	0.000	0.085	0.008	25.52	13.8	15.1	15.9	16.7	61	3.7	0.223	-1.493
2.1	78.6	2.0	2.3	1.2	0.0010	0.0015	0.000	0.001	0.154	0.015	25.13	4.7	7.6	7.7	6.7	216	3.5	0.260	-1.497
1.1	83.8	1.9	2.2	1.5	0.0021	0.0008	0.005	0.000	0.046	0.006	24.42	18.9	21.0	21.7	21.8	318	3.5	0.256	-1.472
1.1	79.0	1.9	2.1	1.5	0.0033	0.0009	0.029	0.000	0.031	0.004	23.43	30.0	32.4	33.6	34.3	315	3.6	0.220	-1.505
*	*	*	*	*	*	*	*	*	*	*	22.45	35.3	37.6	38.6	39.3	305	3.6	*	*
0.6	67.0	2.0	2.1	1.5	0.0023	0.0008	0.007	0.000	0.015	0.004	21.78	32.6	34.3	35.2	36.4	293	3.6	0.156	-1.561
0.9	47.0	2.1	2.0	1.4	0.0028	0.0010	0.016	0.000	0.037	0.007	21.56	21.5	23.2	24.1	24.6	295	3.6	0.156	-1.562
1.6	70.9	1.8	2.5	1.1	0.0114	0.0087	0.714	0.415	0.268	0.080	21.86	8.1	11.9	12.2	11.3	241	3.4	0.147	-1.567
0.9	67.9	1.9	2.2	1.4	0.0052	0.0016	0.120	0.001	0.049	0.011	22.64	15.1	18.9	20.1	19.9	121	3.3	0.150	-1.563
0.8	78.4	1.8	2.2	1.5	0.0036	0.0013	0.037	0.000	0.023	0.006	23.66	32.1	32.1	32.6	32.6	24	3.3	0.162	-1.550
0.3	69.9	1.9	2.2	1.4	0.0049	0.0012	0.098	0.000	0.006	0.005	24.67	35.2	35.0	35.8	35.2	27	3.3	0.166	-1.545
0.7	82.3	2.1	2.1	1.3	0.0035	0.0012	0.035	0.000	0.017	0.005	25.38	32.8	32.3	33.2	33.1	26	3.2	0.180	-1.531
0.8	76.6	1.9	2.2	1.4	0.0028	0.0010	0.016	0.000	0.027	0.006	25.61	21.9	22.0	22.9	24.0	30	3.3	0.210	-1.502
1.0	74.3	2.0	2.2	1.3	0.0029	0.0011	0.018	0.000	0.056	0.010	25.40	9.2	11.6	12.3	13.1	63	3.3	0.209	-1.505
0.6	80.7	1.9	2.2	1.4	0.0007	0.0007	0.000	0.000	0.030	0.008	24.85	10.9	13.6	14.2	13.4	332	3.3	0.207	-1.518
0.5	81.6	1.9	2.1	1.6	0.0023	0.0006	0.008	0.000	0.016	0.004	23.96	25.3	27.4	28.4	28.7	325	3.6	0.252	-1.477
0.4	90.4	2.0	2.1	1.5	0.0019	0.0008	0.003	0.000	0.009	0.004	22.95	34.2	36.7	37.8	38.4	316	3.7	0.198	-1.522
0.3	98.3	2.1	2.0	1.5	0.0026	0.0008	0.012	0.000	0.008	0.004	22.22	31.6	33.6	34.6	35.3	301	3.7	0.164	-1.554
0.4	68.3	2.0	2.1	1.5	0.0025	0.0010	0.010	0.000	0.012	0.005	21.86	25.9	28.0	28.7	29.2	295	3.6	0.148	-1.569
0.5	75.3	2.0	2.1	1.4	0.0044	0.0022	0.074	0.006	0.043	0.023	22.04	10.2	13.3	13.8	13.2	250	3.6	0.137	-1.579
0.5	75.7	2.0	2.1	1.4	0.0084	0.0023	0.377	0.007	0.039	0.019	22.75	8.9	13.9	16.2	15.8	188	3.7	0.140	-1.572
0.3	91.2	1.9	2.2	1.5	0.0040	0.0010	0.052	0.000	0.010	0.005	23.67	30.2	29.9	30.3	29.9	27	3.4	0.176	-1.540
0.2	101.7	2.0	2.1	1.5	0.0034	0.0011	0.033	0.000	0.005	0.004	24.75	36.1	35.6	36.5	35.8	21	3.4	0.183	-1.529
0.2	82.3	2.0	2.1	1.4	0.0026	0.0010	0.012	0.000	0.005	0.004	25.58	34.8	34.4	35.3	35.1	26	3.3	0.192	-1.519
0.2	89.8	2.0	2.2	1.4	0.0034	0.0012	0.030	0.000	0.007	0.006	25.91	22.8	22.9	23.4	24.9	50	3.3	0.207	-1.505
0.5	83.1	2.0	2.2	1.3	0.0025	0.0010	0.011	0.000	0.025	0.009	25.76	12.0	13.5	14.1	15.3	51	3.2	0.210	-1.502
0.3	88.4	1.9	2.1	1.5	0.0007	0.0006	0.000	0.000	0.019	0.007	25.19	10.2	12.9	13.5	12.6	340	3.3	0.213	-1.516
0.2	89.0	2.3	1.9	1.4	0.0022	0.0013	0.006	0.000	0.005	0.005	24.20	30.3	32.4	33.2	33.3	329	3.6	0.240	-1.485
0.3	85.9	2.2	2.0	1.4	0.0029	0.0013	0.018	0.001	0.005	0.004	22.95	44.1	46.8	48.6	49.6	327	3.6	0.191	-1.529
0.5	90.6	2.2	1.9	1.4	0.0020	0.0011	0.004	0.000	0.010	0.003	21.84	43.5	46.1	47.6	48.8	314	3.7	0.164	-1.553

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0.4	84.7	2.2	2.0	1.4	0.0026	0.0010	0.012	0.000	0.010	0.005	21.16	32.3	34.7	35.5	36.3	304	3.7	0.150	-1.567
0.8	65.3	2.1	2.1	1.2	0.0028	0.0023	0.016	0.008	0.039	0.012	21.04	18.1	20.4	21.1	21.1	306	3.7	0.141	-1.575
1.3	24.3	2.2	2.0	1.4	0.0145	0.0046	1.078	0.080	0.135	0.036	21.54	9.6	15.5	17.1	17.0	253	3.7	0.139	-1.571
0.5	35.7	1.9	2.2	1.4	0.0040	0.0013	0.053	0.000	0.017	0.006	22.49	28.4	30.4	31.1	31.2	17	3.5	0.151	-1.560
0.5	-0.7	1.9	2.1	1.5	0.0033	0.0011	0.028	0.000	0.010	0.004	23.66	41.1	40.6	41.8	41.9	19	3.9	0.161	-1.549
0.4	12.6	1.9	2.1	1.5	0.0034	0.0010	0.032	0.000	0.008	0.004	24.73	41.5	41.0	42.4	41.8	22	3.8	0.182	-1.528
0.6	33.2	2.0	2.1	1.4	0.0030	0.0010	0.021	0.000	0.014	0.004	25.35	33.4	32.6	33.6	34.4	27	3.6	0.201	-1.509
1.0	32.4	2.1	2.1	1.4	0.0028	0.0011	0.016	0.000	0.038	0.007	25.36	19.5	19.6	20.1	21.4	34	3.4	0.221	-1.488
1.6	19.7	2.3	2.0	1.2	0.0012	0.0010	0.000	0.000	0.114	0.012	24.95	3.6	6.8	6.9	5.8	241	3.3	0.215	-1.507
0.3	48.7	2.2	1.8	1.6	0.0009	0.0009	0.000	0.000	0.012	0.005	24.21	22.4	24.4	25.1	25.4	326	3.2	0.236	-1.475
0.2	70.3	2.2	1.9	1.4	0.0017	0.0010	0.002	0.000	0.004	0.003	23.04	39.7	42.2	43.4	44.3	317	3.5	0.211	-1.509
0.1	33.1	2.1	2.0	1.4	0.0025	0.0010	0.009	0.000	0.003	0.004	21.97	40.0	42.0	43.3	44.2	309	3.5	0.186	-1.532
0.1	-28.4	2.1	2.0	1.4	0.0017	0.0008	0.002	0.000	0.004	0.004	21.28	32.1	34.3	35.1	36.2	298	3.6	0.167	-1.551
0.4	44.5	2.0	2.1	1.4	0.0055	0.0018	0.138	0.002	0.022	0.012	21.14	18.2	19.7	20.7	20.8	320	3.5	0.154	-1.564
0.3	43.4	2.2	2.0	1.3	0.0154	0.0051	1.192	0.109	0.038	0.043	21.79	8.8	14.8	15.9	15.7	304	3.5	0.145	-1.564
0.1	93.8	2.0	2.1	1.4	0.0035	0.0011	0.035	0.000	0.005	0.006	22.76	28.0	29.1	29.7	29.9	15	3.2	0.154	-1.557
0.2	30.4	1.9	2.1	1.5	0.0049	0.0011	0.099	0.000	0.005	0.004	23.95	40.2	39.6	40.3	40.6	28	3.3	0.170	-1.541
0.2	-60.3	1.9	2.2	1.5	0.0030	0.0009	0.021	0.000	0.003	0.003	25.14	44.4	43.5	44.4	43.3	24	3.2	0.186	-1.523
0.2	104.6	1.9	2.2	1.5	0.0041	0.0011	0.057	0.000	0.005	0.004	25.82	35.5	34.9	35.9	35.6	23	3.0	0.206	-1.502
0.2	94.8	2.0	2.1	1.4	0.0028	0.0009	0.015	0.000	0.006	0.005	26.02	23.3	23.1	24.1	25.0	25	2.8	0.224	-1.486
0.4	46.4	2.1	2.2	1.2	0.0010	0.0010	0.000	0.000	0.030	0.011	25.70	4.2	8.1	8.4	8.4	100	2.8	0.225	-1.493
0.2	79.8	2.0	2.0	1.6	0.0013	0.0010	0.000	0.000	0.008	0.007	24.98	18.7	20.7	21.5	21.5	330	3.1	0.229	-1.497
0.0	-88.7	2.1	2.0	1.4	0.0018	0.0009	0.002	0.000	0.001	0.004	23.75	34.4	36.6	37.6	38.3	327	3.5	0.238	-1.482
0.1	-93.5	2.1	2.0	1.5	0.0024	0.0010	0.009	0.000	0.002	0.003	22.49	42.6	45.1	46.7	47.6	314	3.7	0.209	-1.510
0.1	73.9	2.0	2.1	1.5	0.0034	0.0010	0.031	0.000	0.003	0.004	21.54	38.8	41.0	42.2	43.0	322	3.7	0.184	-1.534
0.1	75.5	2.1	2.1	1.4	0.0016	0.0009	0.001	0.000	0.002	0.005	21.10	28.5	30.4	31.3	32.2	289	3.6	0.165	-1.553
0.4	56.3	2.0	2.3	1.2	0.0194	0.0096	1.703	0.506	0.077	0.091	21.39	9.1	12.2	13.1	11.9	224	3.6	0.154	-1.559